



# WILDFIRE

## FEUX DE FORÊT

## INCENDIOS FORESTALES



**Meeting Global  
Wildland Fire Challenges**

**The People, The Land,  
The Resources**

**July 23, 24, 25, 26, 1989  
Boston, Massachusetts, U.S.A.**

**Le défi mondial  
des feux de forêt**

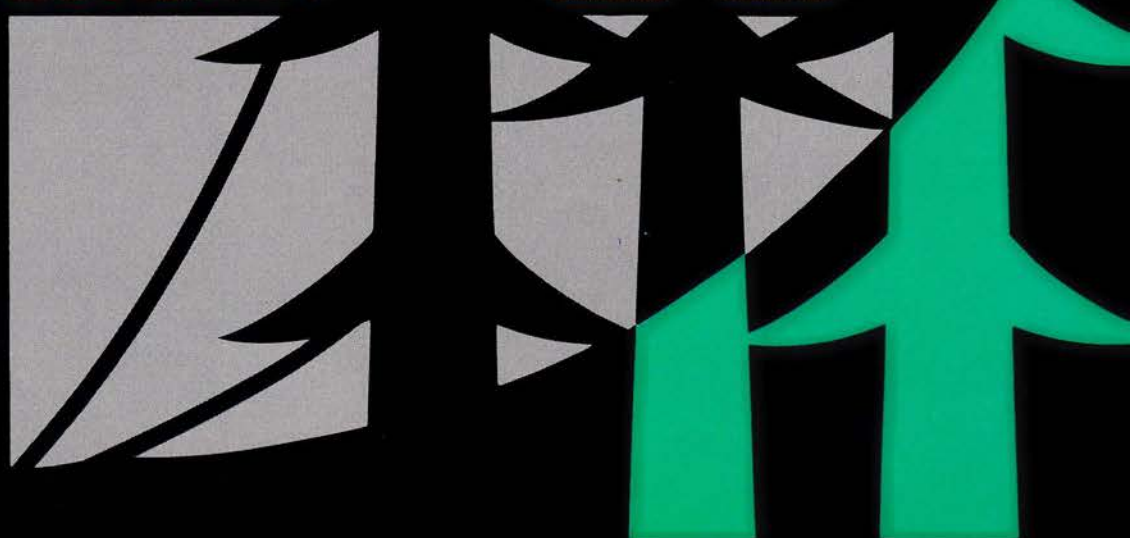
**Populations, terres  
et ressources**

**Les 23, 24, 25 et 26 juillet 1989  
Boston, Massachusetts, États-Unis**

**Como afrontar los desafíos  
globales de incendios forestales**

**La gente, los terrenos,  
los recursos**

**23, 24, 25 y 26 de julio de 1989  
Boston, Massachusetts, EE.UU.**





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## HOW TO USE THIS BOOK

This book is your guide to the conference. We've designed it to be easy to use for all conference participants. First, we've divided it into three color-coded sections: **grey** for English, **yellow** for French and **orange** for Spanish. Each section contains a comprehensive conference schedule with details on seminar topics and biographies of speakers. In addition, you'll find listings of educational exhibits, demonstrations, and social events. There's also a brief background of the city of Boston and all the historic sites which surround you.

We hope this book will be of help to you and that the conference meets all of your expectations.

## COMMENT UTILISER CE GUIDE

Le présent guide a été conçu à l'intention des participants à la conférence.

Il est divisé en trois sections codées par couleurs : gris pour l'anglais, jaune pour le français et orange pour l'espagnol. Chaque section contient un emploi du temps détaillé de la conférence avec des précisions sur les thèmes des séminaires et la biographie de chaque intervenant. Vous y trouverez également la liste des expositions éducatives, des manifestations et autres activités prévues, ainsi qu'un bref historique de la ville de Boston et de tous les sites qui vous entourent.

Nous espérons que ce guide vous sera utile et que la conférence sera à la mesure de ce que vous en attendez.

