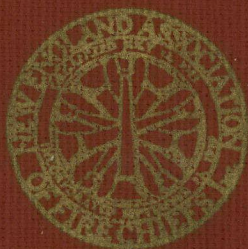


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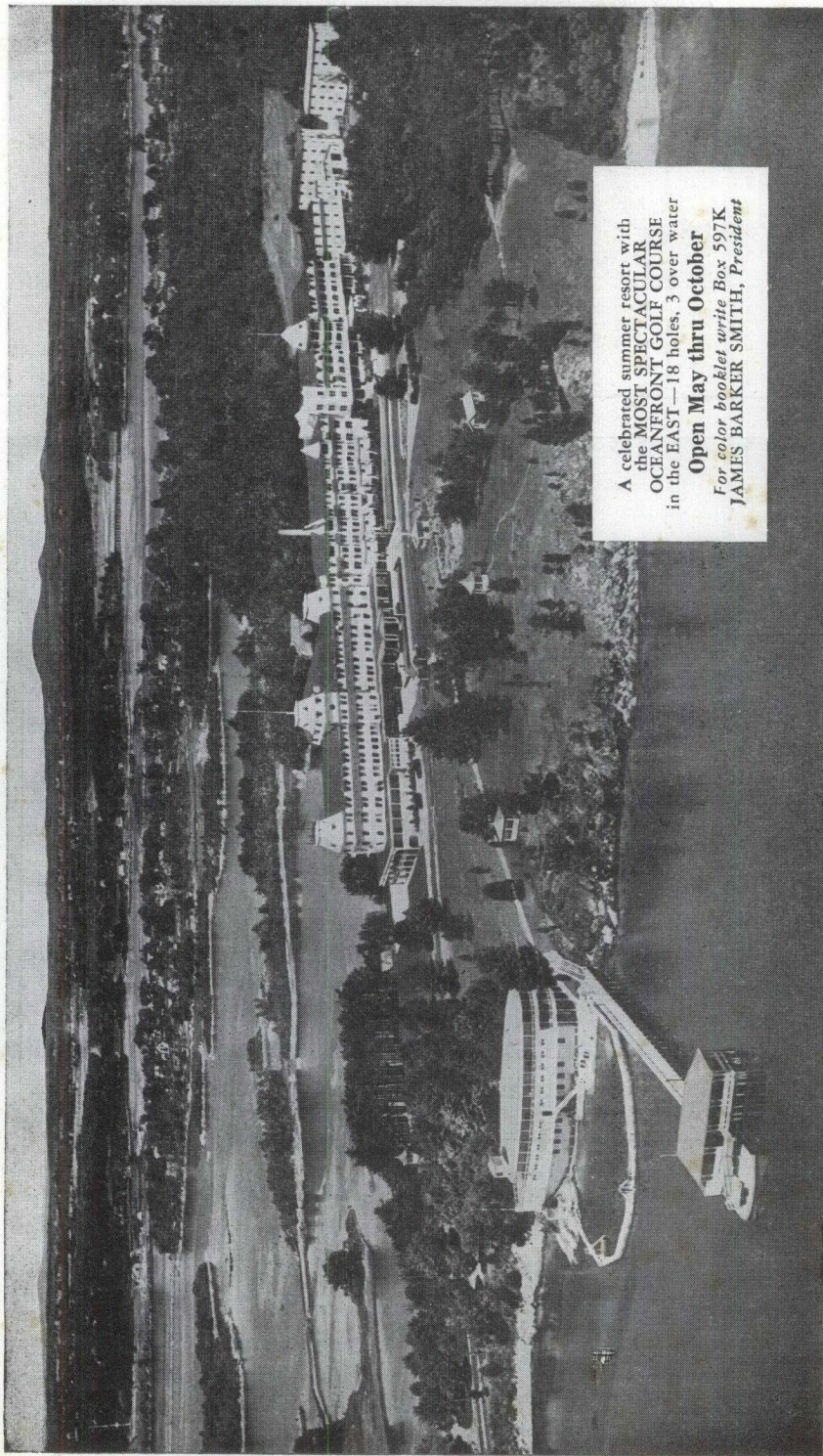
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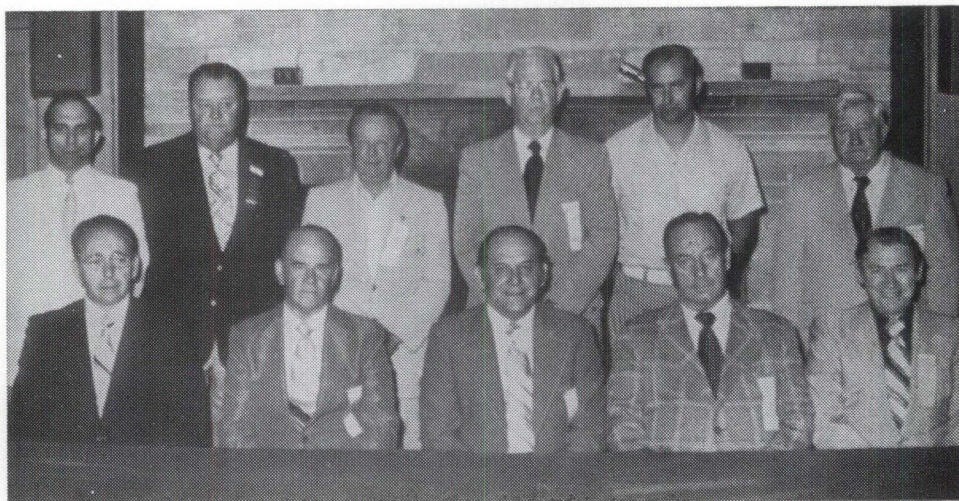
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ORDER OF PROCEDURE

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FIFTY-THIRD ANNUAL REPORT

of the

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of

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Annual Conference

June 22, 23, 24, 25, 26, 1975

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1977 CONFERENCE — JUNE 19 - 23 — DUNFEY'S, HYANNIS

1978 CONFERENCE — June 25 - 29 — WENTWORTH-BY-THE-SEA

Places and Dates of Past Conventions

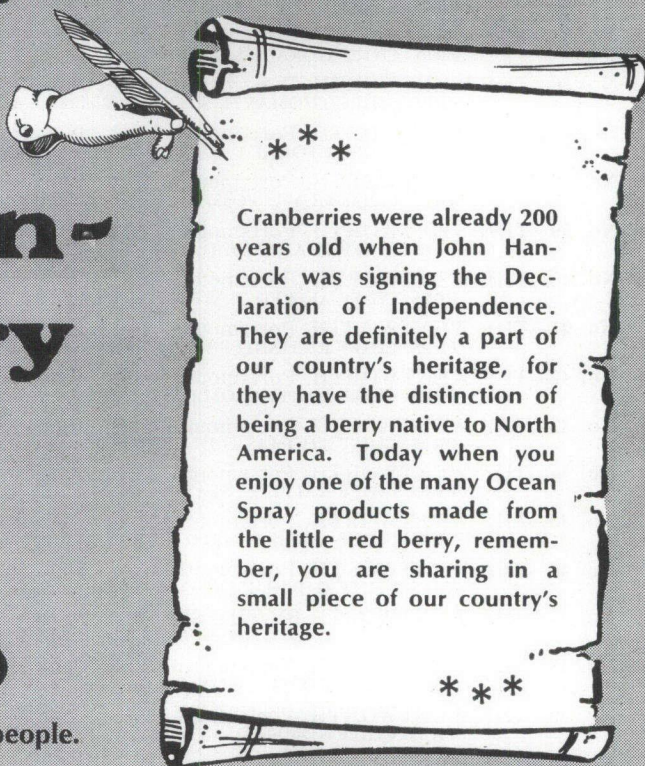
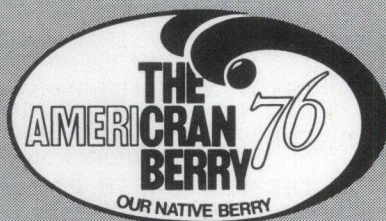
- No. 1—BRIDGEPORT, Conn., June 20-21-22, 1923
PRES. CHIEF JOHN P. DOYLE, Wellesley, Mass.
- No. 2—BOSTON, Mass., June 24-25-26, 1924
PRES. JOHN C. MORAN, Hartford, Conn.
- No. 3—PITTSFIELD, Mass., June 23-24-25, 1925
PRES. PATRICK H. HURLEY, Holyoke, Mass.
- No. 4—MANCHESTER, N. H., June 22-23-24, 1926
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, Maine
- 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, Nortsmouth, 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.
- No. 26—THE WENTWORTH, Portsmouth, N. H., June 22-23-24, 1948
PRES. ARTHUR W. SPRING, Laconia, N. H.
- No. 27—THE WENTWORTH, Nortsmouth, N. H., June 21-22-23, 1949
PRES. CHIEF WILLIAM H. HILL, Belmont, Mass.

Places and Dates of Past Conventions

(Continued)

- 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 CARMI 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., June 24 - 28, 1973
PRES. CHIEF THOMAS J. HAYES, East Haven, Conn.
- No. 52—MT. WASHINGTON HOTEL, Bretton Woods, N. H., June 23 - 27, 1974
CHIEF ALBERT B. GALETTI, Barre, Vt.
- No. 53—THE WENTWORTH, Portsmouth, N. H., June 22 - 26, 1975
PRES. CHIEF JOSEPH R. CREMO, Portland, Maine

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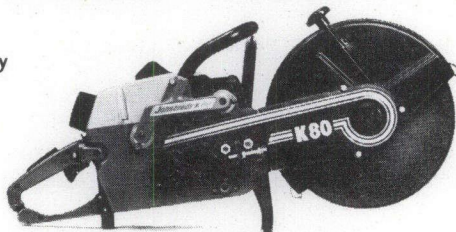
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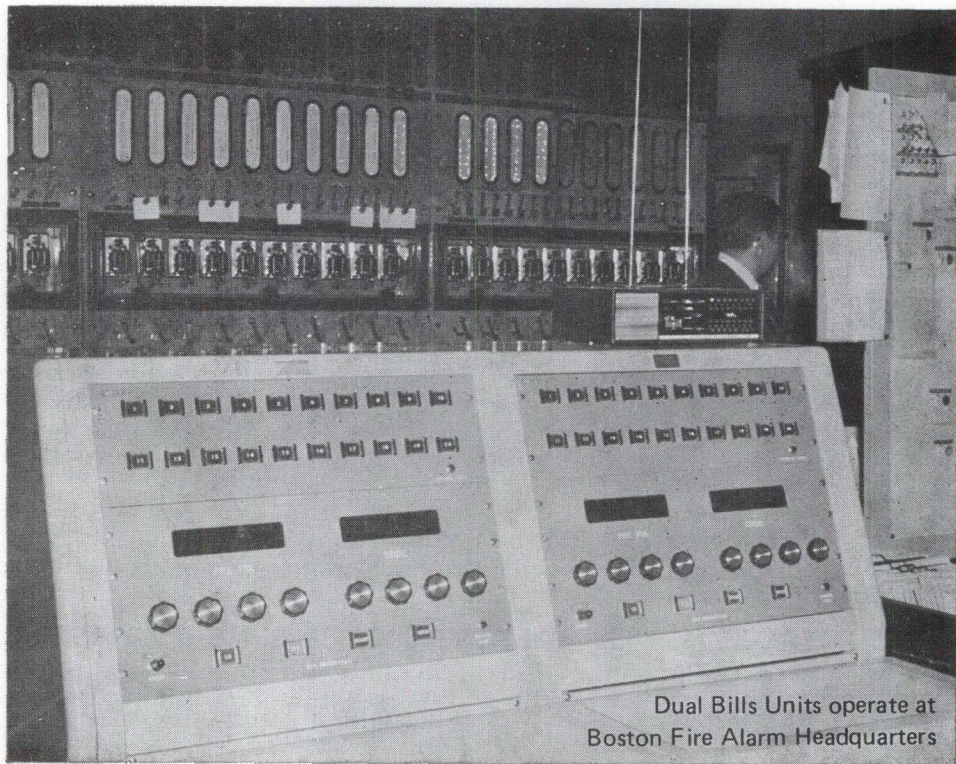
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53rd Annual Conference

NEW ENGLAND ASSOCIATION OF FIRE CHIEFS

Wentworth-By-The-Sea — Newcastle, New Hampshire

June 22, 23, 24, 25, 26, 1975



SUNDAY EVENING SESSION — JUNE 22, 1975

The Opening Session of the 53rd Annual Conference of the NEW ENGLAND ASSOCIATION OF FIRE CHIEFS, INC. convened in The Ship, at The Wentworth-By-The-Sea, Newcastle, New Hampshire on Sunday Evening, June 22, 1975, with President Joseph R. Cremo presiding, at nine o'clock.

PRESIDENT CREMO: At this time, I will call the Conference of the New England Association of Fire Chiefs, Inc. in session. I ask Reverend Charles F. Hood of Beverly, Massachusetts to give the Invocation at this time.

REVEREND CHARLES F. HOOD: Lord God, Creator and Preserver of mankind, we gather together at this 53rd Conference, thanking Thee for past memories and for the gathering together of kindred minds and of old friends in order to enlarge our thoughts, re-kindle our spirits, rejuvenate our physical being, and to make this gathering be meaningful, fruitful and full of our love, doing these things with your special blessing, knowing that we are surrounded by your great Province.

We ask this in the name of Christ, our Lord, in the name of the Father, and of the Son and of the Holy Spirit. Amen.

PRESIDENT CREMO: We shall now have a brief Address of Welcome by Chief Merton Dyer, President of the Fire Chiefs Club of New Hampshire.

CHIEF MERTON DYER: Reverend Clergy, Members of the Association and their Ladies, and Guests. It is a distinct pleasure for me to welcome you to New Hampshire, on behalf of the Fire Chiefs Club of New Hampshire and the Firemen of New Hampshire. Thirty-four of these Conferences have been held in New Hampshire, and I am sure that this one is going to be the best one yet!

In closing, I hope we can all participate in the Conference, for I am sure that we will only get out of the Conference what we put into it.

PRESIDENT CREMO: We are now going to have a brief Response to the Address of Welcome by Chief George D. Varney of Kittery Point, Maine.

CHIEF GEORGE D. VARNEY, JR., Kittery Point, Maine: Mr. President, Reverend Clergy, Chief Merton Dyer, President of the Fire Chiefs Club of New Hampshire, Fire Chiefs and their Wives, and Guests! I feel highly honored to deliver this Response.

On behalf of those involved and assembled here, I wish to express all of our thanks and appreciation for the warm welcome given us by these distinguished people. Maybe it was too warm for some of them to be here. We, in the New England Association of Fire Chiefs, Inc. have met here many times in the beautiful Wentworth-By-The-Sea, and it is just great to be back here after having been absent for two years.

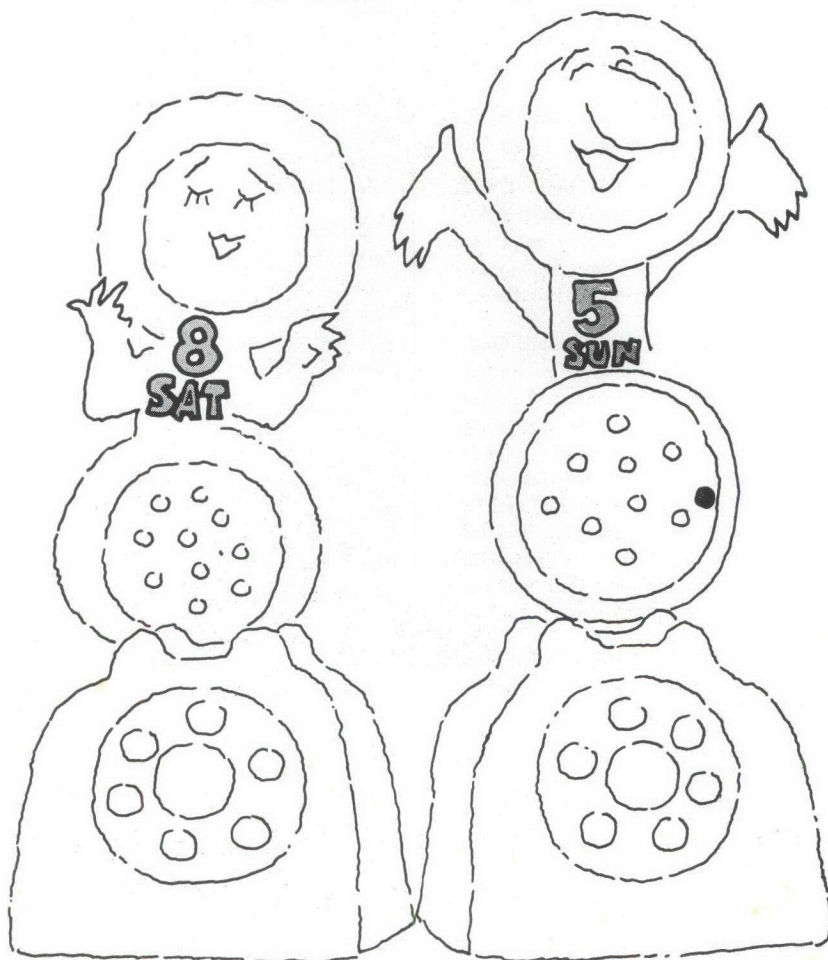
President Cremo and the members of the various committees have worked very hard to give us an outstanding program. Be prompt in your attendance. Certainly, each and every one of us will take some valuable information home with us, to our respective communities.

And last, but certainly not least, enjoy the fine hospitality and entertainment planned for all of you in attendance.

In closing, once again, I wish to express our appreciation to all of those who have registered, and we extend to all of you a warm welcome. We are also looking forward to having the opportunity of meeting here again.

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PRESIDENT CREMO: Thank you very much, Chief Varney.

We shall now begin our Memorial Services, and there will be no smoking or applause during these exercises.

We are going to begin by having our Secretary read the Roll Call of Deceased Members.

SECRETARY JAMES F. BRENNAN of Salem, Massachusetts.

The following members of the New England Association of Fire Chiefs, Inc. have passed away since our last Conference.

Admitted	Died
Chief Emil Yocher, Cheshire, Conn.	
April 13, 1957	Feb. 3, 1974
Chief Michael Milardo, Middletown, Conn.	
April 29, 1955	July 3, 1974
Mr. James F. Gibson, Stoughton, Mass.	
June 1, 1949	1974
Mr. Perce M. Robinson, Marshfield, Mass.	
June 25, 1951	1974
Chief Wilfred N. Rosenblad, Westbrook, Me.	
June 22, 1955	Aug. 4, 1974
Chief Lloyd E. Partelo, Monson, Mass.	
April 29, 1959	Sept. 3, 1974
Chief J. Franklin Dunn, Middletown, Conn.	
April 20, 1944	Sept. 23, 1974
Mr. Charles H. Clougherty, Medfield, Mass.	
June 22, 1940	Oct. 23, 1974

Admitted	Died
Chief Harold F. Lowell, Mendon, Mass.	
Mar. 30, 1944	Oct. 26, 1974
Dep. Chief William Harmacey, Groton, Conn.	
June 8, 1970	Dec. 10, 1974
Chief Oscar A. Rische, Bristol, R. I.	
Mar. 10, 1954	Dec. 30, 1974
Chief James Perry, Reading, Mass.	
Sept. 20, 1959	Jan. 1, 1974
Mr. Malcolm Chase, Augusta, Me.	
June 23, 1944	Feb. 9, 1975
Chief Raymond R. Tiernan, Millis, Mass.	
Dec. 18, 1944	Feb. , 1975
Chief G. Palmer Holmes, Kingston, Mass.	
Feb. 2, 1948	Mar. 30, 1975
Chief Walter H. Carter, Lynn, Mass.	
May 28, 1960	April 13, 1975
Mr. John F. Scully, Dedham, Mass.	
Mar. 4, 1938	May 11, 1975
Fire Marshall Herbert L. Whitney	
Concord, N. H.	
June 21, 1951	May 3, 1975

The hymn, Rock of Ages, was then played.

PRESIDENT CREMO: Our Memorial Address this evening was to be delivered by Reverend James Beauregard, but unfortunately, Father Beauregard's mother was taken to the hospital and he was unable to attend the Conference. However, our good friend and Chaplain, Reverend Charles F. Hood, is going to give the Memorial Address. Reverend Hood!

MEMORIAL ADDRESS

Reverend Charles F. Hood, Beverly, Massachusetts

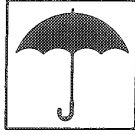
We have gathered here tonight to convene this New England Association of Fire Chiefs, Inc. in anticipation of a fruitful and worthwhile conference. For over half a century, this Association has gathered together to share a unique relationship that is so typical of fire-fighters everywhere. The fellowship and comradeship we share and have shared throughout the years is without comparison. As was said of the early Christians: "By their love, they knew they were Christians." It can be truly said that by their love, their devotion to duty and their comradeship, they are truly firefighters.

