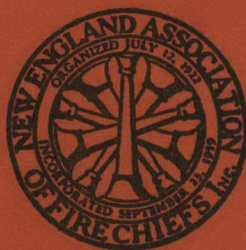


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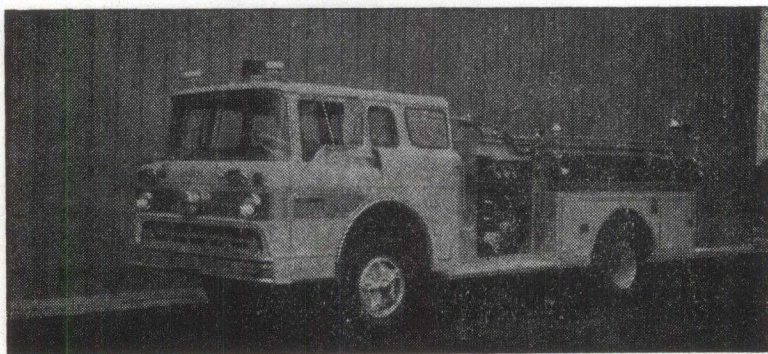
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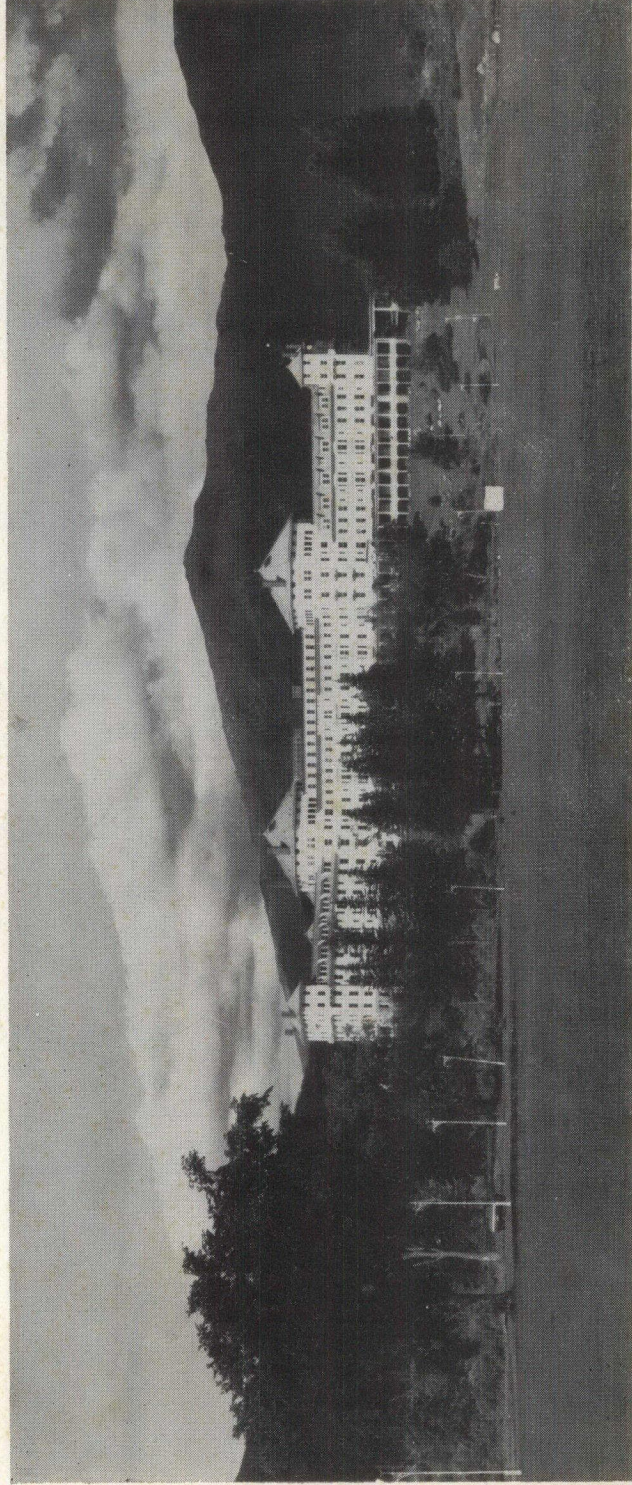
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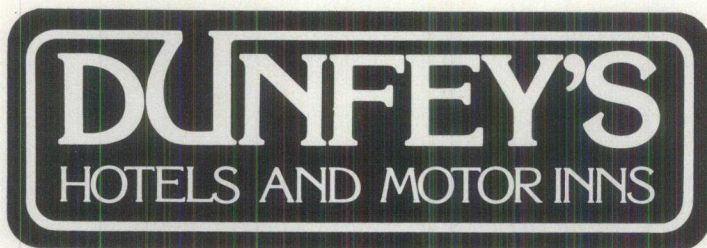
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of

Fire Chiefs, Inc.

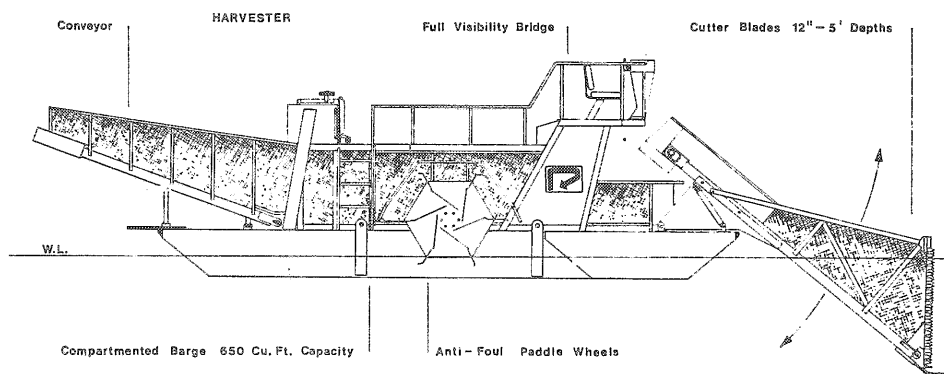


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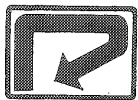
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Places and Dates of Past Conventions

- No. 1—BRIDGEPORT, Conn., June 20-21-22, 1923
PRES. CHIEF JOHN P. DOYLE, Wellesley, Mass.
- No. 2—BOSTON, Mass., June 24-25-26, 1924
PRES. JOHN C. MORAN, Hartford, Conn.
- No. 3—PITTSFIELD, Mass., June 23-24-25, 1925
PRES. PATRICK J. HURLEY, Holyoke, Mass.
- No. 4—MANCHESTER, N. H., June 22-23-24, 1926
PRES. DANIEL E. JOHNSON, Bridgeport, Conn.
- No. 5—PORTLAND, Maine, June 21-22-23, 1927
PRES. CHARLES H. FRENCH, Manchester, N. H.
- No. 6—BURLINGTON, Vermont, June 26-27-28-29, 1928
PRES. WILLIAM C. SHEPARD, Pittsfield, Mass.
- No. 7—NEW HAVEN, Conn., June 25-26-27, 1929
PRES. OLIVER T. SANBORN, Portland, Maine
- No. 8—RUTLAND, Vermont, June 24-25-26-27, 1930
PRES. LAWRENCE E. REIF, New Haven, Conn.
- No. 9—BOSTON, Mass., June 23-24-25-26, 1931
PRES. SELDEN R. ALLEN, Brookline, Mass.
- No. 10—NEWPORT, R. I., June 21-22-23-24, 1932
PRES. JOSEPH LAWTON, Newport, R. I.
- No. 11—LEWISTON, Maine, June 20-21-22, 1933
PRES. ALFRED H. KOLTONSKI, Rutland, Vt.
- No. 12—BURLINGTON, Vermont, June 26-27-28-29, 1934
PRES. DANIEL B. TIERNEY, Arlington, Mass.
- No. 13—NEW BEDFORD, Mass., June 25-26-27, 1935
PRES. JOHN S. PACHL, New Haven, Conn.
- No. 14—HARTFORD, Conn., June 23-24-25, 1936
PRES. DAVID H. DeCOURCY, Winchester, Mass.
- No. 15—THE BALSAMS, Dixville Notch, N. H., June 22-23-24, 1937
PRES. CARL D. STOCKWELL, Burlington, Vt.
- No. 16—BURLINGTON, Vt., June 21-22-23, 1938
PRES. JOSEPH W. RANDLETTE, Richmond, Me.
- No. 17—PROVIDENCE, R. I., June 20-21-22, 1939
PRES. THOMAS F. BURNS, Bridgeport, Conn.
- No. 18—THE BALSAMS, Dixville Notch, N. H., June 25-26-27, 1940
PRES. SAMUEL J. POPE, Boston, Mass.
- No. 19—BOSTON Mass., Aug. 18-23, 1941
PRES. THOMAS H. COTTER, Providence, R. I.
- No. 20—Cancelled because of the War
PRES. WILLIAM C. MAHONEY, Peabody, Mass.
- No. 21—RUTLAND, Vt., War Conference, June 22-23-24, 1943
PRES. WILLIAM C. MAHONEY, Peabody, Mass.
- No. 22—THE BALSAMS, Dixville Notch, N. H., June 27-28-29, 1944
PRES. M. W. LAWTON, Middletown, Conn.
- No. 23—Cancelled because of the War
PRES. ALLEN F. PAYSON, Camden, Maine
- No. 24—THE WENTWORTH, Portsmouth, N. H., June 25-26-27, 1946
PRES. ALLEN F. PAYSON, Camden, Maine
- No. 25—THE WENTWORTH, Portsmouth, N. H., June 24-25-26, 1947
PRES. FRANK J. CALLAHAN, Central Falls, R. I.

Places and Dates of Past Conventions

(Continued)

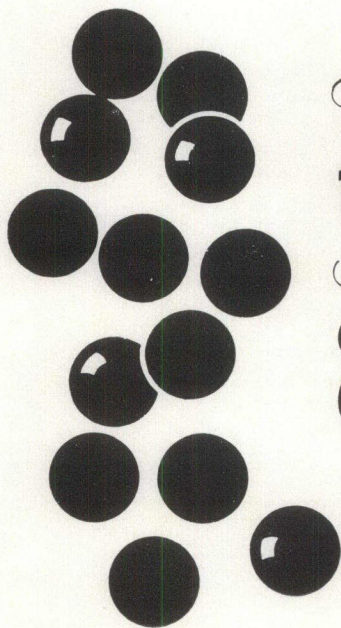
- No. 26—THE WENTWORTH, Portsmouth, N. H., June 22-23-24, 1948
PRES. ARTHUR W. SPRING, Laconia, N. H.
- No. 27—THE WENTWORTH, Portsmouth, N. H., June 21-22-23, 1949
PRES. CHIEF WILLIAM H. HILL, Belmont, Mass.
- No. 28—THE WENTWORTH, Portsmouth, N. H., June 20-21-22, 1950
PRES. CHIEF STUART M. POTTER, Greenwich, Conn.
- No. 29—THE WENTWORTH, Portsmouth, N. H., June 19-20-21-22, 1951
PRES. CHIEF WILLIAM H. CLIFFORD, Cape Elizabeth, Maine
- No. 30—THE WENTWORTH, Portsmouth, N. H., June 23-24-25-26, 1952
PRES. JOSEPH E. SCANLON, Lynn, Mass.
- No. 31—THE WENTWORTH, Portsmouth, N. H., June 22-23-24-25, 1953
PRES. ANTHONY J. MOLLOY, Nashua, N. H.
- No. 32—THE WENTWORTH, Portsmouth, N. H., June 21-22-23-24, 1954
PRES. CHIEF HENRI E. FORTIER, Manville, R. I.
- No. 33—THE WENTWORTH, Portsmouth, N. H., June 20-21-22-23, 1955
PRES. CHIEF GEORGE C. GRAHAM, Bristol, Conn.
- No. 34—THE WENTWORTH, Portsmouth, N. H., June 25-26-27-28, 1956
PRES. CHIEF JOHN F. KEEFE, Bellows Falls, Vt.
- No. 35—THE WENTWORTH, Portsmouth, N. H., June 23-24-25-26, 1957
PRES. CHIEF HORACE S. JOSE, So. Portland, Maine
- No. 36—THE WENTWORTH, Portsmouth, N. H., June 23-24-25-26, 1958
PRES. CHIEF THOMAS H. SLAMAN, Wellesley, Mass.
- No. 37—THE WENTWORTH, Portsmouth, N. H., June 22-23-24-25, 1959
PRES. CHIEF GEORGE F. SALISBURY, Central Falls, R. I.
- No. 38—THE WENTWORTH, Portsmouth, N. H., June 20-21-22-23, 1960
PRES. CHIEF GUY L. FOSS, Wolfeboro, N. H.
- No. 39—THE WENTWORTH, Portsmouth, N. H., June 19-20-21-22, 1961
PRES. CHIEF FRANCIS J. DAGON, East Hartford, Conn.
- No. 40—THE WENTWORTH, Portsmouth, N. H., June 18-19-20-21, 1962
PRES. CHIEF ALFRED T. WRIGHT, White River Junction, Vt.
- No. 41—THE WENTWORTH, Portsmouth, N. H., June 17-18-19-20, 1963
PRES. CHIEF RICHARD FRATES, Bath, Maine
- No. 42—THE WENTWORTH, Portsmouth, N. H., June 28 to July 2, 1964
PRES. CHIEF BARTHOLOMEW A. CURREN, Scituate, Mass.
- No. 43—THE WENTWORTH, Portsmouth, N. H., June 21 - 24, 1965
PRES. CHIEF THOMAS E. DUCKWORTH, Warwick, R. I.
- No. 44—THE WENTWORTH, Portsmouth, N. H., June 20 - 23, 1966
PRES. CHIEF RALPH G. SEAVEY, Rochester, N. H.
- No. 45—THE WENTWORTH, Portsmouth, N. H., June 19 - 22, 1967
PRES. CHIEF JAMES L. GROTE, Chester, Conn.
- No. 46—THE WENTWORTH, Portsmouth, N. H., June 23 - 27, 1968
PRES. CHIEF CARM J. DUSO, Enosburg Falls, Vt.
- No. 47—THE WENTWORTH BY THE SEA, Portsmouth, N. H., June 22 - 26, 1969
PRES. CHIEF GEORGE A. BULGER, Rumford, Maine
- No. 48—THE WENTWORTH, Portsmouth, N. H., June 21 - 25, 1970
PRES. CHIEF ROBERT ULM, Easthampton, Mass.
- No. 49—THE WENTWORTH, Portsmouth, N. H., June 13 - 17, 1971
PRES. CHIEF ROMEO D. MONAST, Pawtucket, R. I.
- No. 50—THE WENTWORTH, Portsmouth, N. H., June 18-22, 1972
PRES. CHIEF JOHN F. DONOVAN, Durham, N. H.
- No. 51—MT. WASHINGTON HOTEL, Bretton Woods, N. H.
PRES. CHIEF ALBERT B. GALETTI, Barre, Vt.

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51st Annual Conference NEW ENGLAND ASSOCIATION OF FIRE CHIEFS

Mount Washington Hotel — Bretton Woods, New Hampshire

June 24 - 25 - 26 - 27 - 28, 1973



SUNDAY EVENING MEMORIAL SESSION — JUNE 24, 1973

The Sunday Evening Memorial Session of the 51st ANNUAL CONFERENCE of the NEW ENGLAND ASSOCIATION OF FIRE CHIEFS, INC. convened at the Mount Washington Hotel, Bretton Woods, New Hampshire, on June 24, 1973, at 9:00 o'clock, with President Thomas J. Hayes presiding.

PRESIDENT HAYES: Good Evening, Ladies and Gentlemen. At this time, I want to call the 51st ANNUAL CONFERENCE of the NEW ENGLAND ASSOCIATION OF FIRE CHIEFS, INC. in session. I hope that you are not as nervous as I am.

At this time, we will have the Invocation by a very good friend of the Fire Service, Reverend Charles H. Hood of Beverly, Massachusetts.

REVEREND CHARLES H. HOOD: Let us pray. Eternal and everlasting God, our Father, we thank Thee for all the blessings of the past year, the things which have brought us to this point.

We thank Thee, O God, for the faith and the courage that has sustained us through the years. We ask Thy special blessing upon us and upon all gathered here. In the name of the Father and of the Son and of the Holy Spirit, Amen.

PRESIDENT HAYES: At this time, I want to give you a very good welcome, both from Mrs. Hayes and myself.

I do want to introduce to you, from the Mount Washington Hotel, a man who is attempting to do everything that the Committee has tried to do for you, as well as their wives, to make this a wonderful 51st Conference.

May I bring to you, now, the General Manager of Bretton Woods, George Cummings.

MR. GEORGE CUMMINGS: Thank you, Chief Hayes. On behalf of the Mount Washington Hotel and the Bretton Woods Fire Department, I want to give you a fine welcome to your 51st Conference.

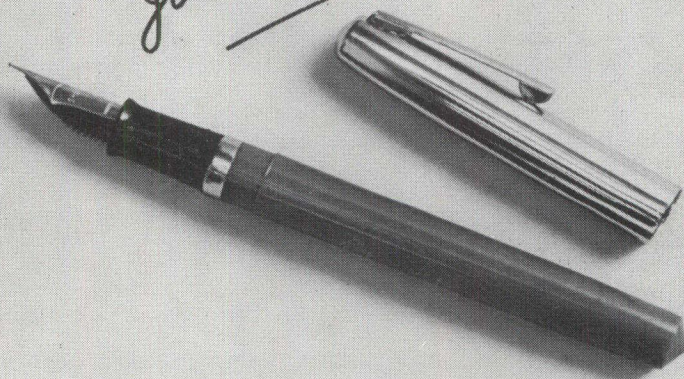
Along with your important meeting here, there will also be a chance to relax and continue to make friends, meet old friends, too, and we hope that we can do our part to make this the best Conference you have ever had.


Thank you very much.

PRESIDENT HAYES: At this time, I want to introduce to you a very good friend—I can mispronounce names and maybe I am going to do that right now, but I want you to meet and listen to the President of the New Hampshire Fire Chiefs Club, Chief Moise H. Mercier of West Franklin.

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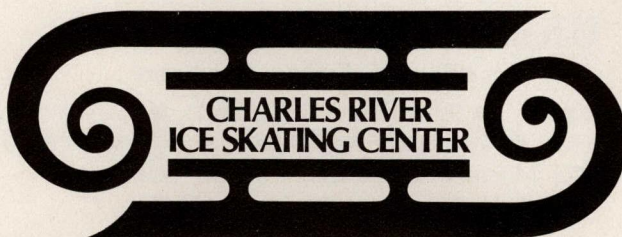


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CHIEF MOISE H. MERCIER, President of the New Hampshire Fire Chiefs Club: Thank you, Mr. President. When they can't pronounce my name, they call me the "Flying Frenchman."

Mr. President, Reverend Clergy, Members of the New England Association of Fire Chiefs, Inc. and Guests. It is a privilege for me to be here and to welcome you all, on behalf of the New Hampshire Fire Chiefs Club. I hope that this Conference will be most successful, not only in attendance, but in gaining knowledge of the many problems of the Fire Service.

Your stay in the White Mountains area in our State will be beautiful, if the weatherman cooperates. He has been hard to get along with this year.

Enjoy yourselves and take advantage of the program.

Thank you very much!

PRESIDENT HAYES: We have heard from the Mount Washington man and from the New Hampshire Fire Chiefs Club. I feel that it is time, now, for the Response to the Addresses of Welcome, and I am going to call upon my good friend and your good friend from Hamden, Connecticut, Chief V. Paul Leddy, to give that Response.

CHIEF V. PAUL LEDDY of Hamden, Connecticut: Father Delvaux, Reverend Hood, President Hayes, Mr. Cummings, Chief Mercier, Ladies and Gentlemen.

The First Annual Conference of this Association was held in June, 1923, in Bridgeport, Connecticut, my home State.

Since that time, the Conference has been held at least once in each of the other New England States. However, by far and above any of the New England group of States, New Hampshire has been way out in front. This year is no exception. We are still in New Hampshire—a lot closer to Canada than in previous years, but nevertheless, still in the Granite State.

The topics that will be provided for your consideration and discussion in our forthcoming program this week, undoubtedly will differ tremendously from those that were discussed in the initial conference in 1923.

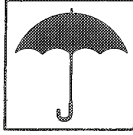
In spite of what has been said in recent months in the media, we in the Fire Service have always been progressive.

We have striven continuously to analyze and attempt to solve the problems that have faced us; sometimes, at tremendous odds.

We shall continue to face up to the problems of the future, no matter how difficult, just as long as our nation and the whole world continues to progress.

However, while the main purpose of our Conference is educational, let us not lose sight of the fact that our lovely ladies are also here with us, to help us enjoy ourselves and to take advantage of the fabulous entertainment that the management of the Mount Washington Hotel has in store for us.

On behalf of the New England Association of Fire Chiefs, Inc., I wish to express thanks to the officials of the State of New Hampshire, local officials, and to the management of this grand establishment, the Mount Washington Hotel, for their hospitable welcome.



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PRESIDENT HAYES: Those glowing words were just wonderful. We had a wonderful day to come up here, and I think that every one will agree to that.

Now, at this time, we are going to start our Memorial Service. There are two definite requests that I shall make of you. Let us refrain from smoking during this Memorial Service and may I suggest that there be no applause until it is over.

At this time, I am going to ask our genial Secretary, Chief James F. Brennan of Salem, Massachusetts, to read the Roll Call of Deceased Members.

SECRETARY JAMES F. BRENNAN: Thank you, Mr. President. The following members of the New England Association of Fire Chiefs, Inc., have passed away during the past year:

Chief Columbus Pasetti, Westerly, Rhode Island	July 7, 1972
Chief Raymond Pratt, Burlington, Vermont	July 19, 1972
Chief Theodore S. Lockwood, Stratford, Connecticut	July 30, 1972
Chief Henry Hilton, Gloucester, Massachusetts	October 12, 1972
Chief John J. Driscoll, Lebanon, New Hampshire	October 15, 1972
Chief Ray D. Wells, Falmouth, Massachusetts	October 24, 1972
Chief Raymond E. Wood, Brewer, Maine	November 2, 1972
Deputy Chief Douglas P. Tobin, Greenwich, Connecticut	November 4, 1972
Chief Harold J. Conron, North Reading, Massachusetts	December 24, 1972
Deputy Chief Lloyd W. Priest, Middleton Springs, Vermont	December 8, 1972
Chief Henry Goold, Scarborough, Maine	December 25, 1972
Chief Samuel J. Pope, Boston, Massachusetts	January 5, 1973
Chief Leo Roy, Woonsocket, Rhode Island	January 13, 1973
Associate Member John J. McWalter, Concord, Mass.	March 13, 1973
Chief Wilfred Payette, North Providence, Rhode Island	March 17, 1973
Chief Frank Fleming, Waltham, Massachusetts	May 22, 1973
Chief George S. Butler	June 22, 1973

(The audience then rose in silent and reverent memory of the members who have passed on during the year.)

PRESIDENT HAYES: We are now going to hear from our Soloist, Carole De Carter.

(Miss Carole DeCarter then rendered "The Lord's Prayer," by the composer Malotte.)

PRESIDENT HAYES: Our principal speaker this evening, Reverend August Delvaux of Rhode Island, will now deliver the Memorial Address.

REVEREND AUGUSTE DELVAUX: You have heard it said as to "Happy the Man," I am sure, and after fifty years we have much that is old in the cupboard. We have started to pay tribute to those who have left us so much.

One of the greatest difficulties today is how to keep on with our traditions, in a time of change. Our young people see very little of our traditions, and they are all for

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change. And yet, I remember a few years ago when I became a Chaplain here, I was probably the youngest man who served in that capacity, and as I look back, not only because of the fine company that I find here, but also because of the respect of the image of the service of the members, I have many thoughts, and I would like to dedicate this talk on the demonstration of change. And this is in spite of those who have no sense of history, that this is a fact of life, and it is inevitable, because there are always those who come before who pass on to the following generation all that is there, maybe because archeology is looked upon in the study of tradition, well, perhaps it is more an idea that the tradition that archeology is not passing from one generation to the other of that which we own.

It may be that our generation has backed down on our tradition, because our young people need tradition; it is a necessity of life. Certainly, there are advantages. Some people would say that tradition has a tendency of confining them; that as we grow older, we get more emotional, and we tend to show the process of change. And yet, change by design is much better than change by chance.

Our young people are being fed by juxtaposed multitudes of ideas. And, it is only by change that one or the other becomes a fact, for a while, and then disappears.

The Chiefs have gathered here for fifty-one years for the purpose of changing the Fire Service, making themselves better for change, like tradition, as they have been doing in a rational traditional way.

Not changing by name, yet the advantage is that in a commanding by design, that is it, and it would be some stability, and as all of you know who work with young people, it is needed in today's life work.

Our young people are very much worried about the traditions which have enriched the lives of all of us at the present time. We do not have to step back in front of the younger generation and apologize for the tradition, but we want to let them see the richness of this tradition. They will accept the challenge.

Everybody speaks of freedom today. Freedom is when we are able to see the challenge presented to us by reality, facing that challenge and overcoming the problem. This is why the Chiefs are here. Certainly, as new products, new chemicals come upon the market, they present a new challenge to the Fire Service, and we find this change by design and by chance.

The young people are speaking of communication, and the essence of communication is listening. The Chiefs have been coming here for years to listen to one another and to listen to those who have come with their expertise, because tradition is the process of change, as we pass our own knowledge from one generation to another.

Our young people are coming up with the idea of authority. Nowhere do we find a better, more suitable expression of authority as expressed by Christ than with His disciples, for they were, indeed, the servants of the people, the ruling servants of the people, and authority was simply a way of servicing the needs of the people.

There is nothing wrong with that definition of authority. There is nothing wrong with the way we have come here to communicate with each other, and there is nothing wrong with the way we face the challenges of the day, rationally.

I think that it is only a fitting tribute to those who have gone before us to have left a tradition of change, a tradition of growing, all the while leaving behind a tradition of fellowship, a tradition of brotherhood, and I don't think that you will find a stronger brotherhood than that of the firefighters.

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I would like to dedicate a moment of silence for those who have gone before us, asking each and every one of us to remember how we have been enriched by the passing on of knowledge and friendship by these brothers who are no longer here with us.

(A moment of silence.)

O God, our Father, we have seen your works and your deeds, and your birth has been explained. We have seen the deeds of those who have gone before us, and we still remember their words.

We pray that you will fill our hearts with your spirit of wisdom, that we might become truly free. Help us to continue so that we might find stability in our Conference. Help us to listen to your words, the words of those who have gone before us. Bless with your words, and in the blessing of us all, may the Father, Son and Holy Spirit be with you at this Conference and remain forever and ever. Amen.

PRESIDENT HAYES: Ladies and Gentlemen, this concludes our Memorial Service, in connection with this part of the program.

From here, on, the rest of the evening is yours. We will hear from Tony Bruno's orchestra. Thank you for your attendance and your patience.

(Adjournment of Memorial Service at 9:35 o'clock P.M. on June 24, 1973.)

OPENING SESSION — JUNE 25, 1973

The Opening Session of the NEW ENGLAND ASSOCIATION OF FIRE CHIEFS, INC. convened in the Regency Ballroom of the Mount Washington Hotel, Bretton Woods, New Hampshire, on June 25, 1973, at 9:25 o'clock A.M., with President Thomas J. Hayes presiding.

PRESIDENT HAYES: Good Morning, Gentlemen.

As the first order of business, I am going to call upon our Secretary, Jim Brennan, to read the proposed changes in the Bylaws.

SECRETARY BRENNAN: Thank you, Mr. President. Undoubtedly, you would like a little background as to why the Board of Directors proposed this change in the Bylaws. Quite frankly, like many other groups, as indicated over the past three years, we have felt the need for raising the dues in our Association. I shall now read the proposed changes:

Article V. Membership. Section 1. The membership shall consist of: A. Active; B. Associate; C. Honorary Life; D. Life. A. Active Members—"Active Chiefs" and Ex-Chiefs of Fire Departments, Fire Commissioners, Chiefs or Superintendents of Insurance Patrols and Chiefs of Private Fire Departments. Dues \$10.00 annually, payable in advance of June 1st of each year. B. Associate Members—City or Town Officials, Assistant or Deputy Chiefs or members of fire departments, individuals representing firms and corporations interested in the protection of life and property against fire. Dues \$10.00 annually, payable in advance on June 1st of each year.

If you have any questions regarding the proposed changes, please see President Hayes or myself or any member of the Board of Directors.

PRESIDENT HAYES: Thank you, Secretary Jim Brennan.

And now, according to our program, Gentlemen, as you know from the last few years, the Monday Morning Session is turned over to the New England Division of the

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International Association of Fire Chiefs. Bill Young is not here so that I am going to turn the meeting over to Ray Potter of Suffield, Connecticut, who will chair this meeting of the New England Division of International.

A motion to adjourn this meeting is now in order.

Upon motion duly made and seconded, it was VOTED: To adjourn the Opening Session of the New England Association of Fire Chiefs, Inc.

(Adjournment at 9:35 o'clock A.M. June 25, 1973.)

MONDAY AFTERNOON SESSION — JUNE 25, 1973

The Monday Afternoon Session of the NEW ENGLAND ASSOCIATION OF FIRE CHIEFS, INC. convened in the Regency Ballroom on June 25, 1973, at 2:00 o'clock P.M., with President Hayes presiding.

PRESIDENT HAYES: The meeting will please come to order, Gentlemen. The Program Committee has been working for a whole year, arranging the Program for this Conference, and they have done a wonderful piece of work. As of today, we are going to see the results of their efforts.

I welcome you all here this afternoon, and at this time, I am going to turn the Program over to the Chairman of the Program Committee, Chief V. Paul Leddy of Hamden, Connecticut.

PROGRAM COMMITTEE CHAIRMAN LEDDY: Thank you, Tom. This is the start of the educational portion of our Program, and I should like to introduce our first Moderator for the first speaker on the program, Chief Harry Audley of Westport, Connecticut. He has been seventeen years with his department, and another two and a half years as Chief; he is also Fire Marshal in the Town of Westport. Harry is going to introduce our first speaker this afternoon, so without further ado, I am going to turn the meeting over right now to Chief Harry Audley.

MODERATOR HARRY AUDLEY: Thank you, Paul. It is good to see so many of you gentlemen present here this afternoon. We are going to hear from Mr. Gerald M. Duwors, Assistant Regional Administrator, Technical Support, OSHA, Occupational Safety and Health Administration of the United States Department of Labor.

Mr. Duwors spent twenty-two years with the Bethlehem Steel Company, as Scrap Supervisor and Coordinator and Chief Safety Engineer. He then spent three years with one of the large insurance companies, after which he was associated with Stone and Webster for three and a half years as Assistant Manager of Safety.

He is Past Chairman of the American Society of Safety Engineers, Boston Chapter, as well as the Industrial Safety Engineers of Massachusetts. He is a member of the Safety Council's Accident Prevention Committee, the National Constructors Association, South Shore Safety Council, the National Safety Council, the American National Standards Institute.

It is my pleasure to introduce to you at this time Mr. Gerald Duwors, who will speak to us on the subject of "OSHA Updated."

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OSHA UPDATED**Gerald M. Duwors****Assistant Regional Administrator****OSHA — Boston, Massachusetts**

Thank you, Mr. Moderator. When I came out of the Navy twenty-five years ago, I tried to get on the Boston Fire Department, but that was a fizzle. That is one thing that I do not have in common with you. I wasn't too much surprised. I was turned down many times before I was drafted.

I have been asked to give you a broad brush application of my subject, and I am going to zero in on a little thinking that you might be interested in.

The signing into law of the Williams Steiger Occupational Safety and Health Act makes it one of the most far-reaching and important pieces of legislation ever enacted by Congress. This Bill was, in fact, a joint effort. It has proven to be complicated, technical and tough, having real teeth in it.

It has been flame-tested with heated opposition and field-tested with practical applications and found to be workable, a little different approach and very much needed.

By passing this legislation, Congress recognized that from the inception of the industrial revolution, the workman and his work environment have at times been a frightening combination, often times leaving an incredible wake of unnecessary deaths, injuries and industrial illnesses, plus a multitude of equally unwanted side effects, all on the minus side.

Congress also knew that causes of accidents were, in some cases, ignored, accepted as inevitable or a part of the job, and that realistically speaking, monetary factors were the main inducement to see the necessary corrective action before a repetition.

The OSHA Act, of course, was not the first safety law written. It would be a gross injustice to overlook meaningful efforts of some employers, inspection forces of our State agencies, insurance industry representatives and other well-meaning persons.

The Occupational Safety and Health Act bolstered the missing link in the basic beliefs of those persons employed fully in accident prevention. Education and engineering were already operating to a great extent. The missing link to complete this triumvirate was **enforcement** of the lessons learned in training and engineering.

Being a nation of good business men, we know, also, that Congress had good reason to be motivated by the thought of 14,200 workmen who are killed each year, 2.2 million who lost time as a result of occupationally incurred injuries and the accompanied lost productive effort topped off by a price tag of 9.1 billion dollars.

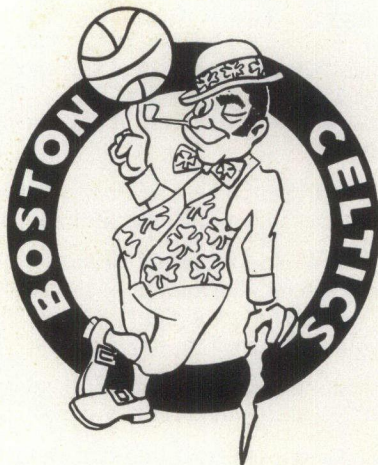
Hopefully, until it is developed further, the Williams-Steiger Act will provide the necessary stop-gap to this depletion of men and resources.

This law, I am sure, with its attendant aspects such as standards, record-keeping, training and inspection, has caused a **renewed emphasis** in the field of occupational safety and health, and possibly is a factor in the regenerated efforts of all of us. In large part, it is why we are gathered here today.

What, in fact, have we been doing since the signing of the OSHA Bill just thirty months ago? Perhaps a little accounting of stewardship is called for.

Organizationally, we have grown rapidly, nationally. This was possible since a nucleus force already existed. The former Labor Standards Bureau consisted of seven

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regional offices and a number of district offices. We are, today, an organization with ten regional offices and forty-nine plus area offices and satellite offices. Thirty months ago, we numbered three hundred. This number has been increased by seven hundred since that time.

As a new organization, the OSHA personnel typifies and amplifies the President's Commitment to make government work more advantageously and efficiently by providing services as close as possible to the people served.

As to OSHA, let me say that there are two views of this word, OSHA. One is that it is a four-letter word, and the other is an abbreviation for **Our Saviour has arrived**. Take your pick. Make your choice.

OSHA, therefore, is a de-centralized organization. Our ten Regional Administrators have broad responsibilities and authority. Within broad, national guidelines, they make regional decisions.

Our region consists of the six northeastern or New England states, with our Regional office in Boston. It is headed by Mr. Donald E. MacKenzie.

Our first mission or task under the Act was to produce an initial standards package. This was accomplished one month after the effective day of the law, on May 29, 1971. It included provisions invoking construction, maritime and general industry standards. Being consensus standards, they voiced that which each industry stated was workable or liveable. After a 90-day familiarization period, the standards became generally effective on August 27, 1971. The original package is only the beginning, and the standards are minimal in nature.