## CÓMO UTILIZAR ESTE LIBRO

Este libro es su guía para la conferencia.

Su diseño lo hace fácil de usar para todos los participantes de la conferencia. Se compone de tres partes indicadas con colores distintos : gris para la sección en inglés; amarillo para la sección en francés; y naranja para la sección en español. Cada sección contiene un programa detallado de la conferencia con horarios, los temas cubiertos en los seminarios y resúmenes de biografías de los oradores. Incluye además listas completas de las muestras educativas, las demostraciones y las reuniones sociales, y una descripción general de la ciudad de Boston y de los puntos de interés histórico ubicados en las cercanías.

Esperamos que este libro le sea de utilidad y que la conferencia satisfaga todas sus expectativas.



# S P O N S O R S

## The Conference Sponsors



The National Fire Protection Association



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Forestry Canada



The U.S. Department of Interior



The Mexican Secretaria de Agricultura y Recursos Hidraulicos



U.S. Agency for International Development, Office of Foreign Disaster Assistance

## Technical Collaborators



Food and Agriculture Organization of the United Nations



United Nations Disaster Relief Organization

## ALLAN J. WEST

Allan J. West is Deputy Chief for State and Private Forestry for the U.S. Department of Agriculture's Forest Service. West began his Forest Service career as a research forester in the Pacific South-west Forest and Range Experiment Station's Central Sierra Snow Laboratory in Soda Springs, California. He served as an assistant district ranger, district ranger, and deputy forest supervisor in many of California's national forests before becoming the Forest Supervisor for the Los Padres National Forest, Goleta, California.

# W E L C O M E



Welcome to Boston, Massachusetts and to Here at the "Meeting Global Wildland Fire — The People, The Land, The Resources" conference we will learn from the leaders in the international wildland fire community about the issues and events shaping wildland fire protection and management throughout the world.

This week our conference will feature an examination of the worldwide natural resource situation and also examine the biological, social, political and economic issues of decision making, examples of international cooperation to confront wildland fire problems and the key elements of successful international programs.

Complementary to our excellent group of speakers the conference is structured to provide all participants with an opportunity to exchange ideas and information. The Round Table Luncheon on

will result in an "Action Plan" for advancing international cooperation in wildland fire management that will be published for you to take home at the close of the conference.

The displays and exhibits present the latest in technologies and information for successful establishment of basic fire management programs. I encourage you to visit the displays and take advantage of the knowledge and expertise presented by our exhibitors.

Of special note is the fact that the United Nations has proclaimed the 1990's as the "International Decade For Natural Disaster Reduction." The goal of the "Decade" is to stem and reverse the increasing loss of life and property from natural disasters through worldwide coordinated efforts by governments, scientists and engineers. This is to be accomplished through the employment of existing and rapidly evolving technologies for disaster assessment, prediction, prevention, and mitigation with the goal of stopping natural hazards from becoming human disasters.

We are honored that the United Nations Disaster Relief Organization has officially recognized this conference as a Pre-Decade activity. It is important that wildland fire be recognized as one of the natural disasters to be addressed during the Decade.

On behalf of all the conference sponsors; The National Fire Protection Association, USDA Forest Service, Forestry Canada, The Mexican Secretaria de Agricultura y Recursos Hidraulicos, The National Association of State Foresters, The U.S. Department of Interior and the Agency for International Development, Office of U.S. Foreign Disaster Assistance I want to wish you a stimulating and productive week and look forward to seeing all of you here in Boston.