It is truly appropriate that we begin this Conference with a Memorial Service in loving

memory of our friends and comrades who once shared our relationship and walked with us and shared the problems and the heartaches and the frustrations of life. They are no longer with us in this physical life, but have gone on to a greater and fuller existence in the peace and harmony of the Creator God.

We gather together to praise God that the victory of life is truly won for these servants who served others so well and ably. We come together in memory of these lives triumphantly lived, and to celebrate their lives.

Life was never meant to be easy. We do not always go along on an even keel. The variety of experience in life prepares us for the



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good and the bad. We are better able to cope with the vicissitudes of life and live triumphantly.

Therefore, life is made up of unrealized dreams; there is the pain and the suffering, the unsuccessful attempts, the heartaches and the frustration. But, on the other hand, there is joy and laughter, rewards and accomplishments, love and satisfactions. These all add up to what life is all about, and it is how we handle these situations that makes the victory of life triumphant, and we can at the end leave behind us a heritage and a legacy that is rich and full and we can celebrate such a life and a spirit.

This Memorial Service is an experience of faith and memory. Think of turning the portrait of Christ to the wall of forgetfulness, as well as those in this Association that we remembered and valued as friends and fellow firefighters. Think of trying to forget home, church, country and God, so as to keep more vivid the scenes of the present.

Memory is said to be "only paradise from which we cannot be turned out." It is richer than vaults of gold, more lasting than honors, titles or any treasure of this world. But, it is a monitor, as well as a recorder.

"Remember," is the silver bell of conscience, warning the soul to remember and not forget those close and dear to him.

A widowed father gave unselfishly of everything that he had in order that his daughter might gain a musical education and career. After ten years of study in Europe, she returned to thrill with songs the great audiences that greeted her. But, she refused to recognize her humble father in his lowly and penniless condition. Such ingratitude and forgetfulness seems unbelievable. But, it is only a sample of the greater sin of forgetting the words, the person and the example of persons in the firefighting profession who no longer walk with us in this life. Men who gave freely, unselfishly, to the sum total of devotion and adds so much to the profession.

So that this evening, we want to recall and remember these men and honor them with our remembrance and with our prayers.

In the name of the Father and of the Son and of the Holy Spirit. Amen.

PRESIDENT CREMO: Gentlemen, I now ask the Reverend Hood to offer Benediction.

REVEREND CHARLES F. HOOD: And now, may the Lord Bless thee and keep thee, and may the Lord make his face to shine upon thee, and be gracious unto thee. May the Lord lift up his countenance upon me, and keep the peace this night now and forever more, world without end. Amen.

PRESIDENT CREMO: This concludes our Memorial Services.

Adjourned at 10:00 P.M.

MONDAY AFTERNOON SESSION — JUNE 23, 1975

PROGRAM CHAIRMAN LEDDY: The first program will be moderated by Chief Joseph Monahan, of Narragansett, Rhode Island. Chief Monahan has been with the Narragansett Fire Department for thirty years, for eleven years as its Chief and presently he is

a Director of the New England Association of Fire Chiefs.

CHIEF JOSEPH MONAHAN of Narragansett, Rhode Island: Our speaker today will be Mr. Allan G. Hopkinson, Assistant Director of Public Information, Factory Mutual Engineering, of Norwood, Massachusetts.

PREPARING FOR EMERGENCIES

Allan G. Hopkinson, Assistant Director Public Information
Factory Mutual Engineering, Norwood, Massachusetts

Gentlemen, I am here to tell you some ways that you can help yourselves and owners of industrial and commercial properties by becoming acquainted with protective systems and hazards on various properties, which

will tell you in advance how to fight fires most efficiently and maximum safety.

At industrial plants or commercial buildings there are usually personnel who handle small fires and who make sure that the fire

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protection system will perform as intended. These people know the buildings and their components. However if you have to come in cold to fight a fire, not knowing the dangers, you will face problems both obscure and dangerous. The more you know in advance, the better for all concerned.

Many Fire Departments visit the plants in their areas regularly to advise on fire hazards, and at the same time to take the opportunity to become familiar with plant layout, fire protection equipment and the locations of fire hazards. This information should be stored with retrieval in the quickest possible manner, to get this information to the fire fighter at the fire. A Fire Insurance Plan can be a useful item to begin with. The plan shows the location of buildings, their construction and their contents. The public mains and the private fire protection system. From this plan one can determine which hydrants are on public mains, Fire Dept. pumper connections are shown, sprinkler control valves and the buildings they serve and the location of fire pumps and information about neighboring property and buildings. These plans concern private property so the Factory Mutual sends a copy to the insured and suggests that a copy be sent to the Fire Department.

Upon receipt of this plan a member of your department should go to the plant to check the plan and to arrange with plant personnel in the handling of emergencies. In complex plants the planning could include the selecting of locations for the placing of apparatus, on all types of alarms. Access points and obstacles to entry should be listed. Locations of snow accumulations should be considered, the location of plastics and other materials which might raise obstacles to fire fighting, and emergency tactics and the evacuation of personnel, should be planned. The plan plus your own observation of sprinkler control valves and hydrants, will help you to decide the best sources of water, and where sprinklers can be counted on to assist in fire fighting. You should determine, from the contents of the building, possible building damage and damage to neighboring buildings. Combustible yard storage should be noted and the location of nearby hydrants and their accessibility. Vents for smoke removal should be noted. Use of vents would depend on the type of fire.

The Factory Mutual urges property managers to notify the Fire Dept. of any temporary dangers at plants. This would include shut off sprinklers, shut off of water supply, tanks out of service frozen sprinkler mains, or pipes or other impairment of plant equipment. The names and telephone numbers of key plant personnel should be noted if the plant is unattended at times. Company Fire Brigades can assist fire fighters without interfering with them, by checking the operation of fire pumps, insuring open sprinkler valves and shutting off gas and flammable liquid pipe lines.

Once you have collected this information it should be stored and it should be immediately available when needed. This could be done on a chart using large clear color symbols to identify the information by location. The chart could then be photographed making 2x2 slides which are stored in a tray until needed. Additional slides for roof or other special features may be made. This system uses a common inexpensive slide projector available everywhere. The slides are projected on a screen and the information is relayed to the officer in charge at the fire by radio. A loose leaf notebook may be used and kept on the apparatus.

The City of Baltimore uses microfilm and relays it to apparatus by radio on the way to a fire. A special command vehicle is planned which will answer all alarms giving the officer in charge a chance to see all that he needs directly instead of the information being relayed by another person.

In Mecklenburg County No. Carolina including Charlotte, uses a computer. The dispatcher calls the information by using the street and number, and reads from a television type screen. The storage system can be simple or complex depending on personnel, and how much money is available. Another factor is the size, and number of plants involved.

The 2x2 slides are prepared by using a 35 mm camera or an instamatic using 126 film will suffice. Storage trays clearly marked should be available for rapid access. A standard projector and screen reveals the information. Standard color and black and white prints can be used to store information.

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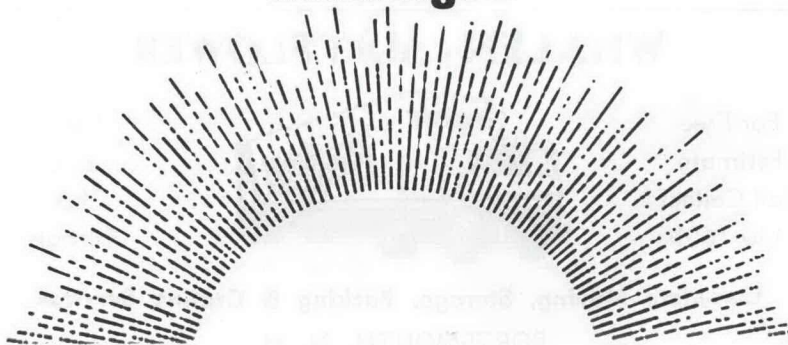
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It is the basic philosophy of Factory Mutual to prevent loss. We work through inspection, engineering and scientific and human research to prevent loss, and then we provide insurance where we fail to prevent loss. We recognize a common goal with the Public Fire Service. We do not know all the answers to the science of Fire but we are ready and willing to contribute information on Fire Prevention and Protection. Much of our information is based on extensive loss experience and on our research. We are in the same business and we urge you and local industry to begin a dialog and to plan together.

PROGRAM CHAIRMAN LEDDY: The Moderator for our next speaker is Chief Ernest Daye of the Calais, Maine Fire Department. He was promoted to Chief in 1970 at the age of twenty-seven.

Chief Daye is presently a member of the Board of Directors of the Maine Fire Chiefs Association.

CHIEF ERNEST F. DAYE of Calais, Maine: Thank you Chief Leddy. Our speaker this afternoon is Mr. Sidney M. Short of Saco Valley Chemicals, ast Limington, Maine. He founded Saco Valley Chemicals three years ago, developing wetting agents Formula No. 1 and No. 2. He is a Lieutenant in the Limington Fire Department.

The Title of his Address is "Wetting Agents."

WETTING AGENTS

Sidney M. Short, Saco Valley Chemicals, East Limington, Maine

I consider it an honor to be able to share my thoughts on wetting agents and wet water with this distinguished group.

Section 125-F of the NFPA Standard No. 18 defines a wetting agent as a chemical compound which, "when added to water in proper quantities, materially reduces its surface tension, increase its penetrating and spreading abilities and may, also, provide emulsification and foaming characteristics."

This is a satisfactory definition, but I think that it would be better if they left out the part about surface tension. Surface tension is co-incidental to, rather than of, primary importance in firefighting any compound which will increase the spreading and penetrating ability of water on fuels and also materially lower its surface tension.

The converse is not true. For example, if solutions have a certain nonionic surface active chemical and a certain anionic surface active chemical and they are compared at concentrations that will give the same surface tension, different properties will be observed. The nonionic will be better for wetting hard surfaces, such as glass or metal and relatively poor for wetting porous surfaces such as charcoal or textiles. The anionic will be good

wetting porous surfaces, and relatively poor for hard surfaces. The anionic will be good for absorbency and the nonionic will be poor.

The anionic will be a high foamer, and the nonionic will be relatively low-foaming. Thus, the chemical affinity of the agent for the specific fuel is the important characteristic. Out of over 2,000 commercial chemicals which can be called wetting agents, only a few are satisfactory. These are most satisfactory when prepared as a faithfully formulated blend to provide the desired wetting and absorbency properties on the wide variety of fuels encountered in firefighting.

The wet water must reach the fuel, either involved or exposed, in order for the wetting agent to do its job.

It complements a good nozzle man rather than providing a substitute for adequate training. If the wet water does not reach the fuel, the advantages of improved spreading and penetration are lost.

On major fires, the improved spreading and wetting characteristics of wet water can be used to good advantage in exposure protection. Because the wet water spreads over a fuel more efficiently, it absorbs more heat before it runs off. The heat capacity of the

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water is not changed, but more heat is absorbed per gallon of water due to a longer resident time in the fire area.

Because less water is lost to run off, exposures can be protected in smaller streams and fewer men. This free water and manpower are for a direct attack on the fire.

One of the traditional applications of wet water is in forest fire fighting. When prolonged operations must be carried on, using water carried to the fire in tankers, getting the maximum efficiency from each gallon of water is of the utmost importance. Therefore, a lower density of application is required to extinguish a given amount of fuel.

The same holds true in fighting structural fires, in rural areas, where fires must be fought with tankers, and when the water can make the difference between winning and losing. Where adequate water is available, it can extinguish a fire in less time and with less water damage. The reduction in water damage is accomplished by using less water to extinguish, and having less run-off from the fire area.

Another valuable use for wet water is in overhaul. Fewer men are injured in overhaul than in any other phase of firefighting. While wet water cannot reduce the dangers inherent to overhaul, it can reduce the time that your men are exposed to them. Hopefully, this will result in fewer injuries.

Wet water is also valuable in extinguishing deep seated fires in sawdust, bedding, textiles, hay, rubber tires and the like. This is due to the improved penetration and absorbency.

The NFPA Standard No. 18 refers to the use of wet water and wet foam as Class B first. This application should be tempered with good judgment. Some wetting agents are good emulsifiers for some flammable liquids which are not soluble in water, if there is no danger of overflowing a burning liquid, when the water can be used to emulsify the fuel and cool it below its ignition point. Reduction in the evolution of combustible vapors will also occur.

When the water can be foamed in an aspirating nozzle, this is the most efficient way

to apply it to those A and B fires. However, these foams are very unstable, compared to regular low and high expansion foams, and much higher application rates must be used. Again, good judgment must be applied to prevent spreading the fire by spillage.

There are also certain situations in which wet water should not be used. One of these is that of fires in electrical equipment. The improved penetration makes electrical contact more likely, and will make salvage of motors, etc. more difficult.

Another application is that of fires where wet water is contra-indicated.

A third might be a situation in which you are out in the street, going in heavy streams, on a major fire. This would be a waste of money. The wet water would better be applied to exposure in such situations.

Wetting agents should not be mixed with foam or other agents. It is possible that the two agents will react and destroy the effectiveness of both. A manufacturer cannot say that two agents are compatible unless he makes both. And, while wet water can be carried in booster tanks, it is better to carry the wetting agent separately when a foam capability is required.

The NFPA Standard No. 18 specifies what effects on equipment wet water has that are permissive or expected. It specifies that wet water be no more corrosive than plain water to cold rolled steel, brass and aluminum. Plain water is, of course, corrosive to these metals at a rate of 1 to 7 millionths of an inch per year by the test method given in NFPA No. 18. It is stated that wet water will remove galvanized air-dried coatings, if stored in tanks lined with these materials. This is certainly true, and the storage of wet water in contact with these materials is not recommended.

Baked-on finishes adhere tightly to the tank and can be used for wet water storage.

The standard also says that cotton and linen hose yarns must retain 90 per cent of their tensile strength, after soaking in wet water and drying. Rubber-lined hose shall not show signs of swelling, softening or disintegration after soaking in wet water for thirty (30) days.

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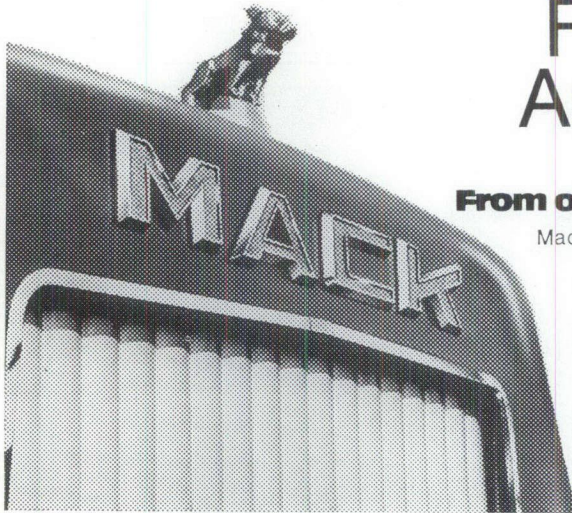
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Wet water is more prone to leak than plain water, due to its improved penetrating power. It will pass through cracks that plain water will bridge. This is one of the reasons why it is more effective on the fire. Standard No. 18 suggests that old pump packings be renewed before wet water is used.

Now, many of you are probably thinking that you have heard all of this before. You may have tried a wetting agent in the past that did not meet your expectations. Unfortunately, some manufacturers label their products for use at a lower concentration or lower concentrations than are necessary to meet the standards. One popular wetting agent is recommended by its manufacturers for use at 4 gallons per 1,000 of water, whereas the United States Forest Service approval is at 10 gallons per 1,000.

Wetting agents will not do much good when used at less than standard on the concentrations. Therefore, we advise testing them before use, in order to determine the concentration needed to meet the desired standard.

There are two standards in common use for approving wetting agents. One is the NFPA Standard No. 18, the standard for wetting agents adopted in 1972, and the other is the United States Forestry Service Testing Procedure.

I prefer the NFPA Standard No. 18, for two reasons. First, the test methods for effectiveness are more practical and can be done in any fire station without a lot of expensive apparatus, and secondly, an absorption efficiency standard is included which is omitted from the United States Forestry Service procedures.

The United States Forestry Service uses the ASTM, the Draves Skein test, because it is highly accurate and reproducible. In my opinion, it is much more accurate than is necessary to determine the kind of differences that we are interested in, in the Fire Service.

The USFS tests, with the wetting agents at 0.1 per cent, 0.25 per cent, 0.5 per cent and 1.0 appear with concentration and grant approval at the lowest concentration which gives a sink-time of 10-seconds or less. Private industry most often specifies a sink time of 20 seconds, when using this test.

There are other tests that are relatively easy of solution, such as the ASTM, Ross Miles Form, Hit and Break-down rate and Flash point. Also included are the manufacturers' statements about costs, corrosiveness and toxicity. The costs have been computed at the per 1,000 gallons of wet water, which is the only way that wetting agents have of costs per gallon and different mixing ratios can be compared.

The USFS prefers wetting agents which are low-foaming and have a high-foaming break-down rate. These attributes are contrary to the most efficient use of wet water, which is through air-aspirating foam nozzles.

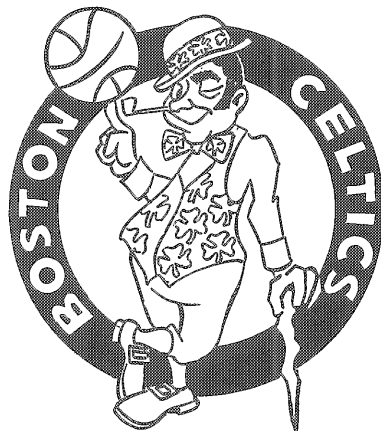
Forest Fire units are not equipped for foam, so that this is no disadvantage to them. However, low foaming agents gain this property by using nonionic surface active chemicals. These are very poor for absorbing.

We have made an experimental low foaming wetting agent, which would likely fail the Standard No. 18-S absorption Standard. Thus, the USFS wetting test at 0.1 per cent was no better than plain water, and high foaming agents are better choices for Fire Departments in the NFPA No. 18 Absorbing test.

The things sometimes encountered and caused by famine in tanks can be eliminated by a couple of simple precautions. If a tank is being filled from the top, don't add the wetting agent until the tank is full of water. Mix it in by recirculating through the pump or by driving the apparatus. When transferring wet water from one truck to another, foam can be controlled by filling the tank through the pump, so that the tank is filled from the bottom.

NFPA Standard No. 18 uses the floating patch test for wetting action efficiency standards. This is done by simply dropping a 1-inch square patch of No. 6 onto the surface of the wet water and timing with a stop watch until it sinks. The standard allows it 15 seconds. The absorption test is done with the two Firelitter blocks, which are lighted at one end and placed in two shallow dishes, one containing wet water and one containing plain water. A stop-watch is started and the time required for each fire to be extinguished is recorded.

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By dividing the time for the plain water by the time for the wet water, and multiplying by 100, the absorption action efficiency is obtained as a percentage. These tests are hard to see from a large group, so that I have arranged for some of the exhibitors to do them at their booths for anyone who is interested.

The rest of the tests in Standard No. 18 can be done by a Fire Department, with the help of the high school chemistry teacher or the water works laboratory. These tests include corrosion of metals, action on fire hose, surface tension, and shown after freezing and the pH. The surface tension test may be omitted, since any agent that will pass the wetting action and the absorption action standard will significantly lower surface ten-

sion of water, and that is all that is required to pass the standard.

In closing, let me say that the standard meeting the wet water can do much to increase the effectiveness and efficiency of Fire Departments. However, since most wetting agents sold do not mention Standard No. 18 or the USFS on their label, the Fire Department must determine what mixing ratios are necessary for itself. Better yet, buy a wetting agent which specifies what standards are met and what concentrations there are. There are a few of these around, and some of these are less expensive to use than the products which did not mention the standards on their labels.

Adjournment at 3:30 P.M.

TUESDAY MORNING SESSION — JUNE 24, 1975

PROGRAM CHAIRMAN V. PAUL LEDDY:

Good Morning, Gentlemen.

This morning, Gentlemen, I should like to introduce your Moderator for our first speaker, Chief Joseph E. Scanlon. Joe is with the Lynn, Massachusetts Fire Department, and he has been twenty-eight years with that Department, three years of that time being in the role of Chief. His father was formerly a Chief of the Lynn Department.

CHIEF JOSEPH E. SCANLON, JR. of Lynn, Massachusetts: I think that one of the most disastrous problems that we have been encountering during the past few years is the arson problem, and when the Fire Chief sees

his men being burned with gasoline deliberately placed where fires take place, injuring the men for life, it is very serious.