In addition to new changes contemplated this year and which will appear in the Federal Register, there is now available and up-dated, the so-called "clean version" of the standards. This will serve to up-date and somewhat clarify matters.

Our second major mission called for a mechanism to enforce the standards. This is our first or primary function. To implement this assignment, competent safety engineers have been hired, trained through classroom techniques and field situations, and will be re-trained continuously to further, and, most importantly, to up-date their knowledge.

I might add that we are not raising "cook book compliance officers." That is to say, we expect good judgment to be an intangible ingredient in addition to a level measurement to prevail in gray areas of enforcement. We look for a degree of flexibility in seeking compliance.

Incidentally, there is available at the Government Printing Office in Boston and Washington a paper-back, containing the compliance operations manual that we are guided by. The price is \$2.00. With the aid of this publication and a copy of the Standards, it is entirely possible for an employer to conduct his own self-inspection, to compute days of abatement and to self-inflict monetary penalties. This is a "Do-It-Yourself" kit; try it for size before the arrival of OSHA!

In carrying out our mandate on compliance, it is our objective to concentrate on safety and health issues and to avoid collective bargaining issues and all labor-management differences.

We have carried out a target industry program by tackling the areas with the highest accident frequencies. We now have a Target Health Hazard Program. This is the health counterpart of the target industry program. In a sense, we have entered into a joint venture with New Hampshire, Vermont and Massachusetts to track down

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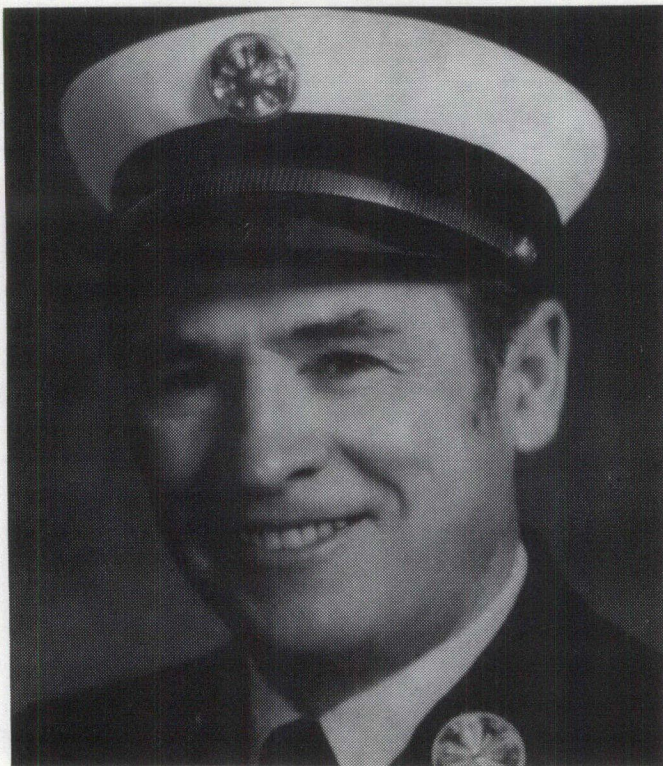
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Our field inspection priorities include catastrophies and fatalities, employee complaints, special programs and random selections.

Another current major priority is that of State Programs.

The Act provides a direct invitation to the States to assume full responsibility to enforce this Act, providing certain conditions are met. We have considered it essential to have agreements between States and the Federal Government:

1. To continue in-place worker protection for the time being, and
2. To permit the States time to develop programs which would be considered adequate, under the Act's requirements.

The Act also provides, during the start-up period, for developmental grants to States for assisting them to analyze and improve their existing standards and programs in order to meet the requirements for a full-fledged operating program.

The essential criteria for States is the need for a new, different kind of State program approach to be at least as effective as the new Federal program or OSHA. There has been a response from all states within Region 1. Plans from Vermont, New Hampshire, Maine, Connecticut, Rhode Island and Massachusetts have been sent to Washington, after an initial scrubbing, locally.

Each man must include a provision for the protection of municipal employees. Here is a list of some of the items which must be addressed to a public employee program.

The concept:

1. Regular inspections of work places, including inspections in response to valid complaints from employees.
2. A means for employees to bring possible violations to the attention of inspectors during a walk around inspection.
3. Notification to employees when no violations are found in a complaint-response inspection. (Either a posted citation or a written communication, if none found.)
4. Inform employees about their protection and responsibilities under the program.
5. Protection for employees against employer retaliation for exercising their rights under the program, with no discrimination or disciplinary action.
6. Inform employees about their exposure to toxic materials, especially when exposures are above levels specified by standards.
7. Proceed for prompt restraint or elimination of imminent danger situations. Legal moves, with notification of employer.
8. A means of notifying employers and employees when an alleged violation has been found.
9. A means of establishing time-tables for correction of violations, and for notifying employers and employees about them.
10. A program for encouraging voluntary compliance.

Under the State requirements for OSHA, there must be a Safety Program for Firefighters, as well as other municipal employees. The formulation of certain of these programs will most likely encompass source information gained through regional

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organizations such as yours, the New England Association of Fire Chiefs, Inc. or national organizations such as the International Association of Fire Chiefs, the International Association of Firefighters, the National Fire Protection Association, the United States Bureau of Standards, the National Aeronautic Space Administration, the National Institute of Occupational Safety and Health, equipment manufacturers and other interested persons presently doing research work. Problems of health must be taken in proper perspective through the services of the industrial hygienist.

The use of theories and the pragmatist must be evaluated or reconciled when considering that which is being determined as good or bad.

Coupled to these broad guide-lines will be local list conditions or work practices, which will lead to a tailored approach to accident and injury prevention.

Incidentally, I understand that the NFPA is presently forming or has formed a Committee, with Firefighter safety as its prime objective. It appears that qualified and interested persons from some of those organizations previously mentioned will get aboard the bandwagon in its initial formulation. Many of the private industry standards we now enforce would have had a different impact, had there been more serious impact by that sector prior to their absorption into OSHA. Certainly, it would have cut down the flack from those who wished they had closed the barn door.

Presently, there is research work being carried out by the National Aeronautic Administration (NASA) and the National Bureau of Standards to develop a more functional turn-out coat, and also light-weight breathing apparatus. The National Institute of Occupational Safety and Health, our brother agency, is working on gloves and helmets. The Boston Fire Department is working closely with the Harvard School of Public Health.

The National Bureau of Standards is considering a grant of \$100,000 to institute a more critical look into the causes of death and injury to firefighters. While on a national level, fire resistant, lighter and warmer clothing, face shields, etc. are being looked into, and some of the local work-day problems of the firefighter should be considered. The tiller man, as he leaves through the undersized door opening; the jump seat hazards of the steel-toed and steel-soled boots and problems of ladders becoming electrically charged or of fire station conditions or what to expect as they drive up to a fire scene might have to be considered.

There never will be a set of regulations or legislation adequate to prevent all accidents in the associated industries. Truly, no one is going to outlaw accidents, nor remove all potentials from the hazardous existence of the firefighter. The law does require changes, and without a doubt the changes will be accompanied by cost considerations, those opposing change of itself, and provincialism.

It is clear from actions to date that our regional States intend to be a full partner with OSHA in worker protection. Logically, it follows that effective accident prevention effort will assure loss time prevention and claims prevention.

Is there a real need for all of this activity?

In a tactical approach to reduce unnecessary occupational accidents, five industries were selected for special emphasis within the OSHA law. They were:

1. Meat packing, with a frequency of injury of 43.1.
2. Sheet metal and roofing, 43.3.
3. Long shoring or stevedoring, 69.

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4. Manufacturing of miscellaneous transportation equipment, 33.
5. Lumber and wood products, 42.

In 1969, the Firefighters' occupation was considered the most hazardous, from a frequency experience, with one exception.

In 1970, there was a slight drop. With company deaths alone, the firefighter wears an unwanted crown. The figures for 1972 are not in as yet. I need not tell you where the leading figure will come from.

As to the Firefighter, the law does require changes, and without a doubt, the changes will be accompanied by cost considerations.

What are the reactions to OSHA to date?

There are heated reactions.

OSHA is over-zealous, according to one Congressman, for he says: "Reports which I have had from my District indicate that you people are operating under this law in a high-handed, dictatorial manner which is reminiscent of the days of Mr. Hitler in Germany. If you people cannot eliminate some of the completely silly and assinine regulations which you have decided upon, there should be a mass re-appraisal of personnel in the Department of Labor. You are going to have a mass revolt and violations of the regulations which you people have put out unless you back-track and the Congress is already incensed at the manner in which you have begun to enforce this Act."

Here is another: "OSHA is under-zealous."

According to an AFL-CIO Executive Council statement:

"We have weighed the President's words against his deeds and found them wanting. The record is one of **foot-dragging, flabby enforcement and adulteration** of the special provisions of the Act setting forth specific rights and protections for employees."

Congressman Daniels of New Jersey, a strong proponent of more vigorous legislation, states:

"Now, the hopes of this Congress and their constituents have been undermined by the inept and lax administration of important parts of the Occupational Safety and Health Law. A spirit of protecting the lives and health of our workers is barely discernible in many of the Department of Labor's actions. As the Chairman of the Committee charge with any oversights of this Act, I feel that if the Department does not speedily correct its attitudes and actions in this matter, I will exercise full authority to bring about these changes."

From the private sector, the Fire Chief of the Getty Oil Company expressed his opinion thusly:

"OSHA," he told members of the NFPA's Industry Fire Protection Section, "so far has been most reasonable in that they are following recognized standards that have been adopted by the enlightened management for years.

"The loss of the industrial fire protection official has been lightened by the law because it can be used as **support** for property protecting the plant.

"There is some cost impact," he added, "but it has been found that OSHA isn't going to put industry out of business. The largest, most productive, most competitive businesses are literally untouched by the law, not because of **higness**, but because they have been in essential compliance for years.

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"Those businesses which have always ignored plant protection and safety do have a problem. They need to catch up to the law, and quickly. Those plants need expert advice and money to avoid being lost in the mass of standards that they didn't know existed."

As in all things, the true position is somewhere just between all of them.

In introducing an amendment to the Act, Senator Curtis of Nebraska said:

"I have been investigating the problems and their causes and have found that, contrary to the belief of some, the problems are not basically due to ill-advised administrative actions by the Secretary of Labor in carrying out the law. The problems are rooted in the basic law which Congress passed. It is, therefore, not a matter which the Secretary of Labor or the President can remedy; rather the problems to which I refer are the responsibility of Congress."

The stage, therefore, is set for further consideration of the Act by Congress. Numerous bills to amend the Williams-Steiger Act are in the hopper.

So far, I have told you about some opinions and the law and a sort of a wordy dislike for us. However, as sophisticated people, as we are supposedly in this great country, it is a shame that our good business or work practices did not, in more instances, encompass safety which, in effect, because of this lack, created the need for a new law.

I would hope that we do not think of it as a harsh law, but as a culmination of efforts by supervision, employees, business, labor and government, whether municipal, state or Federal, to reduce accidents and the resultant injuries, and thereby to achieve efficiency in operations within a safe environment.

Now, let us localize our thinking and take a look at what has taken place in New England since the OSHA baby was born. I realize that to this date, some may feel as though the child was conceived, but never arrived. Well, we are here, creeping and stumbling and we are past the walking stage.

The prognosis is that we are going to run!

There were a lot of pessimistic thoughts about this law originally. The General Duty Clause, which makes it incumbent on the employer to provide a safe work-place for the employee was likened to doomsday. This clause, within the New England States, will not be used as a catch-all for citing unsafe conditions not covered by a code, standard or regulation between April 27 and August 28, 1971. It was all that could be used and was effectively used in an extremely small number of instances.

We feel that we are all intelligent enough to realize that when a condition which may bring about serious injury or death is brought to the attention of an employer or supervisor, he is going to take the initiative to insure a corrective action.

Despite the original pessimists there has been only one citation for an imminent danger situation within the New England Region. There has been one that was willful. These have been more nation-wide.

We have had one employer who has received a serious, imminent danger, and willful citation. Serious violations automatically trigger a high financial penalty. In our Region, there have been 86 violations in this category. The accompanying financial penalty prior to adjustment is \$1,000.00.

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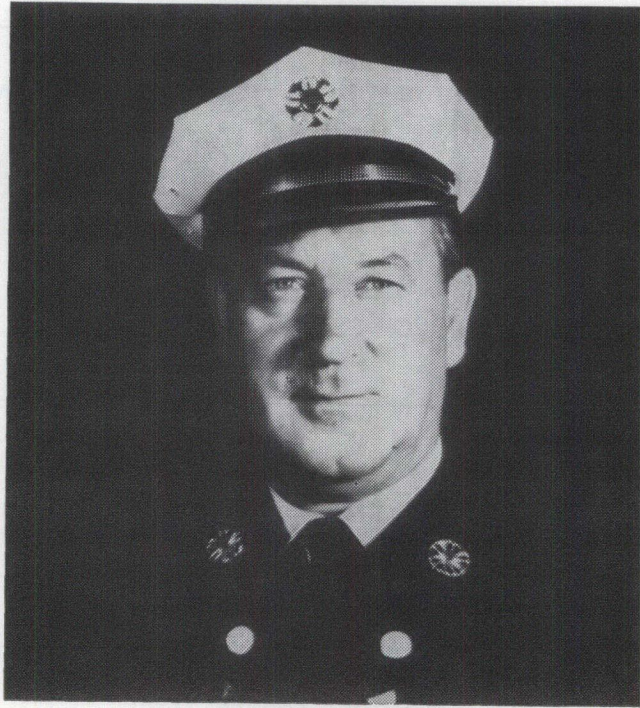
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The less serious or "other" type citations have been numbered 13,500 in New England since July of 1971. The main categories of these have fallen into housekeeping, means of egress, fire prevention, electrical and hazardous materials.

We have had one case in which we have had to convince a non-believer. This firm was cited for two violations. One carried no penalty, and the other, \$35.00. A follow-up inspection found that the conditions had not been abated. A per diem penalty was levied, and the firm sent a certified check for \$1,135.00. They are now convinced that it is not business as usual under OSHA.

We have investigated 330 complaints, and of these, some were found to be not justified. Surprisingly, a lot of complaints dealt with industrial health problems.

There have been about a dozen variances filed.

For the fiscal year ending June 30th, we completed 3,000 inspections, and they will increase.

In summary, we have issued 3,311 citations in New England. These are presently 180 citations which have been entered in the contest. The vast majority of these have been dropped for various reasons.

Regardless of individual motivation, the Act has succeeded in capturing the attention of employers and employees. From the beginning, we have constantly stressed the vital importance of "voluntary compliance" if this worthwhile program is to succeed. Voluntary efforts can and do work.

We in the Federal Government will continue to stress voluntary compliance. Employers and employees across the country are, in fact, engaged in broad, new, job protection programs. The President and Congress have set our course, and we are sailing in the direction of frequency-zero.

At a recent White House Conference entitled "The Industrial World Ahead," it was stated that by 1990, hopefully, we could look back on the 1972's toll of occupational injuries and illnesses as a thing of the past, in the same sense that we, today, can look back on polio and tuberculosis. We conquered those diseases. We put a man on the moon. Together, we can eradicate occupational hazards! Thank you very much! (Applause)

MODERATOR AUDLEY: Thank you very much for your interesting talk. Are there any questions from the floor that you wish to ask our speaker?

QUESTION from the Floor: I would like to know, in a municipal program, whom would you cite, in the Fire Department, for example? The governing body? The Fire Commissioner? Who would be cited and who would be penalized, and how would it be collected?

MR. DUWORS: There are quite a number of areas. First of all, two of the six plans in New England now call for a monetary penalty. As I understand it, the Governing Board will pay the penalty to the States.

Now, there is one other thing that I might say to you. They are having what they call a Red Tag Action, in which in any unsafe condition, they will Red Tag it, and it cannot be used in any way until it is corrected. In other words, there is a Stop action, right there.

The governing body is the one that is actually going to take the money out of the Treasury and send it to the State and be charged with the program.

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Then, if we went to a construction site, actually the citation goes to the construction site, but it would be the main office that would pay the penalty, not the Federal Government.

QUESTION from the Floor: What is the name of the Guidance Manual? Is that available in the Kennedy Building back in Boston?

MR. DUWORS: Yes.

QUESTION: What is it?

MR. DUWORS: It is the Compliance Manual. I would suggest that you hold off for two weeks because there is a new one that is due to be out. I think it is out there, at the Kennedy Building in Boston. If you send them a check for \$2.00, they will send it to you.

QUESTION: Do you have any literature on it?

MR. DUWORS: Yes, I do have some.

PROGRAM CHAIRMAN LEDDY: Are there any further questions? If not, here is one announcement that the Sergeant-at-Arms has for us. Don't forget to get your ballots in the ballot box for the Conference site.

The next speaking part of our Program will be conducted by a Moderator who is not listed on the program, but we all know him as a good member of this New England Association of Fire Chiefs Conference. Chief John Devine will be the Moderator for the balance of the program this afternoon. (Applause)

MODERATOR JOHN DEVINE of Manchester, New Hampshire: Chief Earl D. Wadsworth of Colebrook, New Hampshire, who was to have moderated this part of the program, is ill and cannot be here with us, so I shall do my best to act in his behalf.

Our next speaker is Thomas E. Duff, City Manager of Barre, Vermont. He is a graduate of Middlebury College, Syracuse University Maxwell School of Citizenship and Public Affairs.

He served as City Manager in four communities, Middlebury, Vermont; Claremont, New Hampshire; Andover, Massachusetts and presently he is in Barre, Vermont.

He is a Past President of the Vermont League of Cities and Towns, a Personnel Board Member of the State of Vermont, and a Member of the State of Vermont Governor's Economic Advisory Committee.

The title of his address this afternoon will be "The Expanding Role of the Fire Protection Service," and it is my pleasure to introduce to you at this time, Mr. Thomas E. Duff, City Manager of Barre, Vermont.

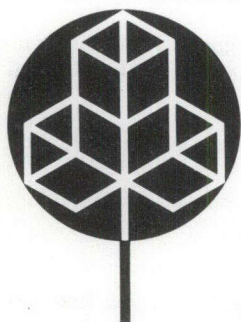
THE EXPANDING ROLE OF THE FIRE PROTECTION SERVICE

Thomas E. Duff

City Manager, Barre, Vermont

Thank you, Chief Devine. First, I should like to recognize our own Fire Chief Vice-President, Chief Albert B. Galfetti of Barre, Vermont.

Officers, Members and Guests of the New England Association of Fire Chiefs, Inc. The title of this address, "The Expanding Role of the Fire Protection Service" might



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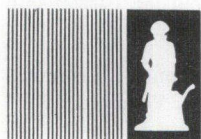
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more appropriately be titled "The Increasing Need to Expand the Role of our Fire Departments Today." I say this, because after doing a little reasearch on the topic, it became quite evident that the expanding role of the Fire Department Service is a demand brought about by public attitude toward the Fire Department's role of stand-by service, rather than positive action producing services.

True, everyone loves a fireman at a fire. Everyone stands by in amazement as Fire Departments tear into a burning building with their ventilation equipment, sometimes carrying out people who would have been the victims of the fire. Everyone loves a fireman in 10 degrees and below temperatures, holding a nozzle, spraying water on a burning building, while icicles form on his hat and coat, in an icy mist. But, these scenes are long forgotten after the action is over because a cross examination of fire alarm responses indicates that at best these scenes are few and far between.

So that the public observations of fire fighting are few and far between, and the net result is that the public is demanding more productivity from the fireman's lot. To put it another way, what the tax-paying public does see and remember is the Fire Department personnel sitting on a bench in front of the Fire Station on a warm summer evening, waiting for the fire alarm to sound.

Now, why do we see the public acting in this way, looking for more service performance?

In our community at the moment, our City Council is entertaining the thought of putting three ambulance units into the Fire Department to be manned by Fire Personnel, on a twenty-four hour basis. And this is mainly on the basis of: "Let them 'the firemen' do more!"

It seems to me that the pressure for more services is really a financial pressure!

To get a better perspective of this feeling on the part of the public, let us look at the crisis confronting the so-called center cities, large and small.

We must all be aware of the pressure that is on today to stop the inflation that is sweeping the country, and we must also be aware of the demands that are being made to convert government personnel into the role of more productivity. This is true of all municipal services at all levels of government, but it is becoming more prevalent in the area of Public Safety and in this area, we find the Municipal Fire Department playing a key role.

We all know that government exists to perform those services that people cannot best produce for themselves. At first, these services were minimum, such as police, fire, public works, water and sewer, but these have greatly expanded to recreation, parks, libraries, cemeteries, airports, museums, public housing, welfare, refuse collection, historical sites, and so forth.

So, the dilemma of our cities today is really the result of increased demands for local government services, resulting in an escalating budget, and a tax base that each year becomes less and less adequate to supply the tax dollars to get the job done.

The center cities, as we know them today, present a population that is slowly declining, while the municipal budget for public services is growing at an unprecedented rate.

In our own little community that has maintained a constant population for the past fifty years, there has started a decline with people moving to the outlying areas (10,500, now 10,200), and in the meantime our City Budget has increased on a yearly

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 7. To aid in the formation of Volunteer Fire Departments and to give the Fire Chiefs of such organizations all the help possible.
 8. To adopt such resolutions and go on public record in respect to all measures of safety which will advance the fire service.
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basis of 10 per cent each year. Our Fire Department Budget ten years ago (1963) required \$89,475, and it has increased to \$190,500 in 1973.

Well, what does this dilemma have to do with Fire Department Services?

Fire Department Services, because of the nature of their standby role in terms of manpower service, is in a critical position as far as the taxpaying public is concerned, to get on with the job of re-inventorying its assignments in terms of what auxiliary services might appropriately be incorporated into the full-time professional firefighters' mission, without diminishing the effectiveness of the Fire Prevention Services or the effectiveness of response to alarms to fight fires.

If we examine the assignments of a cross section of Fire Departments, we will note that there are some positive positions structured into the fireman's role, and some have been there for a long time, but in some communities, new services are only now being instituted. Fire Department ambulance service is one; building inspections is another, and then there is Civil Defense work. But, in general, the mission of the Fire Department has been and is limited to Fire Prevention, and fire response similar to the mission first instituted in Pennsylvania, when Benjamin Franklin first conceived the idea of a volunteer force to help put out fires.

This is not meant to be a fault with the Fire Service; rather it is a commentary on our governmental system for the lack of innovation in a service that should and must have the potential for greater capacity in the true sense of effective public service, with the uppermost protection for its No. 1 Mission, Fire Service, Fire Fighting, and the Preservation of life and property.

However, if the rate of the Fire Service has not changed drastically, what are the signs and the origins that indicate changes are forthcoming or will be made?

Recent trends indicate a future that will require and bring about an expanding role in the Fire Department Service, and it indicates a role that will make our Fire Departments more functional, more responsive to public improvements, and this response will bring about more dedication through professional programs, improved educational programs and thereby improved compensation for Fire Department personnel.

In summary, it will be a Fire Service with more productivity, better pay, more pride, and more public appreciation. And this, it seems to me, is the goal, if we are to reach the satisfaction of a job well done.

Of all governmental services, the one that has progressed the least is the Fire Department. The point here is that fire fighting methods remain much the same as they have always been, and since 85 to 95 per cent of the cost of fire fighting is personnel, the only way cities are going to cut the cost of this service drastically is to develop means of delivering water to a fire with less manpower. And, I'm not too sure that can be done.

Another alternative is to develop more productivity from the existing manpower when it is not fighting a fire thereby decreasing the cost of fire fighting. And, it is this later avenue of approach that the public is concerned with. "Let them, 'The Firemen' do more."

Now, how do we go about decreasing Fire Fighting Costs? One way is productivity: More work for a day's pay. The demand being made by the public is productivity, as I have just said, more work for a day's pay. And I submit to you that this demand is

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being made by the public in the light of past reforms that have improved the lot of the public service.

In 1962, Congress enacted the Federal Pay Reform Act, in which the principle of comparability with like jobs in the private sector was accepted as the proper basis for civil service salaries (Public Sector). This resulted in a revolution in salaries in Federal, State and local pay scales which increased some 70 per cent in less than ten years. So that today the comparison, Private Sector and Public Sector are somewhat in balance.

It used to be a myth that public service should not be an equal competitor with private business for the time and talent of the best people that our society produces. Lower wages in the public sector used to dictate this imbalance in competition for personnel; but, this is no longer true today.

Public employees have a right to comparable wages, but the taxpayer has an equal right to comparable productivity.

Let us take a look at an example of how this might affect your business as the leaders of Fire Fighting Departments. A year or so ago, in the South Bronx of New York, three fire engines and two ladder trucks responded to their fifth false alarm of the day, and the Battalion Chief muttered:

"There must be a better way."

Yes, there must be a better way than to rush out all of that apparatus and men, every time a couple of kids are looking for excitement.

It was shortly after this statement that the uniformed fire fighters sat down to bargain with city officials in New York City. The city officials noted that pay increases and productivity would be linked together with the expiration of the union contract.

The immediate reaction to this announcement, that pay increases would be linked to job productivity, was a brief job action by the City's firemen, since they were unable to work out an agreement with the city. Seventeen days later, however, the city introduced a program of increased pay for more productivity.

The proposals made by the city grew out of an analysis of serious city problems in fighting fires, and actually stemmed from observance of practices that had been maintained by the Fire Departments without and consideration of change or efforts to improve conditions.

What the city proposed for the Fire Department was to provide more manpower at critical periods. Thus, it wanted more firemen on duty for fire protection during the peak hours between 3:00 P.M. and midnight in those areas where fire rates were highest. In its negotiations, the city administration was not able to establish a concurrent platoon system it has requested, but it did work out with the Uniformed Fire Fighters a system of "Adaptive Response." And here is how they arrived at the position of how "Adaptive Response" works.

The fire fighting problem in New York had become increasingly difficult and demanding, with 300,000 alarms anticipated in the years 1972-1973, of which, on the basis of experience, 120,000 were expected to be false alarms, plus many minor fires and incidents.

The traditional response to all fires in the city was with three engines and two ladder trucks, a procedure that clearly utilized an excess of equipment and manpower for

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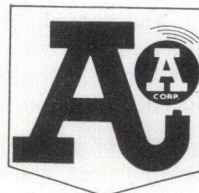
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minor incidents and for abortive false alarms. Under the adaptive response, the initial equipment going to a fire, depending on the area, is now reduced to two engines and two trucks or perhaps less. As a result of improved radio communications, a battalion chief arriving on the scene of a fire can quickly size up the situation and call in more equipment, if needed.

Despite the potential for greater flexibility and more efficient operation through the use of "adaptive response" there was still union opposition at first to such steps, because of resistance to change, concern about the possibility of increased work-loads, and worry about possible reductions in force.

This illustration of New York City's experience with a change in procedures should, perhaps, make us realize that constructive changes can be made that will be beneficial to all concerned. So, this is how New York City affected one change in their Fire Department system.

So that if we accept the theory that payment for personnel is the leading cause of increased fire fighting budgets, and if the public demand is for more productivity for the dollar paid, then why not review the status of our Fire Departments and perhaps make some judgments on what might be done to alleviate this public concern?

Now, I know that one of the big obstacles to this type of inventory work is the lack of research personnel, and in some instances, the lack of cooperation on the part of our city officials; however, some steps are being made in the direction of evaluating services, and perhaps we will turn the corner on this Fire Department need.

It is with this thought in mind that I would like to discuss a potential aspect of Fire Service Response that is intended to alleviate costs at the local level, through collective response to extreme emergency situations.

This type of emergency response has been practiced in the Metropolitan Washington, D. C. area, among other places, and labeled Multi-Jurisdiction Fire Disaster Planning. No doubt many of you have worked on similar planning.

In the Metropolitan Washington Council of Governments which includes the areas of Maryland, Virginia and Washington, D. C., planning has been developed on a multi-jurisdiction basis. The three jurisdictions have experienced the need for cooperative effort as a result of the major civil disorders in Washington, D. C. that took place in April of 1968. The eight jurisdictions within the above three areas have organized their individual resources and developed plans to handle emergencies. Under the Plan, the complete inventory of each jurisdiction is tabulated at a central communication headquarters, and experiments in Disaster Operations have been conducted in Seminars. The Seminars have been used to attempt to determine how effective the pooling of all resources could be effectively handled and dispatched for a major metropolitan disaster.

Through the use of simulated exercises, some observations have been made in:

It is difficult to know what status and set-up the other jurisdiction had. Was it a lack of communications and knowledge of team-work?

2. Was it a tendency on the part of department heads to withhold some equipment for other emergencies?

3. Was it no regional balance in the commitment of resources, to conserve for the home town?

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In all of this multi-jurisdictional planning, other obstacles surfaced in the Seminar Sessions, and there were other concerns on this type of operation, and here are some of the observations.

Traditionally, fire protection has been considered as a local community responsibility. This is true throughout the United States today, although some effort has been extended to utilize mutual aid pacts and regional cooperation. However, very little has been done to establish a multi-jurisdictional approach to Fire Fighting and Disaster Emergencies. Perhaps this is so because fire departments are seldom, if ever, exposed to large major disasters. However, the civil disorders hashed a major impact on the historical concept of independence and self-sufficiency normally held by local fire departments. It emphasized the need, yes, it emphasized the need for increased multi-jurisdictional cooperative effort.

Fire officials, not only in small communities like Bangor, Claremont, Westerly, etc., but even in the large cities are more aware that emergency situations can develop that are beyond the capability of a single jurisdiction, regardless of how large that jurisdiction and its fire department may be.

So this study found that the traditional concept that fire protection is the responsibility of the local governmental unit has resulted in other impediments and artificial barriers to setting up a multi-jurisdictional cooperative effort or regional approach as we are studying it today in the New England area.

Among those obstacles and barriers are these, and I am sure there are many others:

1. The ever present problem of legal requirements and restrictions on combining units of government to organize mutual pacts and agreements.
2. There is the ever-present concern of the local fire official or of the political leader that a "super-government" is being imposed and the individual community will lose its identity.
3. Fire officials may also fear their authority will be fragmented through establishment of a multi-jurisdictional agreement.

In spite of the many obstacles standing in the way of the Regional Concept of Fire Fighting, Regional Planning, for some aspects of Fire Protection, is beginning to receive more consideration.

There can be little doubt, but that there are many advantages to the regional concept of Fire Service. While there are many inherent problems, they are not insurmountable.

The most important task for the Fire Service is to define the scope of regional planning and analyze how this type of planning can be useful in their particular situation.

This analysis must include an identification of what cooperative planning is essential between fire departments. This evaluation should be oriented toward determining which problems can be solved more effectively and economically on a regional basis, rather than within the resources of the local community. Fundamental to this question is determining under what circumstances it is necessary for communities to work together during large scale disasters.

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Increased cooperative effort by fire departments can be ordained by:

1. Establishing a formalized agreement.
2. A strengthened Role for the Public Safety Staff.
3. Increased efforts on the part of the Fire Chiefs within regional areas to meet and work for a common goal on major disasters.

Collective Response is, no doubt, a natural approach to increasing public safety, and it should have a direct effect on the financial plight of our large metropolitan areas that could not staff, equip or handle a major disaster alone.

I should like to turn, now, to other innovative approaches. The one used in Scottsdale, Arizona is that of breaking with the common practice of manning shifts with equal personnel, around the clock. This is similar to the request of the New York City officials, in their negotiations. But, also, in this same community, the so-called Fire Wranglers are employed. In this use of Fire Wranglers, the men employed in the City (Public Works and Parks) also double in brass as firemen. They are not volunteers in the traditional concept of the word. They are trained specialists in Fire Protection who drop their work at the piercing note of a radio signal and report to the scene of a fire as regular firemen would.

Instead of firemen who do other chores (or nothing at all) in their spare time, the Wranglers are performers of other work who become firemen when the "beeper" goes off. The "beeper" is a belt carryable paging device which can be activated from headquarters station to deliver a tone signal and, following it, a message telling this specialist in fire protection where to report for duty.

Each man is truly a specialist in live fire fighting. Getting to the fire or to the drill on time and performing effectively is just as much part of his work as getting to the public works shop or his other place of employment on time and performing effectively there.

The Wrangler type of service is a method of intergradation of departments quite different from the usual Police-Fire Concept. Here, instead, we integrate an emergency with a non-emergency service and cross-train to provide efficiency and depth of service.

This latter service has given the Public Works Department personnel a feeling of accomplishment on the part of the members serving as Wranglers, men who only have the satisfaction of patching streets now find a great deal of pride in performing a community service that not only brings them additional remuneration, but also a feeling of accomplishment and status in the community.

What does this do for the Fire Department?

To the Fire Department, it brings a needed resource of manpower when needed, and with dispatch; trained to do the job.

There are many other approaches being made to combat the so-called standby time of our Fire Departments, and it may suffice here to list a few.

In Port Huron, Michigan, the Fire Chief has been assigned duties in addition to his regular assignment as head of the Fire Department. These new responsibilities include the direction of the City Parking System, and firemen in his department have also been assigned the responsibility for the repair of parking meters. Willingness to take on these new assignments has been stimulated by a financial incentive system.

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In a community of 20,000, the Fire Department has developed what it calls the "Snail"; this is a minitank electrically powered and remotely controlled, which will allow one man to do the work of at least three and possibly more men.

The Snail is a low profile, electrically powered, tread-driven, remotely controlled machine which can drag 400-feet of 2½" charged hose into the heat of a fire. It can climb curbs and industrial-type stairs, can turn in either direction, and move forward or backward at two speeds. A 2½" deck gun is mounted on the top of the Snail, which is also remotely controlled and can be operated in a complete pattern of nozzle play from fog to straight stream. The implications of the Snail are tremendous. One man skilled in operation of this machine does the work of many. This man is a skilled technician fighting a fire with technology and not with life-endangering physical effort.

In other cities, firemen are being assigned a number of non-free-related tasks, including the previously mentioned Ambulance Service, as well as building inspection work, dog and bicycle registration, and even city printing operations.

Although there is considerable opposition to this method of using standby time, it develops, nevertheless, in the minds of the public an image that the Fire Department Personnel want to do more for their community and are willing to take on the small tasks as well as the big job of Fire Fighting and Fire Prevention.

Probably one of the outstanding tasks taken on by the Fire Service is the Christmas Program, of repairing toys for the needy. This, I submit, reaches the heart of the public once a year. But, there are many other months during the year when worthwhile public service could be performed by our Fire Department Personnel. Some of these tasks have already been mentioned, and I am sure that by re-inventorying our position, we could develop a greater capacity for service to our respective communities, with all parties being the beneficiary.

Perhaps one of the reasons our Fire Service has not changed too drastically lies in the fact that many of the auxiliary services that could have been developed for Fire Personnel have been put aside by organized opposition. This may or may not be in the best interest of all concerned.

However, until there is a clearly developed line of professional Fire Service status developed through higher education and experience, the public demand will remain, "Let them — the Firemen — do more!"

I recall reading an article that stated:

"The usual company training that is held in most Fire Departments covers only subjects which have been passed down over the years, and these fail to encourage the men to accept new methods. This can no longer be considered adequate."

And I have quoted what a fireman said!

Programs of Fire Science Technology have now been established throughout the country and until the trend is developed to raise the standards of the Fire Service through training, planning and innovative changes for improvement, the compensation will continue to lag with the pressure from the public for more auxiliary services.