Allan J. West  
General Chairman



# WELCOME TO BOSTON

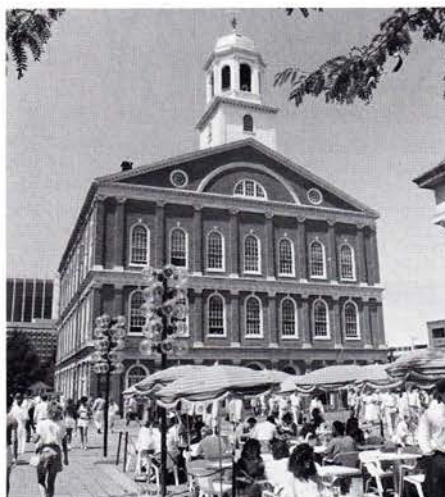
(You're within walking distance of America's earliest history)

Boston, the city that launched the American Revolution, is easily toured by foot. And the Copley Marriott is ideally situated for a walk through the best of Boston.

Here are some of the sites you can easily reach.

## THE BOSTON COMMON AND THE PUBLIC GARDEN

Walk through Boston's first public park and Boston's first botanical garden. And enjoy a ride on the swan boats on the tranquil Duck Pond. (12 minute walk)



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Revolutionary halls and meeting places now are lined with hundreds of shops, boutiques, push-cart vendors, street entertainers, restaurants, bars and food stands. (20 minute walk)

## BEACON HILL

Tour many splendid homes and museums dating back to the Revolution. A walk through Louisburg Square is a must. (10 minute walk)

## THE NORTH END

The city's Italian district. Great food. European cafes. Paul Revere's house and the Old North Church, a must. (about a 30 minute walk)

## THE FREEDOM TRAIL

At State Street you will find the beginning of the Freedom Trail where a red painted path will take you back 200 years to where the Revolution began. (10 minute walk)



Any questions regarding direction will be gladly answered by the concierge at your hotel.

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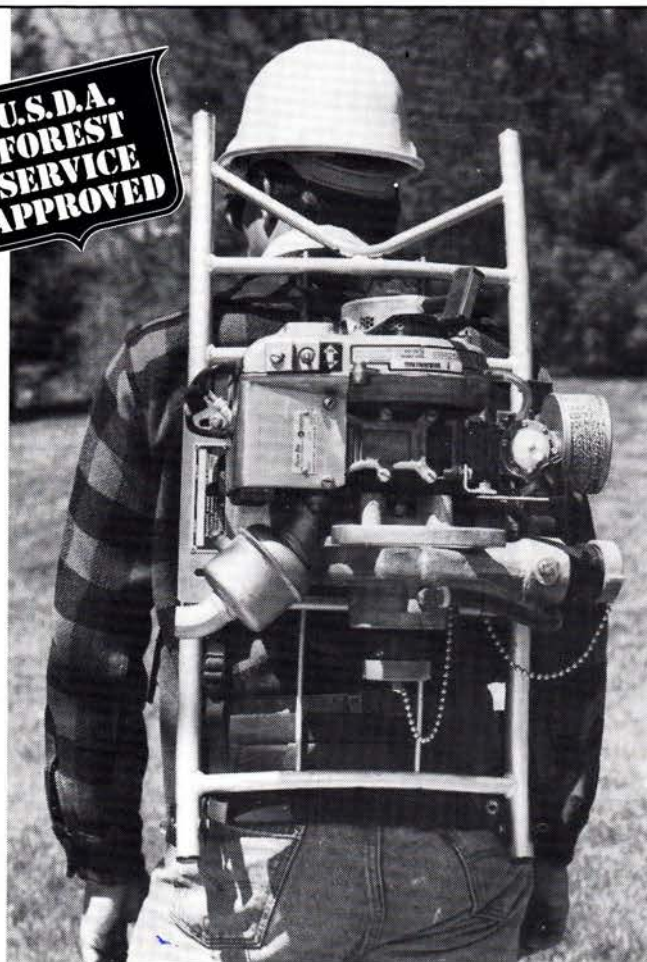
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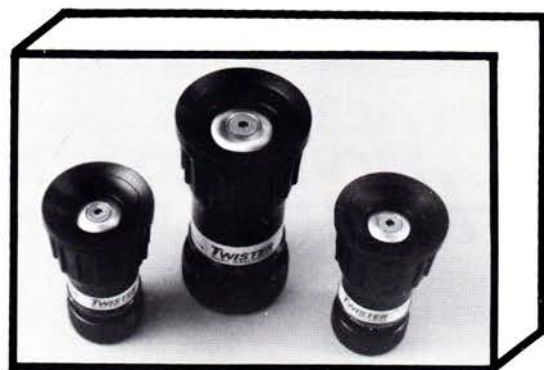