Seated with us here this morning is the veteran of our own Lynn Arson Squad. He joined the Fire Department just before going into the Navy in World War II, and he is currently our Deputy Chief. He is a retired Naval Officer. I consider him a valuable partner, when it comes to operating the Lynn Fire Department.

It is a great pleasure for me to present to you at this time Deputy Chief James Scollins, Head of the Police-Fire Arson Squad of Lynn, Massachusetts.

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Deputy Chief James Scollins, Head of Police-Fire Arson Squad
Lynn, Massachusetts

From childhood we are exposed to the criminal and the villain and their successful way of life, although it may be brief, and our very moral fibres are at stake in our dealings between man and man. What about mob violence and riots committed recently? Some of these acts are committed by so called responsible people, civil rights laws are broken without moral blame, and it appears

that fire bombing and arson are among those things.

The morale of our protective forces is being seriously undermined, police officers are hesitant to become involved in arrests, they face investigations for brutality and harassment, sometimes they are threatened and firemen are exposed to physical violence while performing their duties.

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Today I speak of Arson for profit, which is the malicious ability of setting a fire or causing to be burned ones own property or that of another, or aiding or counselling or assisting in such an act.

The years 1973 and 1974 will long be remembered by the citizens of the City of Lynn and the members of our fire fighting forces. Almost daily, fire of incendiary origin erupted in the city and fire fighters were exposed to exploding infernal machines, bursting bags of gasoline and other heinous traps designed to destroy property. It was not unusual for our men to stumble from a building with protective clothing in flames from liquid accelerants. Some were hospitalized, some had permanent injuries and one had to retire at an early age. There were no deaths, due to the efficiency of the firefighters.

On Feb. 11, 1974 the Lynn Arson Squad was formed and I was appointed to head the squad of three firefighters and four police officers. It is the only such squad in the area. We have made many arrests, we have obtained two grand jury indictments and many probable cause findings in the District Court. There are many motives for arson including insurance fraud.

We now have a handle on the problem and although arson is on the increase throughout the country, our efforts have resulted in a reduction of 29 percent in suspicious fires during 1974 over the year 1973.

When I was District Chief I compiled my own records with cross references on suspicious fires by names, trusts, addresses, real estate agents, loan institutions, insurance companies, adjusters, mortgage holders, straws and modus operandi. Names of Trusts kept repeating too often to be mere coincidences. When I became Deputy Chief I was assigned to review fire records and my files with the Fire Marshall and the State Police. Three detective lieutenants were assigned to us, John Amrogne, Raymond Roy and James Hamilton. We zeroed on one file with in-depth investigation and succeeded in obtaining indictments on several people and arrests followed. This team broke up one of the arson rings in Massachusetts.

Since that time the Lynn Arson Squad continues with its successful war on arson. All members are familiar with the arson laws; determining origin and cause of fires; rendering expert opinions; collecting and preserving evidence; interviewing witnesses; carrying the investigation forward to determine the identity of the guilty persons so that they may be convicted beyond a reasonable doubt. We assist the insurance companies in defending suits on policies. However, our prime duty is to arrest and convict the guilty.

INVESTIGATION: When a District Fire Chief calls the arson squad, or when he cannot determine the cause, we are called in. We are available 24 hours each day, 7 days a week. Prompt response to the fire scene is the key to successful investigation. We try to arrive while the fire is in progress. The scene is closed to unauthorized persons. Buffs and Sparks are kept out. Their presence can cause trouble in court.

The Fire Department has control of the building during the fire. We can conduct a complete investigation, search for and seize evidence legally, and this is something which we may not do the following day, after we leave the scene.

WITNESSES: Witnesses present may make unguarded statements at the scene. The excitement of the scene stimulates cooperation. No member of the Fire Department should make any statement regarding the cause of the fire to anyone. Some firefighters have been known to say "So and so" set this fire. The owner might be present. These remarks do not help.

Our officers' reports are detailed, complete and accurate for they know that it may wind up in court, and he may testify from it. The reports will show that a certain building was locked up tight; every door and window was opened by firefighters. These reports are important with the passing of time. A good report in a civil case enhances the image of your department.

The burning building is the best place to investigate. Men learn to prepare a prosecution report - what they saw, heard or smelled. No hearsay. A pamphlet issued by NFPA at \$1.50 entitled "Firefighters Responsibility in

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Arson Detection" should be read by all members of a Fire Department. This lays the foundation for all fire investigations.

DISCIPLINE: The first squad man to arrive at a fire gets a report from the chief officer in charge of the fire. This may indicate the cause, if not more digging and searching is required. Remember that we have the power to search during the fire. Recently in a Lynn fire, there were two separate fires in a sprinklered building. The arsonist got around the sprinklers by injecting between the floors. The fires were out of reach of the sprinklers. Preserve your notes. They are originals and may be asked for in court.

Fingerprints are obtain when possible. In Lynn in two cases, fingerprints proved the presence of the arsonist.

The report should tell what the men saw, not regarding the arrival of equipment or connecting of lines but what they saw, smelled and heard. It must be remembered that we are concerned with what the court wants to hear.

We have a kit in Lynn which is a low budget item. We have coffee cans for preserving evidence. These are good because when closed it is tight. You can put in rags soaked with accelerants and they will remain safe until they arrive at the State Laboratory which in Lynn is only twenty minutes away.

We carry a tape measure because we diagram every fire scene of suspicious origin. This diagram is convenient and helpful in court. A sponge is carried so that liquids can be mopped up at the scene. In one case a sponge was responsible for a conviction.

EVIDENCE KITS: One is issued by the State Police at the cost of \$140. It contains a flashlight camera, various tools, tape measure, fingerprint kit, magnifying glass, film, screw drivers and cutting knives. This kit is good but does not meet our needs. We have our own kit in Lynn which is a tight container, a tape measure to diagram every scene, plastic bags, small cans to preserve evidence, a sponge to soak up materials, small bottles, tweezers, eye dropper, and a jackknife. At a fire scene you may find a clean container. Use it.

Who discovered the fire? Some times it is the guilty party. Who sounded the alarm? What did they see, hear or smell, Was it a neighbor in a window, looking from venetian blinds, a police officer. Their observations are very important. Obtain names, addresses, unusual characteristics, if they are driving, the registration number of their car. What did they see.

Always carry a notebook to the fire. Note the absence or presence of the principals involved. Note their conduct. Spontaneous statements are very important in court. Statements from the officer in charge of fire fighting should be taken at the scene. They can describe fire fighting techniques, unusual conditions such as flash fires, explosions, fire on top of water, the amount of burning of the building. They also know of the safety of various areas of the building. The fire and spread may indicate a motive.

In cases of structural failure, much wreckage must be removed and it is virtually impossible to get to the point of origin. An insurer may foot the bill for heavy removal equipment. This improves education and if the fire is not incendiary the building is returned to the owner promptly. This is good public relations.

CHAIN OF EVIDENCE: Evidence should be collected and labeled immediately. There should be a log which would state who took the evidence, the names of witnesses who brought it to the laboratory and who received it after tests. You must keep a record of possession so that the defense attorneys will not trip you up.

PHOTOGRAPHY: My aide took the photographic course given by the State Police at 1010 Commonwealth Ave., Boston and we built our own laboratory with necessary wiring and plumbing. Public subscriptions paid for papers, chemicals etc. We make a series of pictures: a neighborhood shot; condition of the building; the sides; roof; the doors and windows; after the fire. The street number of the building is in a photo. The progress of the digging is recorded. Sprinkler valves open or closed. Gas outlets. Signs of forced entry, scattered files; bureaus, safes, windows painted or curtained on the inside. These photos are invaluable in fire investigations.

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MIRANDA WARNINGS: If the person you are interviewing is suspected, you should give him Miranda warnings. These are recorded on a card. You have the right to do that. Mortgage information is obtained after the fire. A copy of the quitclaim deed is obtained from the registry of deeds. You have to establish true title. Sometimes the mortgagees would be the ones to profit from a fire. Transfers of title to straws, trusts, corporations and associations sometimes cloud the names of the beneficiary.

The Banker & Tradesman records transfers of property, attachments, bankruptcies, tax liens, and the names of people who might profit are shown in this paper. Dunn & Bradstreet furnishes financial profiles.

CROSS REFERENCE FILE: We have the best in the country in Lynn. We keep a list of all incendiary fires and fires of unknown origin. We keep it by title, address, trust, straws, banks, credit unions, insurance companies, etc. We keep an MO file showing the new methods used by arsonists. We have information of timing devices and chemicals.

We keep a wire inspectors examination and one from the City Gas Inspector. This eliminates cause of fire from hose sources.

On prosecutions we request that the insurer review our file for a possible defense on the insurance loss. This insures good relations with insurance companies and the legality of it will soon be tested.

PROOF BEYOND A REASONABLE DOUBT: The rule is: "The Commonwealth's case rests upon circumstantial evidence. The circumstances must be such as to produce a moral certainty of guilt and to exclude any other hypothesis. The circumstances must be of a conclusive nature leading on the whole to a satisfactory conclusion, and producing in effect, a reasonable and moral certainty, that the accused and no one else, committed the offense charged.

Commonwealth v. Croft 345 Mass. 143.

This rule is not clearly understood by all people in all cases. In conclusion we in Lynn

will continue to wage war on the arsonist by objective professional investigations, by improving our techniques and by seeking truth justice and improved public safety.

MODERATOR SCANLON: A fine talk.

At this time, I would like to introduce to you Michael J. Nizankiewicz of the Muscular Dystrophy Association, who will make a presentation to our New England Association of Fire Chiefs.

MR. MICHAEL NIZANKIEWICZ: It is my pleasure, Ladies and Gentlemen, to be here this morning on behalf of the Muscular Dystrophy Association, and shall make this as briefly as possible, but I do want to say a few words, here. The Muscular Dystrophy Association and the Firefighters have much in common. We are all humanitarian, and we are very, very dedicated in trying to wipe out some of the unfortunate forces of nature, so to speak, and as a result of this type of prevention we save lives.

Now, all of you are familiar with the Telethon, the Firefighters' support amounted to over \$80,000.

As a result of the past year's support, I want to present to your President, Joseph R. Chemo, this plaque, presented to the New England Association of Fire Chiefs for your many years in support of the Muscular Dystrophy Association.

PRESIDENT CREMO: Thank you very much. I accept this plaque on behalf of the Association.

PROGRAM CHAIRMAN LEDDY: The second part of our program this morning will be moderated by Chief Daniel R. Howard of the Bellows Falls, Vermont Fire Department. Chief Howard has been with his Fire Department for thirty-seven years, fourteen years as the Chief and twenty-three years as a call man; he was appointed Chief in 1961.

CHIEF HOWARD: It is a real pleasure to introduce Mr. Richard E. McDonnell, Mgn. Law Enforcement I. B. M. of Bethesda, Mr. McDonnell.

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COMPUTER OPERATIONS FOR FIRE DEPARTMENTS

Richard E. McDonnell

We began about three years ago to address our attention to the needs of the Fire Departments. Law enforcement is about 85 % covered by computers, using terminal oriented computers, central files etc.

Three years ago we had a session with Fire Chiefs, about 24 of them at Long Beach, Cal. and I will share some of that meeting with you. Computer technology is expensive but if your problems have reached the size where manual processing is inadequate, you might like to look at local installations. Each department would like its own box but this is expensive. Most communities lean toward the central computer system shared by many. Adding your information to the system might not be too expensive.

Cost: If you share a system it might be a few hundred dollars per month.

The goals of Fire Operations are:

1. Protection of life and property.
2. Fire Prevention.
3. Improved Community Relations.
4. False Alarms.
5. Improved Fire Defenses.

Not all of these things can be put through a computer. There are problems of increased populations, vacant buildings, which are major problems in fire operations. A computer is essentially a very high speed adding machine and file. Cross indexes do many things very quickly. They have no human problems. Where you would like to see a lot of information in your files and you haven't got enough people to do it, then you go to a computer. Then you get information such as location, date of structure, class of violation, permit information, inspections reports, occupants, kind of materials stored etc. It goes after the record and brings it to you in seconds.

INSPECTIONS: All inspection records can be stored year by year and all brought back promptly when a fire breaks out at that location. The inspection record can be reviewed on a daily, weekly or monthly basis.

FIRE SUPPRESSION: Dates, response, materials ignited etc. You get at the basis for

arson and there could be volumes of such information.

FIRE INVESTIGATION: You can record time, weather, occupancy etc. Other problems such as wire deterioration at stated dates, general weakening etc.

FIRE DISPATCH: We attempt to describe through the computer the geographical area block space intersection etc. Address data is stored. The computer can show an improper address. We want to dispatch the appropriate equipment for the job. The computer takes over timing this operation and maintaining the status of all units assigned until they are back on available status. It will tell you the distribution of the work load, how long it took to handle it etc.

In case of conflict with the police department, Nassau County put police and fire dispatchers in separate rooms with a cable through the walls. It works. When there is a fire they handle traffic control as well. This avoids confusion.

FIRE MANAGEMENT DATA: We have machines which print 1100 lines per minute and some which print 13,000 lines per minute. You can obtain the frequency of fires at stated location by year or month. The location of hydrants in relation to area sites. The pressure at these hydrants. High rise building protection is another area. Relocation of boxes. Are there any questions?

CHIEF KNAPP: Are there computers in the price range where limited use is required in small departments?

MR. McDONNELL: The smallest would cost \$8,000 per month.

CHIEF KNAPP: There are others besides IBM aren't there?

MR. McDONNELL: Yes but they cost \$8,000 per month. If you have a city in your area which has a system perhaps you can join that system. Kansas City services other police departments at about \$150 per month. You cannot get into the computer business for less than \$1,000 per month. That type of

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service would be used in communities of 30, 40 or 50,000.

COMPUTER SHARING: Many people are unhappy with sharing plans. The reason is that they do not communicate with each other. Heads of departments must sit down and discuss this planning. That may be difficult for personal reasons but it avoids conflict. For example, you have a major fire and you want to use the computer. You cannot wait until the payroll is finished. The City Planner and Assessor will understand if the problem is put to them. They would not suspend for a month but for a mere few minutes at most. We have 3000 police agencies in one system. They have 26 board members and some meetings are brutal but they have worked the matter out. This is a happy system.

CHIEF WYATT: We would be much better off if we had a Fire Department Computer for all of New England or Rhode Island or

something like that. We hope that we can do that some day.

MR. McDONNELL: A very good idea. This would give total resources to one kind of problem such as the N. E. Asso. Fire Chiefs.

MODERATOR HOWARD: Thank you. Meeting returned to Chief Leddy.

PROGRAM CHAIRMAN LEDDY: Thank you, Dick, and thank you, Mr. Moderator. Did every one get a ticket for the prize drawing when you came in? If not, John Devine will give them out and we will have the drawing before we leave. And, don't forget that we have a program this afternoon at 2:00 o'clock and then at 3:00 P.M., we are cutting off the program so that we will all have the opportunity to visit the exhibits, and there will be plenty of time for that.

This Tuesday morning meeting is now adjourned.

(Adjournment at 11:55 A.M. after the prize drawing.)

TUESDAY AFTERNOON SESSION — JUNE 24, 1975

The Tuesday Afternoon Session convened at 2:00 P.M., June 24, 1975, with the Program Chairman, Chief V. Paul Leddy presiding.

PROGRAM CHAIRMAN LEDDY: I would like to call this meeting to order. This afternoon, we have only one speaker.

At this time, I would like to introduce your Moderator for this afternoons speaker, Chief William A. Hoysradt of Torrington, Connecticut. He has been twenty-eight years with his department, and ten years as Chief. Bill is a member of the Board of Directors

and the By-Laws Committee of the Connecticut Fire Chiefs' Association.

CHIEF WILLIAM A. HOYSRADT: Gentlemen, it my pleasure to introduce to you an Associate Editor of Fire Engineering Magazine, and he writes a column called "The Volunteers Corner" in that magazine. He is a past Chief of the Noroton, Connecticut Fire Department, and he is still an active firefighter of that company.

Mr. Richard P. Sylvia will speak on the subject of "Initial Attack Options for Volunteers."

INITIAL ATTACK OPTIONS FOR VOLUNTEERS

Richard P. Sylvia, Associate Editor, Fire Engineering Magazine

There really isnt a great deal of difference between the operation of a paid Department and the Volunteer Department. One is the difference of perhaps one or two minutes of response time at night, and not necessarily in the daytime, when volunteers are at the station early in the evening, and there is also that unknown quantity of how many men are going to respond in a Volunteer Department.

And so, for this reason, you do have to take into consideration in your development of standard operating procedures something that will fit a small turn-out and can be expanded so that you can operate with a larger turn-out to greater advantage.

Sometimes, I think we are a little bit under-rating ourselves when we look at the turnouts that we have, and in my town, for example,

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sometimes in the daytime we will have a turnout that, well, you know, we are a little bit concerned about it; and yet, we compare it with some of the Paid Departments in our area and we find out that they don't send any more men to an alarm than we get in the daytime.

As far as professionalism is concerned, you will find that in both the Paid and the Volunteer Departments. This is a matter of acquiring knowledge, and it is not whether you get paid or not.

One of our problems, of course, is solving the response time factor. If we can cut down a little on the time between the alarm and the time we get to fire headquarters, then we will have made some gain. In that connection, I want to show you a few ideas.

The turn-out gear is one of our problems. Many Departments, of course, keep it on the rails. Keeping it in the cars of the individual volunteers, we have found that it not only cuts down a little on time, but it also insures that every man has his turn-out gear on either when he reaches the station or the fire-ground. We find that this works out best, because when the gear is assigned to the man he takes care of it. Some Departments will have the gear either on hooks or in little cubicles in the Fire House, next to the apparatus. These Departments discourage driving their personal cars to the fire.

The breathing apparatus should be readily available. Either behind the jump seats or in the holders in the apparatus.

In this type of unit (showing slide), the men have the shoulder straps over their shoulders when they get there. All right. Other equipment can reduce your response time, and in this particular case I have two items here (showing slide); one is pre-connected hose which is used in getting water on the fire quickly. From your experience, you can tell how much hose you will need. In some cases, you will want 250-feet; in other cases it may be 150-feet or 200-feet that would be enough. Also, a mount for a portable deluge gun with a hose connected to it, and this hose can be rapidly connected to an outlet on the pump. You can get 500 or 600 gallons of water to a 2 1/2-inch line, with no problem whatsoever.

The suction hose is a 2 1/2-inch line, pre-connected; the 1 1/2-inch line obviously will not extinguish the fire. The pre-connected suction line makes it possible to send an apparatus to a hydrant, with just the driver. The 2 1/2 line suction intakes are helpful, particularly in areas where all of your hydrants do not have proper connections. If you do not have it built onto the apparatus, you can buy some, and they will do the job for you.

In this case (showing slide), we have pre-connected the 2 1/2-inch suction, readily available.

Another view of that is carried in the 2 1/2-inch suction, in a little compartment on the side of the apparatus. Extra hose, 2 1/2-inch for suction use, in doughnut rolls, makes it possible to run parallel lines, with the use of a hydrant gate.

Because we run into difficulty sometimes where we don't have the right setting, either male or female, when we want to couple those, we carry a full set and have them by the pump operator's position.

The split hose bed gives you an option, which is extremely important in your rural-suburban areas. In this particular case (showing slide), the entire hose bed can be taken as one single line, or by breaking a coupling, we can stretch parallel lines.

In this view here (showing slide), we show the fact that the hose in the second bed is kept coupled because we happened to find it is easier to uncouple, than it is to couple. We can make parallel lines very readily.

Then, at the end of a hose, we carry a double female, which can always be taken off. It is easier to do that than to try to find one when you need it.

In some cases, you may find that putting a double male on the plate pipe will be helpful and will solve one of your problems.

Now, 4-inch hose is becoming more and more popular, not only in the rural Departments, but also in the suburban and large municipalities they use 4 and 5-inch hose. In Cleveland, its downtown companies all carry 2, 3 and 4-inch hose, and in Wichita, they use 5-inch hose. Why? For inline pumping. You will find that with 2 1/2-inch hose, you

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are seriously limited as to the distance you can stretch from the hydrant to in-line pumping. However, with the 4 or 5-inch hose, you are really laying a water main down the street, and you find that your in-line pumping will work out much better. This is a relatively easy operation, and where you are short-handed, your first end pumper will go directly to the fire and can operate there to a supply line from the hydrant, and you can get water on the fire quickly and you have a continuous supply of water.

I might add that one of the things you have to be careful about is that the second and third new pumpers do not do in-line pumping, because obviously, if you want additional pumping ends to hook-up, you need additional water, and if you want additional water, you want to have the capability of getting all the water that your main group supplies. That rules out in-line pumping for anything but the first apparatus.