In summary, we all recognize that the Fire Service is a very valued community public safety function. We recognize that it is a risk assignment, and an awe-inspiring job at the height of a fire or rescue mission. Fire fighting and Fire Prevention really

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lend themselves to a professional capacity that can require professional pay at all levels. I submit that they have not reached their full potential.

With the Safe Streets Act assisting our Police Departments to achieve greater expertise in Police Protection, the time is right for our Fire Departments to likewise benefit from a similar program, to achieve the maximum effectiveness in Fire Fighting and Fire Prevention.

To do this, we must turn to you, the Chiefs of our New England Fire Departments as the men who can bring this professional status about.

It is true that you will need the backing of our public officials, but the challenge is there, and I say to you gentlemen, the Chiefs of the New England Fire Departments, **THE CHALLENGE IS YOURS!**

Thank you!

MODERATOR DEVINE: Thank you, Thomas. Now, I hope that there will be some questions for this fine young fellow. Does anybody have any questions?

Hearing none, I will turn the meeting back to Chief Audley.

MODERATOR AUDLEY: There are just a couple of announcements that I have for you. The Massachusetts Chiefs will meet on Tuesday, June 26th, immediately following the morning program, on a subject that will be of interest to all.

I now turn the meeting back to President Hayes.

PRESIDENT HAYES: Before you leave, I just want to say that I hope what we have heard here today will be brought back to your own communities so that we may all profit greatly.

This will conclude the Monday Afternoon Program.

Tomorrow morning at 9:30, we have another very interesting program planned for you. Please be prompt.

(Adjournment at 4:20 o'clock P.M. on June 25, 1973.)

TUESDAY MORNING SESSION — JUNE 26, 1973

The Tuesday Morning Session convened in the Regency Ballroom of the Mount Washington Hotel, Bretton Woods, New Hampshire, on June 26, 1973, at 9:40 o'clock, with Program Chairman V. Paul Leddy presiding.

PROGRAM CHAIRMAN LEDDY: The meeting will please come to order. I know that George is out there, sounding the word off that we are ready to start.

I want to introduce your Moderator for the first part of the program, Chief Henry Mongeau of the Lonsdale Fire District, Lincoln, Rhode Island. Henry has had twenty-eight years with his Department, nineteen as Chief, and he is going to introduce the first speaker this morning.

MODERATOR HENRY MONGEAU: Thank you, Chief. I have attended these Conferences for quite a few years, and it seems to me that every year the program is better than it was the year before. This year is no exception.

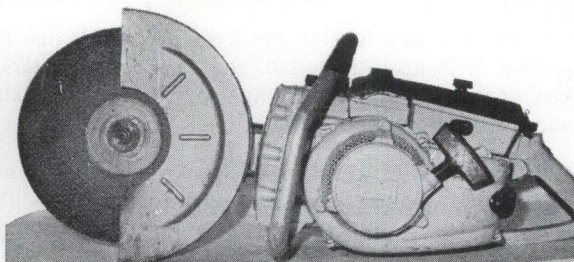
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We are fortunate this morning to have a speaker with the background that Dr. Dressler has had, to talk to us about smoke inhalation.

Dr. Donald P. Dressler was born on October 3, 1929 in Boston, Massachusetts. He was graduated from Tufts University in 1949, with a B.S. in Biochemistry. Subsequently, he attended Tufts University School of Medicine, graduating in 1953.

Dr. Dressler did his internship in Surgery at the Boston City Hospital, and his residency at the University of Kansas Medical Center. He was Assistant Professor of Surgery at Tufts University from 1960 to 1967, conducting courses in Surgery and Disaster and Emergency Medical Care. Dr. Dressler was a consultant to the State of Massachusetts, Office of Civil Defense and Emergency Planning. He is currently a member of the Board of Directors of the Greater Boston Heart Association and of its Cardio-Pulmonary Resuscitation Committee.

Dr. Dressler is Board Certified in Surgery, and he is on the Staff of the Mt. Auburn, Boston City and Cambridge Hospitals. Currently, he is Director of Research at Youville and Cambridge Hospitals, Cambridge, Massachusetts; Assistant Professor of Clinical Surgery at Harvard Medical School; a Colonel in the United States Air Force Reserve; and Senior Flight Surgeon-Commander, 901st TAC Dispensary, L. G. Hanscom Field, Bedford, Massachusetts. He is the author of over thirty articles, primarily dealing with burns, smoke inhalation and infection.

I am pleased to present Dr. Donald P. Dressler to you at this time.

The paper delivered by Dr. Donald P. Dressler, Harvard Medical School, "Modern Fibres Can Kill" has been deleted from this publication. Dr. Dressler has made an agreement with a medical journal to have his presentation printed in their publication before public release.

We will include Dr. Dressler's paper in next years Red Book.

PROGRAM CHAIRMAN LEDDY: The second portion of the program this morning is going to be moderated by a young, new Chief in the Fire Service, Philip McGouldrick of South Portland, Maine. Phil has had ten years with the Department and has been Chief for a year. He is also a certified Training Instructor for the State of Maine in Fire Technology.

At this time, I want to present to you Chief Phil McGouldrick of South Portland, Maine.

MODERATOR PHILIP MCGOULDRIK: Good Morning, Ladies and Gentlemen, Brother Fire Chiefs, Comedians and future musicians and comedians!

After watching last night's entertainment, I'm sure that some of you missed your calling.

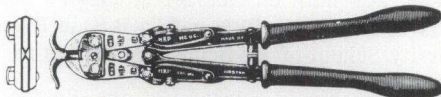
Mr. Bruce Teele is going to speak to you this morning about a problem that I'm sure most of you, like myself, never thought we'd ever be concerned with, and now, overnight, they're here — "High Rise Building Fires."

Bruce W. Teele, Fire Service Specialist, who joined the staff of the NFPA in June of 1969, works for the Public Fire Protection Division.

He was graduated from Rowan Technical Institute, Salisbury, North Carolina, in May of 1969, with a degree in Fire Protection Engineering Technology.

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Mr. Teele is the Executive Secretary of NFPA's Fire Service Section. He also serves as Secretary to the following committees:

Suburban and Rural Fire Protection and Prevention, Suburban and Rural Fire Departments, Fire Hose, Fire Service Publications Editorial Board. He is Staff Liaison to the following committees: Fire Service Training Committee, Fire Fighter Professional Qualifications Committee, Fire Service Instruction, Professional Qualifications Committee, Fire Service Occupational Safety and Health Committee.

Brother Fire Chiefs, I give you Bruce W. Teele for his address on "High Rise Building Fires." Bruce! (Applause)

HIGH RISE BUILDING FIRES

Bruce W. Teele

Fire Service Division

National Fire Protection Association

Thank you, Mr. Moderator. One of the most discussed subjects in the fire protection business these days is the high-rise building fire problem. Many of us flinched at the pictures of people leaping to their deaths in attempts to escape the flames on the 15th story of the Rault Center in New Orleans on November 29, 1972. This tragedy was essentially repeated the following day at the fatal high-rise fire at the Baptist Towers, Housing for the Elderly, in Atlanta. Nine persons died on the floor of the fire origin.

The initial impact of these two severe losses has, perhaps, receded, but to those of us concerned with life safety from fire, the problems in high-rise buildings must be faced and solved.

My purpose today is to provide an overview of the high-rise fire problem.

To establish a base for our discussion, it is necessary to define the term "High-Rise." (Showing slide) The one most generally accepted is: "A High-Rise Building is one in which emergency evacuation is not practical, and in which fires must be fought internally because of height."

The usual characteristics of such a building are: It is beyond the reach of fire department aerial equipment; it poses a potential for significant stack effect; it requires unreasonable evacuation time.

Historically, we must realize that fires, in high-rise structures, are not new. Severe loss of life fires have occurred in tall structures over the years.

On March 25, 1911, a fire started on the 8th floor of a 10-story New York City loft building, occupied by the Triangle Waist Company (showing slide). The fire quickly involved the entire 8th story, and spread out the windows (showing slide), and in through the 9th story windows. Panic ensued and 145 people died in the building.

Two fires, of very similar characteristics, occurred in 1946. On June 5th, 61 people were killed when a fire started in the second floor Cocktail Lounge (showing slide), the 22-story LaSalle Hotel in Chicago. Smoke and heat quickly traveled up open stairways to trap people in their rooms (showing slide), as flames spread on combustible interior finish.

Six months later, a fire started in the third-story corridor of the Winecoff Hotel in Atlanta, Georgia, and quickly filled the only stairway to the street with heat and smoke. There were 119 people who died in this 15-story fire resistive building.

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The 1950's saw some high-rise building fires, but none with significant loss of life.

On December 8, 1961, another large loss of life occurred when 16 people were killed in a fire at the Hartford Hospital (showing slide). Fire originating in a trash chute caused the door of that chute at the 9th story, to blow open and the combustible ceiling tile to quickly become ignited (showing slide). Fire Department ladders would only reach the 8th story, and all fatalities occurred on the 9th story.

February 7, 1967 saw the first major loss of life fire in a restaurant, located at or near the top of a modern high-rise building. Dale's Penthouse Restaurant was located on top of a 10-story apartment building in Montgomery, Alabama. A fire, originating in the Coat Room, caused little concern among the patrons until it suddenly ignited the combustible ceiling, and started to sweep into the Dining Room (showing slide). By that time, the single stairway from the Penthouse had been cut off; 25 persons were trapped and killed in the fire area.

There were two fires in similar type facilities in 1972. Fortunately, both of these fires occurred during times when the restaurant facilities were unoccupied, and there was no loss of life.

The first fire occurred on January 7th in Indianapolis, Indiana, when an arsonist started a fire in the Supper Club and Restaurant, located in the top story of a 20-story hotel (showing slide). The evacuation alarm did not work, and guests had to be called individually by the hotel operator. Guests used elevators to evacuate the building; and this greatly hampered the efforts of fire fighters to reach the fire floor. This fire was confined to the 20th story.

The other fire occurred on the 96th story of the 100-story John Hancock Tower in Chicago (showing slide). This fire was also of incendiary origin, and it had already broken out windows on the 96th story when fire fighters arrived.

Pre-planning with the building's management paid off, as elevators were waiting for fire fighters, and no time was lost in reaching the fire floor. Fire did extend into the story above, as shown above, as windows broke on the 97th floor, allowing flames to re-enter the building (showing slide). Fire damage was limited to a Cocktail Lounge area in the 96th story, and some combustible materials immediately inside the windows of a television transmitting studio located on the 97th story.

There have been several major fires in buildings, either during their final phase of construction or immediately after they were occupied. Three such fires include the Gas Light Towers fire in Atlanta, Georgia; one New York Plaza fire, in New York City; and the 919 Third Avenue Office Building fire, also in New York City.

The Gas Light Towers Fire occurred on December 5, 1968 (showing slide), in the 20th story of a 26-story office building. Workmen were installing a wood parquet floor in two conference rooms and a reception area, using a flammable mastic in an area occupied as a suite of law offices. Vapors from the mastic were ignited, and the ensuing fire killed a receptionist for a law firm and three workmen. Two died in the work area, and two died when they jumped from the 20th story to escape the flames. The fire was confined to a small section of the suite of origin.

The fire at One New York Plaza occurred on August 5, 1970, just five days before the floor was to be occupied. The fire originated on the 33rd floor (showing slide) and burned on combustible cable insulation, foamed plastics used as building insulation, and in furniture, to completely involve the 33rd story.

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Spreading through floor openings for electrical, telephone, air-conditioning, the fire advanced through much of the 34th story, and in one area into the 35th story. Structural damage from this fire was severe as the asbestos sprayed onto the steel for insulation had been rubbed off, or failed to adhere properly in many areas, with a result that some of the steel deflected and warped.

In some areas, the connecting bolts sheered off or failed, allowing the beam to rest on the flange of the girders.

Two building guards were trapped and killed when the elevator they were using to reach upper stories stopped on the fire floor, and the doors opened and remained open. A third man in the same car survived for almost two hours before he was rescued.

The fire at 919 Third Avenue, the Tishman Building, New York City, was somewhat different. It started on the 5th story of this 47-story building, and was extinguished by a combination interior and exterior attack. Three construction workers died when the elevator they were riding in stopped at the 5th floor. The men were met by a blast of heat and smoke, when the doors opened. The fire started when sparks from a cutting torch ignited carpet samples in a small office area being used for storage. (Showing slide)

The fire spread throughout the occupancy, but was basically confined to the 7,500 square feet of office and display area being used by a carpet company.

Occupants on upper floors were subjected to severe smoke conditions, and those who attempted to use the central stair tower found the smoke unbearable at about the 8th floor level. The stairwell doors were open at the 5th floor to allow fire fighters to use standpipe lines; the elevator shafts and the supply air ducts all allowed smoke movement through the lower twenty stories of the building.

A fire in the 11-story Pioneer Hotel (showing slide) in Tucson, Arizona on December 21, 1970, again pointed out the problems associated with open stairways. Two fires were set in the 4th story corridor, and spread on the floor carpeting, and the lower 22-inches of the walls. Smoke and heated gases quickly filled the two open stairways (showing slide), and the upper story corridors.

Combustible corridor finish allowed the fire to follow. There were 17 people who died of carbon monoxide poisoning, 7 from burns, and 4 as a result of falls. There were 38 other occupants who received injuries that required medical attention.

Even when enclosed stairways are provided, it is sometimes impossible to get people to use them. A fire at the Howard Johnson's Motel in New Orleans on June 23, 1971, killed 6 people. Five of the six would have been perfectly safe, had they chosen to use enclosed stairways near the rooms they were staying in on the 15th floor. Instead, they chose to use the elevator to evacuate the building (showing slide). The fire was burning in the 12th story, and as the elevator passed that story, it stopped, and the doors remained open. The six people in the car attempted to reach a stairway, but five of them died before they could reach safety. The sixth person in the car was revived by fire fighters. The sixth fatality was a building guard who had gone to the room of fire origin, and forced the door open. He apparently died when flames from that room swept into the corridor.

Two significant foreign high-rise building losses occurred in late 1971 and early 1972. The first one, at the 21-story Tae Yon Kak Hotel in Seoul, Korea, on Christmas Day, 1971, killed 163 people and injured 60 others. Fire, involving a sudden release of LP Gas, rapidly developed in a second story coffee shop, and spread throughout the hotel lobby

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in the same story, cutting off the means of escape from the single, open hotel stairway. This stairway and other vertical shafts communicated toxic gases, heat and smoke throughout the building (showing slide).

Fire, spreading up vertical ducts, traveled horizontally above the combustible suspended ceiling. People were trapped in their rooms, and many chose to jump, rather than await almost certain death from the advancing fire (showing slide). There were 38 fatalities from the injuries sustained in jumping.

On February 24, 1972, 16 people were killed and 375 others were injured when a fire swept the 31-story Andraus Building in Sao Paulo, Brazil. The fire originated in an outside storage area on the 4th story level for a department store, and quickly spread into the building (showing slide), through open windows at the 4th and 5th story level. The advancing fire spread up an open stairway to the 6th and 7th stories, and quickly involved all four stories. Stories above the 7th were occupied as office areas. Pushed by a 17-mile an hour wind, the fire broke windows and flames boiled from the other side of the building and joined together to form a flame front that exposed four stories above the department store.

As combustible ceiling tile and wood partitions were ignited in the upper stories, the flame front grew in height to the point where it was over 130-feet wide, and 330-feet high when fire fighters arrived.

Early in the fire, the single enclosed stairway became untenable at the 5th floor level, and people above made their way to the roof. There were 350 persons who were rescued from the roof using helicopters, while another 100 were rescued over a ladder bridge at the 15th story level. Approximately 50 persons on the roof survived the fire, and were later led down the interior stairway.

In opening, I mentioned the Rault Center Fire. This fire started in an unoccupied meeting room on the 15th story where it developed a good headway. The fire fed on 1-inch by 12-inch wood boards that were used as an interior finish material on three walls and the ceiling. The fourth wall was essentially glass. When the exterior windows broke, flashover occurred and apparently caused a resulting pressure that blew open the corridor doors. Burning fire gases from the room of origin spread in the corridor, trapping five (5) women in a beauty salon about 25-feet away. As smoke began to build up, in the beauty salon they broke out a window.

Arriving fire fighters had trouble getting into the 15th story, because of the heat and smoke. They did find three (3) persons in an elevator on the 15th story. Two of these people were dead. The five women in the beauty salon jumped to the roof of an adjacent 8-story building before they could be rescued. Four of these women died. Fire extended externally to the 16th story and to a penthouse above. A stairwell door at the 15th story level that failed to close completely after it was opened prevented eight (8) people from using the stairway. These eight (8) were later lifted from the roof by helicopter.

The following day, a fire occurred at the 11-story Baptist Towers Home for Senior Citizens in Atlanta, Georgia (showing slide), killing 9 residents and a guard; 30 persons were hospitalized, including one fire fighter who suffered a heart attack.

This facility, classified as a residential occupancy, provided housing for the elderly. Occupants cared for themselves in 300 apartment units provided with cooking, dining, living and sleeping areas.

Prior to 2:00 A.M., an elderly woman resident on the 7th floor discovered a fire in her apartment. She did not activate the fire evacuation system; nor did she notify the

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Fire Department. The woman left her apartment, leaving the door open, and later her body was found in the corridor (showing slide).

The fire entered the corridor through the open door, and exposed 29 other 7th floor apartments to severe fire conditions. Five (5) victims were found in apartments on the fire floor, three (3) victims were found in the corridor and a building guard perished in an elevator at the fire floor.

Smoke spread to five other floors through the elevator shaft (showing slide), and one resident from the 10th floor died after the fire as a result of smoke inhalation. Fire fighters evacuated residents from the top six floors and prevented additional casualties.

Of course, there have been numerous other fires in high-rise buildings, some of which have made headlines or received considerable publicity; others have not.

Likewise, there were many significant factors in the fires I mentioned that I did not have time to discuss in this over-view of fire experience in high-rise buildings.

In reviewing fires in high-rise buildings, the same problems keep surfacing. Some of the key factors include:

1. Elevators are **not** designed to be used as exists from a building under fire conditions. Many times, people have become trapped and died when elevators stopped at the fire floor and the doors opened. Such use also hampers fire fighters attempting to reach the fire floor.

2. Windows in high-rise buildings are often sealed to facilitate air-conditioning. This makes ventilation of the fire extremely difficult as fire fighters often must pass through the fire to reach these windows. Also, broken glass falling to the streets below can cause serious injuries.

3. Smoke movement through high-rise buildings is a problem that needs special attention. Heating and air-conditioning systems can carry smoke to areas removed from a fire, even though the design of the system may be such that all air can be exhausted to the outside at times of emergency.

Stairways, elevator shafts and other building shafts often provide return air, often spread smoke and toxic gases in actual fire situations.

4. Heat from a fire often makes it extremely difficult for the Fire Department to establish a "Beach Head" on the fire floor. Wind conditions at upper stories often create untenable conditions in corridors as fire gases are forced into corridors and other areas where there is normally no combustible material.

5. Communication systems and alarm systems are lacking to advise people of a fire's existence, and to direct their movement to areas of safe refuge.

6. Delayed discovery often allows a fire substantial time to develop before any action is taken to suppress it. Even when it is discovered, attempts to extinguish it by the building occupants often cause further delay in the reporting of the fire to the Fire Department.

7. Combustible interior finish and combustible furnishings, particularly with the extensive use of plastics, are creating extremely hot fires and rapidly developing fires that are trapping and killing people before they are aware of the fire, and are able to take evasive action.

Unfortunately, the development and implementation of solutions is not as easy as identifying the problem areas. However, past experiences in combatting fires in high-



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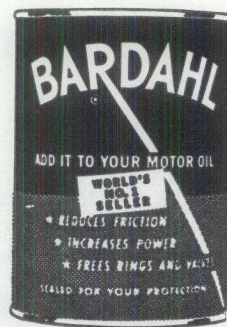
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rise buildings has made one point extremesy clear: Fire Departments must pre-fire plan their operations!

Pre-Fire Planning is the Fire Chief's most effective tool in establishing an orderly fire ground procedure to insure that all aspects of fire fighting operations are understood, and can be performed with available equipment under the existing conditions of each particular building. Without extensive prior knowledge of the building, its construction, facilities, life-hazard, fire loading, and a plan of operation for fighting a fire in the building, then effective fire attack becomes impossible.

Fire Chiefs who refuse to accept these facts of life, and fire chiefs who do not employ Pre-Fire Planning are doomed to total confusion on the fire ground, ineffective operations and failure in trying to achieve efficient fire attack and control.

At this time, I would like to show you two films that will bear out some of the points I have covered in this talk. Some of you may have seen one of them before, but I know you will want to see it again, because seeing this sort of a film the second time brings forth many of the details you may have forgotten.

(The films above-referred to were then shown to the audience present.)

Thank you very much, Gentlemen, for your kind attention to my presentation here this morning!

MODERATOR McGOULDRICK: Thank you, Bruce, for that fine talk on "High Rise Building Fires." Are there any questions at this time?

QUESTION: What is the understanding, now, of the stand-pipe and the stair towers on the floors and the location of them?

MR. TEELE: It is more advantageous to have a stand-pipe in the tower for Fire Department operations; you can take it from the floor below and stretch your lines out. Also, even if it were in the hallway, and you took it from the floor, you are walking over it, as well as the door on the fire floor. You are exposing the door below to smoke and fire communication.

Of course, the old smoke proof tower is unheard of except for Chief Sweeney in New Haven. He's lucky enough to have one in his high rise buildings. Your stand-pipe lines are forced ventilation.

Thank you very much!

PROGRAM CHAIRMAN LEDDY: Gentlemen, before you leave, I have an announcement to make. First, are there further questions you wish to ask Mr. Teele?

CHIEF JAMES L. GROTE of Connecticut: I wonder why, at this late date, we are allowing so many of our elderly people in these big high-rise buildings?

MR. TEELE: I am afraid that I don't have any control over your local building codes. Unfortunately, local practices seem to be dictated by the political nature of the community, if I can use the term, and it is up to the Fire Service to get out there and get behind the Building Codes.

There are many good Codes that do apply, but we have to face it. It isn't so much the buildings and the combustibles and the protection that we give it. If we allow variances through sprinkler ordinances and building codes, we will continue to have deaths.

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CHIEF GROTE of Connecticut: I will accept that; that is one of our main arguments, and it comes right down to our own towns and cities that allow them.

PROGRAM CHAIRMAN LEDDY: Are there any other questions? If not, I want you to know, before you leave the hall, that your Attendance Certificates are available at the rear of the hall, here. Pick them up, there; Chief Devine is there. If there are any errors in these certificates, then you go out to the Registration desk in the lobby and they will make any corrections that are necessary.

(Adjournment of Tuesday Morning Session at 11:45 o'clock A.M. on June 26, 1973.)

TUESDAY AFTERNOON SESSION — JUNE 26, 1973

The Tuesday Afternoon Session of the 51st Conference of the NEW ENGLAND ASSOCIATION OF FIRE CHIEFS, INC. convened in the Regency Ballroom of the Mount Washington Hotel, Bretton Woods, New Hampshire, at 2:15 o'clock P.M., with the Program Chairman V. Paul Leddy of Hamden, Connecticut presiding.

PROGRAM CHAIRMAN V. PAUL LEDDY: May I have your attention and we will get started, here. I have two quick announcements to make before we get started. Tomorrow at 12:00 noontime, the Massachusetts Delegates will caucus here in this room. Also, the Connecticut delegation will caucus at the close of tomorrow's session in this hall.

To get started on our program, I want to introduce to you your Moderator, Chief William S. Dush, Chief of the Newington Fire Department in Connecticut, who has been with his Department twenty-eight years, with twelve years as Chief. Presently, he is President of the Connecticut Fire Chiefs Association, and a Past President of the Hartford County Fire Chiefs Emergency Planning. Bill is retired, now. He spent twenty-five years with the Parker-Hartford Corporation, and he is now retired, but he is still self-employed, and he loves to play golf.

Without further ado, I will have Bill take over and introduce our speaker for this afternoon. Bill Dush!

MODERATOR DUSH: Our speaker for this afternoon Chief C. H. McMillan, has combined two papers for us.

And may I say that he has been a volunteer Firefighter. He has had a formal education, with a degree in Mechanical Engineering, with an emphasis on Motor Engineering, Hydraulics, Metallurgy, and in the steel industry, where he was an expert in the field of material engineering and specifications.

To give a little background on Chief McMillan, he was born and raised in Cedar Rapids, Iowa, and he is a graduate of the University of Iowa, M.E. in Hydraulics.

He has been a volunteer and a Chief in the Volunteer Fire Service. While he was in the Volunteer Service, he organized a Civil Defense Fire Division Course in the city of Gary, and it was through this association that he developed a fully automatic task force.

Without further ado, it is now my pleasure to introduce Chief C. H. McMillan. We are going to split this up. He will talk about his equipment, and then we will retire to the field just to the east of the building, here, just this side of the foot bridge, and I think

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that you can see the demonstration from the back side of the Tennis Courts, and then we will come back into this room for the wind-up of questions and answers.

It is my pleasure to present to you Chief C. J. McMillian of the Task Force Innovations, Hobart Indiana!

**AUTOMATIC NOZZLES — THE BIGGEST ADVANCE
SINCE THE BUCKET**

**Chief C. H. McMillan
Task Force Innovations
Hobart, Indiana**

Thank you, Chief Dush, and may I also extend my appreciation to Chief Leddy, his Committee, and the New England Association of Fire Chiefs, Inc., for the invitation to appear here today.

I feel an awful lot like a minister at the moment. Your Association has asked for a good speaker. And yet, really, you gentlemen in the back of this large room are going to have considerable difficulty in seeing the whole thing.

Well, now, I'd like to start with a quotation:

"A few people make things happen;
Some people wonder what is happening.
Many people watch things happen.
But most people don't even know anything is happening."

Now, just because we've always done some things in a particular way doesn't mean there can't be a better way. There was a day when they steadfastly said the gas engine would never replace the horse.

There is also an old Indian proverb: "Don't judge a man until you've walked in his moccasins."

It has been my pleasure to walk in many moccasins; mostly rubber boot type moccasins. Boots that have included those of the forestry warden, the rural volunteer, the suburban volunteer and the smaller part-paid and paid department, right on up to the largest of cities. Now, this has not been as simply a spectator, or as "fun" but as a working firefighter.

I've carried gear in my car for many, many years going to work whenever and wherever the opportunity presented, be it with an industrial brigade in the steel mill, or at a 5-11 in the big city.

Along the way, I've ridden and operated with practically every type of apparatus in actual fire situations from airport crash trucks and smoke ejectors to brush rigs and aerial platforms. Along the way, I also spent a few years building fire apparatus with American LaFrance, and taught conventional fire hydraulics in various state fire schools. Most of my bread-and-butter has been in Materials Engineering and Metallurgy for Gary Works, United States Steel, which happens to give me a design edge on new technology other than the time-worn, chrome-plated heavy brass.

The reason for mentioning this rather uniquely varied background is to relate to you. Whatever your particular type of moccasins, boots, I've probably worn at least a blister or two walking in them in some similar situations; be it brush fire, barn, tene-

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ment, factory, refinery, etc. from 22 below to 100 degrees above. My command experience has been as Chief of the Gary Fire Task Force, Volunteers, but in a fairly large paid city, working extra alarms in Gary and mutual aids in surrounding cities, towns, villages and townships. That includes water supplies ranging from most of Lake Michigan to zilch!

The Task Force, operating two squads, two aerals, five pumpers and specials such as a truck crane and so forth, was in the unique position of using master streams more often than a booster. Thus, big water was our specialty. In searching for solutions to water problems, I happened to open a Pandora's Box, the principle of the automatic nozzle.

Initial contacts with brass manufacturers who, seldom, if ever, actually walk in rubber moccasins, found little or no interest, but after six months' consultation, one began to warm up.

Without patent protection, on a gentlemen's agreement, I blew that one, receiving only a very small consulting fee for my troubles, provided I sign an agreement not to sue. It is now their primary line. Of course, I couldn't afford to sue, and in the meantime I had developed a better, more accurate device, so the second time around I've been having a go at it myself. Incidentally, the other brass manufacturers are now seeing the handwriting on the wall, and are now trying to climb on the "bandwagon."

Why was it "Pandora's Box" At the time, five years ago, the first idea was simply to be able to get as big as possible streams to work in a hurry with any water supply, no matter how short. That was but a tiny beginning. Early, we found that in most cases we were getting far heavier streams than before, since we were no longer limited to a "conservative" starting tip size, and didn't have to change bigger, which is seldom done anyway, as more lines and rigs got to work and improved the water supply.

Then came the realization that the big tips were not only doing "their thing" with their own streams, but were also regulating companion streams, and "offs" and "ons," continuously using every gallon we could get, when we needed it, and drastically increasing flexibilities and efficiencies of all operations.

Getting into the market place with the big tips led to discussions with hundreds of chiefs, training officers and firefighters, but especially pump operators, both from the viewpoints of critique operations, conventional and automatics, and answering questions as to why water does what it does.

Stepping down in size to handlines opened the box even further, taking the words "not practical" out of many a layout in the regular hydraulics book, and substituting: "If you've got any water at all, you can work with it!"

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Consider the hydraulics around your home. The system is sized for normal demands, and when you go to the kitchen faucet for a glass of aqua pura, you turn on the faucet according to your needs. If it's to wash your hands or fill a teapot, the demands and faucet settings will be different, and certainly if you are filling in a bucket to douse

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a fire, your're going to be wide open, but I doubt that you'll give second thought to the supplying pipes, mains, water tanks, filter bed, pumps, etc.

Not that there aren't occasional problems, as when you're trying to sprinkle your lawn at the same time as the neighbors, and to boot the thing, your wife starts the dishwasher and throws a load into the washing machine. But at least with a little choice and coordination, you can control the situation, and without resorting to squares, square roots and inter-related ratios thereof. Possibly the worst problem develops in the shower when some one flushes the "John." You come out with the appearance of a lobster. You may "swear" but at least you don't have to "square."

Now, I don't propose to provide "hot" and "cold" water in fire hydraulics, but I do hope to introduce you to the simple, automatic tools that can simplify and regulate fire hydraulics to the convenience of hardly more than "turning on the faucet." I trust that you will view this afternoon as a return to the classroom; not that you haven't already had a gut-full of hydraulics classes.

First, we will take apart the academic hydraulics, ideals that don't work, and never have, or never will work, under the stresses of the fire situation; then we will consider the new automatic hydraulics; hydraulics that work, and work in the fastest possible time, with minimum effort and always within your control, and that's the key word here, "control"! Questions will be welcomed at any time.

We will consider the new tools that provide the answers to our problems of the last hundred plus years, and how easily, simply and quickly they can be put to work by automatic hydraulics.

Now, everybody seems to "be from Missouri" when it comes to a new tool, particularly a new muzzle, so at that point we'll take a break to throw some water; not with just a simple, no problem, plenty of time, drill-ground set-up; but rather with a simulation of the normal complexities of the usual fire situation.

Returning from the demonstration to the classroom, we'll then see some fire; some bloopers with conventional hydraulics; some impossible layouts made easy, and with automatics, show how you can easily get 30 to 80 per cent more out of your rigs than you presently expect, and in general, wrap it up.

So let's get with it. Where is our emphasis, or where should it be when considering fire hydraulics?

The "hydraulics" of pre-connects, including boosters, are of no problem, except that we frequently don't get the gallonage we might, resulting in a small fire "getting away." Yet those "no problem" small streams are sufficient to handle more than 90 per cent of all streams. So why go to the expense of buying 1,000, 1,250 and larger pumpers, or bother with studying hydraulics?

Of the remaining 10 per cent of fires requiring one or more "bug" lines, still only one to three per cent of those fires get into "master stream" jobs. But that's on the basis of runs, and just racking up thousands of run-arounds has little to do with how much a company actually fights fire.

Looking from another more meaningful direction, what we're really interested in is loss. More than two-thirds of the total fire losses are in that last one per cent or three. Furthermore, whether or not the master stream appliances are available and deployed promptly, correctly and efficiently to use whatever water supply is available, or can be made available, is the key to loss minimization.

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Now, these master stream fires also simultaneously involve multiple hand-lines. Fires are put out by the infantry, the heavy artillery is only to cut the blaze down to a size that can be attacked by the infantry.

Needless to say, our attention must be first focused on avoiding these large fires, but once the circumstances add up to a potential large loss, we'd better have the equipment and training to handle it, or we'll merely be standing back, pecking at the edges and watching her go. Were it otherwise, we could limit our rigs to a couple of pick-up size "brush" rigs with two men crews and do away with most of the fire department.

Now, most big fires do not start big. Sure, there's the occasional explosion, or the near explosive occupancy such as a lumber yard, and there's the delayed alarm and plenty of other cards that can be stacked against us. Just remember that the Great Chicago Fire of 1871 started as no more than an "alley garage" of today, but the whole deck of cards was stacked against the fire department. Basically, our job is to quickly and effectively apply a sufficient quantity of water, first, to cover escape routes; secondly, to cut off extension; and third, to beat back, to extinguish and overhaul.

It takes time to build an attack, lots of time, and no matter how great the total capability of the fire forces, we're not going to get ahead of a fire until we build up an attack stronger than that fire. This requires anticipation of potential needs and prompt requests for additional equipment, especially when mutual aid may be ten to thirty minutes away, for it is not just what is obviously needed now, but what may be needed. Setting up master streams is too often like the little boy waiting too long to head for the "John" and then finds that it's too late!

Review the records of most major fires. Alarms are spaced out over many minutes, often hours. Somebody goofed by not assembling his troops and spilling some dry lines in anticipation of potential needs.

In the early stages, quickly developed streams frequently stop a potential loss before it becomes headlines. In later stages we frequently are merely waiting for the fire to burn down to a size we can handle. Those headlines so often include a phrase to the effect that "firemen were hampered by lack of water." A more truthful statement, hard as it might be to swallow, especially at City Hall, would often be "Firemen were unable to make effective use of available water in time to cut off and control the fire." In this respect, we have one thing in common with the medical doctors. Where they "bury their mistakes" we "burn ours." Actually, we have an advantage since the doctor's mistake can be exhumed and autopsied, whereas ours is forever gone to the winds!

Why can't we make the most efficient use of available water in the shortest time? What "ails" conventional fire hydraulics?

Starting with Freeman's tests in 1888, an awful lot of time and effort has gone into the subject, the prime intent being simply to achieve proper nozzle pressure. The classes of today would lead us to believe that it has been worked down to a fairly exacting science. Such is far, far from the case. Certain aids and rules-of-thumb help, but the squared interrelations are not within the capability of man to compute, particularly under the stress of fire conditions.

Specifically, conventional hydraulics assume an adequate, indeed reserve water supply, but a reserve is an unused excess which is inherently inefficient, since if we

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have any excess, the object of the game is to be able to use it. Of course, in using the reserve, we also must not destroy our already working streams, and that's where regular hydraulics break down. We need control to be able to use and regulate the total supply, splitting it to various streams of various flows according to the requirements of the moment, and control to vary those flows as conditions vary moment by moment; to use every available gallon with constant regulation and without danger of hydraulic break-down.