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## July 23

### Sunday Afternoon

You may pick up your programs and schedules from 2:00 pm until 6:00 pm. The registration area is located on the fourth floor of the hotel. At this time you have the unique opportunity to view over 100 displays from public and private organizations from around the world. These displays will cover fire prevention, training, safety, detection, use of helicopters, use of light and heavy aircraft, smokejumping, fire research, and detailed fire management programs from other countries. The Educational Displays will be open from 2:00 pm until 8:00 pm. All displays will be located in University Hall on the third floor of the hotel. (See listing on page 12 & 13).

### Sunday Evening

Please join us for an informal no-host social in the Educational Display area on Sunday Evening from 6:00 pm to 7:00 pm. This will provide an opportunity for all conference attendees to meet informally in a relaxed, casual atmosphere.

## July 24

### Monday Morning

#### Registration

- 7:30 am.** If you didn't register Sunday, you may pick up your programs and schedules at 7:30 am. Registration is located on the fourth floor of the hotel.
- 8:30 am.** Opening Ceremony: Allan J. West, Conference General Chairman and Deputy Chief USDA Forest Service. Welcoming remarks to leaders of public and private organizations from around the world to discuss issues, programs, and strategies to reduce serious wildland fire losses and to promote international cooperation.
- 8:50 am.** Robert Grant, President of the National Fire Protection Association, comments on NFPA's Wildland Fire perspective.

- 9:00 am.** Robert M. Swinford, Conference Manager and National Fire Prevention Officer, USDA Forest Service. Mr. Swinford will provide you with details regarding conference procedures including information concerning the Educational Displays as well as information for Social Activities.

## July 24

### Monday Morning

#### Session 1, Ballroom A-E

- 9:15 am.** The Purpose Statement. Session Chairperson: Jean Claude Mercier, Deputy Minister Forestry Canada. Mr. Mercier will make a brief statement of the global wildland fire problem in context with natural resources, economic, and natural disaster issues. He will introduce each speaker, and they will develop an overall perspective of our global resources.

#### Presenters:

- 9:30 am.** The Resource Perspective - Jean Paul Lanly, Director of Forest Resource Division, Food and Agriculture Organization of the United Nations.
- 9:50 am.** The Economic Perspective - Chuck Lankester, Principle Technical Advisor, United Nations Development Program.
- 10:10 am.** Break
- 10:40 am.** Confronting Natural Disasters - M'hamed Essaafi, United Nations Disaster Relief Co-ordinator, Undersecretary General United Nations.
- 11:00 am.** The Global Challenge for Wildland Fire Management - F. Dale Robertson, Chief, USDA Forest Service
- 11:30 am.- 1:00 pm.** Lunch: There are several restaurants for attendees to find a quick lunch throughout the

hotel/shopping complex. The Educational Displays will also be open at this time.

### Monday Afternoon

#### Session 2, Ballroom A-E

- 1:00 pm** The Issues of Decision-Making. Session Chairperson: Jesús B. Cardena, Director General, Normatividad Forestal, Mexico.  
Mr. Cardena will chair six thirty-minute presentations centering on the physical and ecological consequences of global fire regimes in the following six regions of the world:
- 1:15 pm.** Africa - Konan Soundele, Le Directeur General, Societe de Developpement Forestier, Cote d'Ivoire.
- 1:45 pm.** Australia - New Zealand and Pacific Region, Roger Underwood, Australia
- 2:15 pm.** Asia - Speaker to be announced.
- 2:45 pm.** Break
- 3:15 pm.** Europe - Ricardo Velez, Jefe del Servicio de Defensa Contra Incendios Forestales, Instituto Para la Conservacion de la Naturaleza, Spain.
- 3:45 pm.** Latin America - Hugo Knockaert, Jefe Nacional Programa de Manejo del Fuego, Corporacion Nacional Forestal, Chile.
- 4:15 pm.** North America - Charles W. Philpot, Director, Pacific Northwest Experiment Station, Forest Service, USA.
- 4:45 pm. - 7:00 pm.** University Hall, Educational Display Area Open.