One of the difficult things in the training is to recognize the fact that the fire the man sees on the approach may be too large for an in-line pumping operation. You must recognize that a large fire requires the pump to go directly to the hydrant, to get the maximum supply of water from the main.

Here is another version of it (showing slide). You can see the type of apparatus, which is all for the sake of getting a lot more water with a single line.

You might also find that a map in the Fire House will give you a routing to assure proper response to the fire. This particular map is kind of interesting, because every spark has a jack and the plug is put into the right jack for the box, and then the route is made from the Fire House to the location of the fire. It is pretty hard to say whether he could go left or right, but the lights will tell him that. This was done by a member of our Department, and I am sure that we could not have afforded it if we had to pay for it.

Another way of cutting down on manpower which, so far, has not come into the Fire Service to any extent at all yet, is a system of radio control of the pump from the nozzle. This shows the control panel on the apparatus (showing slide), and it shows

the stream coming from the nozzle in the close-up. It shows you the radial segment of the nozzle. With this, the man can control something like seven (7) different gallonages up to about 325 C.P.M. and down to complete shut-off, which releases, really, the pump operator.

If you are in a situation with a three-man response, maybe it will be worthwhile to think of something like this, eventually.

The factor again gets into the picture in response to second alarm apparatus. Ideally, if you can arrange for your second alarm apparatus to respond automatically, I think you will find that your response time for the apparatus you need for the larger fires will be materially reduced. If the apparatus is not needed, it can be turned back. There is no problem there. If you don't want additional apparatus responding at all times, you may want to consider it for special target hazards, such as hospitals, nursing homes, and maybe that big factory that you have in town where you know that the equipment you have in your own Department and the manpower you have would never be able to cope with a serious fire, even when at least your aid is already on the way.

In some cases, you might want the automatic response of apparatus only; perhaps you need an extra ladder truck, or you may need a rescue truck on some alarms, and this can be arranged for automatic response.

Perhaps at night, your neighbors might have a lighting truck, which you would like to have respond. And, perhaps at other times, you have some special equipment that you can help them with from time to time. One of you might have a hose wagon that carries large diameter hose than can serve two or three communities.

Now, there are some response options here. You might just call one or two or three companies for whatever will fill the needs of your Department. It might not be just for equipment; particularly in the daytime, it might be for manpower. In our own town, we have three autonomous Fire Departments, in the daytime, as in most volunteer communities. The manpower problem can get rather serious. So that in the daytime, the company

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where the alarm originates responds with all apparatus, in each of the other two Departments. Yes; one piece goes, and it must be with a minimum of five men. Then, other men who respond to the station in each of these two other departments remain in the station until they are released by radio. This is so that if additional equipment is needed, they are available to drive the additional equipment to the fire ground with the other men who are still in the station. If they are reached by radio, they may do as they please; they may go to the fire in their own cars or go back to work or go home, it's up to them.

Another thing that I would like to talk about is what you do with the manpower after you get them to the fire ground. The best use of manpower can be planned in advance. You may take a standard pumper, and you say: "All right. No. 1 man here is the officer in charge, and we don't care who he is or what his rank is, for if he sits on the right-hand side of the cab, he is the one in charge of that piece of apparatus."

Now, the No. 2 man, of course, is the operator. And then you can go to No. 3, in the jump seat, and No. 4 in the jump seat, and you can continue in that fashion until you have something that looks like that, and you make the assignments for these men. For example, you make No. 1 the officer in charge. No. 3 will be perhaps the entry man and No. 4 will be the research and rescue man. Or, if they have additional men available, instead of rolling with four men, you may have six men, and then both of these men, like the forcible entry and search and rescue, No. 5 may be the hydrant man and No. 6 the nozzle man, and if you have a No. 7 man, he could be the back-up man on the line, along with the officer, who should be No. 2 on the line.

So that these men, by the position they take on the apparatus, will know what is expected of them, once you get to the fire ground, and the tools can be assigned to the men to take into the fire.

If the apparatus is going to stretch from the fire to a water source, then these men, by their positions on the apparatus, can have

assignments as to the equipment that should be taken off the pumper before it leaves the fire ground.

There is nothing worse than wanting another breathing apparatus, or looking for a tight hole and the pumper is 15 feet down the road. All of that equipment should be on the ground where the pumper was, before it leaves the fire. The equipment is available. You can always put it back, if you don't use it. If you need it, it is right there. These men are trained, and they associate the equipment with their riding positions on the apparatus, and this is what they will pull off before the apparatus stretches and gets out of working distance.

Now, remember this. In the smallest Department that you have, the Department may have one pumper, or it may have two pumps, but the ladder company works and exists at the fire. You have to do search and rescue; you have to ventilate, and you have to do salvage work. You must do these ladder company duties. So that these men must be trained to do these duties, and the extra men should be used for this purpose.

And then, when your attack is made with hose lines, you will have the benefit of the training company work being done. Some one is responsible for doing the actual ventilation. Some one is responsible for the forcible entry. And, some one is responsible for the search and rescue.

The man who first rides in as Officer No. 1 in charge of that first piece must make some decisions, and in your training and in your operations in any department, Volunteer or Paid, I think that you will find that if you have some standard operating procedure that will cover your general situation, this will be very helpful to the man who has to make those first decisions, like 1 1/2 and 2 1/2-inch lines, and should I do the pumping, or hook up to the hydrant, or should I send the pumpers to the river, or should I do this or that? Your standard operating procedure should give the first officer enough room to make these decisions, because you want to have these procedures go to a specific place.

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where the higher officer rides to the fire ground, and they should be bound enough so that the officer cannot make some fast decisions, either by error or by some other reason. But, you must give this officer some room in which to make some decisions, and I think that this is important, not only in developing your officers, but in improving the morale in a Fire Department.

Now, there should be some pre-fire planning. In a large municipality, this is not a great problem, as far as the first company is concerned, because there is a hydrant on every block, and sometimes on the corner and in the middle of the block, too. But when you get into the suburban and the rural areas, then the water supply becomes a serious problem.

Make maps of your water sources. Make maps of the rivers, the brooks, and make maps of your hydrant system, where you do not have a hydrant on every corner. You can make, sometimes, small maps, 8 1/2 x 11 of sections of our area, so that these can be carried on the apparatus, on the pumpers, and when you are responding to a certain area, you just slip out the map and you know what the water supplies are that are attributable in that area.

Don't let anybody get into the situation that I did once. I drove a pumper to a fire, many years ago. I got an order to go to a pond on a nearby road, and I asked some one, on the way: "Do you know if there is a pond on that road?" I got a blank expression. Then I asked somebody else: "Do you live around here?" He answered that he did, and so I asked: "Is there a pond on that road?" And he said: "There used to be, but there hasn't been one there for four or five years, now."

So that all I can say to you is to keep your water sources up-to-date, as your municipality grows. Always determine how much water you can get from your water sources, so that you can plan your fire ground operations accordingly. If you have a limit of 600 C.P.M. from your supply in the area, or 1,000, I don't care if it is by tanker shuttle, by pumper relay or by hooking up to a hydrant, if this is all the water you can get in

that area, you are going to have to fight the fire within the limitations of the water supply, and if you have your water supply listed as 600 on the maps, and it happens to be an 800 fire, what is going to happen to the fire? Well, now, it's going to keep burning until it gets down to 600, and in the meantime, what about your exposures?

I know that you would have been better off if you had said: "I have 600 available; I can't put the fire out; I can't darken it down with the 600, but I can protect the exposure." That is why you need to know how much water is available.

If you go into a tanker relay, then you can know how much water the tanker relay in your area can supply. I don't care what somebody in Louisiana can do with a tanker. Find out how much you can supply with your neighbors using tankers. Have a drill and time it, and measure the water that you can maintain constantly on the fire ground; then, you will know what size of fires you can handle successfully. And, you will know when exposure protection is the vital thing, rather than trying to extinguish a fire that is impossible, with the amount of flow available.

As I mentioned earlier, you get various responses from your men at various times of the day. What can a minimum number of men do? Well, I started with one man, because unless you have one man, I don't even get the apparatus to the fire, although they are working on that. Actually, friend of mine down in Texas, in Corpus Cristi, which operates by radio, says that you still need one man to operate the radio.

Well, one man can handle a booster line; he can handle a 3 1/2-inch line pre-connected. This means that if you had a small store fully involved that one man could at least put the thing into operation and dump the contents of the booster tank into that store through the deluge tank. Two men would give you a little more capability. They could easily operate the half pre-connection and even take it up a couple of flights of stairs and, of course, they could use the amount of deluge with three men. You get into 2 1/2-inch capability and actually, of course, they

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could use the mounted deluge very well. With a pre-connected 2½-inch line, two men could probably get that into operation, provided you keep the 2½-inch down to 150 feet or no more than 200 feet, but it would be a difficult thing to do.

Sometimes, what you have to keep in mind is that you can get the larger lines into position and start water if you have a record showing that within that minute or two of time that it takes to get the line into operation, you will then have additional men on the fire ground, and now you can begin expanding your operations.

As to the minimums that I have been talking about involving the men on that first piece of apparatus, then you can use your experience to see what you can do to expand the operation with the additional men that your records say will be there, and the additional apparatus that you can summons. What types of operation can you use? What are your choices in attacking a fire?

Earlier, I mentioned in-line pumping, and I mentioned this because it provides for a very rapid application of water to the fire. If you start water from your booster tank, and before the booster tank is exhausted, you should have a supply of water from a hydrant. This gives you a rapid attack on the fire. On the other hand, it does have some dangers. And, one that I mentioned earlier is that the supply lines may be too long, and you will not get as much flow as the hydrant can provide when the pump is hooked up to the hydrant directly. If you can launch the supply line, and this can happen particularly in rural situations, then your second pumper automatically should go to a hydrant or a water source, and what I am taking out of the typical situation is where you may have a long driveway, there may be a house down here (illustrating) and your first engine goes down here, but not before you drop parallel lines at the road, and the second pumper can pick up the parallel lines and go to a hydrant and hook up, or you can put a gate on here and put a tanker shuttle into effect, or you can run a relay pumper operation. Once this pumper has gone down here (illustrating), it is lost there for the rest of the fire, and you have to plan accordingly.

Therefore, he should have stretched his line on the way in, so that he can be supplied with water during the rest of the fire.

The idea of having an attack pumper going directly to the fire gives you the advantage of quick application of water from a booster tank, provided you immediately back up this pumper with an additional water supply. This is what must be in your standard operating procedure. This really should not require any additional water from the officer in charge, because once that attack pumper goes to the fire, then it is the duty of the pumper to supply water to the attack pumper. And, whatever system you have, the duty is to get water to that attack pumper. This should not require additional water; it should be automatic, and part of your standard operating procedure, and in some cases where you are using the tanker shuttle, it would be automatic to drop a portable tank on the ground. In some cases, people use two portable tanks, and very effectively, with suction into each. In some cases, they use a portable tank to draft from, and they also use a 2½-inch line into the pumper from a tanker directly.

I have found that people tell me this works ideally, because they are taking this setup. Here is your pumper (showing slide), and you can set up a portable drafting tank and you put hard suction into it. You have another suction line 2½-inch suction, and when a tanker comes up here, you just hook up and you take water from this tanker instead of from here (indicating). What they tell me is that if you use 50 feet of 2½-inch hose, you do not have to set down at this gate, and just the suction alone will collapse the hose, which will continue, and it gives you two ways of getting water into the fire ground pump.

The other option that is available is one that goes by the name of the blitz attack, in which you try to apply a large volume of water, at least 250 C.P.M. and in many cases 500, within thirty to sixty seconds. What is behind this is the thought that if you will apply a small volume of water, say 125 C.P.M. to a well-involved area, you will not extinguish the fire; you will not even darken it down, and you can stay there until you run out of water in your tank, or, if you

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have a supply coming in from a relay or from a hydrant, you can stay there until the fire burns down.

The thought is that if this fire gets a sufficiently large volume of water in a short time, you will darken down the fire because you will observe more B.T.U. than the fire screens rate. If you apply 500 immediately, you will darken down the fire, and you will now have two, three, four or five minutes to get more water, for the 1½ hose line used for overhauls, and in most cases you will have no problems. Your second pumper or your tanker will be there in that time, and will have that extra amount of water that you will need, and you will use your first tank full of water to a maximum advantage. This has always been regarded as pretty much a rural attack method, and yet it never went under that name, but it was used in many large city departments during the times of trouble, during the rioting in the various municipalities throughout the country. They had no time to stretch hose lines. They had to get in quickly, and get out even more quickly in some circumstances, so they rolled it and hit it with a deck gun or a mounted gun and put a large volume of water in there.

Most people who went through that experience will tell you that they put out fires with a response of two engine companies and a truck company that normally would be two-alarm fires or better, but they could care less about water damage, because they knocked the fire down. Actually, if you knock a fire down and shut your nozzles down, you will not have water damage. If you let the fire continue to burn, because you do not apply sufficient volume of water at once, you will have no water damage and you will have no building. No one has ever complained of water damage, with a total loss of a building.

The other method of attack, for small fires is the blitz attack which, unfortunately, does not give you an opportunity very often, because the conditions have to be just right. What are the conditions? The fire has to have reached the smouldering stage, where you see no flame; a tremendous volume of smoke is in the building; smoke is pushing out of the building in all crevices, out the

eaves and around the windows and the doors. Also, the window glass has turned brown, and you cannot put your hand against it; it is that hot. You make a little opening, and you take out the smallest pane, where the scene of the fire probably is, and you introduce a fog nozzle at that point, and you open it up and apply water up near the ceiling area, as much as possible. Then, the Chief stands back, and when he sees the white stuff coming out instead of black stuff, then he says: "Shut the nozzles down." Then you open up and you walk in. The temperature is hot, but you can stand it, even though you are uncomfortable. But, the fire has been knocked down. The only trouble is that that doesn't happen too often, when you get the right combination of a smouldering fire, a pretty well-enclosed structure and sufficient heat. But, if you do find that situation, about three men could take care of this fire, and you have no ventilation to do. In fact, if the building is too well ventilated, the attack will not work properly.

So that all I can say is that when you do have this type of situation building up, it is ideal to make use of it, instead of opening up and finding yourself getting into the smouldering and the flaming stage when you enter the building. But, don't try it every time. Conditions must be right for this type of attack.

There are other problems that we get into, I think, with the rural and suburban Departments, and I say this, not because we are suburban or rural, but I say it because of the street layout or the road layout. We might have a dead-end road, and we do have roads that don't have another cross-road for several hundred yards, maybe half a mile. We are not like they are in the city where you go around the block; if you make a mistake in moving the apparatus, you drive around the block and straighten it out.

Apparatus responding to the fire ground after the first one should remain mobile until it gets an assignment; what I mean is that it should be stopped short of the fire, where you can turn around, if necessary and still move without getting the fire ground cluttered up, until it gets an assignment from the officer on the first apparatus.

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Where you have mutual aid coming in, use a staff officer; use one of your Assistant Chiefs or Deputies to locate the incoming apparatus and assign them to positions before they pull into the fire ground and create a traffic problem, a traffic jam.

In mutual aid situations, as well as in your own Department situations, maintain a disciplined control of the company assignments. Give an assignment to a company and see that it is carried out. In this way, you will maintain control of the fire ground, and the next time you will have the company in for mutual aid, they will respect your decision and you will have a smoother operating ground on which you are the Commanding Officer of the fire. This allows you to select your plan of attack and have every company responding, to participate in developing the plan of attack.

I have talked about a number of things which affect rural and suburban Departments, and I think that perhaps you will agree, as I mentioned earlier, that many of these things still apply to any Fire Department after '58, for the objective of every Fire Department is to extinguish fires, and this is really what we are talking about.

Let me leave you with one thought this afternoon. The various types of attacks, such as the in-line pumping, sending the tank pumper directly to the fire, the indirect attack, the various assignments of men to their duties according to the position they ride on the apparatus - these are all problems that face you as administrators in your Fire Departments and as training leaders in your Fire Departments.

I have one consoling thought for you. Once you get the fire out, all of your other problems have just about vanished.

MODERATOR HOYSRADT: Gentlemen there is going to be a drawing. Are there any questions that you would like to ask Mr. Sylvia?

QUESTION: When will the Fire Departments change over to the Metric System?

M. SYLVIA: The change over to the Metric System in the United States will be done

voluntarily, but it is coming; and there is no doubt about that. Some projections say ten years and we will be on the Metric System pretty much.

I think in answer to your question, to the best of my ability, I have no facts to base it on; therefore, I'm an expert! But, seriously, I think we will be pushed into it, more than anything else, and the fittings, measurements and so forth will be going Metric so that we will have to go to it.

PROGRAM CHAIRMAN LEDDY: Are there any more questions?

CHIEF HANSEN: How much are you doing about evaluating municipal water supplies? In other words, you have got to know how much you have to work with before you get to the fire. How much is being done along those lines?

MR. SYLVIA: There is a good bit of work that was done on fire requirements. The insurance offices, about four years ago, put out a pamphlet on Fire Requirements, and for the first time they based the fire-flow requirements on the type of construction, ordinary construction, wood frame, fire resistant, and they also based it on the square footage, the number of floors in the building, and also what is very important, how close are the exposures. If you have a three-story wooden building and it is one hundred feet away from anything else, you don't have much of an exposure problem. If it is only six feet away, you will need a lot more water. They also gave credit for a sprinkler system.

The booklet will say that you will get 25 per cent reduction for the sprinkler system. Since then, the public technology people got together with them at a conference, and they finally came up with a decision that isonol will give you 50 per cent credit for a sprinkler system.

Now, I might say that this is a problem in the United States, with the Fire Departments hard-pressed for money, in the Paid areas particularly, some municipalities, particularly a couple out in California have said: "This is the size of the Fire Department today, and ten years from now it's going to be this same size." For, people will say that

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the city is going to grow. Yes; we know that. Yes, we know that; but, the Fire Department is not.

And yet, you are going to get bigger industries coming in. And we are going to require industry today to do one or two things: either provide built-in fire protection such as sprinkler systems or other automatic extinguishing systems, or they are going to have to use fire walls and contain the fire within the area that their department will handle.

Now, this is a thing that I always enjoy, because I know you will say: "Well, that's a Paid Department." A Paid Department? Nonsense! This is the Volunteer Department. Suppose you have a community where you have three engine companies, and you have a limited amount of manpower, and a big manufacturer says: "I'm going to buy this 100-acre spot and put a big plant in here." And you say: "My God, if we had a fire there, we would never be able to extinguish it. People would lose their lives, and some remaining people would lose their jobs because the Fire Department wouldn't be able to take care of such a fire."

All right. You say: "Yes, you can build your 80,000 square foot plant, but you must

build fire walls, so that no area will be larger than 10,000 square feet, and you will also have to put in a sprinkler system. If those things were done, then we could handle it."

Now, your Volunteer Fire Department looks good. It has gone ahead and it has done some planning before the building is constructed, when you can get fire walls and sprinkler systems.

PROGRAM CHAIRMAN LEDDY: Gentlemen, the demonstration across the street is just about to start on the rescue business. They have the television crew all ready, and they want to get started.

Carl, may we have that drawing now.

(The drawing was then made, and the holder of ticket No. 567,361 was the lucky Fire Chief.

PROGRAM CHAIRMAN LEDDY: Gentlemen, this Tuesday Afternoon Meeting is now adjourned.

(Tuesday Afternoon Session was adjourned at 3:15 o'clock P. M.)

WEDNESDAY MORNING SESSION — JUNE 25, 1975

The Wednesday Morning Session convened in the Derby Room of The Wentworth-By-The-Sea at 9:45 A.M. on June 25, 1975, with Program Chairman Chief V. Paul Leddy presiding.

PROGRAM CHAIRMAN LEDDY: This morning, we are going to start off with our Moderator, Chief Robert W. Fitz of Hampton, New Hampshire, who has been six years with his Department, and only seven months as Chief. He was a Municipal Protection Engineer for the New England Fire Insurance Rating Association for ten years, and he was with the Gamewell Company in Sales and Service for two years. I want to introduce Chief Fitz to you, and he will introduce our program for the morning. Chief Fitz.

MODERATOR ROBERT W. FITZ of Hampton, New Hampshire: The title of our topic this morning is "Safety at the Signal." I think that it is a very timely topic, dealing with the control of traffic signals by responding emergency vehicles.

We have three gentlemen, who are to address us on this general topic and they are eminently qualified to discuss it.

The first man I am going to introduce is from the 3-M Company, manufacturer and distributor, of Wantagh, Long Island, New York. Mr. John P. Barrett is with the Traffic Control Devices Department of the 3-M Company. John has been a volunteer fireman in Wantagh, Long Island, for twelve years, during which time he served as Captain of

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the Ladder Company there. He attended the New York State University in Firefighting.

