Presenting workshops on
The National Hand-Held Halon Fire Extinguisher Replacement Program

Ozone-Depleting Substances (ODS) Recycling, Reclaiming and Stockpiling Workshop

DFPA's 7th Annual Conference
April 28-29, 1993
Washington Hilton, Washington, DC

Co-Sponsored by Luxfer USA Ltd.

In conjunction with
CFSI's Fifth Annual National Fire and Emergency Services Dinner
(April 28)
FROM THE EXECUTIVE DIRECTOR

Please accept my personal thanks for your participation in DFPA's Seventh Annual Conference. We are here on important business. The agenda reflects continuing world-wide concerns about depletion of the ozone layer and the need to conserve halon and CFCs so that they will be available for society's needs.

This past year has been a very productive one for DFPA. Operating under a grant from the Department of Defense and the U.S. Environmental Protection Agency, DFPA has expanded its scope of activities to include all ozone depleting substances. The association's work is included in a comprehensive evaluation of the use of ODS that the Department of Defense will soon present to Congress.

Secondly, DFPA is developing criteria for replacing hand-held halon fire extinguishers and is preparing plans for a national hand-held halon fire extinguisher replacement program. This venture will begin with a demonstration project in the Washington, D.C. area.

In addition to these major efforts, the association is proposing an inter-agency group for hand-held extinguishers and ozone-depleting substances.

As we convene this conference, we convey special thanks to Representative Curt Weldon of Pennsylvania who has been so effective as founder of the Congressional Fire Services Caucus. We look forward to a close working relationship with Representative Steny H. Hoyer of Maryland, the current chairman.

We anticipate your active participation in the conference. Your observations and recommendations will be reflected in the Proceedings. Whether your primary purpose is to transmit information or to receive it, I trust that all of us will leave this conference with a better understanding of the issues.

Ron Fisher
Captain, USN (Ret)
Executive Director, DFPA

Endorsing Associations

- Aerospace Industries Association
- Air Transport Association
- Alliance for Responsible CFC Policy
- American Fire Sprinkler Association
- American Petroleum Institute
- American Society of Naval Engineers
- Chemical Manufacturers Association
- National Fire Protection Association
- Fire and Emergency Manufacturers and Services Association
- National Electrical Manufacturers Association
- National Fire Sprinkler Association
DFPA AND LUXFER USA LTD.

INVITE

PARTICIPANTS IN

CESI's NATIONAL FIRE AND EMERGENCY SERVICES DINNER

TO

COFFEE AND REFRESHMENTS

IN THE

MILITARY ROOM
APRIL 28 - 9:00 AM TO 4:30 PM

AND IN THE

INTERNATIONAL BALLROOM
APRIL 29 - 9:00 AM TO 4:00 PM
**WEDNESDAY, APRIL 28 - Washington Hilton**

**Morning**

7:30  Registration - Lincoln West  
7:30  Exhibits and Coffee - Military Room  
8:45  Welcome and Overview, Ron Fisher, Executive Director, DFPA  
8:50  Fire Safety Update, Representative Curt Weldon, Founder and Vice Chairman, Fire Service Caucus  
9:20  Lessons from the USS Forrestal (CV59) Fire, Senator John S. McCain, Co-Chairman, Fire Service Caucus  
9:40  Carrier Flight Deck Fire Fighting, Ens. Mark Persutti, Air Bos'n, USS George Washington (CVN73)  
      Standoff Delivery System, Walt Herman, Land Harpoon Company  
10:00  Refreshment Break - Military Room  
10:15  Navy Passive Fire Protection Program  
      ▲ Ex USS Shadwell Navy Full Scale Fire Test, Dr. Fred Williams, Naval Research Laboratory  
      ▲ Fire Retardant Packaging, Norbert Karl, Manager, Navy Fire Retardant Packaging Program  
      ▲ Fire Retardant Latex Paint, Steven Sass, Crestline Industries  
      ▲ Fire Retardant Celullosic Materials, Mike Kiser, Flame Seal  
      ▲ Cable Coatings, Dr. Eugene A. Cioffi, Hamilton Chemical Corporation  
11:00  Ground Vehicles, Carmen DiGiandomenico, U.S. Army Materiel Command  
11:30  Aviation and Halon Replacements, Major Tom Morehouse, USAF  
12:00  Lunch  