Secondly, the "classic" hydraulics assume availability of equipment, hose, nozzles of the right sizes, manpower, and especially time to do the desired job. It's easy on the board to assume wide streets without double-parked delivery trucks, move cars blocking plugs, spot rigs, stretch lines with a sweep of the chalk, and if a change is required, a sweep of the eraser and a new chalk line will immediately handle the situation.

Not so on the fireground, when you can't find an uncommitted man or rig to use for a critical spot. Furthermore, calculations, such as they are, and rules-of-thumb assume various losses in devices, hose, etc., losses that vary by squares such that each little error is magnified throughout the inter-related system to become a gross error. For example, we may assume that a pump operator can see his streams, but he's often around the corner.

Assumptions, assumptions. We assume working accurate gauges. We assume the pump operator has information such as size of tip, desired flow, length of lines, etc. The worst, but most traditional assumption, is that the poor pump operator is in control at all, when it comes to hydraulics! All he has is gates and a throttle, and that's a damned small part of fire hydraulics. He doesn't control the layouts. He doesn't control the supply. He doesn't control the tip sizes. That's up to you, the bosses, and the poor operator is left holding the sack with an impossible situation, beyond his control or calculation, no matter how well he might be schooled. The result is, at best, headlines in the next day's papers, and at worst, entries in the obituary column.

The second, and I emphasize second, greatest advance in fire hydraulics has nothing to do with hydraulics or any associated water conveying equipment. It is simply the radio. Just verify this by listening to the tapes following any big blaze.

As I prefaced this discussion of the impossibilities of conventional hydraulics, I noted that the prime intent is to achieve proper nozzle pressure. Of course, this has to be within available water supply.

Why not do it the easy way? Start with continuous control of proper nozzle pressure, and make the layout to fit the desired flow, with the "ace-in-the-hole" of working streams while you're laying more lines, and of control in splitting total available supply. **That is what the automatic nozzle does.**

A nozzle, in essence, is a shaped hole with the functions of converting or accelerating nozzle pressure to velocity and shaping a stream or patten. A properly sized hole for an available flow under pressure yields a desired velocity. With more properly sized holes, both large and small, results remain adequate so long as each receives a required flow at pressure. But, when too many holes exceed the available flow and there is not enough water, the pressure falls off. We have a bleeding sieve, and none of the streams remain effective. The ideal would be elastic holes to vary in size, in coordination, to assure always proper size. **That, in effect, is the automatic nozzle.**

Is it a gigantic computer controlled device (showing slide)? No! Just an extremely simple balance between water pressure and a spring (2) Either a hefty spring acting

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directly to balance water pressure at an approximately constant level, or a small spring in a pilot valve continuously pivoting the flow for improved accuracy, moving a single part, (3) a piston, to effectively vary the size of the nozzle for exact constant pressure, working in the same way your pressure regulator on the engine works. (4) as a complete deluge nozzle tip, this is how the automatic looks.

The versatility of the automatic concept enables designing a single nozzle (5) to cover all hand-line flows for all various size hand-lines, from 1½" up. (6) An adapter or play-pipe is used with larger lines.

Now, you know what happens when you try to throttle a conventional nozzle; the stream bursts and falls off. (7) The addition of a simply automatic turbulence control to straighten out the violent turbulence created by the shut-off (8) now gives us a throttle, (9) a tremendously significant advance in control. (10) Complete control on the working end of the line, right in the nozzlemen's hands. He selects the flow he needs according to what he can handle, up to the full flow capability of the line. (11) Of course, he can't expect a 3" line flow from a 1½" line. Yet, one man can handle a 3" line; he just throttles slowly open to what he can handle. When another hand arrives, they throttle up some more.

We talk about "standard" 250 gpm streams. (12) This is supposed to be a "standard" stream on a big city five bagger! The "standard" stream may be fine in the book, but what in heck is standard at a fire? (13) Nothing! Absolutely nothing! How many men are on the line? What's the footing? Icy? Oily? On a ladder? Advancing? Tied in? Each situation calls for or permits a different maximum reaction. Then, too, what is a standard fire? On arrival, a situation may look bad, so we lay big; then find heap, big smoke, but damned little fire! So how much water damage do we do with the big line? Possibly the outstanding spin-off of automatic hand-lines is going to be reduced water damage.

On the other hand, an even worse mistake is to underestimate. Say we go in with a 1½" pre-connect, and suddenly find ourselves in the middle of Hell! With a constant nozzle pressure automatic, rather than having to wait on laying a big line, in which time the fire completely gets away, with the automatic we can increase our flow by 30 to 50 per cent by cranking up the pump pressure to 200-250 psi at the pump, the extra pressure covering the higher flow loss in the small line.

Better yet, if we have the right equipment, we can have our cake and eat it, too! The difference is but a quarter of an inch. Going to 1¾" line, still with 1½" butts, so as to avoid thread problems, we can increase our flows by roughly 50 per cent at normal pressures and go on up from there. Flows of 200 to 225 gpm on 150' or 200' pre-connects, no sweat. Yet just looking at the lines, I doubt that you'd recognize a difference between the 1½ and 1¾ "Wash and wear" all polyester, 600-lb. test, double jacket, 1¾" coupled, weighs only 34 lbs. per hundred feet and lays like 1½". The 1" booster weighs 75, twice as much. The light-weight 2" European style hose yields similar performance.

Small hose handling, big line attack and negligible difference in cost.

This can be carried even a step further with "Rapid" water. With "Rapid" water, the auto-tip is a must, since whether or not the "Rapid" is used otherwise requires at least two nozzle sizes.

Now, Gentlemen, this is not idle dreaming at the drawing board, with a slide-rule. The City of New York (14) after literally years of testing, is currently equipping all

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of their engines, (15) old and new, with a first-off leader of 200' of 1¼" line and an automatic nozzle. New rigs are also being equipped with "Rapid" water as well.

If there's anything approaching a "standard" working fire, this must be it; (16) a fourth floor rear bedroom in a five-story tenement. For tough stretching, it seems like they are all in the top rear. Narrow street is already blocked with ladder setting up for rescue and ventilation, (17) so it's lead-off with the 1¼", and take particular note that the nozzleman alone has the whole 200' of 1¼" plus the first fold of 2½.

Conventional stretch of 2½ (18) just into the front door; then flake out the 1¼" down the hall to the stairs, (19) near the rear, up four flights, and hit it. (20) About a four to five-minute operation; third engine just arriving! But, there was a bit of extension (21) to the bedroom above. No problem with the small-big line. Just up and give it a dash, and it was all over. Everybody picked up and heading back to quarters in about a half hour!

Syracuse, New York, is going several strides further with (22) big supply line (3½", quick coupling) and their (23) Maxi- (24) Mini pumper concept. Each Maxi is equipped (25) with "Rapid water" and carries four Matydale 1¼" pre-connects with HTFT's; each Mini has two. Thus committing the equipment of only one engine company, and using extra manpower from other companies, permits an extremely heavy and fast pre-connected attack with the power of six big lines! The other rigs "stay loose." They also have plenty of back-up (2) heavy artillery equipped with automatic nozzles (27). The HTFT (28) was specifically designed for and in cooperation with these two cities, and especially to meet their requests for extreme ruggedness, (29) resulting in stainless steel construction for highest strength yet, lightest weight, and with lots of thick rubber protection, including molded in "fog teeth."

Now, as with any device, certain Gremlins may creep in, and I'd like to caution you about two extremely important Gremlins; debris in the water, and the unusual situation where intended nozzle pressure cannot be developed; as, for example, a pumper breakdown, or on an un-pumped building stand-pipe. These can be extremely critical. The HTFT is the only automatic that includes a "flip open" flush (30) for quickly cleaning debris, and also manual over-ride of the auto pressure control for the "too low" pressure situation. (31) Opening the baffle a turn to a turn and a half will increase the flow volume at moderate decrease in nozzle pressure. The nozzleman can make the best compromise for the situation until he receives normal operating pressure. Then (32) a flip of the baffle and he's back on full automatic.

The biggest hydraulics problems, and bloopers, and losses, are usually found with the bigger streams, (33) where it is not at all uncommon to see a blooper wasting a large quantity of water (300 to 500 gpm or more) for half an hour and more before the situation can be corrected. (34) these bloopers, plus a couple similar in front, added up to four buildings destroyed!

With aerial streams, the need is frequently point-of-vantage rather than great quantity, and a single line stream at pressure in a hurry can do the job, whereas by the time the usual three lines can be connected, the chance of a stop is lost. Automatics go to work just as quickly as the first line can be pressured. Which would take, the same total water available, these lobbing streams (32), or auto streams (36)?

Not only are automatics available as complete new tips (37) but also as pre-tested pre-set, retro-fit units for simple field installation in all types of "constant gallonage" big fog tips.

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Field conversion involves simply first, removing baffle lock-nut with a socket wrench (38), secondly, removing old baffle with a special spanner, or since few have the spanner, two drills or pins and a bar will do. Then (39), third, the TFT unit is threaded in, just hand-tight. Lastly (40) the control nut is threaded onto the base of the shaft, and (41) snugged with a "spark-plug" wrench. (42) Now that "constant-gallage" means constant with change in pattern, since such unconnected tips vary widely in gallage with changes in nozzle pressure, or conversely vary widely in pressure with changes in volume. That's why the automating unit becomes so important.

"Black Widow," "Big Daddies," Turbo-jets," "Side-winders," "CJ's," "CJN's," in all sizes and manually adjustable gallage models can be automated. The best way to recognize suitable types is simple. "Are they light-weight construction with large bumpers?" If so, you can up-date those tips to automatic at less than half the cost of new tips. (43) Furthermore, your present shut-offs and play-pipes can be converted to full automatics including turbulence control.

So much for the hardware. Now to the auto hydraulics, which basically boil down to turning on the faucet; making the best layout you can, when, how and as you can, and pump. Pump with what you can get. You'll have immediate, excellent working results at pressure. Then improve your supply and layout as you can for maximum results.

Naturally, the pump operator needs to know the mechanics of his rig and procedures for going to work in various ways, but you can teach him the hydraulics in two sentences:

"Just give me 200." And: "Hold it, if you get down zero to 5 on your compound."

If he's working into a combination of hand-lines plus master streams, or relaying to another rig, the one additional thing the pump operator must do, if necessary due to short supply, is to gate back on the relay or master stream lines, since it is essential that he maintain full pressure to his hand-lines. With automatics, you'll have perfect nozzle pressure with coordinated and regulated full flow, that is, if you need the full flow or any lesser flow. Additionally, you can gate back on one stream to heavy-up another.

Most of the time you will have reserve water, and thus will be working to the pressure or layout limit, limited by the friction losses of the lay. If you want more flow, you can increase the pressure, improve the layout to reduce losses by laying a parallel line. The pressure limit is flexible and amounts to how hard you want to work according to the situation; 200 is a good average level for "Attack" and may be raised to 250 or more for "Emergency." On the other hand, 150 is adequate for most "Average" situations, and as low as 125 will do for "Overhaul." With hand-lines overhaul can be done on plug pressure by using the manual over-ride feature required, since plug pressure will normally be below operating pressure.

Look at it this way. In automatic operation you will have 100 psi nozzle pressure. The difference between that and your pump pressure is what you are allowing to cover the inherent layout losses that increase by the square with flow. You can't beat Mother Nature's laws. Simply, the harder you pump, the more friction loss you can cover and the higher the flow will be. Your rig will always be able to easily make the pressure since it is always working into a proper resistance.

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The supply limit shows up as you reach 0-5 on the compound when on a plug; or at draft, when you either reach full throttle or start to run away from water. In relay or off a plug, a better measure of available water, since gauges are often inaccurate, is to pump down until soft suction are just squeezable, or until the engine just starts to run away from water, then back off a hair to a solid beat. If you want more parallel lines or additional sources are needed, just beware of the inadequate suction hook-up, especially one or two 2½'s. You can't pump it unless you can get it into the pump. Big suction should always be used at major fires, and if initially hooked up small, must be changed to get the big sleeve connected just as soon as possible; leave the small suction on, too. It's well worth the minute or so to double or triple your available water.

Even though you are using the full supply to the last drop, if necessary, you can take off another stream, so long as you recognize that you will subtract from the already working streams what you put into the added stream. Control! You can slice it any way you want it!

You will rarely reach the third natural limit, power, which automatically shows up as using full throttle, and then only when working very large volume at high pressure into multiple streams. These limits: layout, supply and power may be visualized as the (44) "water triangle," the automatic answer to the "fire triangle."

Working to whichever limit is first reached is the maximum possible for the moment. To do more will require improvement to the limiting factor.

Along with full instructions, the primary rules for auto hydraulics are summarized on a weather-proof mylar plate (45) which is supplied for mounting on the apparatus. Working to the limits means getting all possible from the layout of the moment, safely, using the reserve supply when desired, but with the control option of re-directing heavier flows where needed by gating back on less effective streams.

(46) For the academic, you can figure automatics forwards, or backwards, though preferably not at all, or wait until the next day.

Forwards, you figure considering the auto as a fixed tip of any particular desired capacity; simply apply conventional hydraulics to find the desired pump pressure; and pump at that pressure. You'll get exactly the figured flow, assuming you have the supply to make it, and that no errors have been made. However, with an automatic, any errors or shortage will be automatically compensated for a perfect stream. Added insurance, a real "Ace-in-the-hole!"

Figuring backwards, pump pressure less the constant 100 psi nozzle pressure is the pressure available to cover losses. Allowing for elevation and device losses, we can then use rules of thumb or tables to determine flow to produce such losses. Similarly, by taking gauge differences, as between output of one pumper and intake of a relay pump, we have the hose friction loss and flow can be determined from the table. A rig with a direct-connected gun or device such as a "Tele-Squirt" or platform can be calibrated, such that flow for any particular pump pressure can be read directly from a chart, or conversely, if a particular rate of flow (as from a tank) is desired, pumping to an easily made calibration chart will produce the desired flow rate.

You might wonder what difference there is between automatics and manually adjustables, since both operate by adjusting the flow gap between the baffle and nozzle cone.

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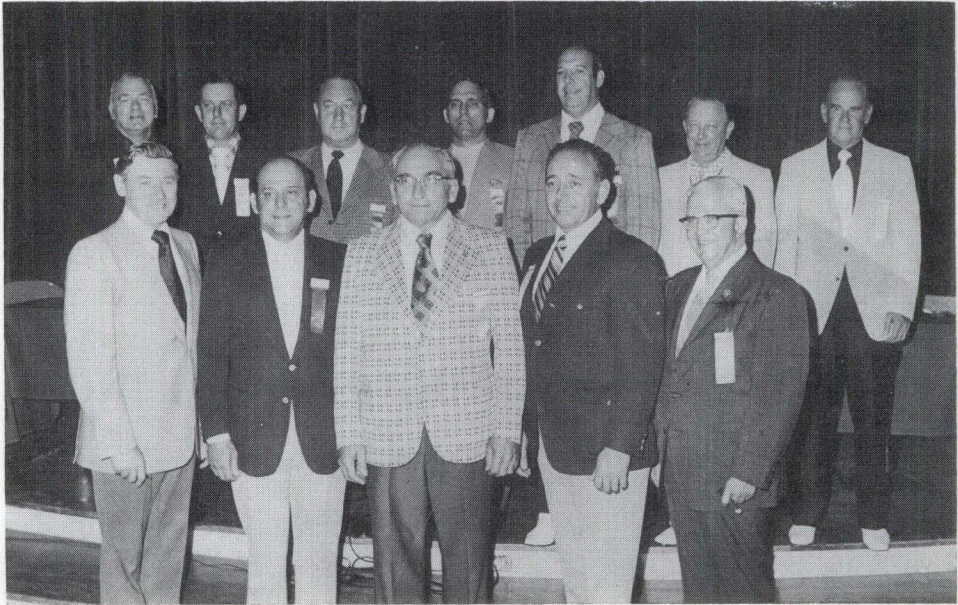
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First, the auto is on the job all the time, and senses, indeed, pitots every change in the system to continuously exactly correct to compensate for variations. Secondly, with two independent variables, pump operator and nozzle operator, who follows whom? How do they communicate more more or less flow is available? Especially, as other lines are turned on or off? They can't. So you end up with only a "fair to so-so" compromise.

With an automatic, the nozzle simply keeps regulating and following the pump operator's adjustments to the maximum.

Third, dependent on the actual volume, the difference between "click" stops on manually adjustables may mean as much as plus or minus 50 per cent of desired nozzle pressure. In other words, with an actual total available flow half-way between stops, the higher flow stop will give an under nozzle pressure of roughly 50 psi, while adjusting to the next lower flow stop, it will require about 140 or 150 psi at the nozzle to pass the same flow. So we again settle with a "fair to so-so" stream, or we don't get full flow, rather than achieving the perfection of the auto.

Now, as we prepare for our demonstration, I want to emphasize what is happening and why. We don't fight major fires with elementary single stream hook-ups at drill-grounds, and with all the time, tips and water we might desire. Many of you have undoubtedly tried automatics under such circumstances, and frequently misunderstandings have been concluded. Why? Because, first, you were judging stream shape rather than control, and so many factors can enter into stream appearance, and secondly, you don't have real problems, so you tried to simulate problems, usually by cutting pump pressure, thereby simply defeating the auto-tip and showing or telling less than nothing.

The way to see what autos can do is to work with known volumes, and to achieve this we'll be using a first engine simply as a water meter. We'll have two 200' lines into the test (attack) engine. Now, so long as the meter engine maintains 115 psi, the attack engine can get only at most 500 gpm per line by pumping to 5 psi on the compound. Check your friction loss tables: 55 psi/100 equals 500 gpm flow. Similarly, with both lines flowing, he can get only 1,000 gpm maximum.

We'll then work conventional and auto-tips with these known flows, plus throw in a few problems, such as additional streams, and turn them on and off. You'll see the auto-tip quickly re-set to regulate pressure for the whole system, whereas the conventionals will go to H with each change.

We'll also take a look at the so-called "standard" 1½" tip on a 2½", 250 gpm at 50 psi, and compare it to a controllable auto-tip.

Then, for icing on the cake we'll show how you can get essentially big line swat with small line stretching and handling by using an HTFT on 1¾" line as compared to a conventional 1½" pre-connect.

Now, Gentlemen, this has required a heck of a lot of work on the part of the local firefighters to make these layouts to show normal problems, so I trust you will do them the honor of carefully observing the results.

After you've seen the hardware work, we'll re-convene here for a discussion of actual fires and layouts, layouts that you couldn't possibly make with any assurance of a stream without automatics, as well as others that will get more out of your engines



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than you would think possible. Then, too, I want to show you some bloopers, burned mistakes, that naturally couldn't happen in your department, but that might give you some thoughts on pre-planning and training to avoid such possibilities.

Are there any questions at this point? It will take a few minutes to get things going down at the bottom of the hill. Then after the demonstration of about twenty minutes, we will come back here to finish the discussion.

(The audience present then attended the outside demonstration. Mr. McMillan returned to the Regency Ballroom after the demonstration of over an hour.)

MR. McMILLAN: Now, we've discussed the basic principles and you've seen the hardware work. So what???

Simply that until you have the situation where the buck is on your shoulders, you are not going to develop a full appreciation of automatics. I only hope that I've intrigued your imagination enough to get you started on a conversion program. Tomorrow, after the big blaze that shouldn't have gotten big, is too late.

Furthermore, let's reflect back at my opening statement about "happenings." I find, unfortunately, that when the problems disappear with automatics, the users frequently don't stop to realize that they even existed. This was especially apparent in talking to a basket man on Detroit's Snorkel One last year. This hard-working rig makes every extra alarm and most "all hands," "workers" in the entire city of Detroit. This particular old timer said: "We don't need gimmicks. Hell, we haven't had a bad stream in a year!" Well, he was at least half right, and quite exact on the timing; he hadn't had a bad stream in one year and two weeks, to be exact, but only because that "gimmick" had been quietly delivering consistently perfect results.

Now, let us look at that manually adjustable tip. It does essentially the same adjusting with a good operator. Operator? Enter human error. (55) Here's a man right at the window, with lots of fire to be hit, and he sure as H wants a thousand gallons. But, he's being fed by only two 2½'s each 800' long, and one blown to boot. No way! But, did he adjust? No. He lobbed it for nearly ten minutes while I, wanting to see what he'd do, bit my lip. Finally, as his Captain passed by, I mentioned adjustment. "Oh, my gosh!" And, up on the rig to close her down. (56) Now, that made a fair, but still dropping stream. Then the blown line was finally re-charged.

Did the nozzleman re-adjust? NO! (57) Now, he operated at a nozzle pressure of upwards of 175 to 180 psi, but failed to deliver the full volume available, and that's without the complications of any other lines off the set-up.

I can show you bloopers all over, in big cities and small. (58) Here's a five bagger, a few fair streams, though at most only one (the Snorkel) would make even 80 psi nozzle pressure. Note that 30 psi blooper across the bottom of the picture. Temporary start-up? Heck, no! Some thirty minutes later, an additional 3" was connected, to get a reasonable stream. Note, also, that they are all "straight bore" tips, and if those are "solid" streams, I'll drink them. No stream is "solid," though a well-trimmed fog tip will produce a tighter stream than the out-dated "straight tip."

Now, for the academic minded, who still cleaves to the idea that fire hydraulics can be calculated, try figuring a hook-up like this (59), involving multiple 2½", 3" and 3½" lines, tying up ten or more pumpers. As nearly as we can count and figure, there's the equivalent of at least 24 2½'s of varying lengths of lay. To boot, it only takes thirty minutes to an hour to make such a hook-up. By that time, any chance

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of a stop that might have been made is long past. Furthermore, the stream was not that effective to be worth typing up all that time, manpower, hose and equipment!

Still in the big city, here's a "pre first-due situation." (60) Fire, through the roof of an abandoned three decker with occupied exposures on both sides, and those red lights are not fire equipment, but only the tail-lights of a bus. (61) The first due engine is still about five or six blocks away. Some fire, on the first floor, going good on the second, the third almost totally involved, and through the roof.

Now, this city is noted for the finest in water supplies and enjoys a top insurance rating; however, the two vicinity double-steamer plugs, each only about 150' in either direction, proved capable of only about 500 gpm apiece. (62) Initial attack up the front stairs with four handlines was pretty effective. A little help from a good Snorkel stream would have done the trick, but the first due Snorkel was already working at a nearby blaze and had to tear down to respond. It arrived about twenty minutes after the alarm, just as this ladder pipe was being readied, so that some time was lost as the ladder was moved to make way for the Snorkel. A 3" was laid from one engine on the plug to the north, while a second 3" was stretched from one of two engines on the plug to the south.

So, what happened? Like pulling the plug. (63) Not enough water for the Snorkel to hardly reach the building, much less do any effective work, but worse, the hand-lines lost their starch, forcing the firefighters to yield their hard-fought ground, and back down to try to cover exposures.

(64) How about that exposure coverage? Those two streams can't make the second floor, much less the main body of fire. But orders are orders; keep trying; keep them draining what water is available. (65) Temporary situation. Like heck! Only if you consider another thirty minutes (total of fifty minutes from initial alarm) as "temporary"!

(66) What can the Engineers do about it?

(67) Nothing.

Finally, the "boss" "wised up" and ordered all but the Snorkel shut down. This now made roughly 1,000 gpm available to the Snorkel, but with only a 1½" straight bore, the full 1,000 couldn't be used. Nonetheless, he finally had the reach he should have had long, long before, and with the roof off, in five minutes proceeded to darken the fire (68) to where the hand-lines could move back in; but, this was more than an hour late, all told. Fortunately, with little wind, the exposures were still standing. With a little adverse wind effect, most of the block would have been lost.

How about the small town (69) where this ladder can get only about 250 gpm from a pumper from the extremely limited and over-taxed hydrant system. Yet, that 5,000 gallon semi-tanker (through another pumper) was able to boost to 500 gpm for 20 minutes or so, then be gone ten or fifteen minutes filling, then get back for another fairly heavy shot. (70) No sweat with an automatic. No tip changes, and a good stiff reaching stream all the way.

(71) Now, try this on for size. Five rigs on three separate radio frequencies involved in a half mile relay. Two 2½'s from plug rig to pumper at roughly half-way point. Two 2½" from it to two separate pumpers near the fire, one with two 1½" 's working intermittently, and the other with a 2½" in operation intermittently. One each, 2½'s, were taken from these two rigs into the ladder pipe.

Quick, somebody! What size tip for the ladder pipe?

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Can we operate a ladder pipe?

Is that for all lines operation, or just the 2½, or just the 1½'s, or 2½ and 1½?

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(72) As hand-lines were used or not, it just shifted a bit to compensate. There was steadily regulated pressure all around; no blown lines. There were uniform reactions on handlines, pumpers smoothly operating to 0-5 on their compounds to continuously deliver every available gallon, irrespective of which tip combination was in operation. Just try to imagine that confusion, the utter impossibility of this layout, were it with a conventional tip, especially with no radio communication!

(73) How much do you expect out of your 1,000 gpm pumpers? Of course, that's a draft rating, so with required reserve capacity, you should reasonably expect 1100 or 1200 gpm at draft, especially if only with a short lift. But, what do you expect of a good plug? 1100? 1200? 1300? I expect, and regularly deliver 1300 to 1700 gpm. You can, too.

First streams on most fires are hand-lines from pumpers on the closest plugs. Often, two lines from a rig with a split bed. (74) Such was the case here. Of course, this shot was after dawn. It was a hell of a lot hotter to start with as the place had literally exploded before any alarm, and, in fact, blew the corner alarm box on the corner clean off the pole. The red 1,000 gallon pumper on the plug at right first dropped two hand-lines from the alley. Then, the Blue Task Force 1,000 gpm pumper just beyond the VW laid two lines "going in" with the order to supply the ladder pipe; but, another third pumper was laying two lines out from the ladder siamese to a more distant plug, so the Task Force pumper put one line into the ladder siamese, and opened up with direct connected turret gun, equipped with TFT, naturally. Now, the plug rig was working 150 psi into two fog hand-lines for roughly 250 each or about 500 gpm. The Task Force pumper was pulling its two 200 leads down to zero, which amounts to a line friction loss of 75 psi/100-feet, and which, if you will check your friction loss tables, is close to 600 gpm per line, or 1,200 gpm. That means a total off the plug pumper of 1,700 gpm at 150 psi.

(75) Incidentally, since the Task Force pumper was right at the ladder, it was probably supplying half or more of the approximately 600 gpm ladder pipe stream, saying 300-350 gpm, leaving 850 or 900 into the deck gun. Yet, no calculations were made until a couple of days later! Then, who would believe them? So at the city Chief's request, the drill-master took the same plug pumper out to a plug of practically unlimited capacity, set up two guns, and pitoted an output at 150 psi in excess of 2,200 gpm! That pumper is no different, no better, than yours. You can do just as well with the right tools.

(76) Here's another similar lay, morning after shot. The plug pumper is a block and a half on, down the street, supplying two hand-lines, plus the two 600' 2½" lines into another Task Force pumper with turret pipe and TFT. In this case, the deck pipe flow is roughly 600 or 700 gpm, but a mighty fine stream.

I want to stress that you can move a heck of a lot more water through fewer lines by short relay pumping, as in these cases. We're moving more water in each pair of lines than would usually be handled through three or four lines, if directly off the plug pumper. The key is that the hydrant pumper only has to move the water, and at pressures that relate well with hand-lines, while the relay rig into the gun or ladder pipe supplies the device losses and nozzle pressure.

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(77) Now, Gentlemen, there's practically no limit to what you can do with automatics and a little imagination. A big tip on a single length 2½ or 3" looped back and lashed securely to the pumper makes a fine deluge run, saving close to a thousand dollars on hardware, and is especially useful, if no gun is available. Roof, window, fire escape and alley deluge set-ups can be made by siamesing a pair of lines a length ahead of the tip, though, again, I stress, securely tied down. You can get a big stream to work almost anywhere with minimum time and effort. Tanker operations become a snap! Heavy knock-down hits while the tanker's on the scene; a holding action while the next is pulled in, and another slug. "Downtown" streams R.F.D. Gutter line lays. Lays combining various hose sizes, split, water, combine water, you name it! What you can do with automatics is limited only by your understanding and imagination. You now have control!

However, you're not going to realize these benefits by merely listening to me, reading about them or dreaming about them. Neither are you going to gain full benefits, so long as you hang onto your outmoded heavyweight brass, (78) and view the automatic as a "special." By the time you can find the "special" tip, especially if it's back at the station on another rig, your biggest time-saving opportunity will be lost.

(79) The only way is to make up your mind that you are going to do it the easy and effective way, and start a combined replacement and conversion program. Conversions of suited tips and nozzles will save you more than half the cost of new pipes. You can get tips-only for your present hand-line play-pipes and shut-offs, again saving a large part of your present investment. Just don't lose track of the problems solved, simply because many of your problems disappear. Realize what the automatics are doing for you.

Returning to my Opening Statement:

A few people make things happen.

Some people wonder what is happening.

Many people watch things happen.

But, most people don't even know anything is happening!

Step back and take a look at yourself and your department. Are you going to watch? Wonder? Or make things happen?

Are there any questions? I know that it is late, and I want to thank you Gentlemen who are still with us. I hope I have a chance to meet many of you this evening, possibly to answer some questions which you may not wish to ask before the group as a whole. Our wish is to serve you.

Thank you.

(Adjournment at 4:45 o'clock P.M. on June 25, 1973.)

WEDNESDAY MORNING SESSION — JUNE 27, 1973

The Wednesday Morning Session convened at the Mount Washington Hotel, Regency Ballroom, Bretton Woods, New Hampshire, on June 27, 1973, with Program Chairman V. Paul Leddy presiding, at 9:45 o'clock.

CHAIRMAN V. PAUL LEDDY: Good Morning, Gentlemen.

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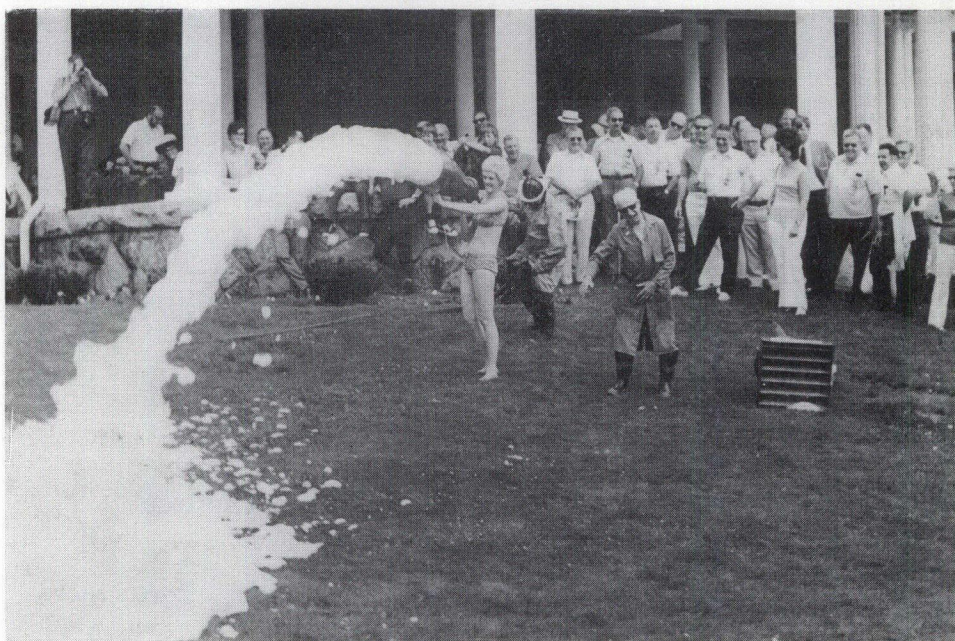
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As our first order of business this morning, we have a gentleman with us who has a short film to show; we didn't get it on the program yesterday because of the demonstration outside. So that before the main portion of the program starts, for a few minutes, I want to introduce to you Robert A. Fellabaum of the Universal-Rundle Corporation; he has a few words to say to you before the film goes on. Bob Fellabaum!

MR. ROBERT A. FELLABAUM: Good Morning, Gentlemen. I want to thank Chief Paul Leddy and Chief Pat Brown for permitting me to take part in your program this morning. We will keep our message short and brief, and we hope that it will be informative to you.

Universal-Rundle Corporation is one of the nation's leading producers of plumbing fixtures, and yet we are here participating in your Conference this year. We are one of the four leading manufacturers of these fixtures in the nation who has made a firm commitment to Fire Safety. We want to set the record straight today.

For those who are here and have heard conflicting stories about the flammability of fiberglass bath tubs, I want to make two principal points here this morning. The first point is that some fiberglass bath tubs and showers are very flammable, and the Institute has used this fact to mount an aggressive campaign to discredit Fiberglass in general. They would like you to believe that all Fiberglass materials are flammable, and consequently they are a hazard in construction. Incidentally, there is one tub/shower that you will see in Parlor C, which represents the elimination of 55 square feet of ceramic tile, so I am not sure of their motives.

Most important, Fiberglass fixtures can be made fire retardant, as our film will show, if a manufacturer is committed to an on-going program to constantly improve the product. Universal-Rundle is dedicated to this program.

We're not here to sell bath tubs. Our reason for coming is to help inform those of you who have heard only one side of the story and consider Fiberglass unsafe. This is a fine product concept, and as you will see, it can be available to the public with firm assurance of its acceptance and recognition of its actual fire retarding and smoke characteristics.

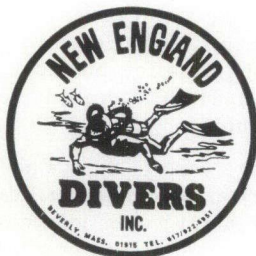
We have passed out some literature in the first rows of the upper hall, here, and there is more in the back of the room, and we have still more at our booth where, after the meeting, we will be glad to answer any of your questions, and if you would like to see the film again in our booth, we will be glad to show it to you.

Thank you very much for permitting us to take part in your Conference.

(The film to which Mr. Fellabaum had reference in his remarks above was then shown to the audience present.)

PROGRAM CHAIRMAN LEDDY: At this time, I want to introduce to you your Moderator for the first portion of the Program this morning. Chief Pat Brown of the Burlington, Vermont Fire Department has spent three years as Chief and another two and a half years in the Department. He is the Vermont Director of International. I have just asked him, now, if there was anything else that I could put down here about him and said there was nothing that was that impressive. Pat Brown, your Moderator for this portion of the Program.

MODERATOR PAT BROWN of Burlington, Vermont: Thank you, Chief Leddy, for asking me to be your Moderator for this part of the Program. I consider it to be a pleasure and an honor.



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Our guest speaker, Sanford (Sandy) Kowal, is a member of the law firm of Kowal and Kowal, of Boston, Massachusetts, and he has practiced Management-Labor Relations for over eleven years. Among the clients in the private sector his firm represents are the following:

Avis Rent-a-Car System throughout the United States.

In the public sector, his firm has represented numerous cities and towns in New England. He has negotiated the contracts, advised them on personnel matters and tried their arbitration cases.

He was raised and educated in Newton, Massachusetts.

He was graduated from Bowdoin College in Brunswick, Maine and the Boston University School of Law.

He served as a legislative assistant to a Congressman from Connecticut.

He served as Chief Counsel to the Massachusetts Legislative Commission on Wire Tapping and Eavesdropping and authored the Massachusetts Wiretapping Statute.

He was a First Lieutenant in the United States Army and served as a special agent in the United States Counter-Intelligence Corps in Japan and Korea.