Chief Donald Lane is with the Portsmouth, New Hampshire Fire Department, and Chief William Cremins is with the Cambridge Fire

Department, and they will speak about actual experiences on the system.

Without further ado, it is a pleasure for me to present to you at this time Mr. John Barrett.

SAFETY AT THE SIGNAL

Mr. John P. Barrett, Traffic Control Devices Department
3-M Company, Wantagh, Long Island, New York

The first thing I want to do is to welcome you to some cool weather. I just can't believe it, being up here in New England for so many years, and then this awful hot weather. It is a little cooler today, and that's good.

And now, let us get back to what we want to talk about this morning, "Safety at the Signal" or "Safety at the Intersection." I drove the trucks myself for ten years or so, and I guess we always had to go out on the outside, and I never thought for a moment that in time I would have to be getting up here and talking with the Fire Chiefs about something I love, and that is, getting to the scene properly.

I am going to ask those of you who have not seen this film to stop and think about the overall responsibility of the money that goes into a system like this, compared to the higher cost of equipment, because I think that is the thing that most of us have to be concerned with is replacing fire equipment. This film takes approximately twelve minutes, and after the film we will have a period of eighteen minutes to discuss it or have a question and answer period.

(The film)

Gentlemen, you have all had a chance to observe this very interesting film.

I think that the program this morning is designed to give you a little insight from people in the field who are using it, or, actually, how does this work?

And now, I am going to call upon Chief Donald Lane of Portsmouth, New Hampshire, who has some interesting remarks for us, under "How It Works For Me." Chief Lane.

CHIEF DONALD LANE: I believe that I am the only one in the State of New Hampshire who has the Opticom, and if it hadn't been for Urban Renewal, we probably would not have gotten it.

The first \$25,000, that was for thirteen intersections, and we were missing about twelve. Now, for this year, we were lucky to get anything; but, in fact, we almost lost our sub-station. It is my idea that, hopefully, we can get two at a time, and for the next five years we can probably do this. This, I might add, is jointly with the Portsmouth Police Department.

I have six units, now; one on an ambulance and one on a truck. And, the Police Department uses these on their cruisers. We have been lucky, that we haven't had any really serious accidents. We did have a couple of minor things. In fact, two months ago, on Route 101, in going to Exeter we had the red light and we gently went by it. The light turned green. A driver was apparently puttering with something, and then he looked up, and bing, it was \$850.00 for the fire truck and \$1,000 for his personal car, and he had no insurance. My driver in the City of Portsmouth is to appear in Court on July 1st. I haven't got the figures, but I know it is around \$110,000 that they are suing the City for.

And so, basically, I think it is a very good system that we have got in operation, and, hopefully, it can be completed. It can save lives, and we all know, and I know myself, because I drove the most useful vehicle, the ambulance, and it does help a lot on that because that is going continually for twenty-four hours a day, and it does help.

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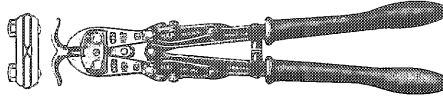
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We have some slides here that I want to show you. This is the ambulance.

This is a clearer picture of the ambulance (showing slide) as we go out of my station. It is just on the edge of town, and as we go out of the station, it would be impossible to use this way here (indicating), so we have it on top of the Fire Station, so that we are going across. Now, that also turns another intersection. And that is the first corner that we come to, and it is right next to the bank. That is the second intersection, which is also controlled from the tower.

This has two controls (showing slide). There are a lot of fluorescent lights on the same street, and they can control it, too; if we are not careful, that is. So that we now have a double one.

This next slide shows going down one of the streets that goes to the Urban Renewal, and that is the four-way section.

This is on a curve (showing slide), and the light is to the left, and that changes before we get to the traffic light on the left.

That is the traffic light as we get around the corner (showing slide). And that is the John Pul Jones House, that was painted for this advertising. The building to the right of that is the Rockingham Hotel, which has now been made into a condominium. That takes care of it as far as I am concerned, and I hope that I didn't go over the twelve minutes. Thank you very much.

MR. BARRETT: Thank you very much, Don. You mentioned that it was a joint venture with the Police Department and your Department. This immediately says something to me.

CHIEF DONALD LANE: There was a little discussion with the City Marshall who, at first, didn't want to agree with us. Of course, they know pretty well that they have a tape in the Police Station; they know where we are going and when we helped out, and the Police Department has agreed that they won't go the same route we are going, but we will get there pretty close to the same time. The only thing that I have seen is that they are going up the street, and when the light changes to green, they will go to the Coffee Shop, and the light stays green.

One further question on that. Suppose that by some accident, the Police Department and you do have two pieces of apparatus approaching in the same intersection.

CHIEF LANE: It is hopeful that the first unit will contain the control.

MR. JOHN BARRETT: Thank you, Chief Lane. Our next speaker will give you, also, his personal experience in a much larger and perhaps busier Fire Department in the City of Cambridge, Massachusetts. Chief Cremins, who has had this system for a while, has personal experiences to relate. I give you Chief William Cremins of Cambridge, Massachusetts.

COMPANY SAFETY AT THE INTERSECTION

Chief William Cremins, Cambridge Fire Department Cambridge, Massachusetts

I think that it was on August 27, 1968 that I received a telephone call at five o'clock in the morning that my apparatus had been engaged in a very serious accident, and the fire alarm operator told me that two of the men were in very, very serious condition, and the Chief was already on the way to pick me up. I stopped at the hospital on the way down, and one man was dead on arrival and the other man was badly injured. One of

these men was crippled from the waist down, and will be for the rest of his life.

This was the result of a crash between the ladder truck and a heavy cargo trailer at 4:55 o'clock in the morning, at the intersection of Prospect and Cambridge Streets in Cambridge. They were responding to a working fire, and this was a heavily traveled area.

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This gave me the incentive of looking for something so as not to have a recurrence like this. It is a devastating experience, and it was an awesome experience for myself, or it would be for any one of us, as Chiefs of Departments, to have to visit and go over to the home of a deceased firefighter and break the news to his wife and stay with her and try to console her, it is certainly something that I don't look forward to.

So that when I read some literature, it looked as if it was something that I needed and wanted. Now, the City of Cambridge is a very tight and congested city, and in the NFPA statistics of four or five years ago, in cities of over 100,000, Cambridge was the third congested city in the country.

It is an industrial city and a college city, and it has just about everything in it. So that we needed something like this, and this is why I looked forward to it so much.

I have some slides here that I want to show you. The question comes up, and I think that Don took a little of my fire away, as to what happens when your apparatus comes together at the same intersection. We do have a situation like that, and I would like to point it out to you. This slide shows Central Square in Cambridge, and this is Massachusetts Avenue (showing slide), running east to west, and Western Avenue converges in a southerly direction into Central Square. This is Prospect Street (showing slide), which also converges on Central Square; it starts at Central Square, and it runs in a northerly direction, towards the Somerville line. It is a heavily traveled street.

This is Central Square, of course, and this section shown here is Massachusetts Avenue, running in an east-west direction. That (indicating) is Prospect Street, and over in this area here is Western Avenue. You will see the detector up here (indicating), and that is the device that catches your signal from the Opticom.

This picture (showing slide) is taken from one of the newer high rise buildings in the Square. Over here (indicating) was our previous high rise building of ten (10) stories, which is now kind of obsolete in our city.

This is Massachusetts Avenue (indicating) and here is Prospect Street that I told you about before, and here, it converges with Western Avenue and two other streets. Now, this is a continuation, and this is Western Avenue, and it comes around the corner here (indicating), right up towards the Charles River. This (indicating) is River Street and this is Magazine Street. One of the interesting things about what they will do is this high-emission signal. Of course, it will not turn corners, but at this point, you have the parallel detectors, picking up the signal and relaying it to this light over here (indicating), so that you have a clear run on the green light all the way.

But, to go back a minute to the previous slide, this gives you the co-relation between Central Square and the arteries that I have just spoken about. This is another shot of Central Square (showing slide). This is the high-rise building that we took the picture of, and this is Prospect Street, going towards the Somerville line. And, this is another shot of Central Square (showing another slide). This one shows Massachusetts Avenue, running in the westerly direction towards the Boston line.

One of the points that we would like to show you is this. Here is the Fire Station, which makes the run in this direction down here, and they have an Opticom or detector at Massachusetts Avenue, and Brookline and Massachusetts Avenue and Essex Street, right down here at Central Square. Now, if we think back of some of the shots at River Street, and up in this direction at a 90-degree angle, we have another Fire Station and the many boxes converge on this particular square.

That was one of the primary things in my mind, as to what would happen if they converged, and of course, the apparatus that controls that first, holds it, so that if you have your apparatus coming in the opposite direction, the operators are drilled and trained on this, that if the Opticom doesn't bring their light green, they ought to stop, because something is coming in the opposite direction. Then, when the other apparatus goes through, they will know that they are all clear.

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In think that is all that we have of the pictures.

And may I just bring out one point here? I had a letter from my City Solicitor and City Manager, trying to upgrade our system. At the present time, we have seventeen (17) intersections that are covered with detectors, and we have more, that is, eight (8) more intersections in the planning stage, and they are even beyond that, for they are under construction, and we have eight (8) more that are approved and that are going to be put in.

We have about nine (9) pieces of apparatus that are equipped, and I am not going to be happy until we cover the whole situation.

The City Solicitor took it upon himself to write to the City Manager to suggest the inclusion of this system, and if for nothing else, to cover the financial situation, but more important to us, of course, is the life safety, and Chief Scanlon of Lynn said the other day, regarding Arson, that when he saw his firefighters being injured and with the possibility of their losing their lives, he thought that he should do something about it. And, I feel the same way about this Opticom. The Solicitor said that as a result of this accident, the total to the City in pensions, medical and death benefits and payments, he would estimate, would be at several hundred thousand dollars. Then, he said that he felt it to be a critical public safety need.

MR. BARRETT: I have a question for you. With the apparatus coming from Lafayette Square, turning left, can they pick up the detector in time, even though they have the Massachusetts Avenue control?

CHIEF CREMINS: That is right.

CHIEF LANE: I would like to make a comment, here. I find that these Opticom's will draw more attention than any red light.

CHIEF CREMINS: Yes; that is another feature of it. And that reminds me, too, of an important thing that I meant to bring out. When we had some serious accidents, it was always a question: "Did the fire apparatus go through the red light?" And, this is very critical. This is always the point that the

defendants are trying to bring out, and so on. But, here is a case where the proof is beyond the shadow of a doubt. If you do have an accident at an intersection where you have an Opticom System, the proof is in your favor that you must have had a green light.

And, this is all right, in the case of a suit, and it is in your favor.

MR. BARRETT: Thank you, Chief Cremins. I am now going to turn the program back to Bob, and you will probably have some questions and answers from the floor.

MODERATOR FITZ: Let me tell you who has it in New England and who is getting it, and, also, of those who want it.

They have it in Bangor, Maine, and I think that there are approximately thirteen (13) intersections there.

They have it in Portsmouth, New Hampshire.

They have it in Cambridge, as well as in Worcester, and they will have a total of forty-one (41) intersections by the end of the year. In Worcester, if I may say it, as the Traffic Engineer updates his intersections, either to urban systems or otherwise, what he does is that each time he updates an intersection, he includes an Opticom.

In Dalton, Massachusetts, they have had it for sometime.

In Brookline, Massachusetts and Providence, Rhode Island, they have an installation, also. I may point out that in the case of Brookline, they have one intersection, and they just put the second one in there. Under a Federal program, they are going to put in seventeen (17) intersections within the next three years.

The surprising thing is that the process, the concept of Opticom in the country, is 93 per cent of the systems out there, so that you know we are not selling something as going for one time. They are coming back and having seconds, like a good dish of apple pie, and those cities are going to get it under Federal funds, which they will have by the end of the year, and I am speaking about Malden, Quincy, Northampton and Westfield, Massachusetts, and New Haven, Connecticut.

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How much does it cost? It is obvious to everybody concerned that that is the question that is asked.

Let me give you this figure. It costs, installed \$3,200 and \$3,300. Now, you can think about your own intersections. I know the obvious thing is: Where do I get the money? But, as I said to you, it is certainly not a priority by you. I am thinking, directly, that you have three priorities:

1. Salaries.
2. Equipment.
3. You have to cover your City.

Unfortunately, the Federal funding cannot support those three priorities, but it can support a system such as this.

I think that the question I have to ask you in your own town, and by the way the Fire Department does take a second seat to any authority in the city or town, and I am sorry to say that the question I ask you is this: Do you know the Traffic Engineer in your town or city? Do you know the fellow who coordinates the Federal funds?

Do you know the fellow who is close to you, who coordinates the Federal programs within the State? And even if there is a little politics involved, and if you have a fellow who represents the Governor in the Federal funding, you can bet that he's going to get everything he can! And that's good judgment.

Well, now, there are five agencies that are involved in Federal funding, as follows:

1. The United States Department of Transportation.
2. The Federal Highway Administration.
3. The National Highway Traffic and Safety Administration.
4. The Urban Mass Transit Administration.
5. The Law Enforcement Assistance Administration.

Now, as we know, the Police Departments have their own fundings. But, does the Fire Department?

The Federal Highway Administration has highway and trust fund money, for State transportation and highway funds to distribute to local levels.

Under the National Highway Traffic and Safety Administration, they distribute highway safety funds to the Highway Safety Departments.

The Urban Mass Transit Administration administers much of the Federal funds to State Departments of Transportation and Metropolitan Transit Authorities.

There is a possibility for you, there.

Now, the L. E. A. A., and you have all heard of that, they are under the United States Department of Justice, in funding to States and Cities for Public Safety Departments. And, I think that you would qualify there.

Now, under the programs, and there are several of them in which you would fit, first of all, the Federal Aid Highway Act of 1973, Title I, there are continual highway improvements and construction programs.

Somewhat surprisingly, some of these funds do not qualify, because of the interstate system, but all of the rest are 70-30. In other words, the Commonwealth of Massachusetts, at 70-30, is 70 per cent Federal and 30 per cent State.

The City of Cambridge had a tough job, and that was the catalyst of up-dating intersections. In Cambridge, they had a tough situation going on that had gone through litigation about two years ago, and finally came out with an award to the contractor. I went down and spoke to the fellow who handled the Federal program for the State, and I said:

"What is the chance of getting the extra workload? Why can't we add to those particular intersections, where they are going to do the construction, now?"

What you have to do is to have the Chief of the Fire Department write a letter to your Town or City Mayor, or whatever is the government body, requesting it?

And so you write the letter. Also, in Cambridge, you have a Traffic Engineer, and he writes to the Department of Transportation, and with a little paper work and perserverance you get it. If you follow the rules and regulations, you will be all right.

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Well, there are programs, such as under Title II, the Safety Road Demonstration Programs. That, again, could be 90-10 money, and you could qualify, by the way, under the Community Action Highway Safety Program. There are approximately eighteen safety measures, and one way to qualify would be to merge with the Medical Services.

At Syracuse, New York, they took advantage of this thing, and if you all want a copy of this, I will send it to you. It could be an outline or a guide as to how do you get the money. And so they got approval under that particular Act. There is a regular form, and you have to fill it out and send it in, with all of the right words, and you can get this stuff.

Let me tell you that Syracuse has \$700,000 of Opticom; in other words, the whole City of Syracuse will have Opticom!

And again, I will say that Massachusetts is 70-30. Connecticut is 70 Federal, 15 State and 15 City. So that you have the things a little bit differently in some States. If you live in Rhode Island or New Hampshire, they don't have it right now, only because they don't have the 30 per cent, because of the bond issue. I think the people from Rhode Island who are here will agree with that. But I think that it will be eventually 70-30. In New Hampshire, I believe it is always 70-30. I think that Connecticut is the only one where you have 70-15 and 15.

Under Title II of the Federal Aid and Safety Act of 1973, I told you the Standard II was to merge Medical Services. You will

want to look under Standard 12, Highway Design, Construction and Maintenance. Then, Standard 13 is Traffic Engineering Services. And you will remember that I said you should know your Traffic Engineer and, indeed, you can call on him every day.

Then after that, there is still another one, Standard 15, Police Traffic Services. How come you don't have Fire Traffic Services?

Under 402, Safety Research and Development, for those of you who want to persevere, as I believe I so well put it, what you have to do is, first of all, realize that nothing is easy, and that if you really want something that you don't have to pay for, maybe you are going to spend a little more time on it. Therefore, you do have to spend the time in writing these proposals, because that is the thing that is important.

Now, the guy in your town or city is the Federal Funds Coordinator, and there is one in your community; no matter how small, he is there. It could be the Mayor. I called on the Mayor of East Hartford; he wanted to know about this, and I showed him this film. We talked for about three hours. Of course, he had accidents, too. I think it is easier to talk under those circumstances.

Now, there are two other systems that Chief Don Lane mentioned before; Portsmouth, New Hampshire did get their system under Urban Renewal. Then, there is also Providence, Rhode Island; they also got it under that. The other ones came under the Revenue Sharing. And, under each one of these, there is a proposal, and again, I say that if you want copies, I'll be glad to send them to you.

This particular one is from the City of Kent, Ohio, and this is to the Mayor and the City Council and the Traffic Engineer, requesting an allocation for sharing funds for a Signal Prevention System. There is a definite need for it for the City of Kent, both from the safety and the response time. We all know that in fires, and you know this better than I do, that the first ten minutes of any fire are the important. The Opticom system was recently submitted to the Fire Department, the Police Department and the Engineering Department, and again, the City Council members.

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And so I say to you, go to these people, the Police Department, the City Council, the City Engineer or the Traffic Engineer, and make an appointment to sit down and talk about it. Don't try to do it on your own. I think it is better to have the majority in favor of what you want, so don't try to do it yourself.

So in this case, the Traffic Engineer made the approach to the Mayor and the City Council.

Now, I am sure there must be many questions, and we are running late, and I really didn't want to run late. However, may we open the floor up to Chief Bill Cremins or Chief Lane for questions about Opticom?

QUESTION: I believe you stated that the installation would be \$3,200 to \$3,600?

CHIEF LANE: That is correct; that is the approximate amount of the installation.

QUESTION: And does that also include it on one vehicle?

CHIEF LANE: The emitter cost is \$815 per unit.

QUESTION: \$815 per unit?

CHIEF LANE: Yes. It may go over that. There has been a little bit of squabbling going on with the State, and so the question is, if you have Opticom, the State is not going to provide any more units for the truck. It's like that. You have them, and we're putting in your intersection, how about participating? Why don't you buy them?

For those cities that do not have Opticom, I can only tell you this; get as many as you can at the beginning.

MODERATOR FITZ: Are there any further questions?

CHIEF AMICO of Winchester, Massachusetts: Can you go to any of the towns that have Opticom and give a presentation? Could you come to my town?

CHIEF RAYMOND: On the State Highway, does the State allow Opticom to be put on property in a City?

CHIEF LANE: The answer is "Yes." I may point out one thing, however. On State highways, the Commonwealth of Massachusetts requires a separate control box, but that is really mechanical, alongside of a controller, to install it; that is the only difference.

QUESTION: About two years ago, I asked for a control system and they said "No."

QUESTION: How effective is this device as to changing the lights?

CHIEF LANE: The answer is 1800 feet, and as far back as 2800 feet, as in the case of Portsmouth, your parallel detection on curves is on 2800 feet; it takes a long time to cover that, at 50 miles an hour.

MODERATOR FITZ: Are there any other questions?

CHIEF STEVENS of Weymouth: I wrote in because we have a bad intersection and we wanted to control it, but the letter that I got back was kind of discouraging.

CHIEF LANE: Did you request Opticom?

CHIEF STEVENS of Weymouth: I wanted a control on the lights.

CHIEF LANE: What has happened over the past years is that it could be a hard wire, as pointed out in the film, and that control at the intersection might have to be changed. In other words, if they were to make and use hard wire, meaning that they would literally have to attach a wire at that intersection and back to your Fire House; you press the button and you are going to get the green light, and that is what you were looking for. However, they would have to change the controller.

With Opticom, what you could do is this. Ours is compatible to every controller that is built on the market today. You can take any old or new ones, and we have both, so that it is adaptable to any of them. We get our mechanics into this thing, and we are compatible with every control on the market. It would be simple and less expensive.

By the way, he was not giving you the figure of the cost to put it in, because, of course, the State would be doing that.



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PRESIDENT CREMO: Is Opticom compatible on mutual aid?

CHIEF LANE: Yes; it is, and it is excellent, too. You know, I did think of an interesting idea about Opticom, after listening to that fellow from Lynn, for I like that type of thing. My buddy was the Fire Commissioner, there, and he was in my fire truck; in fact, he was on my truck, when I did get involved a little bit in Arson. What we do is this. We use it on pre-emptions, and the buses use it to get to intersections, for it cuts the time down fantastically.