### Monday Evening Program

- 6:00 pm. - 7:00 pm.** You are invited to a reception in the Educational Display area. (cash bar)



## Monday Evening Gala

Salon F

**7:00 pm.** Enjoy a gala dinner celebration and an evening of music from the classic jazz era with The New Black Eagle Jazz Band. The key ingredient in all of the Black Eagle's music is its soulful quality. Their exhilarating style has propelled them to the forefront the traditional jazz scene, and has earned them accolades from audiences and critics alike.

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**July 25**

## Tuesday Morning

Session 1, Ballroom A-E

**8:30 am.** The Social, Political and Economic Issues of Decision Making. Session Chairperson: Giancarlo Calabri Dirigente Tecnico del Corpo Forestale dello Stato, Italy. Mr. Calabri will reaffirm the objectives of the Biological and Physical Issues of Decision Making and analyze the social, political and economic factors of Wildland Fire Management.

There will be six, twenty-minute presentations on Africa, Europe, Asia, Pacific Region, Latin American, and North America.

**8:45 am.** Africa - Kofi Portuphy, Director of Operations, National Mobilization Program, Ghana

**9:05 am.** Australia, New Zealand, and the Pacific Region - Jale Baba, Fiji Pine Commission, Fiji

**9:25 am.** Asia - A.G. Oka, Inspector General of Forests, Ministry of Environment and Forests, India.

**9:45 am.** Break

**10:15 am.** Europe - Pierre Former Head of Research Department (Recherches For France. (Retiree)

**10:35 am.** Latin America - Intervenor, Int Forestal Nacion

**10:55 am.** North America - Hernandez Ochoa Secretario Fore Secretaria de Recursos Hidrau

**11:15 am.** Summary of The Political and Economic Issues of Decision presented by Ch Philpot, Director Northwest Experiment Station, USDA Forest Service.

**11:35 am.** Break

## Tuesday's Round-Table Lunch Ballroom F & G

**Noon-2:00 pm.** Issues, Barriers, and Round-Table Lunch Chairperson: Dave Forest Supervisor National Forest, U

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Be a part of this interactive luncheon meeting. Work together and discuss overcoming barriers to international cooperation and proposing solutions to the management and control of wildland fire. Each table at the luncheon will have an international composition to foster a truly integrated exchange of information, viewpoints, and experiences. Everyone will have the opportunity to participate.

2:00 pm. Break

### **Tuesday Afternoon**

#### **Session 2, Ballroom A-E**

2:30 pm. International Cooperation, Chairperson: John J. Moeller, Assistant Director, Bureau of Land Management, United States Department of the Interior. Presentations of international cooperative programs.

2:40 pm. Latin America Fire Suppression Courses: Denise Decker, formerly with the Office of U.S. Foreign Disaster Assistance. Jay Perkins, USDA Forest Service.

3:00 pm. China and International Assistance: Ralph Roberts, Director, Forestry Sector, Canadian International Development Agency, Canada.

3:30 pm. International Wildland Fire Cooperation Between the Forest Service and the Mexican State of Sonora. David F. Jolly, Regional Forester, Southwest Region, USDA Forest Service.

3:50 pm. A Review of FAO's Program on Forest Fire Protection. Jan Troensegaard, Senior Forestry Officer, Food and Agriculture Organization of the United Nations.

4:10 pm. Modern Fire Control Project of India. Mr. J.P.L. Srivastava, Modern Fire Control Project Leader, India.