It is a distinct pleasure for me at this time to introduce to you Sanford Kowal Esq. of Boston.

CONTACT MANAGEMENT — CHIEF IN ISOLATION

Sanford Kowal, Esq.

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I am very happy to be here to talk with you about a subject which all of you recognize as most important: your relationship with your unions. It is a new problem and an overwhelming one.

I am happy to see old friends and especially Chief Walter Carter. I represented him and your chiefs in bargaining in Washington. I came to recognize his knowledge and integrity acting under fire, and in witnessing his reaction to extraordinary personal attack under unbelievable pressures over a long period of time. His integrity was tested for five long years, but he never buckled, he knew his duty and his obligations. I have never wished that such attacks be made on me. He used his basic sense of duty with a sense of humor and while he was disappointed in the weakness of other men, he carried on with dignity.

The title of my talk is "Contact Management — The Chief in Isolation." What is happening is deliberate. You are being played upon. You are used for legitimate ends and will be abused when your opponents decide to do so.

You are a Chief and you have learned that you have a responsibility for peoples' lives. As a lawyer I have come to understand this in representing you. The meaning is clear that when all is said and done there is the possibility that someday somebody will be at your feet dead, whether it be a member of your department or a member of the public.

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motions you are not dealing with laborers in the Dept. of Public Works. Firemen are different. The consequences and stakes are not the same. The public, the politicians, the municipal officials, all must be made to realize this.

Politicians are honorable men with a difficult job. They have responsibilities and they can lose their jobs very quickly. The Watergate Hearings show how men in public life are constantly being tested, to make difficult decisions at the moment.

The pressures of a Fire Department in local elections every two years is tremendous. The politicians know this and after all the shouting the matter resolves itself to administration of your department. How do you deal with your men?

What is happening to the Chief. I see that you had a speaker on the "Chief's expanding role." I have dealt with eight or nine of your chiefs in recent years.

Each of these men were different from each other in dealing with the public, each had his own weakness and strength but they had a constancy among themselves in that they shared the same responsibility regardless of the size of their departments. They all understood that they are responsible for Fire Safety in their own communities.

A Chief is a person who has risen through the ranks over a period of years. He knows every man in his department, their wives, children and even relations. Sometimes his men are relatives of his, and when these same men turn on him it is a pathetic thing to witness. Many times the demands are unreasonable. You cannot duck the issue or the man. Consult the chief in your neighboring towns and seek their advice. They could well be consulting you in the near future.

If men do not show up for work, the Chief does not sleep. This is going on everywhere. Absentees depend on off-duty firemen to respond to the second alarm. It is mandatory that they show up.

In one community there was a drop from 30 men to 14. These men were around. That is a Strike in any man's language. The Chief called on the Mayor and told him that he could not guarantee that fires would be taken care of. I know that this has happened in two cities. If it has not happened to you, it will in the future. This is a union tactic. The tactic is to divide and conquer.

If they seek a raise, they tell you not to fight them as you will be taken care of too. The mayor will give the same answer in negotiation. Another tactic is that men may be transferred on the basis of their choice. This is directed against your ability to run your own department.

Both you and the mayor are isolated. Stand by the Mayor and do not sell him out on the economic issue. You should discuss the range with him. Should it be \$300 or \$500 — this year or next year. You can have reasonable disagreements. Remember that you will be in the Department for years while the politicians will be long gone in a few years. You must be fair and loyal to these men and they will be fair with you.

On Speaking Out. In Massachusetts all Fire Chiefs are on civil service or statutory tenure. Everybody knows this. So when the time comes you have to stand and speak your mind on your knowledge of fire fighting and the protection of people's lives.

The Mayor may isolate you. This is another tactic. If I appear as an attorney I might take the heat off if they attack me, they are attacking you. In the matter of promotions you should be concerned with the "senior qualified man" clause in the contract.

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Another tactic is attacking the Chief personally with telephone calls late at night reporting false accidents and picketing a Chief's home.

Everybody knows that when you rise in authority you tend to lose your friends but you never lose the friendship of those who respect you. If you have something which you know should be done, do it with fairness and you will have no cause for regret later on.

In administration you sometimes find that captains and lieutenants are members of the union. This is allowed in most States. This is not your problem however, It is the problem of the men in the union with the divided loyalty. You tell him to do something and then see to it that he does it. Let it be known that you mean what you say. Start with the little things and then go onward. You must run your department through subordinates and with proper planning and courage and the willingness to face men regardless of how long you have known them, let them know that you mean what you say. Treat all men alike. If you give an assignment see that it is done and keep after the man until you are satisfied with the results.

The union is always attempting to force you as Chief to take immediate action. For example: you tell a man to sweep the floor or at a fire you ask him to take a certain position. He says "No." What do you do. The sensible thing is not to discharge him or suspend him at the moment. It would be better to have you ask for his badge and tell him to go home. After the incident is over, then think about it and decide then what to do. If the man refuses to leave the scene, call the police and have him removed. But in disposing of his case, "Do not act out of anger." When you have cooled off, you can order an investigation, or you can suspend him just as effectively as though it was done at the scene.

To summarize you have to be careful about seniority and how it applies, sick leave and how it applies, the Duties Clause, what you can order men to do, transferring an assignment, your ability to save money by not having restricted men on certain equipment at time and one half overtime, on the theory that there should be teams. The latter is easier in the large cities.

In arbitration contracts, the Management Rights Clause. What you may do and under what standards. New legislation is being promulgated for mandatory arbitration of contracts which means that outside third parties will decide what the language means in a dispute, also about the money. There are legitimate union demands for better working conditions, and they have a right to speak out against arbitrary action by management. They have a right to fairness, to be treated as human beings and a fair living for their families.

As for running a department, if a committee wants to run a Fire Department I have no argument with that. If a group is out in front and is prepared to take responsibility for their decisions, then somebody has to look in the face of a widow on the day that her husband died in the course of duty and explain why he is lying on the ground. It is

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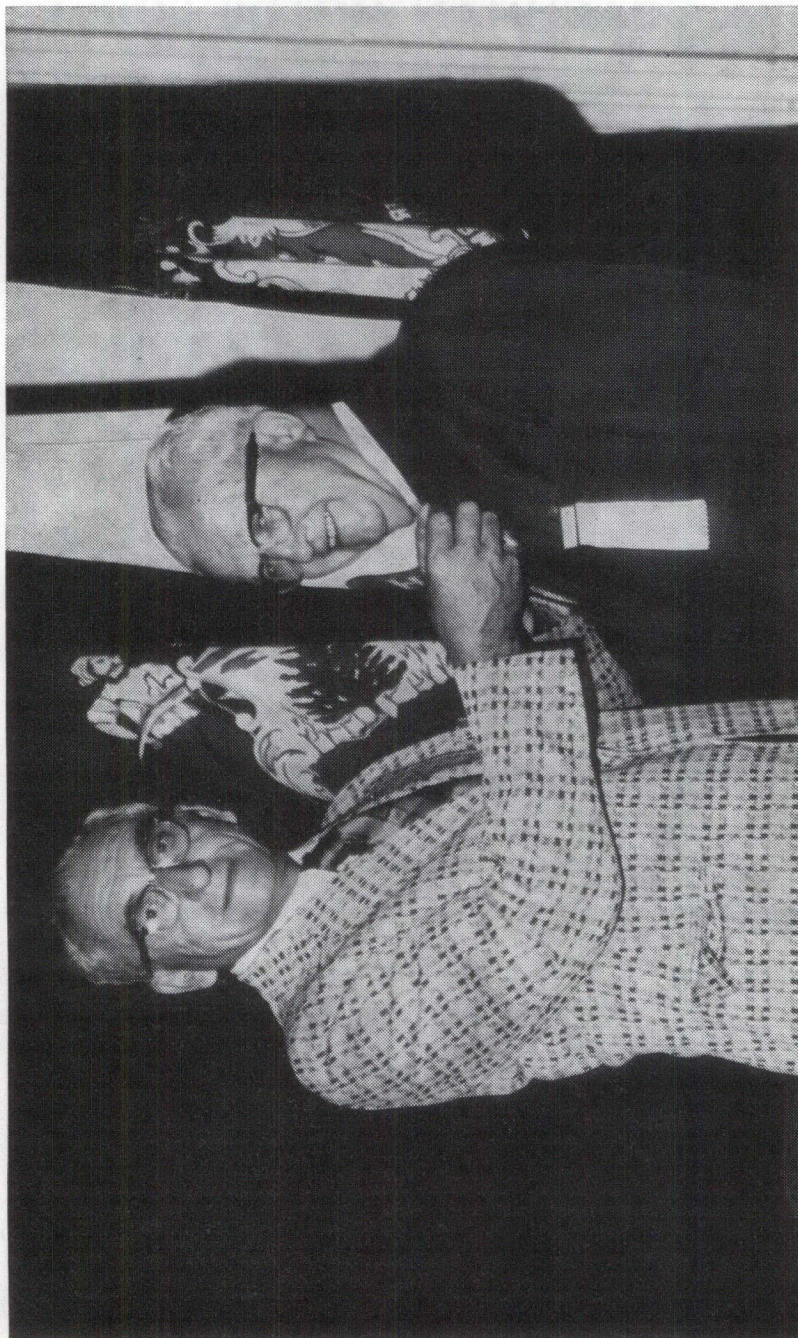
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either you or the Union Bargaining Committee. Somebody has to be responsible. That will be the test of who is to run the department. You are to be tested every day. Thank you.

MODERATOR PAT BROWN: Thank you Mr. Kowal. After Monday's presentation of the expanding role of the Fire Chief, I thought that we were all lost.

Now Mr. Kowal will answer questions.

QUESTION: Comment on the use of pictures.

MR. KOWAL: This is a difficult problem. It must be kept within bounds but as the Chief you have to make up your mind about the program and you are not going to allow every man to take a walk. You have to be fair and the men must know that. They must know that everyone will be treated the same. You take a chance of losing but sometimes when you know that a man is abusing you, you take a chance for the arbitration and make him pay the cost of arbitration.

As I explained to a Chief nobody is sick until you check him off as sick. Doctor's letters and Mayor's letters do not make him sick. You sign the payroll and say that he is sick. You cannot be compelled to say that unless ordered by a judge. So, use your authority. In a tough case request a medical examination. You can send a captain down to see the man and get his opinion. Use your authority fairly.

Accumulated sick leave is a good program. I approve of payments under this program. It helps the older men. When you need him and cannot replace him, it is worth it.

Utilization of manpower is a major problem. You have men for two days and then they are out for three days. This makes training difficult.

As to sick leave be sure that the contract has language allowing you to act in these cases. A doctor is merely an advisor. He merely states that it is his opinion that the man is ill.

Suppose a man tells you that he has a stomach ache. You tell him to take an alka seltzer because you know that he has just worked 14 hours digging a ditch, drove a truck, ate a big dinner and he looked great to you. You feel that the man wants to be off the job. You have a right to say No. You also have a right to an opinion. You know the man's record, and you know your past experience with him. You know more about him in many cases than the doctor.

CHIEF JAMES GROTE of Chester, Conn.: Do you believe that a deputy should belong to the union?

MR. KOWAL: If the deputy asserts union loyalty to you, then you are going to assert your office to him. You have to be prepared to carry that as far as he carries his argument. He may be a friend for years but if you give him an order, you see to it that the order is carried out and if phasing him down is the proper penalty, be prepared to do so. If he knows that you mean what you say, he will perform his duty as directed. If you are about to suspend him, consult a lawyer before taking action and then act.

PROGRAM CHAIRMAN LEDDY: Thank you Mr. Kowal. Mr. Kowal will be around if anyone wants to ask him other questions.



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BEFORE THE FACT — NOT AFTER**Francis P. Scully, Jr.****Scully Electronic Systems****Wilmington, Massachusetts**

Thank you very much for inviting me to be here this morning. I had an incident that happened to me about two weeks ago. My wife and I were sitting out front, discussing the messages of the day. She gave me the regular and expected messages, and then there was a moment of silence. I said:

“What else happened?”

She said: “Well, your son pulled a fire alarm today!”

I said: “My God! I have to speak to the Fire Chiefs of New England in two weeks! It couldn't have happened!”

Well, perhaps there are mitigating circumstances, or I like to think there were. It seems that the children at the school had been talking about a switch on the wall being in an abnormal condition; something was missing. They all said it didn't work. My son

was in the corridor with another boy, arguing about it, and the boy said to my son:

“Will you touch that switch on the wall?”

And my God, he did, and it went on, and as the Chief of Marblehead knows, the only thing that saved the day for me was that my son went immediately to the Principal of the school and said he did it!

I hope that that training helps some day when he goes to Washington.

My subject today is “Before the Fact — Not After.”

Our company has been marketing a device for many years, as Chief Johnson said, and you are all familiar with the signal, the audible whistle in the fuel tank, or a basement tank in New England. Almost every tank has a device, and it has stopped or almost stopped all spills in basements. It would take very little imagination to imagine what would happen without this device nowadays, when people are careless about what they are doing.

Back in 1963, it was obvious to us that while the signal was successful, it didn't work very well in Bunker City. At that point, we developed Dynacheck, and almost every building in Boston now has the device in our commercial-industrial accounts. But this device, as good as it was, was not good enough, in my estimation, to allow us to go to a major oil company or to the fuel oil distributor and put this Scultrol system on top of heavy gallonage in New Haven, Boston Harbor, Montreal and you will never have a spill-out. Luckily, my father had the foresight to develop and invent a philosophy in electronics called Dynacheck, and we are presently incorporating it in our high-level alarm systems.

In essence, we are continuously collecting electronic circuits every second, rather than being passive. Your average control nowadays is passive. Is it going to work at two o'clock in the morning three years from now?

We have marketed this device, and now, we have applied it to many tanks around the country.

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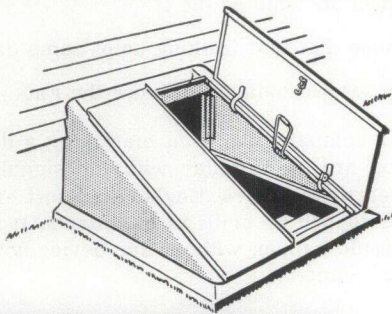
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I would like to stop, now, and give you a simple demonstration of the device, and then go on and tell you about the various applications where it is being used and keep the talk rather short. Anne wants to play tennis, and it's a beautiful day out there.

For the demonstration of the device, I will stand back here near the microphone, so that you can hear me. The Scultrol system points to better alarms and controls, and it can be used in many, many applications. Let me give you one single demonstration to the basic building block, and then carry it through to where we are presently using it around the world, and perhaps you will get some ideas of how it might prevent spills in your area.

I think you can see a flashing light here, and that might be thought of as being your heart beat; as long as your heart is beating, everything is all right. If it stops, it's too bad. Every other system that we know of floats, the so-called passive method. If there is a broken wire, then you get short circuits and electronic failure, and you really don't know that until you have had the spill. But here, we are exercising the system every second.

I have a simple story that I tell, and it is that if one had an automobile in a garage for a year, and perhaps on top of a hill in San Francisco, and you came back at the end of a year, would you bet that you could get into that car and go down the hill and the brakes would work? I believe you would think of it a number of times before you made the bet!

Conversely, if you were driving the car home, let us say, this evening, and you were using the brakes every four seconds, you might be in some danger.

Now, that's rather a crude story, but it gives you an idea of what we have done in the application of electronic controls.

Now, you have probably heard about the Scultrol as being hazardous or non-hazardous. The unique point liquid-level alarm, known by its registered trade name of Scultrol, and containing a miniaturized sensing unit called Sculprobe, is a remarkable simple electronic concept which performs a function that once was complex and fraught with spillage hazards. It enables the driver of the truck making delivery to know precisely when the tank he is filling is at the peak level of fill.

The Scultrol System is an audio-visual safety system that tells the truck driver making the delivery when a tank is safely filled.

A Sculprobe in the tank is connected electronically to a Sculpak which, plugged into a jack on the tank wall, beeps and flashes an amber light while the tank is filling. When the tank is safely filled, the Sculpak emits a continuous sound, and the amber light is out. (illustrating)

Now, that is just a simple demonstration that I have just given to you, and let me continue on and tell you about a few applications that we have done this year in different parts of the country.

Take Boston Harbor, for instance; we use Boston Harbor as an example of high-level alarm, with large tanks on the water-front. We have done two things there.

First, we have made it possible to prevent spills.

Secondly, we have given them an operational control.

They now have so much confidence that they will use their limited storage facilities. There is just no other place to go to build tankage, and they can fill up to 95 per cent

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of being full and if it goes to 98 per cent they will receive a siren. They simply run a wire from the control valves to open and close the valves. Most importantly, if that were not the system of Dynacheck, I am positive there would be a short circuit or a broken wire or something would develop.

There is \$30,000 worth of wiring around there, and the important thing is that we are going to know instantaneously, and in that case it was taken care of immediately.

We are doing the other side of the harbor, making a contribution on the overflow of the storage tanks.

Since this installation in Boston, we have miniaturized our system. I think perhaps the greatest electronic brains in the country or the world, for that matter, are right around New England, and particularly the Boston area.

As I took this invention to other areas of the world for other applications, I would be asked about hanging these things on the wall at a block house in Tulsa, let us say, with really not enough room. So we were pressed to go from that to this (illustrating), using the miniature modularized approach. We can now expand the application. We can merely have a box hidden away and visible to the operator.

Another application of the system as I previously stated is commercial and industrial deliveries. This really pioneered the system in the Boston area, and is now spreading. We are going to get to Toronto. We merely plug this into a building (illustrating), test out the system, lift up the pumping speed, using less trucks, receiving a signal at the top of the tank when to stop, and then they go on their way, and they don't have to spend twenty minutes trying to find the janitor, and furthermore you don't know whether he is drunk or sober.

Here is the next application, the one that perhaps you people are going to really begin to see a lot of in coming years in the terminals in your area. A classic example of this might be Revere.

You have all gone to Logan Airport and found four, five or six terminals loading up, there. You can no longer let the vapors on, on the top of a truck, because those vapors are going off into the wilds of the up-beyond. The authorities are now saying that by a certain date, you must take the vapors off, condensed back into the truck. It is pretty tough to know when to stop.

Here is a man on the ground, filling the truck, hoping to do it economically, but really not knowing when to stop.

We, in our company, are putting forth our greatest efforts in this area, and we are saying that the average manufacturer can attach the hose to the bottom of the truck and do a good job with Dynacheck on top of the truck.

Now, with that application in Revere, we are starting in three or four months, and it is the beginning of the overall success. We are all going to be down the drain unless we do it very well, and I think we will do it very well.

Another application, and something that I have wanted to do for fifteen or twenty years, is to upgrade the average service station. I do quite a lot of traveling. When I go to the middle west and I talk to an executive of the oil company, before I get my mouth open, he asks:

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Then he says that the sun dries out the soil and the gasoline service station truck has to come in there, perhaps a few hours too early; he has to put it in, and they end up with a spill, with a full hose. Then they sit around a little while and two or three cars come through, enough to take the gas out of the hose, or disconnect the hose; that is dependent upon the hour of the day.

So that we have done the first tests of the Sculprobe system, and there is a station here, and one in Chicago. We have used our expensive engineers to do this job. All right. Take Chicago. In making deliveries there, we call the Fire Chief and he delegates a fireman to witness our delivery to the service station. You know what would happen if that spread to the next town and still the next town. So that there is talk of limiting the amount of gasoline service stations, and having a fireman present at the time of deliveries. And, there are enough good reasons for us to continue to bring this into conversion.

The industry is back on its heels, as we all know, and the management is simply responding to what they are being told to do and sometimes at the last second, and it can be incredibly expensive. This, I am sure, will work. It will mean the electronic package and the wiring of the package to the valve. The service station delivery man will drive into the service station, plug in a cord and after about seven seconds the valve on the service station delivery truck will open, giving the flow, and when the lever touches the Sculprobe and forces down the top of the truck, the valve of the truck will stop, and after that he drives away.

That idea is the law in France for about two or three months, and it is beginning to spread, and we feel that we will have a system that will work, here, too.

The Germans have a system which was adopted in 1964 for commercial delivery. They did a horrible job, electronically. It is held in disfavor in Germany and Sweden. The Swedes copy the German laws.

So that even in Europe, starting off in England and Denmark, and then in to France and, hopefully, through to the industry where electronics will apply properly.

Industrially, I might also say that Connecticut is doing the best job in New England, as far as getting on top of the subject is concerned. There is no question but that most of our business comes from Connecticut.

Industrially, people are putting lights on their tanks and industrial areas; they have the investment of several hundred dollars, and no matter who delivers, they will get an alarm and close down that delivery.

In the marine field, which I am drawn to, we have just gotten the Coast Guard this week. Again, being a relatively small company, the development is staggering as to its costs.

Here again, we are working in Perth Amboy, on barge spilling, and we have spent many hours taking the basic invention and applying it to the barges and to the dry-dock, where the system will be applied.

The Coast Guard has to check out each installation.

Then, we will have the spills into the harbor from the barge coming to the shore and the prevention of that, checking it out every second.

An interesting idea has come up in the last four weeks. People like yourselves are wondering: "What are you doing with the smaller tanks?" We are told that the funds are limited

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About four weeks ago, we made the first installation of a new application in England, and that was a Probe outside the tank on the ground. If the tank should leak, we put the Probe at the lowest point outside the tank, and immediately get the alarm. You can say rain water will do that. That is true. You can have two of them for that purpose.

In Nassau County, the Fire Marshals came to me and asked me, wouldn't this be a good idea, and I said: "It's funny that you should say that, because only four weeks ago, we started to work on that idea in England." The Fire Marshal in Nassau County is saying:

"This is great. We don't have to say to the dealer in Oyster Bay to put up a dike, at so many feet."

First of all, he can't go out that number of feet, and he couldn't afford it.

Well, the next few weeks will tell us more about that.

Here is another idea, I am fascinated at the things that a pipe line can do; for instance, to pump 12,000 barrels an hour, or whatever it might be. Down in Georgia, they are trying this out. Several months ago, three people, at two o'clock in the morning, when the man on the site didn't get his mathematics quite right and overflowed the tank and the fumes were terrific, thus affecting the men.

Looking back, getting away at a Conference like this, you have a chance to look at it more broadly. I don't know how many man-hours were cut down there this year, to give them the solution. Still, they haven't accepted. It is not going to go away. I am really quite shocked at how people handle their problems, and the major down there is saying: "Don't do anything. Put high level alarms on."

Well, put on any old door-bell, and it's better than nothing, it is said. If a man puts something on top, there, which is a Mickey Mouse situation, he has a beautiful view, perhaps, but he just believe that he had lousy brakes rather than good ones.

We are telling people to do something. A Manager in Houston, Texas, hopes his situation will go away, and he is spending as little as possible, thinking that it might be good enough, but it is not going to be good enough. This is a strong statement for me to make, but it is going to be a worse situation because of his trying to save money, there, even twenty or thirty years ago. Of course, this man has marvellous excuses. Pipe lines don't talk to the majors who own the tanks; they are two different breeds of men. The pipe line will say: "I only care what's up there, and I'm not responsible beyond that."

"But don't you care about the 12,000 barrels an hour?"

Of course, at that time, they are talking to the lawyers upstairs; they are not talking to the men who are working on the situation. "Our company outside just couldn't afford to carry it along."

I might say for a moment what is coming along in the future. We can pick up a telephone in our office and I can call a station thirty miles away and in seven seconds tell you how many inches of gasoline the service tank holds. You and I know that they are back on their deals. You and I know that. This means that a high school boy can put a stick in the tank, hopefully reading it correctly, hopefully looking at the right chart, and hopefully calling the oil company headquarters to send some more. In the morning one man will then dispatch the gasoline trucks to the service station or stations with the right amount of gas, not too early and not too late.

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MODERATOR JOHNSON: Thank you, Mr. Scully.

MR. SCULLY: That is just a quick panorama of what we are hopefully doing to prevent spills.

MODERATOR JOHNSON: Are there any questions you wish to ask Mr. Scully?

(There were no questions.)

MODERATOR JOHNSON: There will be a caucus in this room right after this meeting is adjourned.

(The Wednesday Morning Session was then adjourned at 11:45 o'clock A.M.)

BANQUET SESSION — JUNE 27, 1973

PRESIDENT HAYES: At this time, Ladies and Gentlemen, we are going to open this Banquet Session. We have a number of things to do here tonight, and we want all of you present to enjoy Tony Bruno's show later in the Regency Ballroom.

Reverend Clergy, Honored Guests at the Head Table, members of the New England Association of Fire Chiefs, Inc. and their lovely wives and Guests and Friends of our Association. This Banquet in connection with our 51st Annual Conference is very well attended again, and I certainly appreciate all of you people being here. This is your Conference, and it is really what you make it, and you are doing a good job at it.

I am going to introduce the head table guests at this time.

Chief Ernie Weeks, Director from the State of New Hampshire.

Chief Sidney F. Lawson, Sr., Director from the State of Vermont.

Chief K. Wayne Murray, Director from the State of Maine.

Joseph R. Cremo of Portland, Maine, our Second Vice-President.

Chief George Bulger, our Sergeant-at-Arms, of Rumford, Maine.

Chief James F. Brennan, our Secretary-Treasure of Salem, Massachusetts.

Chief Earl Andrews, Director from the State of Rhode Island, from Lincoln.

Chief Carl P. Sawyer, Director from the State of Connecticut, of Poquonock Bridge.

Chief Thomas D. Tombeno, Director from the State of Massachusetts, of Concord.

Chief Moise H. Mercier, President of the New Hampshire Fire Chiefs Club.

Chief Albert B. Galfetti, our First Vice-President from Barre, Vermont.

At this time, I want to introduce to you, representing the Mount Washington Hotel, Mr. James Phelan.

MR. JAMES PHELAN: Good evening, Ladies and Gentlemen. On behalf of the Mount Washington Hotel, it is a great pleasure for me to welcome Governor Meskill to the Mount Washington. (Applause) And President Thomas J. Hayes, Retired Chief from New Haven, Connecticut, Chief Lawrence L. Kenney of Miami, Florida, President of the International Association of Fire Chiefs. (Applause)

On behalf of Mr. Cummings, who was unable to be here this evening, I want to thank you for having chosen our hotel for your 51st Annual Conference. We enjoyed

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having your fine organization with us, and we are looking forward to seeing you again in 1974.

Thank you.

PRESIDENT HAYES: Thank you, Jim. And now, you all look so beautiful that I don't really want to single out any women; however, I am going to ask the wives of the officers of our organization, right here in front, to stand up and be recognized.

Mrs. L. L. Kenney, the wife of the Miami, Florida, Fire Chief and President of the International Association of Fire Chiefs.

We also have a stranger here and I would like to have him stand up and be recognized; he is Governor Meskill's legal counsel, Bob Lubar.

At this time, I want to introduce to you and ask him for a few words, Chief Lawrence L. Kenney, President of the International Association of Fire Chiefs, of Miami, Florida.

INTERNATIONAL PRESIDENT L. L. KENNEY of Miami, Florida: Thank you very much, Mr. President, Reverend Clergy, Distinguished Guests, members of the New England Association of Fire Chiefs, Inc. Guests and Friends. It is indeed a pleasure for my wife and me to be here tonight at this festive occasion.

As you may know, our original plans were to come on Monday morning, and go back to Miami. But that would have been a drastic mistake. Now, the south is noted for its hospitality, but the hospitality given to my wife and myself is unbelievable. They have even let me win at golf! They don't let me do that in Florida.

I shall keep my remarks brief, but there are a couple of things that I want to point out, here.

First, all of you are aware of the National Commission on Fire Control and Prevention, which was appointed by the President. Their report has just been submitted to the Congress and to the President. This report is going to change the entire aspect of the thinking of the Fire Service of the country in the near future. It is going to necessitate unity on the part of the Fire Service, and I urge every one to stand up and support the recommendations of the National Commission.

There has been legislation introduced into Congress to implement the recommendations of the Commission, and I do hope that every one here will contact your Congressmen and ask for their support, for this legislation.

There is one other thing that I wish to call to your attention that is going to take place in October in the city of Baltimore, Maryland. The International Association of Fire Chiefs will celebrate its One Hundred Years of Progress Through Service at that time, and it will be probably the biggest event in the history of the Fire Service in the world. We have been working on it for about three years, and one of your members from the New England States, Walter Carter, is on our Centennial Committee. You all know him. This will be an outstanding Conference and I want to invite every one of you to attend the Conference. We have big things in store for you.

We have invited the President of the United States to be at our Conference, and we have also invited the Prime Minister of Canada to be there; hopefully, they both will attend and appear on the program.

I can tell you that I was quite thrilled to know that the Governor of Connecticut was going to be here tonight. This is an indication of the focus placed on the Fire Service today, and in the near future. It calls for us to prepare ourselves to better service the

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citizens of our communities. That is the reason that meetings such as this are so important. We not only learn from our technical sessions, but we also have the opportunity to meet with our old friends and make new friends. I have many friends in the New England Association of Fire Chiefs, and I have made many more friends during these four days.

Words are not adequate to express the appreciation of my wife and myself for the many courtesies extended to us during our stay, here, and this is an experience we shall not soon forget.

It is a real pleasure to be here, and I want to thank you for inviting me to be with you at your 51st Annual Conference.

PRESIDENT HAYES: At this time, I am going to ask our Past Presidents to stand and be recognized.

At this time, I am going to ask Chief Ray Potter of Suffield, Connecticut, the Second Vice-President of the New England Division of International, to come forward, here, to make a presentation. I also ask Chief Kenney to return to the middle of the podium.

CHIEF RAY POTTER of Suffield, Connecticut: President Chief Kenney, on behalf of the members of the New England Division of the IAFC, I want to present to you this memento of your visit with us.

We hope in future years, after you have retired, that when you look at this, you will remember the good times you had here. (Presenting memento to International President Kenney.)

INTERNATIONAL PRESIDENT KENNEY: Thank you.

PRESIDENT HAYES: We have two Visitors from the State of New York Association of Fire Chiefs, and I am not sure whether they are here this evening, Chief Ward A. Bohner, Executive Director of that Association and Otto Friske, a Past President of that Association. (These gentlemen were not present.)

Many times, I know those present here tonight and those who have been present at our banquets over the years may remember that the President, representing the different States of New England, would have on his program that the Governor of his state would be the main speaker, and then again, so many times this did not happen.

I know that you people must feel as I do tonight that we in the little nutmeg State of Connecticut were fortunate in having our Governor set this date and day to be with us. Words alone cannot express to you my feelings for this.

And now, a little background on this gentleman. Back in Connecticut, he is referred to as "tough competition." He is a friend of the Firemen. He is supporting fire-fighting legislation in Connecticut. He is a lawyer in New Britain, Connecticut, and he is a former Mayor of the City of New Britain. He is a former Congressman from the Sixth Congressional District in Connecticut.

He is conducting a vigorous fight against higher utility prices before the Public Utilities Commission and he is moving to reduce and control rising hospital costs by the Hospital Cost Commission.

He was elected Governor of Connecticut by a high vote in 1970. He is a family man, with a wife and five children.

Let me present to you His Excellency, Thomas J. Meskill, Governor of the State of Connecticut.



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**ADDRESS OF HIS EXCELLENCY THOMAS J. MESKILL
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Thank you, President Tom Hayes. International President Kenney, Reverend Clergy, Distinguished Officers and members of this Association, Ladies and Gentlemen. I am really pleased to have been invited to be here with you tonight. It wasn't until a few moments ago that I realized I could have gotten off the hook! (Laughter)

Thank you for inviting me here today and thank you for that kind introduction. It reminds me of a story about Mark Twain and how he once introduced himself to some new neighbors.

He knocked on the door and when the neighbor answered, he said, very politely:

"My name is Clemens; I ought to have called on you before, and I beg your pardon for intruding now, in this informal way — but, your house is on fire!"

Despite Mark Twain's ability to see humor in many situations, I think we can all agree there is nothing funny about fire. In preparing for my remarks tonight, I found out just how serious a problem fire is in the United States. I learned, for instance, that according to the best information available, the death rate from fire in the United States is twice that of Canada, more than three times that of the Scandinavian countries, and four times that of Japan and the United Kingdom.

I was also deeply concerned, but not so surprised to learn, that our per capita property losses are the highest in the world.

To the average citizen, these facts even now seem rather remote, because most Americans have generally been led to believe that we work and live in safe, modern structures and that our Society is doing all it can to reduce the toll of fire. Unfortunately, of course, this is not true and the statistics I just cited are solid evidence to the contrary.

Let me tell you about the first-hand experiences of Bob Steele, a Connecticut Congressman who is working on fire legislation. He says the single, most important factor in his commitment to improving fire legislation was the night he spent in the South Bronx Section of New York City in January of 1972, with Engine Company 82.

Engine Company 82 Firefighters confronted a case of arson and three fires were witnessed during the first hour of Congressman Steele's stay. It responded to a tenement fire in which a baby was trapped. One of the firefighters crawled into the burning apartment and, after rescuing the child, was rushed to the hospital with serious injuries.

Fires like these occur every night in major cities all across the country. A great number of them are never reported in the media and, if they are, they only impress the average citizen when deaths or huge dollar losses are involved, but the danger is there, whether or not the fire makes news.

Media reports do not come anywhere near depicting a day with firefighters. Their profession and problems cannot be adequately described in brief News Bulletins.

Fire is a force which changes the lives of people in a fast and devastating way. In many cases the important part of the story, a part which almost always goes unreported, begins after the fire.

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Fire's devastation of life and property is not comprehended by most Americans.

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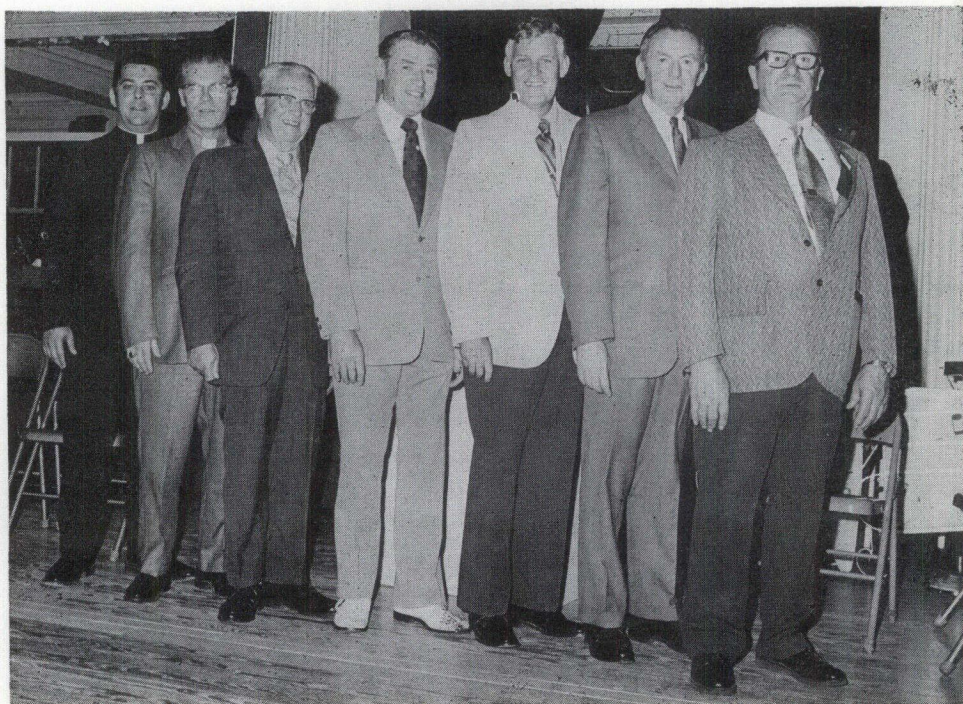
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Some experts estimate that the cost to the nation in fire losses, including deaths, injuries, man-hours lost, property damage and the increasing cost of fire protection, is about one per cent of the gross national product. The enormity of this loss is understandable when we remember that more than 6,600 fires occur daily in our country.