MODERATOR FITZ: Are there any other questions? If not, remember there are some booklets here on Opticom which you are welcome to have.

I am now going to turn the meeting back to our Program Chairman, Chief Leddy.

PROGRAM CHAIRMAN LEDDY: Your Moderator for the second part of our Program this morning is Chief Arthur H. Lamb of Plymouth, Massachusetts, who has been with the Plymouth Department for twenty-nine years, sixteen years as Chief.

He has served in many fire related capacities in his County of Plymouth and in the

Cape area, and it is a pleasure for me to present to you your Moderator, Chief Arthur H. Lamb.

MODERATOR ARTHUR H. LAMB: Martin Grimes, our next speaker, is the Director of the Public Protection Division of N.F.P.A. The Division is responsible for all services of the Association in the public sector of Fire Protection, which includes Fire Suppression, Fire Prevention and Enforcement.

He joined the staff of N.F.P.A. in late 1969. Prior to that, he had served in a number of Fire Departments since 1941 and was the Fire Commissioner for Bermuda for nine years.

He has been a member of the International Association of Fire Chiefs for many years.

Mr. Grimes topic is collective bargaining, and to the extent that our top level administrators and the people in the communities are asking that we be professional in our standing, I think you are about to hear a very good talk from Mr. Grimes.

The subject of his talk is "Fire Service Professionalism."

FIRE SERVICE PROFESSIONALISM

Martin E. Grimes, Public Relations, N. F. P. A.

The Wingspread Report of 1966 indicated that the Fire Service had a pressing need to establish its own professionalism. This concerns all segments of the Fire Service. The report suggests that much is needed in education and professionalism. The national organization was formed in 1917 including the International Association of Fire Chiefs, International Association of Fire Fighters, Fire Marshalis' Association of North America, the International Society of Fire Service Instructors and Training Service of N. F. P. A.

In 1970 this organization met at Williamsburg a common policy was established, with meetings twice each year arranged to be held in Washington to discuss current issues. The group was of great help in the passing of the Federal Fire Prevention Control Act of 1974.

Currently budgets are difficult to justify. This includes Volunteer Depts. The fact that New York City is concerned with a 2000 lay-off shows how critical things are. There is a drive to hold down taxes. The Federal Government is issuing information and some money.

The Fire Service handles a large slice of the municipal budget. The Chief runs a big business. He faces the new city manager and his cohorts. He deals in labor relations, management problems, and this applies to communities large and small. We must be aware of technical developments, the escalation of substances dangerous to the firefighter in toxicity, explosion, etc. Ecology raises more problems. These problems show the need for professionalism.

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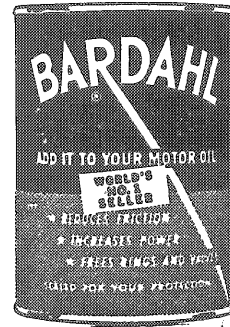
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You are a Fire Chief. Do you have to qualify? Do you have a particular education or is experience and seniority the rule? Sometimes in Court a Chief cannot establish himself as an expert but he should be accepted in any court. I know of several cases where the word of an engineer in an insurance company was accepted as expert. This must change.

The joint council decided to have national qualifications for the Fire Service. They used the N. F. P. A. system. The union brought up their standards but they were suspected of being a labor benefit. They established a National Qualification Board of nine persons which is a buffer system between the public and the system. There are four committees to establish standards. One is the Firefighter Comm. and its members are from the Fire Service. Fire Investigative Committee has members from the Fire Marshalls, The International Arson group, and the officer committee from the L. A. F. C. This is a professional development. The input from the Fire Services to these standards is phenomenal.

The First Standards came out last November and already have been widely adopted throughout the country. The National Qualification System states in terms of performance standards what a man has to be to become a fire fighter. There are three grades. There is a standard on on-driver apparatus, aerial ladders, platforms and the like. This will go into process in May. By the fall of next year you will have a standard on Fire Service Instructors. Then the Fire Inspection will be coming out and others to follow.

As you know, the Battalion Chief in one Department has a totally different role to play than a Battalion Chief would have in another Department. For instance, in one city, a Battalion Chief may have charge of one hundred (100) stations or one hundred thousand (100,000) in another Department, and in still another Department, he may have charge of only three (3) stations. In other words, the rank titles are rather meaningless. Chiefs of Departments have very different responsibilities, and therefore, it would be rather unreasonable to set the idea by population because of the differences in population. So that rather than to specify by rank,

it is done by grading. In this means, under the new system, you can determine what level you want for your officers in the Department.

There will be four (4) levels for the Fire Prevention. They have decided to provide the Inspector levels at 1, 2, 3, and the investigatory, solely with Arson Investigation, which need not qualify in all the other areas.

Now, they have added a Public Education Sector, and they feel that there are enough Departments that deal with the public. The average, moderate-sized Department or smaller Department will obviously expect men to perform in those areas. I am sure that in any Department that I was an Inspector, and to qualify in education and making sure of publication education programs, they would go hand-in-hand.

The Committee has to divide up the responsibility. There are four (4) levels of instructors. And, incidentally, on the development of the Instructor Standards for the first time in educational history, every function involved in the teaching process has been chartered on a flow chart. We have referred this to several leading educators at the highest level, and they have never seen a flow chart shown. It is some 37 feet along one wall, and it is about three (3) feet deep, and it stretches almost to the far end of the doors. This can be done by Fire Service People. When it was shown to one particular professor, who is a leading educator and a so-called specialist, he said that he had never seen it done before.

It took the Fire Service to organize it. The analyst people say that the Fire Service is disorganized. But, the Fire Service had more systems operating twenty-four or thirty years ago than any other organization, except the military. And, on specialization today, you can have a man from HUD study the situation and tell you how to systematize, and yet in every city, the box has a code number, and you could ride the City and he becomes amazed at all of this, so that this is what we have to do. We have to insure that our talent which exists in the Fire Service, not only is known to ourselves, but has some equatable value outside, so that when you go into Court for any reason, or when you go to an archi-

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fect or anybody else for any reason, or when you go to the City Planner, that you are a professional in your own right, and not just a guy with a white helmet. That is the system.

In want to talk a little bit more about how the system is going to be applied. The National Qualifications Board is to apply to a system a National Certification, so that if you get your Certificate in Massachusetts, Connecticut or Maine, it is an equally acceptable certificate in California, Louisiana, Florida or Wisconsin.

In other words, how can we give you people a professional qualification, a shingle, or a certificate, that goes on the wall, which is meaningful? All right. People go on training courses and come back with certificates. Sometimes, these certificates say that they are qualified in this or that. Okay. You can do fifty (50) hours of training on one area, and five (5) hours probably spent doing some actual training, and the others were talking and chin-waggin' around, and in another area, that may be intensive training, so that the fifty (50) hours of training would be dependent on the quality of that training and how much you learn during the training program. Now, the performance is up to the way you acquire the knowledge. You may acquire the knowledge any way you wish to acquire it. For instance, if you don't want to go into a State Training Program, there is no requirement that you should do so. Optional.

Now, as to the officer level, which would affect most of you people here, the options will be these. To meet the officer requirements, let us say that in the Officer Standards, taking it off the cuff, every officer, Grade 3, should be capable of preparing a budget request for the equipping of one station with two engineers, and in a Program Budget Form, stating the objectives and the methods and the time-frames and everything else, such as the cost per unit, and so on. Let us assume the officer, Grade 3, must be capable of doing that. How would you learn that, to meet that standard.

You may have a State Training Program to meet that standard, or a Community College course. Or you may decide to get out the text books and study it for yourself. But,

there is no requirement that you must take a specific course of training. You can acquire this knowledge in any way you please to acquire it. This does not mean to say that it would not be much better to have Standard Programs to achieve it, but when it comes to personal qualifications at the higher level, you are not required to study any particular material. They will just tell you what you have to know in order to be qualified.

Of course, when they do come out with officer standards, I believe they will list the Public Standard Study Courses, and so forth, which will apply in any State in the country. There is nothing in here that is peculiar to any one State. Anything which may peculiar as to terminology is ironed out in very plain language to get around it. The same will apply to all standards. However, the officer standard will give you a choice. It will say that the candidate can demonstrate his understanding of the organizational chart for the Fire Department in the following categories, and they will give you three or four alternatives.

Now, you may say that you are in a Department where there are 50,000 and the only organizational work you know is that. But, that's a lot of hokey. There are plenty of reference books that will show you how other Departments are organized, and if you want to be a true professional, and if you want to know a little more about things outside of your own area, you can do so. They will not expect you just to be examined on your own Department.

One of the first of the Instructor Standards says that the Instructor shall prepare an Instructional Program based on the practice in his own Department. This was meaningless, because there should be alternatives.

I must show this movie, and I think I must talk about it. This wasn't an educational process at all. So the way the standard would work is this. The instructor shall prepare a lesson plan, to include the following points. The instructor will have to learn how to do that, but it will be worded in such a way that you will have no problem in acquiring it.

The National Professional Qualification Board has developed some criteria, and with

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approval they are going to offer to any one organization or agency in a State the authority to be the certified agency for the State, and they will be allowed to certify in that State on behalf of the Joint Council and the National Qualification Board. However, there are rules and requirements on how that shall be conducted. It must be totally impartial. You must allow any person to take the qualifications and requirements. These must be prepared to allow an observer to come in and see what they are doing, to make sure that there is no abuse or form of graft going on, or things discrediting the program.

For instance, where they have a State Certification Program, we heard where a group of people were certified as being qualified, and afterwards, due to a political squabble, one of those people said: "I never took an examination. This guy certified me because he wanted to get more men qualified in his Department."

For instance, without saying anything to you or other men, it is possible to push men through and give them a certificate. But, the system will not allow that, and there must be a means whereby if you take a test and you qualify, then your qualifications are well-earned.

These safeguards are being written into the system and, in fact, when they put it out for public comment not long ago, from all Departments we heard that they wanted the certification to be fair and above-board, and if certification was obtained it would be known to everybody that if anybody else was interested in this sort of work, they would have to go through the same preparation.

We have offered to all States, preferably, a State organization that would have the authority by State Statute to certify Fire Service personnel. There are ten States that already have that authority. But, we do stipulate that if that State agency is set up to certify, it must have a committee or a board representative of all the Fire Service groups in that State, serving on the board or at least have a mechanism whereby they can get in-put from those organizations. So that it won't be the State Department of Education, acting solely. If the State organization

was granted the authority to certify nationally, they would have to show that there was a board representing all the Fire Services in that State.

In other words, we want to be sure that the real interests of the Fire Service are being served, and that there is not another control by non-authorities.

In Florida, where no State agency is so authorized, first, the Qualifying Board would like to see such a State agency provide the supervision and the proper controls that are there. If not, the Qualifications Board will accept an application from any organization or committee or group which can claim to have all interested Fire Service groups serving as a part of it.

For instance, in some States, they are setting up, now, the State Joint Council of Fire Services, modeled on the National Joint Council. Well, in a case like that, if they didn't have a State agency to do the certifying, the Council would accept that, but they would, of course, want a lot more evidence that the in-put from the Fire Service groups was maintained. They don't want to give authority to certify nationally to one small group which, in fact, is only serving one part of the State. They might consider giving it to several, to cover the whole State, but there is a provision in the guidelines covering that. For instances, assume a State Training Agency was given the power to certify. First, the board is not anxious to give it to training agencies; they would rather give it to an independent group, because the training people serve the interest of the people to be qualified, and they can best be served by an independent group. But, they will give the authority to the State Training Agency if it is fully composed of people from the State Fire Services.

In the guidelines, there is power to delegate their authority to anybody in the State. For instance, in the City of New York, let us say that they wanted to maintain their own system, but they still wanted their men to be certified under the National System; also, let us suppose that there was some division of local government in the State of New York which was given the authority to certify for

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the rest of the State, they could give their authority to the City of New York, and New York could do that. Any other large city could do it. So that the system is not wrapped up in one agency; but, the routing of all the authority is through one agency, and it really is flexible.

To date, since we have published the guidelines, and we haven't finished them yet, six (6) States have applied for National Certification. One State has a program of 50,000 firefighters in the first three-years. Okay. That shows you how much enthusiasm there is to get it, and how important it is. All the other States that have applied are in the process of setting up the mechanisms, and they are going to have to give up their training programs to some extent. Some of them have training programs that comply with the requirements. Of course, we don't supervise their programs; we are only interested in supervising the programs that are to be used objectively. Therefore, it will depend upon your desires, and there is nothing to stop you from being totally independent, and there is nothing to stop you from going into a State Program and getting action as to certification.

I would say, also, that in the guidelines, we have written in a clause, that if you do get certification in Massachusetts, Maine, Rhode Island and Connecticut, and you have moved to Los Angeles, California, for other reasons, they must honor your certificate, if they are going to be in this thing. It will be accepted in any State which enters into the system. In other words, we are providing the national mobility qualification, so that you won't have to go through all of the procedures again in that area.

We all know that some people want to go to California to get the warm weather, not that we don't have warm weather here occasionally.

And so, basically, that is the system.

Now, this will answer your question. Let us say that I've been in the Fire Service for twenty-five or thirty years. Have I got to go back to college and take the equivalent of a Bachelor of Science in order to hold my job?

The answer is "No." Of course, in no system like this could you expect everybody to go back and be qualified. Under the provisions of the guidelines, there is a requirement that any certifying agency must give a Certificate of Equivalency to a position at the time they adopt the standard. For instance, if they adopt this standard, as they have in California, they must, automatically, give all the firefighters in whatever position a Certificate of Equivalency. The purpose of that is this. If that firefighter is Grade 2 level, and he gets grandfathered in, which he can do, he is not barred from going on to the Firefighter 3 level or the Officer level. Similarly, when the Officer Standards are available, you are then in a position which roughly equates to Fire Officer 3, 4, or what have you, and if your State is in the system, you will get a certificate, and you can go on to a promotion, or other standard.

In other words, everybody goes in when the system is effective in your State. You might get a green certificate, or the man who takes everything gets a blue-green certificate, but whatever the color of the certificate, it will be equally recognized.

Now, the young people may say: "Hell, all of these people have gotten their positions in various ways, and you're going to give them the professional qualification certificate?"

In any system like this, there has to be a starting point. How can we expect to say that everybody should take Point No. 1? Personally, if I had to go back and take a lot of examinations again, I don't think I would be interested in doing all of that, again. I would hope to get recognition for those that I have done before.

In the standards and the guidelines, there is a provision, explaining how this may be done. For instance, you may have men who are not promoted, but who have taken college courses, community college courses, and surely they will want to have some recognition of that, so that in this area, there must be an appraisal of these men's qualifications. So that in the beginning, there will be a certain amount of subjective judgment used in equating certain levels. If they say, in your

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city, that a Battalion Chief has to be Officer Grade 4, and there is a man in that place, he will automatically, then, get a Certificate of Equivalency for Fire Officer Grade 4. We have got to do it this way.

California, however, wants to go back and only give the grandfather position at the lower level and make everybody re-qualify. We have told them that we can't agree to that, but if they want to do that, it is up to them; however, we could not agree to that.

The point is this. Once you get a Certificate of Equivalency, you are in the system; if you want to go on and work for your better qualifications, you can do it, and you won't find it too difficult, and it is more or less a matter of articulating and demonstrating that you understand. It is quite a system, and it is quite revolutionary.

Four years ago, some of you people in this room were on the Council and you couldn't see how it would fly; but, it is flying right now, and when people study it and realize how they fit into it and see the practicality of the recommendation, it's different story.

Here is an example of where prior judgment can be proved. There was a certain man in a very large city who said that this standard is all right for the people out in the "sticks," but that it was elementary that there was nothing to it, and nobody could do it, and that he wouldn't be able to use it in his city.

Then, when it came out, they decided to see where they fit. This same man said: "We're going to have a problem meeting the standards." However, he also found out that if they took their training programs, they were missing out on quite a few points. And yet, in a predominately volunteer area, they took their program and came one hundred per cent into this program. Just like that (snapping the fingers).

And so, to assume that this is the best, it may not be so. But, this standard is written, and it applies to any Department. There is nothing to stop a Department which has a peculiar characteristic, but they are near the ship docks or silos, they might feel that it was rather ridiculous where they have a com-

bined rule of maritime risks, and perhaps a standard pool, and if it was a separate category they might have to write in additional provisions for that, for basically it will apply anywhere.

Now, this is all aimed at the professionalization, and it is being done by the Fire Service, for the Fire Service. Incidentally, the Civil Service people are interested in this, in light of the Court cases. I had a letter last week from a city where they have problems, and they are interested in the Fire Service. They had to evaluate the D.O.C. people. Take a look at the standards. In there, there are entrance requirements which are not validated, and therefore, you can't go to the Court and say that these are validated.

They are going to be validated, and work is beginning on that. It is a horrendous problem. People who ask for validation really don't know anything about the Fire Service, what it is and what it was.

I was involved in a case two weeks ago, and some persons, especially those involved in validations, met with the Fire Chief and a couple of Officers. They said: "Why do you say that they have to take the ladder off the truck, put it up to the window, and go up in so many seconds? Why can't they take five minutes, or four minutes?"

"How can we justify the possible need for the extreme speed and efficiency in putting a ladder up, when a guy is up there, hanging by his toe nails?"

And the same man said: "I know, but it wouldn't be acceptable in Court."

So that you have to phrase it in such a way that it has to be done in X number of seconds, and the time temperatures are developed within this time, and that is the maximum time the guy could be left on the roof.

Do you see what I mean? It's saying the same thing. But in order to validate it, we have to apply it more scientifically, and give the scientific explanation. It is the same story, when you explain it that way. Then they said: "Oh, yes, you should do it that way!"

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Now, many of these standards are being questioned already. We had two cases where they said they will not be accepted. Let me say this. Every one of the agility requirements must be met; the man must be able to perform his duties every time, and he has an agility test for that purpose. Every one of those tests is related to a function that is performed by the Fire Service; yet, it does not require Fire Service equipment, and in many cases they are saying that you don't have to require a man to practice with a ladder, for the muscle movements in some of these tests are the same as with the ladder. Well, most of those are substitutes.

If you make a man put on breathing apparatus to take a test to see if he can wear it, he can justifiably say that he was not given the opportunity to use it, and because of the danger of wearing the breathing apparatus, if he can climb up a ladder, subject to lights, you are subjecting him to a hazard, endangering his life.

All of these avoid that test, and the physicians and the medical people say, "and also the amount of air tap in all equipment of similar operations which a man might have to do in the Fire Service." And the conclusion is that it does not require a Fire Training Course.

Now, those are very important points in certain areas where it has been a factor.

This is a new thing, but it is moving very fast. It is not a threat to anybody in the Fire Service; in fact, there is everything to be gained in going into it. The men are protected for the future of the Fire Service, and it will mean that when you sit across that table with a lawyer, an architect, a City Manager, a Budget Analyst, or when you are in Court and there is an engineer on the other side giving you a hard time, you will be able to say: "I am a professional, qualified in the area of the Fire Service, and therefore I can give evidence on this subject." Or, "I am a qualified Officer and in my judgment and opinion, I say such-and-so, and I am qualified to say so."

MODERATOR LAMB: Thank you, Mr. Grimes, for giving us this stimulating address.

Gentlemen, in the interest of time, we will just take a few minutes for some questions. Are there any questions?

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

PROGRAM CHAIRMAN LEDDY: There are a few hand-outs here that are left from the previous program.

(Adjournment at 12:00 o'clock noon, June 25, 1975.)

BANQUET SESSION — JUNE 25, 1975

The Banquet Session was called to order by President Joseph R. Cremo in the Dining Room of The Wentworth-By-The-Sea.

PRESIDENT CREMO: Reverend Clergy, Honored Guests at the Head Table, Members of the New England Association of Fire Chiefs, Inc. our lovely Wives and Guests.

It is my pleasure at this time to present the Past Presidents of this Association who are here this evening.

(The Past Presidents then stood and received a wonderful ovation from those present.)

And now, will the wives of the Officers and Directors of the Association please stand?

(The wives of the Officers and Directors then stood and received the applause of those present.)

And now, I shall introduce the Head Table.

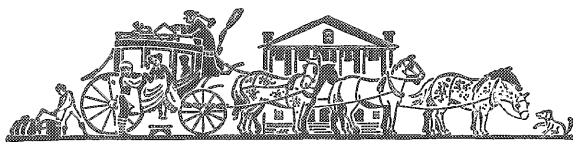
Reverend Charles F. Hood.

Reverend Stephen Foley.

The next lady at the Head Table is an old friend, State Senator Eileen Foley.