**Afternoon**

1:30  National Hand-Held Halon Fire Extinguisher Replacement Program Workshop - Georgetown East  
      Moderator: Joe Ziemba, Secretary, NFPA Portable Fire Extinguisher Technical Committee and Executive Director, NAFED  
      - Tactical Systems (Ground Vehicles, Aircraft & Watercraft)  
      - Strategy, Plan and Surveys  
      - Alternative Agents and Selection Criteria  
      - Implementation Plan  
      - Logistics Support, Provisioning and Work Instructions  
      ▲ Cylinders, James R. Ament and Michelle L. Daum, Luxfer USA Limited  
      ▲ Fire Blankets, Mike Kiser, Flame Seal Products  
      ▲ Model Demonstration Project, Surveys, Labeling, Plans and Procedures  
3:15  Refreshment Break - Military Room  
3:30  Technology Development Plan for Replacement of Ozone-Depleting Substances (ODS), Jim O'Bryon, Deputy Director, Test and Evaluation (Land and Maritime Programs)  
4:00  Accelerated Acquisition - Non Developmental Items (NDI), Dick Healing, Acting Assistant Deputy Under Secretary of the Navy for Safety and Survivability  
4:30  DFPA Wednesday Session Conclusion  
5:30  CFSI Reception for Participants in the National Fire and Emergency Services Dinner  
7:30  CFSI Fifth Annual National Fire and Emergency Services Dinner
THURSDAY, APRIL 29 - Washington Hilton

▶ Morning

7:30  Registration and Coffee - International Ballroom
8:45  Welcome and Overview, Ron Fisher, DFPA - International Ballroom
9:00  Recycling and Reclaiming Material & Dual Use Technology, Representative George Hochbrueckner, Chairman, Congressional Clearinghouse on Recycling
9:30  Environmental and Regulatory Requirements for Ozone Depleting Substances (ODS), Karen Metchis, USEPA
9:55  Planning for Use of Alternative Refrigerants in Air-Conditioning and Refrigeration, Glenn C. Hourahan, Research Manager, Air Conditioning and Refrigerant Institute (ARI)
10:05  Recycling, Recovery, Reclaiming — ARI’s Standards and Certifications Programs, Mike Woodford, Assistant Vice President, ARI Engineering Department
10:15  Refreshment Break
10:30  ODS Replacements and Alternative Technologies
      Halon 1301 Replacements, Mike Bennett, Technical Director, Halon 1301 Replacement Program, U.S. Air Force
      Halon Alternatives, Jerry A. Brown, Spectrex Inc.
      Water Based Halon Substances, Ted Adams, Pyrocap, Inc.
      Alternative Refrigerants Research, Dr. J.E. Hill National Institute for Standards and Technology
      Overview of Alternative Refrigerants, Paul R. Reed, E.I Du Pont Co.
11:30  ODS Elimination Program Management, Angie Schurig, Corporate Environmental, Texas Instruments (Winner 1992 Malcolm Baldridge Quality Award)
12:00  Lunch

▶ Afternoon

1:30  Ozone-Depleting Substances (ODS) Recycling, Reclaiming and Stockpiling Workshop
      Moderator: Dr. Ken Malmberg, USCG - International Ballroom
      Inventories Usage and Essential Needs Data Management
      Service Steering Committee, Anthony Nickens, Chairman, Service Technical Committee on ODS
      National Halon Bank, Tom Cortina, Halon Alternatives Research Corporation (HARC)
      Toxicity Issues, Joe Macko, Army Materiel Command Equipment and Materials
      ▲ Halon 1301 Reclamation Equipment, Robert Nunamann, Marotta Scientific Controls, Inc.
      ▲ Recovery Cylinders, Mike Stampley, Manchester Tanks and Equipment Co.
      Plans and Procedures
3:30  Conference Summation and Concluding Remarks
4:00  Conference Concludes
SYSTRON DONNER
Setting the Industry Standards for
Installed Fire Protection Systems - Recycled Halon