A major new national effort to reduce the fire toll is needed, and I am happy to say that we are making progress.

Since January of 1972, there have been tremendous strides made in Fire Safety and significant progress made toward passing legislation.

The National Republican Party included a Fire Plank in its National Platform last summer in Miami. I served as Co-Chairman of that Committee, and I wholeheartedly supported that Plank. I might note that it was the first time in history that a major political has included a Fire Plank in its National Platform.

President Nixon has also stressed the need for improved public Fire-Safety Education, the need for early Fire Detection and Alarm, and for better equipment for firefighters.

Many Federal agencies have already begun new initiatives which have enhanced our efforts. The National Aeronautics and Space Administration has been working on two programs that hold the promise of supplying firefighters with safer turn-out coats and better breathing apparatus.

The Federal Trade Commission has begun to investigate the problem of poisonous gases that are given off when plastics are burned. The impact of this study is already moving the plastics manufacturing industry. Many companies are looking for new and safer products.

At the General Services Administration, which purchases and leases all the buildings owned by the Federal government, studies of safer building methods have been started. Actions already taken at GSA hold the promise of revolutionizing current high-rise building methods which have caused major fires throughout the world.

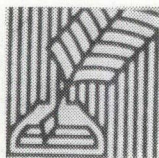
The Department of Commerce has acted to stop the sales of dangerous home furnishings. Many types of carpet fibers have been virtually banned from interstate sales because of flammability. Now, the Commerce Department has started studies to examine possible dangers presented by fibers and materials used in other types of furniture.

The Department of Housing and Urban Development is re-writing the minimum property standards for multi-family housing and homes for the sick and elderly. Officials at HUD hope to emphasize measures to increase life safety through the greater use of fire detection and extinguishment devices. They also may put additional controls on the operation of elevators.

The wheels of government always seem to move too slowly, but at least we have started the moving. The most recent major advance came on March 14th of this year when Representative John W. Davis, Chairman of the Science, Research and Development Sub-committee of the House Science and Astronautics Committee, introduced his own legislation, known as "The Omnibus Fire Research and Safety Act of 1973."

It appears that his Sub-committee will have prime jurisdiction over the fire legislation now before Congress. I am sure that he will soon call for extensive hearings on the fire problem.

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The efforts of Congressman Davis should be applauded and encouraged because he will be the key to whether or not action is taken in the current Congress.

I would emphasize at this juncture that the time has not yet come to argue the fine points of any particular legislative proposal. The first point of focus should be on the critical need for a National Fire Academy in this country. The National Commission's Report spells out the need for such an Academy in a very succinct manner. It says:

"One possible remedy has almost unanimous support with fire suppression and protection fields; namely, a National Fire Academy. What most experts envision is an institution that not only has advanced education programs of its own, but also lends help to state and local training and education programs.

"In addition to conducting classes and seminars at its own facility, the Academy would serve as the hub of an educational network. The Academy system would use existing fire training school programs, fire science education programs in community colleges, and fire management and fire protection engineering programs at the college or university level in each state.

"The Academy would function as the core of the nation's efforts in Fire Service Education, feeding out model programs, curricula and information, and at the same time receiving helpful advice from those schools and the Fire Science."

The Commission Report goes on to list the advocates of a National Fire Academy as the International Association of Fire Chiefs and the International Association of Fire Fighters. It includes as well:

The Committee on Fire Research of the National Research Council,
The Joint Council of the National Fire Service Organizations, and
The National Fire Protection Association (NFPA).

There is wide agreement of the need for an Academy. It is a goal that we should strive for. Our country has been solidly behind a goal of law enforcement. Training opportunities for police officers have been expanded. The same expansion is needed in firefighting.

The National Fire Academy would provide our nation with a continuing focus on fire, but it would also do more. For the first time, it would allow Firefighters to engage in a systematic exchange of information. It would allow them to develop nation-wide programs utilizing new technology and standards.

It would give Volunteer Departments new standards and training. And it would also recognize the dedication and raw courage of the nation's more than two million Firefighters.

If the facts were widely known, few Americans would encourage their children to pursue childhood dreams of becoming firefighters. The work of firefighting has been described as the toughest, dirtiest, most brutalizing and most debilitating work."

To this description, we can add the words: "Most dangerous."

The new channels of communication that would result from the creation of an Academy would benefit every American by reducing the dangers to our Firefighters and, thereby, making them even more effective than they already are.

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School fires have increased 272 per cent since 1959, even with a 10 per cent decrease in the number of schools. It is sobering to think that inadequate safety measures, slipshod enforcement and complacency are still jeopardizing the lives of school children throughout the country.

In another specific area, 11 years ago in Norwich, Connecticut, Firefighters were routinely summoned to the Van-Tassel Leather Company when smoke began pouring out from under the hood of a tractor trailer.

Minutes later, four Norwich Firefighters were dead, and six other individuals were hospitalized with injuries from a major explosion of chemicals. It took this tragedy to stimulate efforts to develop a uniform placarding system for marking dangerous cargoes.

The Department of Transportation and the National Fire Protection Association both made proposals. But sadly, neither one was implemented, and our Firefighters and law enforcement personnel are no better informed of potential cargo dangers today than they were eleven years ago.

These specific examples only serve to illustrate that several times in the past, interest in the fire problem has been intense, and then faded.

Most fires are not the acts of God in the same way that tornadoes and hurricanes are. They are acts of men. To reduce the enormous toll in lives and property damage by fire, it will also require the acts of men.

I pledge to you this evening that I will support your efforts in these important matters on both State and Federal levels. But, we need your help and your support, not just for fighting fires, but for fighting the battle to get the legislation necessary to make your job easier, more productive and much more safe.

Thank you very much for inviting me here this evening!

PRESIDENT HAYES: Thank you very much, Governor Meskill, for your fine message.

PRESIDENT HAYES: We have here in the hall another young lady who, for twenty-eight years, has struggled for us. I would like to have Miss Madeline A. May now stand and be recognized for her fine work for our Association throughout those twenty-eight years.

PRESIDENT HAYES: I am now going to call upon Father Delvaux for the Benediction.

REVEREND AUGUSTE DELVAUX: Let us pray. Heavenly Father, you know that our interests are the needs of our people, regarding fires, and we want to better the lives of our fellow men.

Chief Kenney, tonight, has asked for unity. We can remember that the night before he died, Christ prayed to be one with his Father, and to be one with his disciples. We now pray for the same unity, one with another.

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Heavenly Father, we have been filled with your wisdom, spoken through the centuries, and here today in human words, we pray that this same wisdom will continue beyond the call of this hotel.

We have enjoyed the fellowship, one with another, while at this Conference, and we pray to share the same fellowship with all of our fellow men.

In our endeavors, Heavenly Father, lead us and give us strength. We pray for the blessings of the Almighty. Amen.

PRESIDENT HAYES: At this time, I am going to turn the meeting over to the Chairman of the Exhibits Committee, Ernie Weeks, and we will have the drawing of the prizes. I believe Chief Tombeno will take over at this time.

CHIEF TOMBENO: Ladies and Gentlemen, as you know, you must be in the hall in order to win, when your number is called.

The first prize is from the Hobbs Engine Company, E. H. Jones, Sales Engineer. The winner is Theodore Jellison.

The next prize is from the Pyrotechnic Company, and the winner is Chief Guy Foss of New Hampshire.

The next prize is from the Harrington Signal Company, and it is a half gallon of spirits. Now, can you imagine that; this prize is won by a fellow who doesn't drink, George Bulger!

From the American Fire Equipment Company, the next prize is a fire extinguisher, and the winner is Past President Romeo Monast.

The next prize is from the Light People, and I am sure it is a hand light; the winner is Joseph Ryan.

The next prize is from the Soundscriber Company, Mr. Richard Doremus. The winner is Carl Sawyer.

Next, from the RCA Company, is another fire extinguisher, and the winner is Arthur Stewart.

From the Globe Coat Company, a Nomex coat; the winner of this prize will just send this into the Globe people, with the size, and they will make you a new Nomex coat. The winner is Sidney Lawson.

From the General Electric Company, we have this electric slicer. The winner is Gilbert Chester.

Next, from the Fire Control Services, is another bottle of spirits, and the winner is Eddie Brooke.

From the Rockwood Company, we have a nice prize and the winner is Herman Boyden.

From Akron Brass, Charlie Haines, this prize is won by Chief Killilea.

The next prize is from the Mack Company, and I believe it is another extinguisher; the winner is Carlisle Davis. No, he is not here. The winner is George Labbe.

From Gilbert Kaplan of the Miller Media Sales, Inc. a bottle, and the winner is Chief Edward Creighton.

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Our next gift is from the Motorola Company, and it is a tape recorder, which is a very, very nice gift. The winner is Charles Redmond.

From the Bar-Way Company, a lounge chair, and the winner is Robert Wilder.

Next, from the L. W. Bills Company of Lexington, a smoke guard dectector, and the winner is Clifton Thompson.

The next prize from Eastern Coach, the winner is Francis Walker.

From the Lyon Uniform people, the next prize is a jacket. You send your name and your size to the company and they will make this jacket for you. The winner is Russell Montgomery.

From the General Electric Company, the next prize is a desk set, won by Chief Al Kimball.

From the Apparatus Company, Charles Beckler, representative for Vermont and New Hampshire and northern Massachusetts, the next prize is a fire extinguisher, and the winner is the Cardinal himself, Jim Grote!

The next prize is a 20-inch fan, and I cannot seem to find out who gave it to us. George Salisbury is the winner.

The next prize is from the Roberts Company and Thomas J. Moore is the winner.

From the American Fire Equipment Company, this prize is won by Henry Lawton.

From the Gamewell Company, this prize is a little fire lamp, and the winner is Theodore Moses of Ipswich.

This prize from Tip O'Neil is won by William McCarthy.

This prize from the Farrah Company is marked "Very Fragile," and it is won by Arnold Butler.

The next prize is a first-aid kit, and we are having difficulty in finding out who gave it to us, but somebody is going to win it. The winner is Albert P. Knapp.

The next prize is a coat from Ed Fay of Scituate, Massachusetts, and the winner is John Carrigan.

From Bob Allen of the R. B. Allen Company, the next prize is won by Paul Lahey. Are you lucky? There are four jugs in there!

The next prize is a car stereo, with a tape recorder and it is from Sandall Industrial and Fire Apparatus Company in Concord, New Hampshire. The winner is Philip Monroe.

Next is a hand light from the Apollo Light Company, and the winner is Harry Lamson.

The next prize, from the Maxim Company, is won by John Tweed.

We have a prize, here, from the Charles Flaherty Company, and it is won by Leo Ferrari.

The next prize is from the hotel, the Mount Washington Hotel, and it is a nice little music box, and the winner is Chief Armand Dugas.

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The final prize is a portable television set, given to us by the American District Telephone Company, ADT, and the winner is Frank Sweeney.

Ladies and Gentlemen, we want to thank you for your attention, and we also want to say "Thank You" to the Charles Flaherty Company for loaning us the equipment used during the parade.

Enjoy the rest of the evening in the Regency Ballroom with Tony Bruno's orchestra and the show!

THURSDAY MORNING SESSION — JUNE 28, 1973

The Thursday Morning Session convened in the Regency Ballroom of the Mount Washington Hotel, Bretton Woods, New Hampshire, on June 28, 1973 at ten o'clock, with President Thomas J. Hayes presiding.

PRESIDENT HAYES: The meeting will please come to order. In view of the fact that both of our Chaplains have left the hotel, we do have a Cardinal within our Connecticut group, and at this time I am going to ask "Cardinal" Grote to come up here and give the Invocation.

CARDINAL GROTE of Connecticut; Gentlemen, it is a privilege to be here and to give the Invocation.

Almighty God, we call upon you to protect us and our dear ones, and we thank you for this wonderful Conference. We pray and we ask you to watch over us and guide us until we meet again, and to protect our families of whom we think so much.

Almighty God, we thank you for all of your blessings you have bestowed upon us.

Let us have peace on earth and good-will to men, Amen.

(Chief Grote then led the audience present in the Pledge of Allegiance to the Flag.)

PRESIDENT HAYES: The first order of business this morning will be a report of our Secretary, Chief James F. Brennan of Salem, Massachusetts.

REPORT OF THE SECRETARY — 1973

Chief James F. Brennan

To the Officers and Members of the New England Association of Fire Chiefs, Inc., I herewith submit the Annual Report of the Secretary for the year ending May 31, 1973.

Your Officers and Committees held two meetings since our last Annual Conference. The first, on October 30, 1972, was held at the Sheraton-Tara Motel in Braintree, Massachusetts, and the second one was held at Bishop's Restaurant in Lawrence, Massachusetts on May 7, 1973.

At both meetings, matters relating to the Association were discussed and the plans for the 1973 51st Annual Conference were formulated. Both meetings were well attended by the Officers and Members of the Conference Committee.

During the year, all association business was handled promptly by your President and Secretary. A full and complete report of the two Officers' meetings will appear in the 1973 Book of Proceedings of the Association.

Your Secretary, with the help of the Officers and Directors, answered all calls for

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the sick and departed members of the Association. Your President and Secretary represented the Association at several testimonials of retiring members and presented the retirees with Honorary Life Membership in the Association.

Please do not hesitate to call upon your State Director or any Officer of the Association for any help or information concerning the Association or in any matter in which we may assist you. I would urge you all to notify your State Director or Secretary at once in case of any death or illness of any member.

The dues are coming in fine and we urge each of you who have not paid your dues to send them along. Your officers exhort all of you to seek new members. The number of retiring members exceeds the number of new members, so let's try to swell our ranks by bringing in some new members.

As of May 31, 1973, our membership stands at 1,227, a loss of three over last year.

Maine	60
New Hampshire	101
Vermont	59
Massachusetts	464
Rhode Island	88
Connecticut	180
Outside New England	36
Honorary Life	235
Life	6

New members added during the year 1972-1973:

Maine	5
New Hampshire	4
Vermont	1
Massachusetts	24
Rhode Island	3
Connecticut	15

Total of new members 52

During the year 1972-1973, the following changes were made in the membership roster:

New members added	52
Lost by death	17
Lost by resignation	2
Lost by non-payment of dues	14

All members removed for non-payment of dues were notified at least four times by your Secretary of their arrears and were removed in accordance with Article 5, Section 2 of the Bylaws.

All requests for Honorary Life Membership, for those members meeting the requirements of the Association's Bylaws, were acted upon at the two Directors' meetings.

I have done my utmost to act promptly upon all requests for Association data and to expedite any and all requirements of your Secretary.

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It has been a privilege to serve you during the year, and with your continued support and cooperation, we can make our Association greater in the years ahead. To all members and to the Officers and President Thomas J. Hayes, my sincere thanks for your help and assistance.

Respectfully submitted,

James F. Brennan, Chief
Sec.-Treas., NEAFC

You have just heard the report of your Secretary. What is your pleasure?

CHIEF V. PAUL LEDDY of Hamden, Connecticut: I move that the report of the Secretary be accepted as read.

(This motion was then duly seconded by a Vermont Chief; there was no discussion and the motion was carried, unanimously.)

PRESIDENT HAYES: The next order of business is the report of our Treasurer, by Chief James F. Brennan.

ANNUAL REPORT OF THE TREASURER — 1973

Chief James F. Brennan

To the Officers and Members of the New England Association of Fire Chiefs, Inc., I herewith submit the Annual Report of the Treasurer for the year ending May 31, 1973, pursuant to Article 3, Section 4 of the Bylaws:

RECEIPTS

Balance on hand, Checking Account June 1, 1972	\$2,706.23
Sale of extra ladies' gifts	85.00
1972 Conference Registration fees	4,220.00
Return of change money to account	151.30
Three (3) life memberships	300.00
Dues collected 1972-1973	4,600.00
1972 net Exhibit receipts	2,112.00
C. H. Clougherty, 1/3 cost of Conference badges	65.66
D. G. Deane, 1/3 cost of Conference badges	65.67
J. L. Murphy, 1/3 cost of Conference badges	65.66
H. M. Quinlan, Red Book Account	3,500.00
Hotel Wentworth over-payment refund	9.00
Transfer from Hingham Cooperative Bank	463.36
Transfer from Hingham Institute for Savings	437.29
Return from Bretton Woods Expenses	30.00
Deposit in checking account (Loan on payment of ladies' gifts)	988.49
Sidney Construction Company contribution	250.00
Hingham Cooperative Bank, Interest	385.00
	<hr/>
	\$20,434.66
Receipts	\$20,434.66
Expenses	17,771.68
	<hr/>
	\$ 2,662.98

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June 1, 1973

Merchants-Warren Bank, Salem, Mass. Checking Account	\$2,662.98
Hingham Cooperative Bank, Certificate Nos. 1749 and 2659	7,000.00
Total	<u>\$9,662.98</u>

EXPENDITURES

Flowers and tributes	\$ 234.07
Contribution — Vendome Fund	200.00
1972 Annual Conference Expenses	9,007.76
1973 Annual Conference Expenses to date	332.59
Officers and Committee Expenses	1,132.29
Printing and Postage	1,380.84
Office Supplies	123.53
Commonwealth of Mass. filing annual report	5.00
Rent on Safety Deposit Box	9.50
100 Lapel Association Pins	445.10
Re-payment of Loan on Ladies' Gifts	1,000.00
Conference badges	232.62
Fire Engineering Subscription	8.00
Refund of dues and "Ad"	77.50
Insurance	48.00
Ladies' Gifts	1,373.50
Federal and State Tax and Social Security	559.14
Salary, less tax and Social Security	1,602.24
	<u>\$17,771.68</u>

PRESIDENT HAYES: You have heard the verbal report of your Treasurer.

CHIEF JAMES L. GROTE of Connecticut: I move that we accept the report of the Treasurer.

CHIEF WALTER H. CARTER of Lynn, Massachusetts: I will second the motion, and congratulate the Treasurer.

CHIEF ALBERT W. KIMBALL of Hingham, Massachusetts: Just to make the record authentic, I believe that we should have the Auditor's Report, first.

PRESIDENT HAYES: Will the gentlemen who made the motion and seconded it please withdraw it until we hear from the Auditor.

CHIEF JAMES L. GROTE of Connecticut: I will withhold my motion until we hear the report of the Auditor.

PRESIDENT HAYES: All right. Then, at this time, we will have the report of the Auditor, Chief Galfetti of Barre, Vermont.

CHIEF GALFETTI: This is the Auditor's Report. We found everything in good shape. Is that all right? (Laughter)

PRESIDENT HAYES: You have heard the brief report of the Auditor. What is your pleasure?

CHIEF GEORGE BULGER of Rumford, Maine: I move that the Auditor's Report be accepted, Mr. President.

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(This motion was then duly seconded by Chief Dunn of Middletown; there was no discussion, and the motion was carried, unanimously.)

PRESIDENT HAYES: We will now act on the Treasurer's Report.

CHIEF JAMES L. GROTE of Connecticut: I move that the report of the Treasurer be accepted as read.

EX-CHIEF WALTER H. CARTER of Lynn, Chief Emeritus: I will second the motion.

PRESIDENT HAYES: You have heard the motion, which has been duly made and seconded. Is there any discussion? If not, all those in favor of the motion will please signify by saying "aye." Those opposed by the opposite sign?

(The motion was carried, unanimously.)

PRESIDENT HAYES: It is a vote, and I so declare it.

At this time, we will hear from our Reservations Committee Chairman, Chief James F. Cassavant.

REPORT OF RESERVATIONS COMMITTEE

Mr. President, and members of the New England Association of Fire Chiefs, I hereby submit the report of the Reservations Committee for the 51st Annual Conference at Bretton Woods, New Hampshire:

Sunday, June 24, 1973

Mount Washington Hotel	341 Persons
Motor Inn Lodge	90 Persons
Fabyan Motel	45 Persons
Crawford Hotel	73 Persons
<hr/>	
Total	549 Persons

Monday, June 25, 1973

Mount Washington Hotel	380 Persons
Motor Inn Lodge	109 Persons
Fabyan Motel	43 Persons
Crawford Hotel	49 Persons
<hr/>	
Total	581 Persons

Tuesday, June 26, 1973

Mount Washington Hotel	309 Persons
Motor Inn Lodge	114 Persons
Fabyan Motel	35 Persons
Crawford Hotel	50 Persons
<hr/>	
Total	588 Persons

I wish to thank the members for their cooperation with this Committee.

Respectfully submitted,

James F. Casavant
Carl P. Sawyer
John F. McCue

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PRESIDENT HAYES: You have heard the report of the Reservations Committee. What is your pleasure?

CHIEF GUY FOSS of New Hampshire: I move that the report of the Reservations Committee be accepted.

(This motion was then duly seconded by Chief Tombeno of Concord, Massachusetts; there was no discussion, and the motion was carried, unanimously.)

PRESIDENT HAYES: The next report is that of our Exhibit Committee, and the report will be given by Chief Ernie Weeks of Portsmouth, New Hampshire.

PARTIAL REPORT OF EXHIBIT COMMITTEE

Chief Ernest W. Weeks
Chairman

Mr. President and members of the Association. The following is a statement of the Exhibit Committee, subject to last minute changes as of this date:

Total checks received and deposited	\$4,537.00
Total checks due at Bretton Woods	867.50
	<hr/>
Total Expected Receipts	\$5,404.50
Total Expenses, including two checks for refunds, booth contractors, and other expenses	\$1,781.21
	<hr/>
	\$3,623.29
Less \$250.00 check issued to me for expenses	250.00
	<hr/>
Total balance expected to be turned over to Secretary-Treasurer as profit ..	\$3,373.29

A final report will be made as soon as all expenses and/or cancellations are finalized.

Ernest W. Weeks, Chief
Chairman, Exhibit Committee

PRESIDENT HAYES: Gentlemen, you have heard the Report of our Exhibit Chairman. Do I hear a motion for the acceptance of this report?

CHIEF KOLTONSKI of Vermont: I move the acceptance of this report, Mr President.

(This motion was then duly seconded by several of the members present, and was carried, unanimously.)

PRESIDENT HAYES: At this time, we will hear the report of the Program Committee by Chief V. Paul Leddy of Hamden, Connecticut.

REPORT OF THE PROGRAM COMMITTEE

Chief V. Paul Leddy, Chairman

Gentlemen, I want to thank all the members of the Association for their fine attendance at our programs. I also want to thank the members of the Program Committee, Chief John Devine, Chief Joseph Cremo, Chief Ray Potter, for their fine assistance on the program.

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And, while I am still giving out thanks, here, I want, also, to thank our speakers and the Moderators as they all did a fine job; I won't mention all of their names, because they are complete, on your programs; they did an excellent job in putting our program over.

I want to say, too, that I think our programs were very well attended, in spite of the things that were going on here, such as golf, tennis, the pool and everything else. I have heard quite a few good reports, and I feel greatly pleased about that.

May I also speak about something that paid off for me this past year on the Program Committee. I want to mention at this time that I think the Program Chairman should get ideas from you fellows, and I did, this past year, and it worked out very well. So, send in your ideas to the Program Chairman and give him an inkling of what you would like to hear. This is what we did this year. Most of the program was built around your suggestions, and let me say that I did get a good response in that respect.

Thank you.

PRESIDENT HAYES: You have heard the report of the Chairman of the Program Committee. What is your pleasure?

CHIEF JAMES L. GROTE: Mr. President, I don't want to keep popping up all the time, but I move at this time that we accept that wonderful report.

(This motion was then duly seconded by several of the members present; there was no discussion, and the motion was carried, unanimously.)

PRESIDENT HAYES: It is a vote, and it is so ordered.

The next report will be that of Registration Chairman, Chief Robert F. Ulm of Easthampton, Massachusetts.

REPORT OF REGISTRATION COMMITTEE

Chief Robert F. Ulm
Chairman

Your Registration Committee supplies the following report for the 51st Annual Conference of the New England Association of Fire Chiefs, Inc.

On Sunday, June 24, we registered 208 active, 12 associate, 36 male guests, 188 female guests; a total of 444.

On Monday, June 25, we registered 60 active, 11 associate, 37 male guests, 69 female guests, 2 new members, total of 179.

On Tuesday, June 26, we registered 37 active, 7 associate, 9 male guests, 18 female guests, 6 new members, for a total of 75.

On Wednesday, June 27, we registered 13 active, 1 associate, 3 female guests, a total of 17.

The total for all days was 715, and we received \$5,745.00 in registration fees.

PRESIDENT HAYES: Gentlemen, you have heard the report of the Registration Committee. What is your pleasure?

CHIEF REID of Massachusetts: I move that we accept the report of the Registration Committee.

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(This motion was duly seconded by a Chief from Connecticut and other members present; there was no discussion and the motion was carried.)

PRESIDENT HAYES: It is a vote, and it is so ordered.

We are now going to hear the report of our Entertainment Coordinator, who is also our Sergeant-at-Arms, Chief George Bulger of Rumford, Maine.

REPORT OF ENTERTAINMENT COMMITTEE

Chief George Bulger
Chairman

Your Entertainment Committee this year was made up of Chief Galfetti of Barre, Vermont, Chief Sidney Lawson of Montpelier, Vermont and myself as Chairman.

As you have noticed, I am referred to this morning, Gentlemen, as Coordinator, and I do like the sound of the word, for in the case of the entertainment this year, we, as the Committee, would like to be able to take credit for the entertainment given, but regretfully, we cannot, because all of the entertainment this year was provided by the Management.

I have no other report, other than what most of you already know, but I think you will have to admit, those who have been here since Sunday and until last evening, that we were thoroughly entertained.

On behalf of my Committee and myself, I want to thank you for your attendance at our entertainment, thus making this Conference a most successful one from every point of view, and especially the entertainment.

Thank you very much!

PRESIDENT HAYES: You have heard a verbal report of our Entertainment Coordinator. What is your pleasure?

CHIEF PAUL LONG of Hampton, New Hampshire: I move that we accept the report of the Entertainment Committee, with thanks, for they did a good job.

(This motion was then duly seconded by several of the members present; there was no discussion, and the motion was carried, unanimously.)

PRESIDENT HAYES: It is a vote, and it is so ordered.

At this time, Gentlemen, we go into the heart of our meeting, and one of the reasons you were called here for this meeting this morning.

These are my last few words, after more than twenty years of coming to these Conferences.

I have had more than one hundred per cent cooperation from my committee people, and from my dear wife, Evelyn, who headed the Ladies' Committee this year. To all of those ladies who so willingly worked with my wife, the Ladies' Committee Chairman, to the Management here at the Mount Washington Hotel who have been at our beck and call, I want each and every one of you to know that I appreciate all of your help, and much more than I can really tell you.

I cannot help but mention the heart of the organization, our Secretary-Treasurer, Jim Brennan, for Jim has carried the weight through the year by telephone at Salem, with me down in Connecticut, and we have tried to do a good job.

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Last year, at the Fiftieth Conference, I said that I was stepping into a challenge so great that it went back twenty-two years, to the time I was made Chief of a small town Department. I feel, now, that this challenge was great, but both Mrs. Hayes and I have enjoyed every minute of it. Yes, we have even enjoyed the butterflies, for somehow or another we all get them.

Now, we have had this Conference, and we certainly have enjoyed ourselves, but without a team, my officers and my committees, the Ladies' Committee, we never could have done this. It is not a one-way street; it is not a one-man job; we need the help and the cooperation of each and every one of you, and by your attendance here this week and by your attendance here this morning to complete our program, it is necessary for the good of this Association, the New England Association of Fire Chiefs, Inc.

I am stepping down today, and I still hope that the officers will call on either myself or Mrs. Hayes for any help that we can extend to the newer officers, to make sure that this is one of the finest fire organizations that is known.

At this time, I believe the Chairman of our Conference Site Committee for 1976 should make a report, even if I didn't have it down here on my itinerary, and I am going to call upon Chief George Bulger of Rumford, Maine, to report of the Conference Site Committee.

REPORT OF CONFERENCE SITE COMMITTEE

Chief George Bulger
Chairman

Thank you, Mr. President. The Conference Site Committee this year was made up of Chief Carl P. Sawyer, I will say, of Groton, Carl, because I don't know the name of the bridge, and myself as Chairman.

As the President has already told you, I acquired an additional hat, and as a consequence of that, I have delegated to Chief Carl Sawyer the responsibility of making the report of the 1976 Report of the Conference Site Committee. If I may, Mr. President, I will ask Chief Sawyer to come to the podium at this time to make that report.

CHIEF CARL P. SAWYER: Gentlemen, George asked me to give you this report. When you all registered for the Conference, you received a questionnaire. This was the result of a discussion that took place in the Board of Directors. We felt the first thing we should find out was what the members wanted for a Conference Site. We have had no recommendations as to which site. Our Secretary has received invitations for the Conference. This was a guideline to us.

I should like to give you the result of the questionnaires. There was a total of 232 replies submitted.

The first question was: Do you prefer urban places such as Boston, Hartford, etc?

There were 13 replies that said they would.

Secondly: Do you prefer areas like The Wentworth, The Mount Washington, Cape Cod, places away from the urban areas?

We had a total of 215 replies in favor of those areas.

There were four persons who replied that it was immaterial.

On that question, we did not specifically ask the location of the site.

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Some of the replies came back, having certain locations that we have been to. Some of them were complimentary and some were derogatory. We have not attempted to tabulate these at this time.

From these results, it is quite apparent that an urban area was not desired but it was a resort area that was favored, and on this, the Conference Site Committee will act, after you make your selection regarding the invitations which the Secretary has received.

CHIEF GEORGE BULGER: Thank you, Chief Sawyer; we appreciate that report. The President will act upon it, as President of the organization when the agenda calls for that subject to be considered.

PRESIDENT HAYES: I think we should take a vote on the words of Chief Sawyer; however, it will be my recommendation that the incoming President bring up the matter in the proper place on the agenda for the group to decide at this meeting.

At this time, I should like to ask for an acceptance of the report of the Conference Committee Site.

CHIEF HARRY AUDLEY of Westport, Connecticut: Mr. President, I move that this report be accepted.

(This motion was then duly seconded by the Chief of Saugus, Massachusetts; there was no discussion, and the motion was carried, unanimously.)

PRESIDENT HAYES: It is a vote, and it is so ordered.

The next order of business is the Election of Officers. I now await your nominations for the office of President of this Association for the 1973-74 year.

CHIEF ALFRED KOLTONSKI of Rutland, Vermont: Mr. President, I wish to place in nomination for the office of President of this Association the name of Chief Albert Galfetti of Barre, Vermont. You know what kind of an entertainer he is; you heard him sing the other evening.

A CHIEF from Vermont: I will second the nomination of Chief Galfetti.

CHIEF DANIEL R. HOWARD of Bellows Falls, Vermont: Mr. President, I move that nominations for President be closed, and that the Secretary cast one vote for the election of Chief Albert B. Galfetti as President of this Association for the ensuing year.

(This motion was then duly seconded by several of the members present, and was carried, unanimously.)

PRESIDENT HAYES: The Secretary having cast the vote, I declare Albert B. Galfetti duly elected as President of this Association for the ensuing year.

(The Sergeant-at-Arms then escorted President Albert B. Galfetti to the podium.)

PRESIDENT ALBERT B. GALFETTI: I want to thank every one in the New England Association of Fire Chiefs, Inc. for bestowing upon me the honor of the Presidency of this organization.

I came up the hard way. I was a rookie fireman, Lieutenant, Captain, and Chief, and that was really quite a thrill. And now, this is the highest position that the fire-fighters can bestow upon a person, and I appreciate it very much!

President Hayes may have had butterflies, but I have, too.

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So at this time, I am going to present the Past President's pin to Chief Thomas J. Hayes of New Haven, Connecticut!

Now, as you know, up in Barre, Vermont, we have the best granite in the world. Our Mayor is in the granite manufacturing business, and I asked him to make a plaque for us to present to our Past President, and I now present the plaque to Chief Thomas J. Hayes, our Immediate Past President. (Applause)

IMMEDIATE PAST PRESIDENT THOMAS J. HAYES of New Haven, Connecticut: Chief Al, now Mr. President, I shall keep this with me for those who would like to see it. I assure you that it will have a prominent place in our home.

And, I shall wear the Past President's Pin most proudly. As I said before, I want to be with you for many years; yes, a hundred per cent, and I want to contribute everything that I can to this organization of ours, for it is such a wonderful organization to be with.

Thank you very much!

PRESIDENT GOLFETTI: Our next order of business is the nomination of a First Vice-President.

CHIEF THEODORE A. JELLISON of Bangor, Maine: Mr. President, it gives me a great deal of pleasure to place in nomination the name of Chief Joseph R. Cremo of Portland, Maine, to be our First Vice-President.

CHIEF WILFRED N. ROSENBLAD of Westbrook, Maine: Mr. President, it is a pleasure to second that motion for Chief Cremo to be our First Vice-President for the coming year.

(The nomination was then duly seconded by several of the members present.)

PRESIDENT GOLFETTI: Are there any further nominations for the office of First Vice-President?

CHIEF from Bath, Maine: I move that nominations be closed, and that the Secretary cast one ballot for the election of Chief Joseph Cremo to be our First Vice-President for the ensuing year.

(This motion was then duly seconded by several of the members present, was carried, unanimously.)

(The Sergeant-at-Arms then escorted Chief Joseph Cremo to the podium.)

FIRST VICE-PRESIDENT JOSEPH R. CREMO of Portland Maine: Thank you for the honor, Gentlemen. I will do my very best to serve you in this Association, and to work with our President and all of the officers and committees during the next year! (Applause)

PRESIDENT GOLFETTI: Nominations are now in order for a Second Vice-President for the ensuing year.

CHIEF HARRY SCHNEIDER of Agawam, Massachusetts: It is a great honor today to give you the name of Chief Edward Borowiec of Chicopee as the nominee for the office of Second Vice-President. Chief Ed has been a hard worker in our Association. He is the President of our Western Massachusetts Chiefs, and he is also the President of the Hampden County Mutual Aid. He has worked with the Governor on Education, and we think, in Western Massachusetts, and I hope that you will go along with me, here, that he can lead us. (Applause)

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CHIEF WILLIAM J. MAINS of Lawrence, Massachusetts: I suggest that we close the nominations and that the Secretary cast one ballot for Ed Borowiec of Chicopee, and I so move.

(This motion was then duly seconded by several of the members present, and was carried.)

(The Sergeant-at-Arms then escorted Chief Ed Borowiec of Chicopee to the podium.)

SECOND VICE-PRESIDENT BOROWIEC: Gentlemen, thank you for this opportunity to serve you, and I assure you that I will exert every effort for the betterment of our Association. Thanks, again! (Applause)

PRESIDENT GOLFETTI: Next on the agenda is the nomination of a Treasurer. Do I hear a nomination for Treasurer?

RET. CHIEF ALBERT W. KIMBALL: Mr. President, I nominate Jim Brennan for the office of Treasurer.