HONORABLE EILEEN FOLEY: Thank you very much, Mr. Toastmaster. Thank you very much for inviting me.

TOASTMASTER CREMO: Thank you, Senator Foley.



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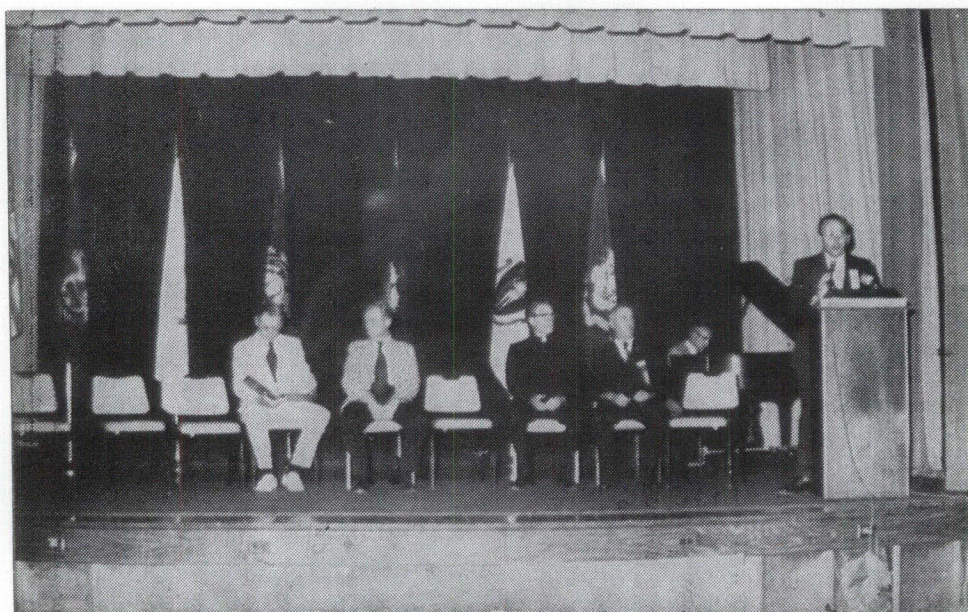
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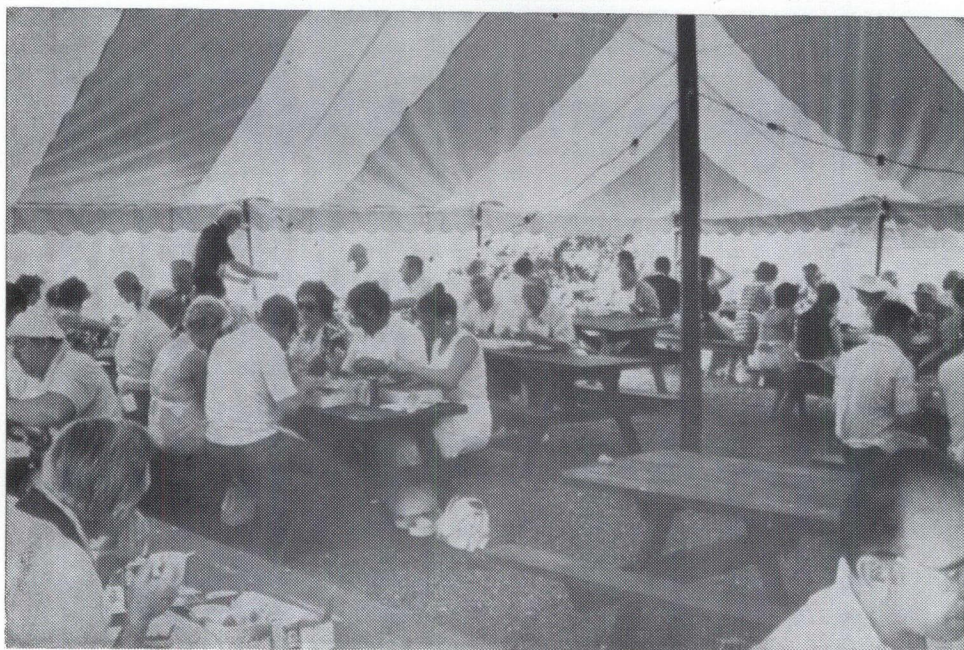
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To continue with the Head Table Guests, seated next to Senator Foley, we have our hard-working and very capable Fire Chief, George A. Bulger, our Sergeant-at-Arms.

Next is our First Vice-President, Earl Andrews of Lincoln, Rhode Island.

State Director from the State of Massachusetts, Gerard A. Carle of Dracut.

Secretary-Treasurer of the Association, Chief James F. Brennan.

On my right, the President of the International Association of Fire Chiefs, Commissioner John Hurley of New York.

PRESIDENT JOHN HURLEY of the International Association of Fire Chiefs. Gracie McCabe gave me three minutes, and I am going to stay within that time.

The first thing that I would like to do is to present the Mile-High City of Denver man, the Second Vice-President of the International Association of Fire Chiefs.

And now, to thank you from the bottom of my heart for this trip, here.

We have had a wonderful time!

And I would like to ask my boss to stand up and acknowledge the thanks that she owes to you for the wonderful hospitality you have given to her.

Mrs. Hurley then rose and received the plaudits.

It is difficult to say Thanks to a group such as this. I have attended your sessions; I have spent the last two days hearing the facts that most of your speakers are standing at the threshold, and we are moving in a new era of the Fire Service.

All I could think of was that I was standing at the railroad tracks, looking down the road, and in front of me I can see exactly what we are looking at.

All I can say is that if we continue to have people like you in the Fire Service, I am not the least bit concerned about our future.

Thank you a million times for your invitation. (Applause)

TOASTMASTER CREMO: Next, we have our First Vice-President, Chief Edward B. Borowiec of Chicopee, Massachusetts.

And, next to Ed, we have the Director from the State of Rhode Island, Joseph A. Monahan.

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

Patrick Brown, Director from the State of Vermont.

John E. Devine of Manchester, New Hampshire, Director from the State of New Hampshire.

Theodore Jellison, Director from the State of Maine.

(There was prolonged applause.)

TOASTMASTER CREMO: Before introducing our Guest Speaker of the evening, I have a little something that I want to do at this time. It is my very great pleasure to present a citation of appreciation to one of the people present here this evening. This citation reads:

"New England Association of Fire Chiefs, Inc. present this Citation of Appreciation to Madeline A. May, in recognition of her many years of faithful service to this organization.

"Presented at Wentworth-By The Sea, Portsmouth, New Hampshire, June 26, 1975."

(The presentation was then made by President Cremo.)

MISS MADELINE A. MAY: Thank you all very, very much!

PRESIDENT CREMO: Would you all join me, now, in expressing our appreciation for thirty years of service to our organization, by our Stenotypist, Miss Madeline A. May!

TOASTMASTER CREMO: Our speaker this evening really needs no introduction to us, for Mr. Smith has been hosting these conferences of this Association since 1946. He has led us to celebrate every year, except the past two years, when the conference got away from here. I might add that we will be back!

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BANQUET SPEAKER

James Barker Smith, President
Wentworth-By-The-Sea, Newcastle, New Hampshire

Thank you, Chief Cremo, for that nice introduction. Ladies and Gentlemen, Members of New England Association of Fire Chiefs, Inc., and Distinguished Guests at the Head Table.

One score and seven years ago, when Smith first came to the Wentworth, my distinguished predecessor, Mr. Beckwith, said to me: "We are doing something before the hotel opens, because we are taking in here a convention," which was the New England Association of Fire Chiefs. From that convention has emanated some of the happy experiences and the finest things of our lives. I think that there are several here tonight who were here at that first convention - Al Kimball, Jim Grote, Tom Gorman, and still in uniform and doing a great job, Al Koltonski.

Miss May, I think that that was a wonderful honor and well deserved, and I think you got every bit of that citation on the Stenotype! (Applause.)

I want to pay tribute to one who has worked diligently on these conventions, Chief Jim Casavant. Jim, when you retire from the service, get into the hotel business.

Somebody asked: "What's the difference between \$56.00 and \$66.00?" And the answer was: "\$10.00."

Now, it is a great pleasure to have here tonight the Newcastle Fire Department and the Portsmouth Fire Department.

One of my all-time favorite guests, one of my all-time favorite Americans was Herbert Hoover. Mr. Hoover made a little-known speech, and he was defeated for the Presidency before he left the office, at the American Press Club that has been so inspirational for me that I have repeated it many times. He said that there had been certain statements made to the press to the effect that "my country owes me a debt." Then he said: "On the contrary, the debt is all mine. My country gave me an education as it gives to all American boys and girls. My country gave me, a poor boy, without influence of

money, gave me an opportunity to sit down and hope that it would give me a certain measure of business success."

Then he said that he was called upon by his country to alleviate the suffering in Europe after the First World War, and he was in the Cabinets of two Presidents, and it gave him the highest honor of being the President of the United States.

"With this full length of life," said Mr. Hoover, "I am indebted to my country beyond any power of mine to repay."

And here is the key sentence:

"The greatness of America is that it is not the land of any one individual, but to millions of Americans who are doing the best they can every day of their lives. These are the dedicated Americans."

Talking to this group about dedication is like bringing coals to Newcastle!

Plato once said that if life cannot be examined, then life is not worth living.

Hamlet has given us the slings and arrows of time, and has given us a negative attitude in the set-backs and frustrations of life that has made us cynical.

Has the lack of serious competition made us complacent and satisfied?

Has our over-smoking, over-drinking, overheating, over-worrying, been chipping us away?

We should think of the good health of our children, which also means our health. Then it is the divine spark that is at one time a part of you, and is it still glowing in your life? Is a lack of decision keeping you from positive action? We have to act, and each act implies a viewpoint of life.

How important it is that we have a philosophy for action? And yet, if the truth were known, most of us are acting way below our capacities.

William Shakespeare once said:

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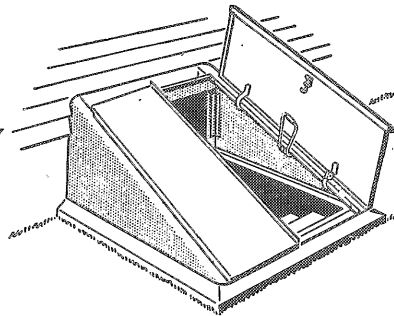
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"Compared to what we could do, we are half asleep."

I don't mean that we can live like the painter Rembrandt, or Tolstoy and write another War and Peace. But, that doesn't mean that we can't be interested in many fields. One key to that is usefulness, and to get your attention placed on the things that are within your ability.

It has been said that the Bible, to some, is of great guidance, and there is a usefulness of giving ability to others, and also that it is a single road to a sick friend in the way of a magnificent effort. And the main point is that large or small, the effort is made. We must never be scornful of any efforts because they are small.

Albert Schweitzer was a great humanitarian, and he was once asked how he could take hold and manage everything that he did. And it is how you take hold and manage your own life! The lives of most of us are just two steps forward and a step backward. The sunshine and shadows open up to despair. How you handle victory is something as to your character, as well as how you handle defeat, and we know that defeat comes into every life. I think it pays off in game-playing where inevitably things go in reverse. First, you can fight back. And as the old saying goes, we don't care how much opposition there is, as long as we can win with the last one. An officer in the British Army had lost every battle except the last one. Some one said that Jim Corbett, the great heavyweight champion, was asked:

"Jim, what are the ingredients of a great champion?"

And his answer was:

"To fight one more round. They're coming at you and you have one eye closed and the other one is half closed, and you're bleeding in the nose and mouth and your knees are like water, and you say to yourself: 'Oh, God, give me the strength to fight one more round!'"

Certainly, you can hold on and hope for a chance of defense. For in sports, perhaps the opposition will cool off and get tired. In

politics and in business, perhaps the economic cycle will turn off. This epitomizes the old saying: "It's a long road that has no turn."

I am thinking of Douglass on that timberline of the windy mountain pass, twisted and torn, but bravely believing in winning life's battle and going to the valley to fight again.

Currently, one can quit in disgrace. There is an old story to the effect that the devil one time started to sell all his tools, so he listed them as advantageously as possible, and priced them very high. Over in the corner there was a sort of a bent unshapely tool and it was priced very high and it was greatly worn. A fellow asked the devil what the name of that tool was, and the devil said:

"That is a disgracement."

"And why is it priced so high?"

"Because," said the devil, "once we have broken into a man's conscience, the disgrace is evil."

We all get disgraced at times, and I think we need our own little personal panacea for this. Let me give you mine. It is this picture that hangs on my wall. Some one was kind enough to give me this picture.

The girl who did this picture was paralyzed from the waist down, and she did this with the paint brush in her teeth! And you and I, we think we have troubles. Every now and then she went into great deeds of such human magnificence.

Some years ago, a cute little blonde girl about five years old was horribly crippled, and she and her brother were in the doctor's office getting a treatment. The boy was even more crippled than the girl. My friend said to this doctor: "We have not one but two crippled children."

The doctor said:

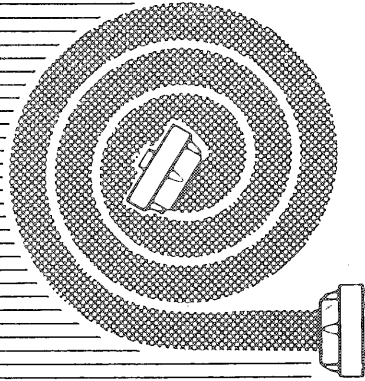
"That is an interesting story. Here was a young lady who was on the way to a mental institution to visit her mother. She met this young man and they fell in love and they were married. They came to me a little bit later and asked me: 'Dare we have chil-

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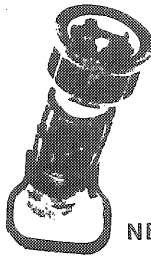
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dren, Doctor?' I told them that it would be a long chance, so they decided to adopt two little children, because they were handicapped. They didn't adopt normally healthy children, but those two people, don't feel sorry for them or for her, because she is the happiest person I know!"

See how far Shakespeare's little candle throws its beam!

Last year when traveling in England, I noticed the description on a Church, that goes back to 1653, where is said that everything in this kingdom was either profane or destroyed. The Church was built by a man whose particular attribute was just about in the reverse of the times.

I am not in the reverse of the times. But, these are times when we do have to do our best, and I do believe that if each of us follows Mr. Hoover's admonition and does the best he can do every day of our lives, then millions of other Americans will do likewise, and these times in a few years, will be just a memory.

While our names may not be etched in stone, surely they will be engraved into the memories of those who know us, and in the long run that is better than anything else.

I do want to thank this wonderful group for being here again. When I talked to Senator Foley about being here tonight, she said "Yes" right away. I know that you are going to make certain decisions tomorrow. Let us not disappoint the Senator.

Again, thank you all very much!

TOASTMASTER CREMO: Thanks to you, Jim, from all of us! (Applause)

I shall now ask Reverend Hood to give the Benediction.

REVEREND CHARLES F. HOOD: And now, may the Lord bless thee and keep thee and be gracious unto thee. May the Lord lift up the Light of Countenance upon thee and give thee peace, now and forever, world without end. In the name of the Father, and of the Son and of the Holy Spirit. Amen.

TOASTMASTER CREMO: Before we get into the drawing of prizes, the Chairman of

the Entertainment Committee has an announcement to make.

CHIEF GEORGE BULGER, Chairman of the Entertainment Committee: Thank you, Mr. President. Your entertainment has not ended, even with this banquet. We will have some entertainment down at The Ship, and it will be a Do-It-Yourself evening.

I just have one more announcement. We would like to have the following people down at Mr. Smith's office immediately upon leaving this dining room, if you will, please:

Albert Kimball
Raymond Potter
Allan Bowkett
Lieutenant Edward Carroll
Walter Messer
Thomas Duckworth
Henry Hilton
John McCue
Jerry Menjou
Francis Walker
John Callissey
Thomas Gorman

TOASTMASTER CREMO: Edward Creighton will conduct the drawing of the prizes.

CHIEF CREIGHTON: Ladies and Gentlemen, we are going to draw a Chief's name from this box, which is taken from the Registration Desk. Also, you must be in this dining room in order to receive the prize, when your number may be called. We have some fine gifts, and will call the name picked out twice. If we don't get an answer the second time around, we will then draw another name. I am going to ask Senator Foley to draw the names from this box.

The following were the recipients of prizes:

Lawrence Kershaw, Shrewsbury, Mass.
Kenneth Ramsdell of Rockland.
Leland Martin.
James F. Brennan of Salem, Mass.
Thomas Moore of Clinton.
Thomas Nolan of Saugus, Mass.
Edward Callahan of Woburn, Mass.
Henry Mongeau of Lincoln, Rhode Island.
Calvin Hitchcock, Otis Air Force Base.
Linwood Houle of Medford, Mass.
Edward Gibson, West Bridgewater, Mass.
Alfred Koltonski, Rutland, Vermont.

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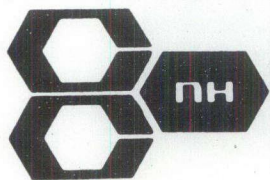


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 Chief Reid of Cheimsford.
 Charles McEvans, Lincoln, Maine.
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 V. Paul Leddy of Hamden, Conn.
 Vincent R. Thayer, Bellingham, Mass.
 James Butler, Dover, New Hampshire.
 John Cashman, Barrington, Rhode Island.
 Dominic J. DeCarlo, Naugatuck, Conn.
 George A. Bulger, Rumford, Maine.
 Francis Walker, Bennington, Vermont.
 Joseph E. Scanlon, Jr., Lynn, Mass.
 Richard Leslie, Warren.
 Joseph Howell, West Haven, Conn.
 Robert F. Hevey, Ware, Mass.
 Joseph Monahan, Narragansett, R. I.
 Robert Wilder, Portsmouth, R. I.
 John Rogers, Middleboro, Mass.
 Walter Case, North Haven, Conn.
 Robert D. Teece, Randolph, Mass.
 Earl Andrews of Rhode Island.
 Paul J. Roach, Stoughton, Mass.
 Thomas J. Moore of Fall River.

MODERATOR CREIGHTON: That concludes the prizes, Ladies and Gentlemen. Before you go, we have a couple of announcements to make. I want to thank you all for coming, and, remember, next year we will want to see you all again!

So, take care of yourselves, and I am going to tell you how to increase your longevity.

1. Give up your smoking.
2. Give up your drinking.
3. Watch your weight.
4. And, if you are going to have sex, have it with your wife, so that you don't get excited!

I'll get hell from my wife for that!

And now, we would like to present Chief Cremo with a little gift of appreciation; we have a white helmet for you (presenting the gift to President Cremo).

PRESIDENT CREMO: Thank you all very much!

CHIEF CREIGHTON: And, thank you all very much for being here! (Applause)

TOASTMASTER CREMO: Ladies and Gentlemen, this concludes our banquet speeches. There will be dancing and entertainment at The Ship.

We are now adjourned.

(Adjournment of Banquet Session at 10:00 o'clock P.M. on June 25, 1975.)

THURSDAY, MORNING SESSION — JUNE 26, 1975

The Thursday Morning Session convened in the Derby Room of the Wentworth-By-The-Sea on June 26, 1975, at 10:00 o'clock A.M., with President Joseph R. Cremo presiding.

PRESIDENT CREMO: May we call the meeting to order at this time? I am going to ask our good friend, Chief James L. Grote, to give the Invocation.

CHIEF JAMES L. GROTE of Connecticut: In the name of the Father and of the Son and of the Holy Spirit. Amen. May we end this conference in the highest spirit and good

fellowship that we are all aware of, in the highest spirit and good fellowship!

Oh God, we place ourselves in the palm of your hands, and we ask for your blessing. Let us have peace on earth and good will towards men.

In the name of the Father, and of the Son, and of the Holy Spirit. Amen.

PRESIDENT CREMO: Our first order of business is that of our Secretary's Report, Chief James F. Brennan.

Chief Brennan, will you please come over here and give us your report?

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REPORT OF THE SECRETARY — 1975

Chief James F. Brennan

I thank you, Mr. President. To the Officers and Members of the New England Association of Fire Chiefs, Inc., I herewith submit the Annual Report for the year ending May 31, 1975.

Your officers and committees held two meetings since our last annual conference. The first, on November 4, 1974, at King's Grant, Danvers, Mass., and the second one was held at Wentworth-By-The-Sea, Portsmouth, N. H. on May 7, 1975.

At both meetings, matters relating to the Association were discussed and the plans for the 1975, 53rd annual conference were formulated. Both meetings were very well attended by the officers and members of the Conference Committees.

It was voted by the Board of Directors, at the May 7, 1975 meeting to discontinue solicitations for our Conference Red Books. This year will be the final year under contractual agreement. The incoming President, Ed Borowiec, has indicated his intention of appointing a committee to study the type of the Conference Red Book of the future.