The Model 914
Marine Fire Protection System

<table>
<thead>
<tr>
<th>Installed in</th>
<th>Features</th>
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<tbody>
<tr>
<td>U.S. Naval Vessels</td>
<td>Engineered or Turnkey Systems</td>
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<td>Hydrofoil Ferryboats</td>
<td>Rapid Detection</td>
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<tr>
<td>Fisheries Patrol Vessels</td>
<td>Low Life Cycle Costs</td>
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<td>Oil Tankers</td>
<td>Rugged Construction</td>
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<td>Mine Hunters/Sweepers</td>
<td>Reduced False Warnings</td>
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<td>Main and Reserve Extinguishers</td>
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<th>Easily Interchangeable</th>
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<tr>
<td>Recycled or Virgin Halon</td>
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<tr>
<td>CO₂</td>
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<tr>
<td>Dry Chemicals</td>
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| Cylinders with 2-600 Lb. Capacity              |
| Steel                                          |
| Lightweight Aluminum                           |
| Lightweight Composite                          |

| Detectors                                       |
| Optical Flame                                  |
| Spot Thermal                                   |
| Continuous Length Thermal                      |
| Smoke                                          |

| Cylinders operated manually or automatically by|
| Solenoid                                       |
| Pressure                                       |
| Manual Lever                                   |
| Squib                                          |

SYSTRON DONNER
also provides advanced technology fire protection systems and components, for commercial and military aircraft, the oil & gas industry, power generation facilities, trains, and off-road vehicles.

Systron Donner
Safety Systems Division, 2731 Systron Drive, Concord, CA 94518-1355, PHN: 510-674-6796, FAX: 510-671-9840
Please begin our company membership at the following annual dues level: (Please check level)

<table>
<thead>
<tr>
<th>Annual Corporate Revenues</th>
<th>Annual Dues</th>
<th># of Employees you can enroll</th>
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<tr>
<td>Over $1 million</td>
<td>$800</td>
<td>6</td>
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<td>500,000 - $1 million</td>
<td>$500</td>
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<td>0 - 500,000</td>
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YES! I want to help the Defense Fire Protection Association raise the Excellence of Fire Safety, Phaseout Halon and protect the environment. I've enclosed my tax deductible donation:

- $5000
- $2500
- $1000
- $500
- $250
- $100
- $50
- $25

Start or renew my individual membership in the Defense Fire Protection Association.

I've enclosed:

- Industry Safety Personnel $32
- Government/Military/Fire Service $16

Mail your check, Purchase Order OR you can charge your contribution! Just fill this in...

- Our check for $________ enclosed
- Government P.O.# ____________

- Visa
- MasterCard
- American Express
- Diners Club
- Carte Blanche

Card #: ______________________ Exp. Date: __./__ Signature

Name: _________________________ Dr./Mr./Ms. First Initial Last (MD/PhD)

Title: ________________________

Org/Company: __________________

Mailing Address: ______________

City: _________________________ State: ______ Zip: __________

Telephone: (______) ___________ FAX: (______) ___________

Please provide a one to three sentence description of you and/or your organization's mission in the fire safety and environmental protection areas. For individual membership, list areas of interest and expertise.
Luxfer
Aluminum CO₂ Cylinders

Clean  Rustfree aluminum won't scale or corrode to clog the valve, and exterior surfaces retain a superior appearance. Also, the inside of each cylinder undergoes a special cleaning treatment during manufacturing.

Lightweight  Aluminum cylinders are up to 40% lighter than steel for easier handling.

Safe  Luxfer aluminum cylinders have DOT 3AL approval and, with proper care, have an unlimited life. There are over 18 million Luxfer aluminum cylinders in service today!

Luxfer Quality  Thicker walls and special aluminum alloy make Luxfer aluminum cylinders stronger than comparable steel cylinders. They are able to absorb more impact and have greater resistance to damage from accidental dropping.

Luxfer... The preferred cylinder for CO₂ Fire Extinguishers.

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