CHIEF KOLTONSKI of Rutland, Vermont: I will second the nomination of Chief Jim Brennan for the office of Treasurer.

FROM the Floor: I move that nominations be closed and that the President cast one ballot for the election of Chief James F. Brennan as Treasurer of this Association for the ensuing year.

(This motion was then duly seconded and was carried, unanimously.)

PRESIDENT GOLFETTI: I declare Chief James F. Brennan duly elected as Treasurer for the coming year. (Applause)

Nominations are now open for the office of Secretary.

CHIEF JAMES L. GROTE of Connecticut: I wish to nominate one of the best Secretaries we have ever had, and this is not to say anything about the past one, and my nomination is for Jim Brennan, as Secretary for the coming year.

(This nomination was then duly seconded by many of the members present.)

CHIEF WILLIAM HANSON of Needham: Mr. President, I move that nominations be closed, and that the President cast one ballot for the election of Chief James F. Brennan to serve as Secretary of this Association for the ensuing year.

(This motion was then duly seconded by Chief Frederick H. Reid of Chelmsford and other members present, and was carried, unanimously.)

(Chief Brennan was then escorted to the podium by the Sergeant-at-Arms.)

SECRETARY-TREASURER JAMES F. BRENNAN: Gentlemen, thank you very much for your confidence in my ability. (Applause)

PRESIDENT GOLFETTI: We now come to the election of a Director from the great State of Maine.

CHIEF TED JELLISON of Bangor, Maine: Mr. President, I would like to nominate Chief Wayne Murray of Cape Elizabeth to be the Director from the State of Maine.

(This nomination was then duly seconded by several of the members present.)

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CHIEF NORMAN KENNEY of Bath, Maine: I move that nominations cease and that the Secretary cast one ballot for the election of Chief Murray as Director from the State of Maine.

(This motion was then duly seconded by several of the members present, and was carried, unanimously.)

(Chief Murray was then escorted to the podium by the Sergeant-at-Arms.)

CHIEF WAYNE MURRAY of Maine: Thank you, Gentlemen. I will do my best for the Association, and it is a great pleasure to be voted in by you. Thank you again!

PRESIDENT GOLFETTI: We now come to choosing a Director from New Hampshire.

CHIEF GUY FOSS of Wolfeboro, New Hampshire: It is a privilege and a pleasure for me to nominate Chief John Devine of Manchester, New Hampshire, as Director from the State of New Hampshire.

CHIEF LONG of Hampton: It is a pleasure and an honor for me to second the nomination of Chief Devine.

CHIEF ERNEST WEEKS of Portsmouth, New Hampshire: Mr. President, I move that nominations be closed, and that the Secretary cast one ballot for the election of Chief Devine to be the Director from New Hampshire.

(This motion was then duly seconded by several of the members present, and was carried unanimously.)

(Chief John Devine was then escorted to the podium by the Sergeant-at-Arms.)

CHIEF JOHN DEVINE of Manchester, New Hampshire: Thank you Gentlemen. This is my second time around in this position, and I want to thank you for the confidence you have in me. (Applause)

PRESIDENT GOLFETTI: Next is the nomination of a Director from the State of Vermont.

CHIEF KOLTONSKI of Rutland, Vermont: Mr. President, I wish to place in nomination the name of Chief Patrick Brown of Burlington, Vermont.

EX-CHIEF FRANCIS WALKER of Bennington, Vermont: I will second the nomination of Chief Brown, Mr. President.

CHIEF GEORGE GIBBY of Vermont: Mr. President, I move that the Secretary cast one ballot for the election of Chief Pat Brown for the office of Director from the State of Vermont.

(This motion was then duly seconded by several of the members present, and was carried, unanimously.)

(Chief Pat Brown was then escorted to the podium by the Sergeant-at-Arms.)

CHIEF PAT BROWN, Director from Vermont: Thank you, Gentlemen. Everybody has made a little speech, telling you what they're going to do. My job is going to be to watch them! Thank you again!

PRESIDENT GOLFETTI: We now come to the election of a Director from the State of Massachusetts.

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CHIEF BLOOMQUIST, of Arlington, Massachusetts: It is my pleasure to present to this Association for the position as Director from Massachusetts, by unanimous acclamation from the State, Chief Gerald A. Carle of Dracut, Massachusetts.

(This nomination was then duly seconded by several of the members present.)

CHIEF ROBERT F. ULM of Easthampton, Massachusetts: Mr. President, I move that nominations cease, and that the Secretary cast one ballot for Chief Gerald A. Carle to be the Director from Massachusetts for the ensuing year.

(This motion was then duly seconded by many of the members present, and was carried, unanimously.)

(Chief Gerald A. Carle was then escorted to the podium by the Sergeant-at-Arms).

CHIEF GERALD A. CARLE, Director from Massachusetts: Mr. President, members of the Association and Fellow Fire Chiefs. I want to thank the Massachusetts delegation for nominating me, and I want to thank the members of the Association for electing me. I shall do my best and follow the footsteps of my predecessors and work for the organization and for the President already elected.

PRESIDENT GALFETTI: From Connecticut, the Chair will receive nominations for the Office of Director of that State.

CHIEF V. PAUL LEDDY of Hamden, Connecticut: Mr. President, I would like to place in nomination the name of Chief Carl P. Sawyer of Poquonock Bridge, as the Director for the State of Connecticut.

CHIEF JAMES L. GROTE of Connecticut: Mr. President, one good man follows another. I second the nomination of my dear friend from Poquonock Bridge. Some of you fellows don't even know how to pronounce his town. I second the nomination of Carl P. Sawyer.

FROM THE FLOOR: I move that nominations cease, and that the Secretary cast one ballot for the election of Carl P. Sawyer of Poquonock Bridge as Director from the State of Connecticut.

(This motion was then duly seconded, and was carried, unanimously.)

(Chief Carl P. Sawyer, Director from Connecticut, was then escorted to the podium by the Sergeant-at-Arms.)

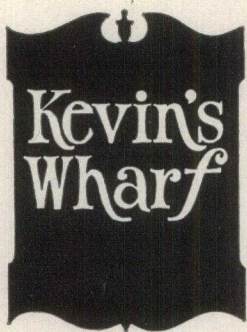
DIRECTOR CARL P. SAWYER of Connecticut: Certainly, I received the loudest nomination! During the Memorial Address, Father Delvaux made reference to changes by design rather than changes by chance. I am sure we will remember those words, thus moving our Association along further.

Thank you for your support!

PRESIDENT GALFETTI: We have one more nomination which is to come from the little State of Rhode Island.

CHIEF HENRY W. LAWTON of Saylesville, Rhode Island: I would like to place in nomination the name of Chief Earl Andrews of Lincoln, to be the Director from Rhode Island for the ensuing year.

CHIEF HENRY J. MONGEAU of Lonsdale, Rhode Island: I would like to second the nomination of Chief Earl Andrews to be the Director from Rhode Island for the coming year.

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CHIEF SAMUEL E. ANGELL of Cumberland Hill, Rhode Island: Mr. President, I move that nominations be closed, and that the Secretary cast one ballot for the election of Chief Earl Andrews to be the Director from Rhode Island for the ensuing year.

(This motion was then duly seconded by several of the members present, and was carried, unanimously.)

(Chief Earl Andrews, Director from Rhode Island, was then escorted to the podium by the Sergeant-at-Arms.)

DIRECTOR EARL ANDREWS of Rhode Island: Gentlemen, I want to thank you all, including the Rhode Island delegation, for voting for me as Director from my State, and I assure you that I will do my very best to carry out all of the duties of Director for the State of Rhode Island.

PRESIDENT GOLFETTI: We now come to the setting of the salary of the Secretary. What is your pleasure?

CHIEF LAWRENCE LAMSON of Hamilton, Massachusetts: Mr. President, I move that the salary of the Secretary be the same as it has been.

(This motion was then duly seconded by several of the members present, and was carried, unanimously.)

PRESIDENT GOLFETTI: Next, a motion is in order for the setting of the salary of the Treasurer.

CHIEF GUY FOSS of Wolfeboro, New Hampshire: Mr. President, I move that the salary of the Treasurer be the same as last year.

(This motion was then duly seconded by several of the members present, and was carried, unanimously.)

PRESIDENT GOLFETTI: We now come to the changes in the Bylaws, as proposed in the Monday Morning Session. Our Secretary, Jim Brennan will again read these proposed changes in the Bylaws.

SECRETARY BRENNAN: Thank you, Mr. President. As you know, we had a special meeting Monday morning to read to you and explain the proposed change in the Bylaws. I am going read the proposed changes again as follows:

"Article V. Membership. Section 1. The membership shall consist of: A. Active; B. Associate; C. Honorary Life; D. Life. A. Active Members—Active Chiefs, and Ex-Chiefs of Fire Departments, Fire Commissioners, Chiefs or Superintendents of Insurance Patrols and Chiefs of Private Fire Departments. Dues \$10.00 annually, payable in advance on June 1st of each year. B. Associate Members—City or Town Officials, Assistant or Deputy Chiefs or members of fire departments, individuals representing firms and corporations interested in the protection of life and property against fire. Dues \$10.00 annually, payable in advance on June 1st of each year."

I move these changes in the Bylaws, Mr. President.

PRESIDENT GOLFETTI: You have heard the changes in the Bylaws as just read to you, and you have heard the motion to accept these changes. Do I hear a second to that motion?

CHIEF V. PAUL LEDDY of Hamden, Connecticut: I will second the motion.

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PRESIDENT GOLFETTI: You have heard the motion, which has been duly seconded. Is there any discussion? Hearing none, all those who in are favor of the motion to accept the changes in the Bylaws will please signify by saying "aye." Those opposed by the opposite sign?

(There was a chorus of "ayes" and the motion was carried.)

QUESTION: What is the effective of those changes?

SECRETARY BRENNAN: In 1974. The dues for this year have already gone out, so that this will be for 1974 and 1975.

FROM THE FLOOR: Then, they might pick up another member at the \$5.00 dues?

SECRETARY BRENNAN: Yes.

PRESIDENT GOLFETTI: The next item on the agenda is the selection of the 1976 Convention Site, and I am going to call upon Secretary Brennan to tell us about the letters of invitation he has received.

SECRETARY BRENNAN: I have received a few letters. The first one, I received last night, from Mount Snow, Vermont. We also have a proposal from The Sagamore, at Lake George, New York, addressed to our former Secretary, Al Kimball, and he forwarded the letter to me. Invitations were also received from The Wentworth and the Mount Washington Hotel.

(Secretary Brennan then read the letters of invitation for the 1976 Convention Site, from the four places as mentioned by him in the above paragraph.)

PRESIDENT GOLFETTI: Gentlemen, you have the report of our Secretary as to Conference Sites for 1976. What is your pleasure?

CHIEF HARRY W. SCHNEIDER of Agawam, Massachusetts: Mr. President and members of the Association. I think it would be unthinkable, with what we have had here this year, to think about going anywhere else. Therefore, I move that we accept the invitation of the Mount Washington Hotel for 1976.

CHIEF McCABE of Medford: I will second that motion.

PRESIDENT GOLFETTI: Gentlemen, you have heard the motion that we come back here to the Mount Washington Hotel in 1976, and this motion has been duly seconded. Is there any discussion?

Hearing none, all those who are in favor of the motion to return to the Mount Washington in 1976 will please say "aye." Those opposed by the opposite sign?

(There was a chorus of "ayes" and the motion was carried.)

PRESIDENT GOLFETTI: Is there any new business to come before the Conference, Gentlemen?

QUESTION: Which is the Association going to accept, of the dates available?

SECRETARY BRENNAN: You are quite correct; there are two dates, June 27 through June 30, and June 20 through June 24.

CHIEF GUY FOSS of Wolfeboro, New Hampshire: Mr. President, I move that we take June 20 - 24, 1976 at the Mount Washington Hotel.

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PRESIDENT GOLFETTI: Will those dates conflict with the New York State meeting?

CHIEF THOMAS NOLAN of Saugus: Mr. President, I move that we hold the June 27 - 30 date for 1976.

PRESIDENT GOLFETTI: There is a motion already before the house.

CHIEF JAMES O. STEVENS of Weymouth, Massachusetts: Mr. President, I will second the motion for the June 20 - 24 dates in 1976 at Mount Washington.

PRESIDENT GOLFETTI: The previous motion has now been seconded. Is there any discussion on this motion?

Hearing none, all those who are in favor of the motion will please signify by saying "aye." Those opposed by the opposite sign?

(There was a chorus of "ayes" and the motion was carried.)

SECRETARY BRENNAN: We have some people in the International who are running for high office, and we have a letter from the Southwestern Division of IAFC, written in favor of their choice for Second Vice-President.

Another one endorsing Thomas Nolan, and I shall read the endorsement from the New England Division of the International.

(Secretary Brennan then read from the Southwestern Division of IAFC, and the endorsement of Chief Thomas Nolan of Saugus, Massachusetts.)

RETIRED CHIEF of North Reading: Mr. President, I would like the honor of thanking the New England Association of Fire Chiefs, Inc. for making me an Honorary Member of this Association. It is certainly a great honor. I have retired, and I do appreciate it.

CHIEF LEO McCABE of Medford, Massachusetts: Mr. President and Gentlemen. I have the extreme pleasure to present to you a request that Chief Tom Nolan be endorsed by this Association for the office of Second Vice-President of International, and I would appreciate a seconding of it.

(This request was then duly seconded, put to a vote by President Galfetti, and was carried.)

PRESIDENT GOLFETTI: At this time, do we have anything from the Resolutions Committee?

CHIEF HARRY AUDLEY of Westport, Connecticut: Mr. President, I wish to present the following resolution to the members present here.

BE IT HEREBY RESOLVED: That the New England Association of Fire Chiefs, Inc., at their 51st Annual Conference in June, 1973, go on record in requesting all possible support from the National Health Institute and other agencies in the continuation of the Harvard Medical School's study of "Smoke Inhalation" and of the need for more of such studies in order to protect the lives and health of the nation's population.

I would like to have this Resolution sent to the International Association of Fire Chiefs, as well as the National Health Institute.

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PRESIDENT GOLFETTI: You have heard the report of the Resolutions Committee. What is your pleasure?

CHIEF CARL P. SAWYER of Connecticut: Mr. President, I move the adoption of this resolution, and that the resolution be sent to the International Association of Fire Chiefs and the National Health Institute.

(This motion was then duly seconded by Chief Leo McCabe and other members present, and was carried, unanimously.)

PRESIDENT GOLFETTI: Does anyone have anything for the good of the Association?

CHIEF RAY POTTER of Suffield, Connecticut: Mr. President, the New England Division of the IAFC would like to borrow the State Flags, to be used in the Centennial Parade down in Baltimore. We are thinking of having a Color Guard, and I thought that it might be a good idea to use the State Flag. Would that be permissible for the New England Division to use the State Flags?

CHIEF GEORGE BULGER of Rumford, Maine: I wish to move that we grant the request made, and that the custody of the property be in the hands of the requester, because the property at the present time is here, and something has to happen between now and October, so that we would ask that as a part of the motion, that the Chief making the request in regard to our property will return it to where it will be picked up in June of 1974.

PRESIDENT GOLFETTI: Will you see that these Flags are well taken care of, in accordance with the motion just made?

CHIEF RAY POTTER of Connecticut: Yes.

(This motion was then duly seconded by several of the members present, and was carried.)

CHIEF RAY POTTER of Connecticut: Once again, Mr. President, the New England Division of the IAFC would like to thank the New England Association of Fire Chiefs, Inc. for relinquishing Monday Morning to us for the Division meeting. Also, I want to thank you all for the courtesies extended to our International President, Chief Kenney of Miami. (Applause)

PRESIDENT GOLFETTI: Gentlemen, is there any new business to come before this meeting?

RET. CHIEF WALTER H. CARTER of Lynn, Massachusetts: Mr. President, I would like to move that this Association go on record as favoring that the report of the Presidential Commission on Fire Control and Prevention that was so nicely described by the Governor of Connecticut last evening at the Banquet — I would ask that a copy of it be forwarded to Congressman Davis, whose full title I do not have, but I know our good Secretary can check it out. Also, that a copy be sent to Don O'Brien, General Manager of IAFC in Washington, D. C.

CHIEF KNAPP: I will second that motion. I think this is an opportunity that we have waited a long time for, and I think that we should go on record in that manner.

PRESIDENT GOLFETTI: Gentlemen, you have heard the motion which has been duly seconded. Is there any discussion on the motion? If not, all those who are in favor of the motion will please signify by saying "aye." Those opposed by the opposite sign?

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(There was a chorus of "ayes" and the motion was carried, unanimously.)

PRESIDENT GOLFETTI: Is there any further business to come before this meeting?

CHIEF LEO McCABE of Medford: Mr. President, I would like to put before the body a motion that the President appoint a Constitution and Bylaws Committee to review the Constitution and Bylaws and to make any corrections necessary for the good of the Association, and that these changes be presented to the body in the form of a report in order that we may up-date our Constitution and Bylaws to meet the current, changing times.

(This motion was then duly seconded by many of the members present, and was carried, unanimously.)

PRESIDENT GOLFETTI: Is here any further business to come before this meeting?

If not, I have the pleasure of making three or four appointments at this time.

For Sergeant-at-Arms, I appoint Chief George Bulger of Rumford, Maine. I think that he does a bang-up job on anything he undertakes, and he will perform his duties in a manner befitting, as Sergeant-at-Arms!

As Press Representative, I appoint Frank Mahoney of the Boston Globe!

As our Chaplains, I appoint Reverend Charles F. Hood of Beverly, Massachusetts, and Reverend James Beauregard of Barre, Vermont. He is a big man and very much interested in fire fighting.

As Associate Surgeon, I appoint Dr. Carl Irwin of Bangor, Maine.

PRESIDENT GOLFETTI: Is there any further business at this time?

CHIEF GEORGE BULGER of Rumford, Maine: If there is no further business, I move that we adjourn this 51st Annual Conference of the New England Association of Fire Chiefs, Inc.

(This motion was then duly seconded by several of the members present, and was carried, unanimously.)

PRESIDENT GOLFETTI: I declare this 51st Annual Conference of the New England Association of Fire Chiefs, Inc. adjourned.

(Adjournment at 11:45 o'clock A.M. on June 28, 1973.)

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ARTICLE I

THE OFFICERS

Section 1. The officers of this corporation shall consist of a President, First Vice President, and Second Vice President, a Secretary, Treasurer and a Vice President for each of the six New England States who shall hold their offices for one year or until their successors are elected. All of said officers shall be elected by ballot at the annual meeting. Following the first election of officers, none but active members "Active Chiefs" shall be elected to office. Provided, however, that all officers elected at the first election in a retired status, may continue to hold such office subject to uninterrupted re-election to that office. A candidate for election as a State Vice President must be a resident of the particular State concerned.

ARTICLE II

THE BOARD OF DIRECTORS

Section 1. There shall be a Board of not more than twelve (12) Directors, consisting of the President, First Vice-president, Second Vice president, Secretary, Treasurer, the Vice-president from each state and the immediate past President as a Director for one year. The Board shall meet at the time and place designated by the President. Only the actual expenses of the Board shall be paid by the corporation. Each member of the Board shall have one vote, even though he be a member by virtue of holding more than one office notwithstanding.

Section 2. Three members of the Board of Directors, selected by the President, shall constitute the Auditing Committee.

ARTICLE III

DUTIES

Section 1. It shall be the duty of the President to preside at all meetings of the corporation and the Board of Directors, and perform such other duties as may be incident to his office.

Section 2. It shall be the duty of the Senior Vice-President to perform the duties of the President during his absence.

Section 3. It shall be the duty of the Secretary to keep a complete record of the proceedings of special and annual meetings of the corporation, the meetings of the

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Board of Directors; and the standing committees, of which he shall be an ex-officio member; to receive and answer all communications pertaining to the corporation; cause to be prepared a full report of the proceedings of each annual meeting, which report shall be printed in pamphlet form and one or more copies mailed by him to each member of the corporation within ninety (90) days of such annual meeting.

He shall receive all communications, contributed papers on topics, etc., designed to be presented to the meeting. He shall collect all monies due the corporation and pay the same over to the Treasurer previous to final adjournment of the annual meeting and all at other times when funds in his possession amount to One Hundred (\$100.00) Dollars taking his receipt therefor and shall keep a correct account of the same.

He shall also employ such assistance as he may need for the collection of dues at the annual meetings and report the proceedings of the same and other such expenditures for clerical assistance at other times as may be approved by the Auditing Committee, and he shall execute a bond to the corporation in the sum of One Thousand (\$1000.00) Dollars to be approved by the Board of Directors, the expense of procuring the same to be borne by the corporation. The salary of the Secretary to be fixed annually at the meeting of the corporation. He shall also perform such other duties as shall be assigned to him by the President and Board of Directors. He shall at all times retain a sufficient sum in his possession to defray the necessary incidental expenses of the office, but he or any other officer shall not assume an indebtedness exceeding One Hundred (\$100.00) Dollars without the approval of the Board of Directors. The Secretary shall have in addition all the powers and duties of a, "Clerk", under the Laws of the Commonwealth of Massachusetts. He shall be a resident of Massachusetts as required by said Laws. He shall be sworn to the faithful performance of his duties upon taking office.

Section 4. The Treasurer shall have the custody of the funds of the corporation; he shall receive all monies from the Secretary except what is necessary for the expenses of the latter's office, giving his receipt therefor; keep a true account of all monies received and disbursed; pay all the bills after the same have been approved by the Auditing Committee, signed by the President, and countersigned by the Secretary; and at the Annual Meeting of the corporation make a full and correct report of the same, and he shall execute a bond to the corporation in the sum of Two Thousand (\$2,000.00) Dollars, to be approved by the Board of Directors, the expense, if any, of procuring same to be borne by the corporation. The salary of the Treasurer shall be fixed annually by the corporation at its annual meeting.

Section 5. It shall be the duty of the Board of Directors to transact all the business of the corporation during the time intervening between the annual meetings. They shall have the full power to expunge from the minutes before printing, anything that is objectionable to the corporation or its members. They shall make arrangements for adequate means of transportation for carrying members to and from the place of holding the annual meetings of the corporation, following their election, and communicate such arrangements to the members by letters, circulars and otherwise. The Board of Directors shall fill any vacancies occurring by death or otherwise during the time from one annual meeting to another; and may by vote of two-thirds of the total number of Directors remove any officer for cause. A quorum of five (5) Directors shall be required to transact any business. The Board of Directors shall have the power to make charitable donations, including memorial

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ARTICLE IV

ANNUAL MEETING

Section 1. The annual meeting of the corporation shall be held each year during the month of June at such place as the annual meeting three years prior thereto shall designate, and upon such date in the month of June as the Board of Directors and Chief of Fire Department of the city in which the annual meeting shall determine, and twenty members shall constitute a quorum to transact business. The first annual meeting making the designation following the passage of this amendment shall designate the place of the annual meeting for each of the three years next following said meeting.

Section 2. Special meetings of the corporation may be called by the Board of Directors upon at least ten (10) days notice by mail to the members, said notice stating the time, place and purpose of said special meeting.

Section 3. Chiefs inviting the corporation to hold its annual meetings in their cities may understand that the corporation expects and requires that their cities may furnish, without cost, a hall suitable for holding the sessions of the corporation, an exhibition hall of ample size to accommodate the apparatus, equipment, etc., that may be reasonably expected to be offered for exhibition, and suitable grounds for testing of pumpers, trucks and other apparatus and appliances. The necessary fire engines, hose, nozzles and a sufficient number of men to carry out the tests as may be required by the Exhibit Committee. The exhibit hall and the testing grounds shall at all times be under the sole control of the Exhibit Committee and under such rules as they may adopt. Entertainments, such as the Entertainment Committee may wish to arrange for, must not interfere with the business program of the corporation.

Section 4. Nothing in Section 1 shall be construed as prohibiting the Board of Directors in case of extraordinary emergencies from changing the place of meeting.

Section 5. A registration fee shall be charged every person registering at the annual meeting, the amount to be determined by the Board of Directors.

Section 6. The Board of Directors shall have full power to levy an assessment and collect from the members an amount sufficient to cover the entire expenses of the annual meeting.

Section 7. The President shall appoint all committees, and all standing committees shall be appointed at the first session of each annual meeting.

Section 8. Time as specified by the Exhibit Committee shall be reserved for the exhibitors to display their various articles and improvements in fire apparatus.

Section 9. All papers to be presented to any meeting of the corporation shall be forwarded to the Secretary thirty (30) days prior to date of such meeting; and he may cause them to be published without expense to the corporation in the Fire Journals of the country.

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Section 10. The Secretary and Treasurer of this corporation shall receive such sum for his services in both offices if he shall be one and the same person, or their services if the offices be held by different persons such sums annually as may be fixed by the corporation at the annual meeting.

Section 11. A portion of the first day of the annual meeting shall be set apart for the holding of services in memory of deceased brothers.

Section 12. The election of officers and the selection of the place for holding the annual meeting shall take place on the last day of the annual meeting.

ARTICLE V

MEMBERSHIP

Section 1. The membership shall consist of: A. Active; B. Associate; C. Honorary Life; D. Life. A. **Active Members**—"Active Chiefs", and Ex-Chief of Fire Departments, Fire Commissioners, Chiefs or Superintendents of Insurance Patrols and Chiefs of Private Fire Departments. Dues \$5.00 annually, payable in advance on June 1st of each year. B. **Associate Members**—City or Town Officials, Assistant or Deputy Chiefs or members of fire departments, individuals representing firms and corporations interested in the protection of life and property against fire. Dues \$5.00 annually, payable in advance on June 1st of each year. C. **Honorary Life Members**—Honorary Life Membership may be conferred upon active members upon their retirement from office, provided they have been members of the corporation or its predecessor, the New England Association of Fire Chiefs for a period of five years immediately preceding the date of their retirement, and provided further that they are not identified with fire protection—from a commercial standpoint. Honorary Life Membership carries all the privileges of active membership without dues. D. **Life Membership**—First. Individuals, firms and corporations interested in the protection of life and property against fire shall be eligible to life membership upon payment of \$100.00. Second. The corporation may, by a majority of the members present at the annual meeting, elect any associate member to life membership without payment of any fee; and any member so elected shall thereafter be exempt from dues for life.

Section 2. No member who is in arrears for dues and assessments for one year shall be entitled to vote at any meeting of the corporation, and any member who is in arrears for two consecutive years shall be dropped from membership.

Section 3. Associate and Life Members shall be entitled to all the privileges of membership in the corporation except the right to vote.

Section 4. Applications for all classes of membership shall be first approved by the Credentials Committee. A majority vote of the corporation members, present and entitled to vote shall be required for election to membership.

Section 5. The Secretary shall not register or give a badge or extend any courtesies of the annual meeting to any member whose dues and assessments are not paid to date in full. This provision does not apply to those members not required to pay dues, representatives of the press and those persons accompanying members who are permitted to attend the meetings as guests of members.

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Section 6. All members of the New England Association of Fire Chiefs, a voluntary association organized July 12, 1922, are hereby made members of this corporation in the same class of membership which they now hold in said Association, subject to their acceptance of said membership and the rights and duties incident thereto.

Section 7. No member shall be expelled from membership by vote of less than a majority of all members of the corporation, nor by a vote of less than three-fourths (¾) of the members present and voting on such expulsion.

ARTICLE VI

AMENDMENTS OF BY-LAWS

Section 1. This corporation shall have full power at a meeting called for that purpose, to alter, amend or repeal these By-Laws, but the same shall not be done except by a vote of two-thirds of the members present and entitled to vote at said meeting. However, no such proposed amendment shall be considered that has not been presented and read at a previous meeting of the corporation.

ARTICLE VII

RULES OF ORDER

Section 1. The presiding officer shall preserve order and decorum. All questions of order shall be decided by him, subject to an appeal by any member.

Section 2. In the decision of any question coming before the annual meeting for which no provisions are made in the By-Laws, the presiding officer shall be governed by the rules laid down in Cushing's Revised Manual of Parliamentary Law.

Section 3. Every member, when he speaks or offers a motion, shall rise in his place, properly identify himself, and respectfully address the presiding officer and when finished shall resume his seat. He shall confine himself to the question under debate, avoid all improper personal references and indecorous language.

Section 4. When two or more members shall arise to speak at the same time, the presiding officer shall decide who shall have the floor.

Section 5. A member called to order by the presiding officer shall immediately cease speaking on the question before the house, and shall not resume his remarks until the question is settled.

These By-Laws adopted on September 23, 1959.

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Bagley, Henry W., Chief, Princeton
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Berry, Ted, R.F.D. #2, Livermore Falls
Bitomski, A. R., Assistant Chief, Kittery
Brown, Ralph J., Chief, Cumberland Center
Bulger, George A., Chief, Rumford — Past President 1968-69
Butters, Robert, Chief, Norway
Chandler, John, Chief, Gorham
Clark, Ronald F., Chief, Brewer
Cleaves, Freeman G., Chief, Ex-Chief, Falmouth
Cremo, Joseph R., Chief, Portland
Dodge, Harold A., Chief, 19 West St., Boothbay Harbor
Dolley, Ernest C., Retired Chief, Westbrook
Edwards, Harold R., Chief, South Paris
Elkins, E. A., Deputy Chief, Freeport, Maine
Estes, John W., Assistant Chief, Westbrook
Eugley, Bertrand I., Chief, Lincolnville
Finch, Ralph B., Berwick
Fortier, Raymond E., Chief, Bath Iron Works, Bath
Fullerton, Cecil L., Retired Chief, Bath
Gardner, Clinton E., Chief, East Machias, Maine.
Garriepy, Paul B., Chief, Biddeford
Gibson, Ralph S., Chief, York Beach
Good, Garth L., Ex-Fire Marshal, 388 Sawyer St., South Portland
Gorman, George, Chief, South Berwick
Hall, Ralph S., Bethel
Hanson, P. T., Deputy Chief, Naval Shipyard Fire Dept., Kittery, Maine
Harmon, Eldred H., Chief, Scarborough
Herrin, Norman A., Chief, Lucerne-in-Maine
Higgins, John R., Chief, Bar Harbor, Maine
Holman, Chief Redlon, Jr., Augusta
Hoyt, Chief Walter G., Eliot
Irwin, Carl W., M.D., Association Surgeon, 316 Main St., Bangor
Jellison, Theodore A., Chief, Bangor
Kenney, Norman, Chief, Bath
Kittredge, Russell, Pier Rd., Cape Porpoise
Knight, Wesley H., Director Public Safety, Orano
Labbe, George, Chief, Brunswick
Leighton, Donald E., 2nd Assistant Chief, Westbrook
MacKinnon, George, Kennebunkport
MacNevin, Charles W., Chief, Lincoln
Marchildon, Donald, Supervisor Fireman Training, Augusta
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Oxton, Robert M., Chief, Camden
Pitney, C. E., Chief Naval Shipyard, Kittery
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Raymond, Robert W., Chief Sturgeon Fire Brigade, York Harbor
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Rosenblad, Wilfred N., Chief, 52 Brook St., Westbrook
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Smith, Thomas A., Chief, Old Orchard Beach
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Leclair, Normand, Lieutenant, Brattleboro
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Shute, Leonard, Deputy Chief, Amesbury
Silva, Antone M., Chief, Edgartown, Mass.
Silva, Manuel F., Chief, East Bridgewater
Simons, Shep, Uniforms, Lynn
Sitnik, John J., Chief, Millville
Skinner, Clarence E., Chief, 51 Spring Street, Plainville
Slaney, L. E., Chief, Hanover, Mass.
Slein, John E., J. E. Slein Co., Inc., Dedham
Smiddy, Earl, Turnpike Rd., Fayville
Smith, Darrell D., Chief, Marshfield
Smith, Edward H., Smith Automatic Sprinkler, South Hadley
Smith, Raymond K., Chief, Aulbert Paper, South Lee
Smith, Vincent J., Fire Dept., 30 High St., Everett
Sneider, Joseph G., State Fire Marshal
Snyer, John B., Chief, Bedford
Sorensen, Raymond L., Chief, Stoneham
Spellman, Walter F., Jr., Chief, Lexington
Stanley, Norman W., Ast. Chief, Whitinsville
Steff, Howard N., American LaFrance, Register Rd., Marion
Stetson, M. D., Co., Janitors Supplies, 64 E. Brookline St., Boston
Stevens, James O., Chief, Weymouth
Stevenson, James A., Fire Department, Reading
Stewart, Arthur P., Chief, Hopkinton
St. Germain, Albert, Chief, Peakham Road, Sudbury.