During the year, all Association business was conducted promptly by your President and Secretary. A full and complete reporting of the meetings will appear in the 1975 Book of Proceedings of the Association.

Your Secretary, with the help of the Officers and Directors, answered all calls for the sick and departed members of the Association. Our officers represented the Association at several testimonials for retiring members and presented to the retirees plaques and Honorary Life Memberships in the Association.

Please do not hesitate to call upon your State Director or any officer of the Association 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 a member.

The dues are coming in fine, and to those who have not paid their dues, please send them along. We urge you all to continue our Membership Drive.

As of May 31, 1975, our membership

stands at 1,292, an increase of 24 over last year.

Maine - 68
New Hampshire - 108
Vermont - 66
Massachusetts - 482
Rhode Island - 92
Connecticut - 187
Outside N. E. - 39
Honorary Life - 242
Life - 8

New Members added during the year 1974-1975

Maine - 9
New Hampshire - 7
Vermont - 9
Massachusetts - 31
Rhode Island - 8
Connecticut - 16
Outside N. E. (Canada) - 1

Total - 81

During the year of 1974-1975, the following changes were made in the membership roster:

New members added	81
Lost by death	19
Lost by resignation	8
Lost by non-payment of dues	13

All members removed for non-payment were notified at least four (4) times by your Secretary and were removed in accordance with Article 5, Section 2 of the By-Laws.

All members for Honorary Life Membership, for those members meeting the Association's By-Laws, were acted upon at the two Directors' meetings.

I have attempted to serve you well as your Secretary-Treasurer, imperfect as the attempts have been. Please do not hesitate to call upon your Secretary at any time; it is my honor to serve you.

I wish to thank all the Officers, Committees and the Members, along with our very wonderful President, Joseph R. Cremo, for allowing me to assist you and for your cooperation. Thank you!

Respectfully submitted,
James F. Brennan, Chief
Secretary-Treasurer, NEAFC.

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PRESIDENT CREMO: Gentleman, you have heard the report of your Secretary. What is your pleasure?

Upon motion duly made and seconded, it was

VOTED: To accept the report of the Secretary as read.

PRESIDENT CREMO: We are now going to have a report from our Treasurer, Chief James F. Brennan.

ANNUAL REPORT OF THE TREASURER — 1975

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, 1975, pursuant to Article III, Section 4 of the By-Laws:

RECEIPTS

Balance on hand in checking account - June 1, 1975	\$ 2,637.85
Registration for 1974 Conference	5,190.00
Dues collected - 1974-1975	7,510.00
Sale of extra Ladies' Gifts	420.00
Received from Exhibit Committee	4,154.91
C. H. Clougherty, Jr., Sharing cost of conference badges	70.00
Red Book Account (to date)	3,000.00
D. C. Deans - Sharing cost of conference badges	70.00
Hingham Cooperative Bank interest	385.00
Insurance rebate	14.84
Interest from savings account	223.31
	<hr/>
	\$23,675.91

EXPENDITURES

Flowers, fruit, testimonials, etc.	\$ 638.10
Association paperweights	343.59
Shipping charges	112.24
1974 Conference expenses	8,655.10
Transfer to savings account	3,500.00
1975 Conference expenses (to date)	947.98
Refund of dues	20.00
Printing	1,554.67
Ladies' gifts	1,712.40

Conference badges	313.71
Postage	873.24
Offices supplies	277.71
Safety Deposit Box	12.00
Filing annual report	10.00
Advertisement in N. E. Division Book	50.00
Subscriptions	10.00
Insurance and bonds	167.89
Taxes - Social Security	628.24
Salary	1,602.24
Plaques and certificates	367.20
	<hr/>

\$21,797.32

Receipts	\$23,675.91
Expenses	21,796.32
	<hr/>

\$ 1,879.59

June 1, 1975

Merchants Warren Checking Account	1,879.59
Salem Five Cents Savings Bank	11,685.94
Hingham Cooperative Bank Shares	7,000.00
	<hr/>
	\$20,565.53

PRESIDENT CREMO: I shall now call upon Chief Albert Galfetti to report for the Auditing Committee, before I ask for a vote on the Treasurer's report.

AUDITING: The committee went through the Treasurer's books and found them in order.

On motion duly seconded the Treasurer's report was accepted as read.

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COMMITTEE REPORTS

RESERVATIONS: Chief James Cassavant.

On May 25th we had reservations filling the hotel. There were 410 members registered at the hotel.

On motion duly seconded the committee report was accepted.

EXHIBITS: Chief Edward Creighton.

We had 37 Outside and 41 inside exhibitors. Total income \$7,188.38. We gave out 44 gifts.

On motion duly seconded the report was accepted.

REGISTRATION: Chief Robert Ulm.

Total registration 776, an increase of 124 with \$6,285.00 total registration fees.

On motion duly seconded the report was accepted.

PROGRAM: Chief Paul V. Leddy.

We had a varied program and played to standing room only. If you want to hear something write us and we will get it for you next year. Applause.

On motion duly seconded the report was accepted.

ENTERTAINMENT: Chief George Bulger.

Good show well attended.

On motion duly seconded the report was accepted.

ELECTION OF OFFICERS: Chief John Cremo.

Before coming to that I want to thank you for the honor and privilege of serving you as President. My special thanks to the Officers, Directors and Committee Members and of course to our wonderful Secretary who keeps things going.

CHIEF HARRY SCHNEIDER, Agawam.

I nominate Ed Borowiec of Chicopee as our next President.

Nominations were closed. Secretary Brennan cast one vote for Ed Borowiec.

PRESIDENT EDWARD BOROWIEC: Many little boys want to be firemen, most firemen strive to be officers, and all officers strive to be Chief. However, few Chiefs are honored by the highest office of the N. E. Association of Fire Chiefs. I am one of the little boys and I am deeply grateful. My responsibility is to lead and in this I will need your help. I shall always be alert for innovations, receptive to your suggestions because no organization this large can continue without cooperation.

My first duty is to present the Past President's Pin to John Cremo. Applause. Monogrammed golf balls also presented.

JOHN CREMO: Thank you all.

PRESIDENT: I now appoint Thomas Nolan of Saugus, Mass., as Parliamentarian for the balance of this meeting.

ELECTIONS

FIRST VICE PRESIDENT

Chief Earle Andrews of Lincoln, R. I., nominated by Chief Henry Lawton of Rhode Island. Seconded by Chief Samuel Angell of Cumberland Hill, R. I. Nominations closed on motion by Chief Sanford, R. I., and one ballot cast.

CHIEF EARLE ANDREWS: I will hold myself to cooperate 100 per cent at all times. Thank you.

SECOND VICE PRESIDENT

John E. Devine, Manchester, N. H. nominated by Chief Merton Dyer of Peterborough,

N. H., seconded by Chief Donald Lane of Portsmouth, N. H.

Nominations closed and Chief Devine was elected by one vote.

TREASURER

James Brennan nominated by Chief James L. Grote of Conn., seconded by Chief Carlo of Dracut. Nominations closed on motion of William Hanson, Chief of Needham and Jimmy was elected on one vote.

TEASURER BRENNAN: God love you all. Thanks for your confidence; I said my

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prayers; I have worked hard but have had much help from Committees. Thanks fellas.

SECRETARY

Chief Grote nominated Jim Brennan for Secretary. Seconded by acclamation. Nominations closed on motion of Chief Schneider of Agawam. The President cast one vote and Jim was elected.

BOARD OF DIRECTORS

Theodore Jellison, Bangor, Me., as Director from Maine. Nominated by Chief George Varney, Kittery Point, and nominations closed by motion of Chief McGouldrick, So. Portland, Maine.

Fred Hast, Pittsfield, N. H. nominated by Chief Merton Dyer of Peterborough, seconded by Chief Lane, Portsmouth and nominations closed. Elected by one vote.

Chief Pat Brown nominated by Past President Albert Galfetti to be Director for Vermont. Nominations closed. Elected by one vote.

Carl Sawyer, Pequonock Bridge, Conn. nominated by Chief Raymond Potter, Suffield, seconded by Chief William Dush, Newington and closed on motion of Chief Russell Montgomery of Roxbury, Conn. Elected by one vote.

Chief Harry W. Schneider, Agawam, Mass. nominated by Chief Homer Dubois, Ludlow, seconded by Chief Ray Holt of Springfield and nominations closed by motion of Chief Thomas Nolan of Saugus. Elected by one vote.

Chief Joseph A. Monahan, Narragansett, R. I. nominated by Chief Melvin E. Sanford, Sr., Tiverton, R. I., seconded by Chief Michael Moise, Providence, R. I. and nominations closed by Chief Henry J. Mongeau of Lonsdale, R. I. Elected by one vote.

SALARY FOR SECRETARY

Salary raised from \$1,000 to \$1,500.

Salary for Treasurer raised from \$1,000 to \$1,500. Vote unanimous.

1978 Convention was voted unanimously to be held at Wentworth-By-The-Sea.

Chief Nolan raised objections to the inability of members to use the Golf Course, the green fee and the unavailability of the pool.

Mr. Smith of the Hotel was sent for and regretted that there was any problem on the golf course but stated that the pool has memberships and sometimes is crowded.

Mr. Smith said that arrangements can be made for golf fees for those wishing to play nine holes, at half price, but that golf is considered by some organizations in making up the package. Golf is not free per se but is included in the package. This is a matter of negotiation.

The gratuities were discussed and broken down to everybody's satisfaction; some discussion was had as to early arrivals and weekenders who leave Sunday afternoon. Firm arrival times could solve that problem.

NEW YORK STATE CONVENTION

It was moved and seconded and voted that the dates for our annual convention be checked with the New York Organization to avoid conflict.

INTERNATIONAL ASSOCIATION OF FIRE CHIEFS

Chief Callahan of Woburn made a motion that a committee be formed to discuss getting both organizations together, becoming one organization under one title. Chief Amico seconded the motion.

Chief George Bulger of Rumford, Me. was not in favor. Chief Fahey of Natick was opposed. Chief Carle urged working for both organizations; Chief McGouldrick of Maine felt that we could at least sit down and discuss the matter; Pat Brown with 66 members from Vermont, many of the Volunteer Chiefs said that the Volunteers would be wiped out and was opposed to the study; Chief Cashman of Barrington, R. I. urged a study.

Chief Scanlon of Lynn was opposed. The matter was put to a vote and the "No" vote had it and the motion was not passed.

News was received by the President of the death of Harold F. Purdy of the Middletown Fire Department. Members stood for a moment of silence in memory of our departed brother and member.

Chief Tom Gorman moved for adjournment of the 53rd Annual Conference and it was carried unanimously. Adjourned 12 o'clock noon on June 26, 1975.

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BY-LAWS

New England Association of Fire Chiefs, Inc.

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 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 at all 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

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(\$100.00) Dollars without the approval of the Board of Directors. The Secretary shall have in addition all the power 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 and sickness remembrances, to members and their families, and other persons and communities, who suf-

fer financial losses and hardships through death, sickness, injury, conflagrations and catastrophes.

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 at 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 meeting 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.

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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 Journal of the country.

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. file. 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. Application 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

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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.

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 the corporation, nor by a vote of less than three-fourth ($\frac{3}{4}$) 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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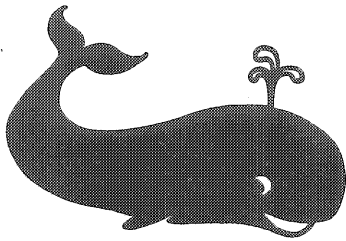
New England Association of Fire Chiefs, Inc.

1974

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 Anton, Michael, Rt. 11, Scarborough
 Bagley, Henry W., Chief, Princeton
 Bean, William L., Assistant Chief, Gorham
 Bergeron, Emile, Biddeford
 Berry, Ted., R.F.D. 2, Livermore Falls
 Bitomski, A. R., Assistant Chief, Kittery
 Brown, Ralph J., Chief, Cumberland Center
 Boivin, Eugene J., Chief, Rumford
 Butters, Robert, Chief, Norway
 Chandler, John, Chief, Gorham
 Clark, Ronald F., Chief, Brewer
 Cleaves, Freeman G., Chief,
 Ex-Chief, Falmouth
 Doley, Ernest C., Retired Chief, Westbrook
 Doucette, Reginald, Chief, Lewiston
 Daye, Ernest F., Chief, Calais
 Edwards, Harold R., Chief, South Paris
 Elkins, E. A., Deputy Chief, Freeport
 Emerson, Arthur R., Deputy Chief, Brunswick
 Emerson, Robert W., Lieut., Brunswick
 Eugley, Bertrand I., Chief, Lincolnville
 Fortier, Raymond E., Chief
 Bath Iron Works, Bath
 Fullerton, Cecil L., Retired Chief, Bath
 Gardner, Clinton E., Chief, East Machias
 Garriepy, Pald 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
 Grafton, George, Chief, Thomaston
 Hall, Ralph S., Bethel
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 Fire Dept., Kittery
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 Herrin, Norman A., Chief, Lucerne-in-Maine
 Holman, Redlon, Jr. Chief, Augusta
 Hoyt, Walter G., Chief, 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
 Lessard, J. A., Asst. Chief, Naval Shipyard
 Kittery
 Libby, Richard A., Chief, Windham
 MacKinnon, George, Kennebunkport
 MacNevin, Charles W., Chief, Lincoln
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 Olmstead, Lewis B., Deputy Chief, Norway
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 Oxtan, Robert M., Chief, Camden
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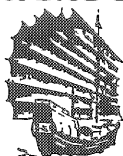
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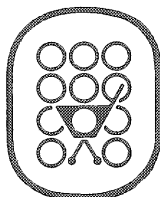
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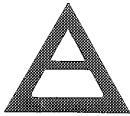
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Haverhill, Mass.

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80 Lowell Street Rear
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Hawkes Auto Parts, Inc.
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Peabody, Mass.

HAWKES AUTO PARTS, INC.

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West Stockbridge, Mass.
- McDermott, John F., Retired Chief
Providence, R. I.
- McDonld, Francis J., Retired Chief
Fall River, Mass.
- McDonough, Thomas G., Ret. Chief
Augusta, Me.
- McElvery, H. T., Retired Chief
Sound Beach F. D., Greenwich, Conn.
- McGlashan, James S., Retired Chief
Fairlawn, Saylesville, R. I.
- Means, Roger F., Ret. Chief, Hull, Mass.
- Mees, Francis, Chief Fire Officer
Johannesburg, South Africa
- Megin, Fred H., Sr., Retired Chief
North Stonington, Conn.
- Mercier, Moise H., Ret. Chief
West Franklin, N. H.
- Messer, Walter R., Ret. Chief, Keene, N. H.
- Mercier, Solomon A., Retired Chief
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- Miles, Chester W., Gamewell Company
Reddington Beach, Florida
- Miller, George J., Retired Commissioner
West Haven, Conn.
- Miller, J. Coleman, Ret. Chief, Auburn, Me.
- Miner, Alfred N., Boston, Mass.
- Mitchell, Donald C., Ret. Chief
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- Monast, Romeo D., Ret. Chief
Pawtucket, R. I.
- Mongeon, Edgar, Ret. Chief
Woonsocket, R. I.
- Moore, Donald R., Retired Chief
Deep River, Conn.
- Morrison, W. D., Retired Assistant Chief
Greenville, N. H.
- Morrow, Albert E., Ass't. Chief
Everett, Mass.
- Moulton, Earle G., Worcester, Mass.
- Mullen, Albert B., West Falmouth, Mass.
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- Murphy, Albert J., Retired Assistant Chief
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- Murray, Clinton H., Retired Chief
Cape Elizabeth, Maine
- Murray, Walter R., Retired Chief
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- Nadeau, Arthur, Retired Chief
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- Neal, Ernest L., Ret. Chief, Waltham, Mass.
- Nott, Carlton H., Retired Chief
Hanover, N. H.
- O'Brine, Edward P., Retired Chief
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- O'Neill, Thomas J., Retired Chief
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- Parent, John W., Retried Chief,
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- Paterson, Harry A., Retired Chief
Concord, Mass.
- Paul, Ernest C., Ret. Chief, Grafton, Mass.
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Westerly, R. I.
- Payson, Allen F., Ret. Chief, Camden, Me.
- Perley, Mervin L., Retired Chief, Athol, Mass.
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- Petrucelli, Leonard A., Retired Chief
Meriden, Conn.
- Phillips, Lawrence A., Retired Chief
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- Pike, Mace S., Ret. Chief, Salisbury, Mass.
- Pitney, C. E., Ret. Chief, Navy Yard
Kittery, Me.
- Pons, Frank T., Ret. Chief, Brookline, Mass.
- Powell, Hon. Wesley G., Portsmouth, N. H.
- Powers, Thomas J., Ret. Chief, Cranston, R. I.
- Pracny, Edward H., Retired Chief
Waterbury, Conn.
- Price, Louis A., Retired Chief
Sarasota, Florida (Medford, Mass.)
- Priest, George T., Retried Chief
Sarasota, Florida
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- Raymond, Albert H., Ret. Chief, Stowe, Vt.
- Reynolds, Walter F., Sr., Retired Chief
Medfield, Mass.
- Reynolds, Howard G., Ret. Chief
Storrs, Conn.
- Richard, Thomas F., Retried Chief
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- Richie, Thomas, Retired Fire Marshal
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Willimantic, Conn.
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Westbrook, Maine
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Pawtucket, R. I.
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- Ryan, Edward J., Ret. Deputy Chief
Northampton, Mass.
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Old Greenwich, Conn.
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Valley Falls, R. I.
- Sawyer, Norman E., Retired Chief
Sterling, Mass.
- Sawtelle, Lyman K., Retired Chief
Winchendon, Mass.
- Schiller, Joseph L., Retired Chief
Ashburnham, Mass.
- Schlissel, George H., Ret. Chief
West Haven, Conn.
- Scully, Francis, Retired Chief
Waterbury, Conn.
- Seavey, Clifford, Retired Chief
Kennebunkport, Maine
- Seavey, Ralph G., Retired Chief
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- Sheehan, John T., Retired Supt. State Police
Portsmouth, R. I.
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- Simmons, Frank E., Retired Chief
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- Skinner, Clarence E., Ret. Chief
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- Slaman, Thomas H., Retired Chief
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- Small, J. Bauer, Ret. Chief, Farmington, Me.
- Smallidge, Ralph G., Retired Chief
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- Smiley, Carlton H., Retired Chief
A. C. Lawrence Co., Danvers, Mass.
- Smith, Charles T., Retired
Gamewell Co., Needham, Mass.
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Bridgeport, Conn.
- Smith, James Barker, Manager-Owner
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- Soper, Arthur E., Retired Chief,
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Lexington, Mass.
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- Sprague, Roland F., Retired Chief
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- Increll, Wilfred, Ret. Chief, Uxbridge, Mass.
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- Veit, Victor H., Ret. Chief, Stamford, Conn.
- Volk, Charles A., Ret. Chief, Norwalk, Conn.
- Vreeland, Walter, Ret. Chief
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Protective Dept., Worcester, Mass.
- Walker, Harold S., Retired Fire Prot. Eng.
Marblehead, Mass.
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- Walsh, William T., Retired Chief
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- Watson, Charles A., Retired Chief
Hopedale, Mass.
- Watterson, John E., Ret. Chief, Newport, R. I.
- Weeks, Ernest, Ret. Chief, Portsmouth, N. H.
- Weldon, Leroy, Ret. Chief, General Electric
Plainville, Conn.
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 Whelan, Leonard F., Retired Commissioner
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 Manchester, N. H.
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Wochomurka, Edward, Retired Chief
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 Wood, Raymond L., Retired Chief
 Hanover, N. H.
 Woods, Cyril F., Ret. Chief
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 O'Hagan, John T., Chief, N. Y. City, N. Y.

Rand, Richard S., Fire Protection Engineer
 Amesbury, Mass. 01913
 Rothman, Shelley, West 57th Street
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 Ustjanuskas, Anthony, The 100 Club of
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Flanders, Haven E., President, Byse Insurance
 Agency, 635 Main St., Laconia, N. H.
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Brewster, Mass.

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133 Lawrence St., Lawrence, Mass.

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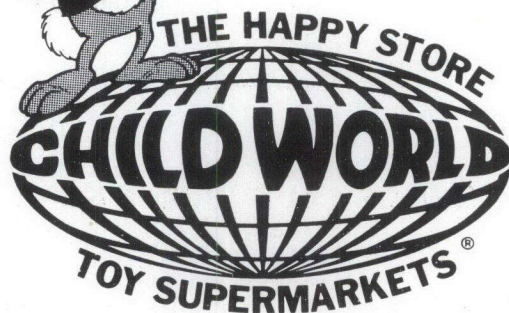


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