St. Onge, Joseph, Pyrotector, Inc., Hingham
Storey, William, Clougherty Co., Medfield
Stover, Howard, The Farrar Co., Worcester
Sturtevant, Harold F., Chief, Groveland
Sullivan, John A., Sec. Mass. State Firemans Assn., Boston
Sullivan, John J., Dist. Chief, 73 Burt St., Dorchester
Sweeney, George H., Chief, Bridgewater
Swett, W. J., Call's Alarm Central Station, Chelsea
Tapper Club of Boston, Inc., Boston
Tattam, John J., Captain, Fire Dept., 384 Prospect St., Cambridge
Taylor, Robert W., Retired Commissioner, Brookline
Teece, Robert D., Chief, Randolph
Teele, Bruce W., N.F.P.A., Boston
Tenney, Robert A., Chief, Braintree
Thayer, Vincent R., Chief, Bellingham
Theodore, Gus., Fire District No. 1, Palmer
Thomas, Hawley D., Sales Engr., The Gamewell Co., Newton Upper Falls
Tluszc, Ludwik S., Chief, Sandisfield
Tibbetts, J. Bruce, 1 Campbell Circle, Tewksbury
Tilton, Everett E., Chief, Vineyard Haven
Togneri, Francis C., Chief, Turners Falls
Tombeno, Chief Thomas D., Concord
Tolos, James M., Fire Protection Engr., Fitchburg
Toomey, John J., Deputy Chief, West Springfield
Tracey, John P., Ex-Chief, 12 Church St., Great Barrington
Trottier, Roland J., Deputy Chief, Bellingham
Tuck, Charles A., Jr., N.F.P.A., Boston
Tyler, Bartlett, Cohasset
Ubertalli, James A., Commn. Holyoke
Ulm, Robert F., Chief, Easthampton — President 1969-70
Vaughan, Hugh F., Directory Safety, B&M R.R., North Billerica
Walker, Harold S., Marblehead
Ward, John J., Chief, Millis
Warfield, R. D., A.D.T., Boston
Weeks, Harold E., Chief, Barre
West, John B., Chief, Kingston
Whalen, Chief George F., Maynard
Whalen, Ward G., Retired Chief, Pittsfield
White, George A., Grinnell Sprinkler Co., Inc., 131 State St., Boston
White, Joseph T., Chief, Dighton
White, Manuel A., Retired Chief, 21 Tremont St., Provincetown
White, Ralph H., Retired Chief, Auburn
Whittemore, Dana H., Chief, Yarmouth
Wiggin, J. Herbert, Chief, 703 High St., Westwood
Wilson, Waldo, Chief, Carlisle
Winterbottom, Lawrence W., Chief Tisbury Fire Dept., Vineyard Haven
Winters, G. Roland, Assistant Chief, Marion
Wirzburger, Albert H., Chief, Whitman
Wood, William E., Fire Commission, Hudson
Woods, Cyril F., Chief, North Wilbraham
Woodsmall, John R., Deputy Chief, Sterling
Woodworth, Miles E., N.F.P.A., Boston
Young, Murray, Wakefield
Zimmerman, Joseph W., Box 18, Winchester

RHODE ISLAND

Abreu, John F., Chief, Middletown
Andrews, Earl, Lincoln
Angell, Samuel E., Chief, Cumberland Hill
Aylward, Thomas, Deputy Chief, North Kingstown
Arcand, Raymond J., Chief, Johnston
Ballou, I. A. Jr., Ward LaFrance Fire Apparatus, 178 Adams Point Rd., Barrington
Batchelder, Earl H., Ex-Chief, 34 Steere Ave., Centerdale
Bedard, Robert J., Chief, Cumberland
Billington, James, Chief, Cumberland
Bissonnette, Constant, Chief, Manville
Burns, John K., Deputy Chief, Cumberland
Cappelli, Angelo R., Deputy Chief, Johnston
Carlow, Everett A., Ex-Chief, 108 Centerville Rd., Apponaug
Carmello, Allyn, Chief, Johnston
Cashman, John W., Chief, Barrington
Champlin, Chief G. Byron, Jr., Ashaway
Comolli, Claudio A., Asst. Chief, Westerly
Costa, Herbert R., Chief, Ashton
Croteau, Frank E., Commissioner, Pascoag
Delvaux, Rev. Auguste, Chaplain, Providence
DiGiulio, Edward A., Chief, North Providence
Doorley, James H., Jr., Providence
Dunbar, Paul M., Chief, Western Coventry Fire District, Greene
Dupointe, Francis, Dupane Gas Service, Chepachet
Ellis Jr., A. W., Battalion Chief, Warwick, R. I.
Fairley, Donald, Ex-Dep. Chief, 3086 Post Road, Apponaug
Fox, Michael J., Chief, East Providence
Goldstein, Harry, Comm. Public Safety, Providence
Guilmet, Edward T., Hubbs Engine Co., Warwick
Hill, Daniel E., Jr., Chief, Washington
Joly, Robert A., Chief, Berkeley-Cumberland
Jones, H. LeRoy, Jr., Beech Cottage, Bliss Mine Rd., Newport
Jones, Norman, Ret. Battalion Chief, Providence
Jones, Ronald S., Deputy Chief, Cranston
Kane, Arthur L., Chief, Hopkins Hill F.D., Coventry
Keena, John, Asst. Chief, Westerly
Killilea, James T., Ret. Chief, Providence
Lajoie, Theodore P., Deputy Chief, Woonsocket
Landry, Gerald P., Deputy Chief, Woonsocket
Lariviere, Denis, Chief, Albion
Lawton, Henry W., Chief, Lime Rock Fire Dist., R.F.D. Saylesville
Linden, Oscar E., Ex-Chief, Vol. Fire Co. No. 1, Greenwood
MacKay, Robert F., Chief, Westerly
Maher, James C., Chief, Glendale Vol. Fire Co., Box "C", Glendale
Martel, Joseph J., Chief, Ashton
Matteson, Ralph R., Jr., Capt., Warwick Fire Dept., 15 Eldridge Ave.
McDermott, John F., Jr., Chief, Providence
McGovern, John J., North Kingstown
McPherson, Alexander W., Retired Chief, East Providence
Monahan, Joseph A., Chief, Narragansett
Monast, Romeo D., Chief, 39 Gates St., Pawtucket; President 1970-71
Mongeau, Henry J., Chief, 150 Grove St., Lonsdale

Mongeon, Edgar, Chief, Woonsocket
Morris, Henry M., Chief, Dunn's Corner Fire Dept., Westerly, R. I.
Moulson, Norman J., 14 Whipple St., Berkeley
Mowry, Robert E., Chief, Primrose F.D., Woonsocket
Notarantonio, Joseph, Maxim Motor Co., 1703 Mineral Spring Ave., No. Providence
O'Brien, L. J., 667 Public Street, Providence
O'Donnell, Joseph H. Jr., 11 Getchell Street, No. Smithfield
Osborne, L. Wilfred, Chief, Pascoag
Parisi, Henry J., Chief, Dist. No. 1, North Providence
Parker, John N., North Cumberland
Parker, Shelton C., North Cumberland
Payne, Moses, Jr., Asst. Chief, Westerly
Powers, Thomas J., Chief, Cranston
Pryor, James H., Chief, West Warwick
Rathbun, Herbert W., Assistant Chief, Westerly
Rishe, Oscar A., Chief, Bristol
Rudolph, Arnold A., Pawtucket
Salisbury, George F., Chief, Central Falls
Sanford, Melvin E., Sr., Chief, Tiverton
Segee, Norman R., Chief, Greenville
Segee, Walter I., Centerdale
Shaw, John E., Head of Fire Prevention, Johnston
Sheehan, John T., Supt. State Police and State Fire Marshal, Box 1338, Providence
Silvia, M. C., Chief, Middletown
Spencer, Frank K., Ex-Chief, P. O. Box 82, No. Scituate
Stanley, Frederick A., Chief, Hope Valley
Sullivan, John P., Chief, Quonset Point
Sykes, George F., Coventry
Tessier, Lucien, Deputy Chief, Manville
Varone, Francis J., Chief, Ashton
Ward, John, Editor, Firefighters Column, Providence Journal
Watterson, John E., Chief, Newport
Wilder, Robert C., Chief, Portsmouth
Williams, Robert H., Chief, Lincoln
Winsor, Byron C., 40 Arnold Ave., Box 151, No. Kingston
Wyatt, Otis C., Jr., Battalion Chief, Warwick

CONNECTICUT

Abern Safety Equip. Corp., Wallingford
Adams, Roy W., Retired Director Fireman Training Program, Dept. of Education,
Hartford
Aiken, Raymond, Chief, Enfield
Amatrudo, Andrew A., Assistant Chief, North Branford
Andresen, Jon, Assistant Chief, Windsor
Audley, Harry A., Chief, Westport
Bacon, Edward C., Chief, Rocky Hill
Bartolucci, Guido, Chief, New London
Basile, Anthony D., Chief, Bristol
Becker, Earl R., Chief, Orange
Black, Douglas R., Chief, Electric Boat Co., Groton
Breen, Edward J., Chief, Norwich
Bronson, Chief Arthur C., International Silver Co., Wallingford

Brownridge, George R., Chief, Turn of River, Stamford
Bruno, Blaise, Deputy Chief, Greenwich
Bucci, Joseph, Deputy Chief, Greenwich
Buttery, C. W., Jr., Asst. Chief, Belltown Fire Dept., Stamford
Bylington, Donald A., Chief, Wilton
Canzano, Peter F., Chief, Stamford
Case, Walter P., Commissioner, North Haven
Catlin, F. Archer, Fire Commissioner, Branford
Ceccolini, John, Captain, Palmer Wood Circle, Branford
Chapman, David, Shipman Fire Equipment, Waterford
Christensen, Kenneth, Chief, Windsor
Clark, Deputy Chief Malcolm S., Middlebury
Cloutier, Norman S., Deputy Chief, Windsor
Coley, Richard F., Chief, Milford
Corey, David, Lt. Fire Dept., Box 268, New Milford
Cormier, Patrick, Deputy Chief, Willimantic
Crombie, Philip E., Chief, South Windsor
Curtin, Edward M., Jr., City Manager, Hartford
Cyrulik, Francis D., Chief, Middletown
Daly, John J., Chief, Hamilton Standard Div., Windsor Locks
Daly, Raymond D., Chief, So. Killingly Fire Co., Danielson
Daly, Robert, Chief, Hartford Hospital, Hartford, Conn.
Danielson, Robert W., Viking Instruments, East Haddam
Daur, Larry, former Deputy Chief, 180 Greenwich Ave., Greenwich
Dawson, William H., Chief, Greenwich
DeCarlo, Dominic J., Chief, Naugatuck
Dodge, John G., Chief, Plainfield, Conn.
Doherty, James E., Asst. Chief, Cheshire
Dunn, J. Franklin, Chief, Middletown
Dush, William S., Chief, Newington
Ellis, Earl J., Executive Chief, Annex F. D., 395 Skiff St., Hamden
Ellison, Ret. Chief Raymond M., South Windsor
Elmstedt, Russell, Deputy Chief, Bristol
Felner, Robert, 757 High Street, Fairfield
Fennelly, Edward F., Chief, Hartford
Finger, Chief Clyde M., Bethel
Fitzgerald, Michael, Chief, East Hartford
Fletcher, Joseph H., Chief, Plainville
Ford, Laurence M., Fire Commissioner, Redding Center
Franco, Mirano, West Haven
Freimuth, Charles, Jr., Chief, Terryville
French, Douglas, First Assistant Chief, Cheshire
French, Paul E., Deputy Chief, Rocky Hill
Gentiella, Romolo, Chief, New London
Gowans, David J., Asst. Chief, Cheshire
Griffin, Donald, Chief, Hebron
Grote, James L., Chief, Chester — President, 1966-1967
Gustafson, Norman, Chief, Hayward Fire Department, Colchester
Haber, Edward F., Chief, Berlin
Haley, Ross, Chief, Center Groton
Hall, Warren, Ex-Chief, P. O. 12, Cheshire
Hallgreen, E. William, Chief, 107 White Rock Dr., Windsor
Harper, George H., Chief, 66 Grove Street, Putnam
Harmacey, William, Deputy Chief, Groton

Hartigan, John J., Chief, North Branford
Haury, J. W., Assistant Chief, North Haven
Heimer, Edward, Fire Dept., 212 Clement Rd., East Hartford
Holmberg, Rudolph, Capt., Conn. Valley Hospital, Middletown
Horner, Chief Albert S., Long Ridge Fire Co., Stamford
Howard, Thurston S., Chief, Waterford
Howell, Joseph C., Chief, West Haven
Hoysradt, William A., Chief, Torrington
Hughes, Clinton L., Chief, Wethersfield
Hume, Daniel, Battalion Chief, 39 Moulton St., Hamden
Hutchinson, Lea A., Chief, Simsbury
James, Captain Philip M., Northeast Fire Co., North Haven
Jennings, Sylvester E., Chief, 274 Middle St., Bridgeport
Jezouit, Anthony W., Chief, Wilton
Johnson, William M., Chief, Vernon
Jussaume, Ronald, Chief, Attawaugan, Dayville
Kajack, Cornelius, District Chief, Cos Cob
Kalasky, Joseph, Deputy Chief, Newington
Kaselinas, John, Commissioner, Branford
Kellogg, Charles E., Deputy Chief, Wethersfield
Kenneson, Ralph G., Ralph Gordon Kenneson Co., 397 Washington St., Hartford
Kiley, James, Asst. Chief, Newington
Keseke, Joseph, Chief, Stamford
Koser, George N., Chief, Litchfield
Krois, Max, Dist. Chief, Byram
Kubricky, John, District Chief, Byram
Kulesh, George, District Chief, Byram
Lally, William R., Jr., Deputy Chief, Greenwich
Lamphier, Avery M., Chief, Watertown
Landry, Lieut. Wilfred J., Groton
Lawlor, John A., 1st. Asst. Chief, Naugatuck
Leddy, V. Paul, Chief, 22 Cumpstone Drive, Hamden
Lenard, Jules, Chief, Windsor
Leonard, James, Chief, Banksville
Limerick, Francis J., Chief, Manchester
Linke, Richard A., Retired Chief, Cheshire
Loonan, Asst. Chief Frank, Cheshire
Lundgren, Hans M., Chief, Stratford
MacDonald, George M., Inspector, Greenwich
Maguda, Donald, Chief, Rockville
Mahaney, John, Assistant Chief, Bloomfield
Maloney, Joseph F., Chief, Waterbury
Mangels, Benjamin A., Chief, Norwalk
Marr, James, Dist. Chief, Byram
McAuliffe, John J., Deputy Chief, Wethersfield
McElvery, Arthur, District Chief, Old Greenwich
McFadden, Frank, District Chief, Greenwich
McGeough, Joseph R., Captain, North Haven F. D., 79 Bayard Ave., Hamden
McKeon, Robert, Chief, Norwich
McRedmond, Charles R., Chief, Stamford
Miazga, Peter, District Chief, Glenville
Milardo, Michael P., Chief, South Dist. Protective Assn., Middletown
Milewski, Henry W., Retired Chief, Norwich
Miller, Robert E., Chief, Glenbrook, Conn.

Monahan Andrew J., Stratford
Monahan, H. J., O. B. Maxwell Co., Inc., 20 Evergreen Lane, Trumbull
Moore, Frederick J., Chief, Weston
Montgomery, Russell, Chief, Roxbury
Moritz, Milton E., New Haven
Morgan, Harold J., Commissioner, Electric Boat Co., Groton
Moughty, John, District Chief, Old Greenwich
Nevard, Ernest J., Assistant Chief, Glenbrook F. D., Darien, Conn.
Nielsen, Geoffrey, Wethersfield
Norton, David J., Chief, Portland
Oleksiw, Michael, Chief, Windsor
Oltone, Charles A., Chief, East Hampton
Pach, Joseph, Chief East Haddam Vol. Fire Co., Moodus
Peabody, Douglas, Chief, Waterford
Pickering, J. W., Sr., Retired Chief, New Canaan
Potter, Raymond, Jr., Chief, Prospect St., Suffield
Redican, Robert E., Chief, Meriden
Regier, Frank F., Chief-Blue Hills, Bloomfield
Remling, Daniel, Jr., Chief, Belltown Fire Dept., Stamford
Reynolds, Howard G., Chief, So. Eagleville Rd., Storrs
Richardson, Thomas F., Chief, Stamford
Ritchie, Tom, Chief and Fire Marshal, Turn of the River F. D., Stamford
Rosadini, John P., Chief, North Haven
Rosse, Anthony M., Chief, Kensington
Rourke, Raymond, Fire Commissioner, 18 Kneen Street, Shelton
Ryan, John J., Bar-way Coupling, Darien
Sampietro, Victor L., Chief-Allingtown, West Haven
Sansevero, Michael, Assistant Chief, Northford
Sawyer, Carl P., Chief, Poquonock Bridge, Conn.
Sawyer, Carl R., Groton
Scarano, William M., Chief, Groton
Schafer, Raymond A., Deputy Chief, Gales Ferry
Scheer, Charles F., Chief, Kensington
Schlissel, George H., Chief, West Shore F. D., West Haven
Shanaghan, John, Chief, E. Haddam Vol. Fire Co., East Haddam
Shea, Chief M. Joseph, Pawcatuck
Sherwood, William, District Chief, Byram
Shillady, Robert A., Jr., 18 Folly Brook Blvd., Wethersfield 9
Shuttleworth, Walter F., Fire Inspector, Greenwich
Sisitzky, Aaron, Deputy Chief, Windsor
Smith, George L., Chief, Remington Arms Co., 939 Barnum Ave., Bridgeport
St. John, Edward B., Chief, Middlebury
Stopa, Joseph J., Chief, Fairfield
Strain, James W., Deputy Chief, Hamden
Strain, William, Dist. Chief, Round Hill F.D., Greenwich
Surchek, Steven, Deputy Chief, Byram
Sweeney, Francis J., Chief, New Haven
Sylvia, Richard P., Chief, Noroton
Teichert, Charles, District Chief, Greenwich
Titworth, Dist. Chief John, Greenwich
Tomanio, Eugene, Assistant Chief, Danbury
Toth, Arthur W., Chief, Southington
Tweed, John H. Jr., Chief, P. O. Box 4, Branford
Uricchio, Asst. Chief Mark A., Windsor

Valone, Philip, Chief, Willimantic
Vescovi, Leo Hank, Submarine Base, Groton
Vinchetti, James, Lieut., Rockyhill
Vreeland, Walter, Chief, West Haven
Wakefield, George J., Chief, Dayville
Wallace, Samuel E., New London
Wallace, Ernest P., Quaker Hill
Walsh, Bernard, Jr., Chief Engineer, Hayward Fire Department, Colchester
Walsh, William T., Jr., Assistant Chief, Windsor
Washburn, John A., Ex-Chief, Main St., Suffield
Weigold, Dist. Chief John, Old Greenwich
Whelen, George W., President Whelen Engineering Co., Deep River
Wilkey, Kenneth, Dist. Chief, Glenville
Williams, John A., Cheshire
Williams, Spencer C., Chief, Oswegatchie Fire Co., Waterford
Wino, James G., Chief Jordon F.D., Waterford
Wolinsky, Sidney S., New Haven
Wright, George, Bradley Airport, Windsor Locks
Yacavone, Arthur J., Chief, West Hartford
Yocher, Emil, Ret. Chief, 8 Atwater Place, Cheshire
Youngquist, Chief Joseph W. L., Cheshire
Zahalka, John, District Chief, Glenville
Zint, Frank M., Chief Plant Protection, Electrolux Corp., Forest Ave., Old Greenwich

OUTSIDE NEW ENGLAND

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Arnott, James L., Toronto, Canada
Baird, Robert D., Bi-Lateral Fire Hose, Chicago, Ill.
Boys, William, Young Fire Equipment Co., Palmyra, N. Y.
Bugbee, Richard M., A.D.T. Co., New York, N. Y.
Burrroughs, Donald R., Impac Co., Pompano Beach, Fla.
Cairns & Bros., Allwood-Clifton, N. J.
Campbell, Duncan H., Wilson & Cousins, Ltd., Brampton, Ontario, Canada
Casey, James F., Editor Fire Engineering, New York, N. Y.
Circul-Air Corp., Detroit 2, Michigan
Coleman, Rodney E., Survivair, Totowa, N. J.
Cosgrove, J. F., Fire Engineering, New York, N. Y.
Downer, Donald R., Armed Services, San Diego, Calif.
Engelbrecht, Fred J., Pequannock, New Jersey
Griffolyn Company, Inc., Houston, Texas
Guard, Bruce, Elkhart Brass Co., Elkhart, Indiana
Haldane, William H., Chief, Ridgewood, N. J.
Hanay, Clifford B. & Son, Inc., Westerlo, New York
Hill, Robert A., The Waterous Co., St. Paul 7, Minnesota
Jollimore, Elliot C., Cocoa, Florida
Kendall, Frank L., Pinellas Park, Florida
LeRue, Ronald R., Ziamatic Co., Yardley, Pa.
Lyon, Harry G., Prosper East, Division Purex, Horsham, Pa.
Murphy, Edward L., Jr., Ohio Medical, Madison, Wisconsin
Nichols, Frank M., Superior Signal Co., Inc., Spotswood, New Jersey
O'Brien, Cornelius F., Chief-Intl. Airport, Indianapolis, Ind.

O'Brien, Donald M., Executive Secretary International Association of Fire Chiefs,
Washington, D. C.
Rainer, W. J., American LaFrance Corp., Elmira, N. Y.
Robbins, Retired Chief Earl H., Fort Ann, New York
Russoman, Commissioner Joseph V., Bloomfield, New Jersey
Slauenwhite, Chief C. J., Lawrencetown, Nova Scotia
Smith, D. B. & Co., Utica, New York
Snorkel Fire Equipment Co., St. Joseph, Missouri
Veit, John O., President, C. G. Braxmar Co., New York, N. Y.
Weed, F. Forrest, Jr., Chief, Amityville, N. Y.
Weisweaver, R. C., Elkhart Brass Co., Elkhart, Indiana

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Adams, John F., Retired Chief, Milford, Mass.
Armstrong, Gerald M., Retired Chief, East Machias
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Bean, Benjamin M., Retired Chief, Methuen, Mass.
Bishop, Clayton W., Retired Chief, Onset, Massachusetts
Booth, Charles L., Retired Chief, East Greenwich, R. I.
Bourgeoise, Mark J., Retired Chief, East Longmeadow, Mass.
Bowkett, Ret. Chief Allan, Thomaston, Conn.
Boyle, Edward C., Retired Chief, Springfield, Mass.
Bradley, George C., Retired Chief, Mattapoisett, Mass.
Bragdon, Ralph G., Retired Chief, South Portland, Maine
Bragg, Harold M., Retired Chief, Cumberland Center, Maine
Bragg, Kenneth F., Retired Chief, North Attleboro, Mass.
Braley, Charles S., Jr., Retired Chief, Bourne, Mass.
Breck, Robert G., Retired Chief, Longmeadow, Mass.
Brecken, John W., Retired Chief, Marlboro, Mass.
Briggs, Eben N., Retired Chief, Duxbury, Mass.
Brodin, Norman D., Retired Chief, Cranston, Rhode Island
Brown Lyman G., Retired Chief, Natick, Mass.
Bugbee, Percy, N.F.P., Plymouth, Mass.
Burnett, Erry M., Jr., Retired Chief, (So. Hadley, Mass.), Millerton, N. Y.
Burt, Earl C., Retired Chief, Enosburg Falls, Vermont
Caouette, Ernest C., Retired Chief, Fitchburg, Mass.
Callely, John E., Retired Chief, Beverly, Mass.
Canniff, John E., Retired Chief, Arlington
Carroll, Edward J., Retired Lieutenant, Brookline, Mass.
Carroll, William J., Rockwood Sprinkler, Worcester, Mass.
Carter, Walter H., Retired Chief, Lynn, Mass.
Champion, Walter M., Jr., Retired Chief, Swampscott, Mass.
Chase, Malcolm, Insurance Department, Augusta, Maine
Clark, Ret. Chief Harold B., Foxboro, Mass.
Clayton, Ret. Chief William B., Oceanside, California
Clifford, William H. III, Retired Chief, Cape Elizabeth, Maine
Conrady, William, Retired Chief, Rockville, Connecticut
Cook, Alton L., Retired Chief, Georgetown, Mass.
Corcoran, John E., Retired Chief, Newton, Mass.

Crombie, Peter A., Retired Chief, Thompsonville, Conn.
Crompton, Frederick R., Retired Chief, Portsmouth, N. H.
Cronin, John J., Retired Chief, Malden, Mass.
Crosby, William E., Retired Chief, Stoneham, Mass.
Crowley, Edward F., Retired Chief, Belmont, Mass.
Cummings, A. Merrill, Retired Chief, Hamilton, Mass.
Czine, John J., Retired Chief, Wallingford, Conn.
Dagon, Francis J., Retired Chief, East Hartford, Conn.
Davidson, Kenneth F., Retired Chief, Bloomfield, Conn.
Delaney, Leon J., Retired Chief, West Springfield, Mass.
Denison, Clifford D., Retired Chief, Harrison, Maine
Deslauriers, Theodore A., Retired Chief, Ware, Mass.
Donovan, John F., Retired Chief, Durham, N. H.
Dooling, William J., Retired Chief, Malden, Mass.
Dougherty, John T., Philadelphia, Pa.
Dowd, Adrian P., Retired Chief, Hull, Mass.
Dubois, Rene H., Retired Chief, Ludlow, Mass.
Duckworth, Thomas E., Retired Chief, Warwick, R. I.—President 1964-1965
Dulac, Ret. Chief Anthony D., Clearwater, Fla.
Dumais, R. G., Retired Chief, Lewiston, Maine
Duncan, Alex, Retired Chief, Round Hill F.D., Greenwich, Conn.
Duso, Carmi J., Retired Chief, Enosburg Falls, Vt., President 1967-68
Eames, Hugh L., Retired Chief, Reading Massachusetts
Elliott, Roy P., Retired Chief, Everett, Mass.
Farrington, John E., Retired Chief, Canton, Mass.
Feddern, Henry F., Retired Chief, Blackstone, Mass.
Flashenburg, Irwin, Canton, Mass.
Flynn, Arthur C., Retired Chief, Peabody, Mass.
Fogg, Raymond W., Retired Chief, Groton, Conn.
Frates, Richard J., Retired Chief, Bath, Maine
Freneau, Edward, Retired Chief, Naval Shipyard, Kittery, Maine
French, Victor M., Retired Chief, Palmer, Mass.
Gallagher, James S., Retired Chief, Hanson Field, Bedford, Mass.
Gamache, George A., Retired Chief, Brunswick, Maine
Gareau, Lionel F., Retired Chief, West Warwick, R. I.
George, Perley R., Retired Chief, Hampton Beach, N. H.
Gettings, George L., Retired Chief, Brookline, Mass.
Giberti, Vincent R., Retired Chief, Auburn, Maine
Giles, Earl G., Retired Chief, Concord, N. H.
Girard, Arthur A., Retired Chief, North Adams, Mass.
Gisborne, C. Carleton, Retired Commissioner, Greenwich, Conn.
Glenn, Russell A., Gamewell Co., Bridgeport, Conn.
Gorman, Thomas F., Retired Chief, Quincy, Mass.
Grant, Walter H., Retired Chief, Middleboro, Mass.
Green, Clarence H., Retired Chief, Concord, New Hampshire
Gribbin, Ret. Donald, Cape Elizabeth, Maine
Griswold, Henry G., Retired Commissioner, East Haven, Conn.
Guevin, G. Napoleon, Retired Chief, Manchester, N. H.
Guimond, Amedee R., Retired Deputy Chief, Dracut, Mass.
Gunther, Ret. Chief Ernest H., Jr., Dracut, Mass.
Gunther, Paul H., Retired Chief, Winooski, Vermont
Hammond, Richard A., Retired Chief, Manchester, Mass.
Hanna, George C., Retired Chief, Danbury, Conn.

- Hartnett, John B., Retired Chief, Dedham, Mass.
Hayes, Thomas J., Retired Chief, East Haven, Conn.—President 1972-1973
Hennessey, Walter B., Retired Chief, Braintree, Mass.
Holman, Waldo F., Retired Chief, Cranston, R. I.
Holmes, G. Palmer, Retired Chief, Kingston, Mass.
Hoyt, Reverend H. Chester, "Chaplain Emeritus", Sarasota, Florida
Hubbard, Charles H., Retired Chief, Princeton, Mass.
Hunt, William B., Retired Chief, (Haverhill) Amesbury, Mass.
Hurton, William P., Retired Chief, Wakefield, Mass.
Hurst, Carl E., Retired, Connecticut Insurance Co., Belmont
Hutchinson, John A., Jr., Retired Chief, Old Greenwich, Conn.
Jepson, Charles L., Retired Chief, Cheshire, Mass.
Johnson, William S., Retired Chief, West Haven, Conn.
Johnson, Carl P., Retired Chief, Portland, Maine
Kane, Michael J., Retired Chief, Woburn, Massachusetts
Kane, Walter J., Retired Chief, Lowell, Mass.
Karnis, Theodore H., Retired Chief, New Ipswich, N. H.
Keefe, John E., Retired Chief, Bellows Falls, Vt.
Kelleher, Stephen J., Retired Chief, Worcester, Mass.
Kelley, Paul E., Retired Chief, Bristol, Conn.
Kimball, Albert W., Retired Chief, Hingham, Mass.; Secretary and Treasurer 1959-72
Kirwin, Joseph P., Retired Chief, Naval Station, Newport, R. I.
Knapp, Albert L., Retired Chief, Wethersfield, Conn.
Knowles, Charles E., Retired Chief, Westbrook, Maine
Lampard, Charles H., Retired Chief, Swampscott, Massachusetts
Lane, John C., Retired Chief, North Brookfield, Mass.
Lang, Harold D., Retired Chief, Cape Elizabeth, Me.
Lathrop, Walter P., Retired Chief, Co. 1, Plainfield, Conn.
Laughlin, John A., Retired Chief, East Providence, R. I.
Logan, Michael J., Retired Chief, Millville, Mass.
Long, Alfred H., Retired Chief, Revere, Mass.
Lussier, Joseph R., Retired Chief, Somerset, Mass.
Lynch, Lawrence F., Retired Chief, Brockton, Mass.
Lyons, Lewis G., Retired Chief, Milton, Mass.
Madden, James C., Retired Chief, Derry, N. H.
MacGregor, H. S., Retired Chief, Acton, Mass.
Malloy, Thomas, Retired Chief, Brookline, Mass.
Marston, Curtis D., Retired Chief, North Hampton, N. H.
Martin, Charles E., Retired Chief, Northampton, Mass.
Matteo, Peter, Retired Chief, Ashton, R. I.
Mason, William C., Retired Chief, South Manchester, Conn.
May, Robert M., Retired Chief, Groton, Mass.
McCarthy, William J., Retired Chief, Marlboro, Mass.
McCue, John F., Retired Chief, Wethersfield, Conn.
McDermott, James H., Retired Chief, West Stockbridge, Mass.
McLeod, Ashton F., Retired Chief, Milton, Mass.
McDonald, Francis J., Retired Chief, Fall River, Mass.
McElvery, H. T., Retired Chief, Sound Beach F. D., Greenwich, Conn.
McGlashan, James S., Retired Chief, Fairlawn, Saylesville, R. I.
Mees, Francis, Chief Fire Officer, Johannesburg, So. Africa
Megin, Fred H., Sr., Retired Chief, North Stonington, Conn.
Messer, Walter R., Retired Chief, Keene, N. H.
Mercier, Solomon A., Retired Chief, Rumford, Me.

Miles, Chester W., Gamewell Co., Reddington Beach, Fla.
Miller, George J., Retired Commissioner, West Haven, Conn.
Miller, J. Coleman, Retired Chief, Auburn, Maine
Miner, Alfred N., Boston, Mass.
Moore, Donald R., Retired Chief, Deep River, Conn.
Moulton, Earle G., Worcester, Mass.
Murdoch, Duncan M., Retired Chief, Concord, N. H.
Murphy, Albert J., Retired Assistant Chief, Sharon, Mass.
Murray, Clinton H., Retired Chief, Cape Elizabeth, Me.
Murray, Walter R., Retired Chief, Weymouth, Mass.
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Nesmith, Robert E., Retired Chief, Whitman, Mass.
Nott, Carlton H., Retired Chief, Hanover, N. H.
O'Brine, Edward P., Retired Chief, Peabody, Mass.
O'Neill, Thomas J., Retired Chief, Electric Boat Co., Groton, Conn.
Packard, Hiram R., Retired Chief, Attleboro, Mass.
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Perley, Mervin L., Retired Chief, Athol, Mass.
Perry, James S., Retired Chief, Reading, Mass.—Box 483, Wolfeboro, N. H.
Perry, Emery K., Retired Chief, Harvard, Mass.
Petrucelli, Leonard A., Retired Chief, Meriden, Conn.
Phillips, Lawrence A., Retired Chief, Whitman, Mass.
Pons, Frank T., Retired Chief, Brookline, Mass.
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Rivard, J. L., Retired Chief, Willimantic, Conn.
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Rogers, Roland D., Retired Chief, East Machias, Me.
Rose, Norman L., Retired Chief, N. Kingstown, R. I.
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Salamone, Richard M., Retired Chief, Needham, Mass.
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Sanger, John J., Retired Chief, Old Greenwich, Conn.
Savage, Thomas C., Retired Assistant Chief, Valley Falls, R. I.
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Sawtelle, Lyman K., Retired Chief, Winchendon, Mass.
Schiller, Joseph L., Retired Chief, Ashburnham, Mass.
Scully, Francis, Retired Chief, Waterbury, Conn.
Seavey, Clifford, Retired Chief, Kennebunkport, Me.
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Shippey, Harold, Retired Chief, Westport, Conn.
Sibley, Frederick H., Retired Chief, West Springfield, Mass.
Simmons, Frank E., Retired Chief, Marshfield, Mass.
Slaman, Thomas H., Retired Chief, Wellesley, Mass.
Small, J. Bauer, Retired Chief, Farmington, Maine

Smallidge, Ralph G., Retired Chief, Medford, Mass.
Smiley, Carlton H., Retired Chief, A. C. Lawrence Co., Danvers, Mass.
Smith, Charles T., Retired, Gamewell Co., Needham, Mass.
Smith, James Barker, Manager-Owner, Wentworth-by-the-Sea, New Castle, N. H.
Soper, Arthur E., Retired Chief, Mansfield, Mass.
Sousa, Antoine, Retired Chief, West Bridgewater, Mass.
Spencer, Raymond C., Retired Chief, Hamden, Conn.
Spinney, Winthrop H., Retired Chief, Westboro
Stewart, Herbert C., Jr., Retired Chief, Naval Shipyard, Boston, Mass.
Strain, Francis H., Retired Chief, Round Hill Fire Dept., Greenwich, Conn.
Swearingen, Charles W., Retired Chief, Bath, Maine
Sweetland, Ralph J., Retired Chief, North Reading, Mass.
Sylvester, G. Ernest, Retired Chief, Brunswick, Me.
Tancrell, Wilfred, Retired Chief, Uxbridge, Mass.
Tanguay, Albert L., Retired Chief, Nashua, N. H.
Tetreault, Edmond, Retired Deputy Chief, Greenfield, Mass.
Tiernan, Raymond, Retired Chief, Veterans Hospital, Bedford, Mass.
VanDuzer, Clyde A., Retired Chief, Framingham, Mass.
Veit, Victor H., Retired Chief, Stamford, Conn.
Volk, Charles A., Retired Chief, Norwalk, Conn.
Walden, Lorton C., Retired Superintendent, Protective Dept., Worcester, Mass.
Walsh, John D., Retired Chief, Warwick, R. I.
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Watson, Charles A., Retired Chief, Hopedale, Mass.
Whalen, Fred E., Retired Chief, Milton, Mass.
Wheeler, Earle A., Retired Chief, Berlin, Mass.
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Whitcomb, Joseph C., Middleboro, Mass.
White, Timothy F., Retired Chief, Cambridge, Mass.
Whitehouse, Richard E., Retired Chief, New Castle, N. H.
Willis, Harry F., Retired Chief, North Dighton, Mass.
Winterbottom, Lawrence W., Retired Chief, Vineyard Haven, Mass.
Wochomurka, Edward, Retired Chief, Tolland, Conn.
Wood, Everett B., Retired Chief, Plymouth, Mass.
Woolley, Roi B., Fire Engineering, New York, N. Y.
Zamarchi, Elwyn G., Retired Chief, Eliot, Me.
Zanieski, Stephen R., Retired Chief, Greenfield, Mass.
Zvonkovic, John, Retired Chief, Branford, Conn.

LIFE MEMBERS

Bohner, Ward A., Executive Director N. Y. State Fire Chiefs, Kinderhook, N. Y.
Burden, Ordway P., Mt. Kisco, N. Y.
General Electric Co., Lynn, Mass.
Laughlin, Leo A., The 100 Club of Massachusetts, Boston, Mass.
O'Hagan, John T., Chief, New York City, N. Y.
Rand, Richard S., Fire Protection Eng., Amesbury, Mass. 01913
Ustjanauskas, Anthony, The 100 Club of Connecticut, Hartford, Conn.
Winslow, Herbert H., Fireman's Relief Fund of Mass., Lynn, Mass.

INSURANCE BROKERS SECTION

Ashmead, John S., 15 Ridgewood Rd., Windsor, Conn.
Clark, Leonard J., Peabody, Mass.
Everett, Douglas N., Insurance Broker, Morrill & Everett, Concord, N. H.
Fitzherbert, M. S., Insurance Agent, 21 Beacon Ave., Auburn, Me.
Flanders, Haven E., President, Byse Insurance Agency, 635 Main St., Laconia, N. H.
Johnson, Walter A., Engr. Employers' Fire Ins. Co., 481 Pleasant St., Malden, Mass.
McWalter, David W., Insurance Agency, 57 Main St., Concord, Mass.

TOTAL MEMBERSHIP — JUNE 1, 1973**(Includes Honorary, Insurance and Life Members)**

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