4:30 pm. Adjourn for the day.

4:30 pm.- 7:00 pm. University Hall, Educational Display area open.

6:30 pm. Enjoy America's Favorite Pastime. American League Eastern Champion Boston Red Sox vs. Kansas City Royals baseball game.



Attendance is optional; tickets are available for purchase on a first-come first-served basis in the registration area. The baseball stadium (Fenway Park) is within walking distance of the hotel.

### **July 26**

#### **Wednesday Morning**

##### **Session 1, Ballroom A-E**

8:30 am. Continuation of Case Examples. Chairperson: William T. Sommers, Staff Director, Forest Fire and Atmospheric Sciences Research, USDA Forest Service.

8:40 am. North American Forestry Commission - Fire Management Study Group. Harry Layman, State Forester, North Carolina.

9:00 am. Wildland/Urban Interface - The Ash Wednesday Story. H.E. Rothsay, Deputy Chief Officer, County Fire Authority, Australia.

9:20 am. Break

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9:50 am. Why Programs Succeed.  
Panel Chairman: William T. Sommers, Director of Forest Fire and Atmospheric Science Research, USDA Forest Service.

#### Introduction of Panel Members.

The panel members will consider the political, legal, social, economic, biological, and physical factors that may either foster or impede the successful implementation of effective programs. They will describe the building blocks that contribute to the formulation of successful programs. Each member will present his individual views and observations.

#### Panel Members:

Johann G. Goldammer  
University Professor  
West Germany

Lowell Smith  
State Forester  
Nevada

Menachem Sachs  
Director, Israel Land Development Authority  
Israel

Oliver Davidson  
Assistant Director of Operations  
Office of U.S. Foreign Disaster Assistance, US Agency for International Development, USA

11:15 am. Question and Answer Session

11:45 am. Lunch. Be sure to stop by one of the many restaurants located throughout the hotel and shopping complex.

11:45 am. - University Hall, Educational

1:15 pm. Display area open

#### Wednesday Afternoon Session Ballroom A-E

1:15 pm. Chairperson: William L. McCleese, Assistant Staff Director, Fire and Aviation Management, Forest Service, USA.

We now better understand the role of wildland fire and its management in

various parts of the world. The and barriers that keep us from more efficient in managing will have been identified. At this time will explore opportunities on how to overcome these barriers and encourage future international wildfire cooperation.

1:30 pm. The Issues and Opportunities of International Cooperation. Bob Lee, Professor of Forestry, University of Washington.

2:15 pm. Approaches to International Cooperation in Wildland Management. John Goodman, Executive Director, Forest Resources Group, Ontario, Canada.

3:00 pm. Closing Ceremony: A. West, Conference Chairman, Deputy Chief, USDA Forest Service.

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**FIRE-ATTACK** presents footage of many of the most dramatic and destructive forest fires (provided by forest protection organizations) in Australia, Canada and the United States. "To let a fire burn, or not let it burn" is the dilemma faced in respect to the influence of wildfires on the environment.

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# Monday, July 24

Chuck Lankester



F. Dale Robertson



M'hamed Essaafi



Konan Soundele



# Tuesday, July 25

David F. Jolly



Jale Baba



A.G. Oka



Dave Wright



Kofi Portuphy



Jan Troensegaard



# Wednesday July 26

William T. Sommers



Harry Layman



H.E. Rothsay



William L. McCleese



John Goodman



# Panel Members

Lowell V. Smith



Menachem Sacks





## Educational Display Hours

University Hall

Sunday, July 23  
2:00 pm. to 8:00 pm.

Monday, July 24  
11:30 am. to 1:00 pm.

Monday Evening  
4:45 pm. to 7:00 pm.

Tuesday, July 25  
4:20 pm. to 7:00 pm.

Wednesday, July 26  
11:45 am. to 1:00 pm.

**Booth No. 17-18.** The United States Department of the Interior. Presented by Phil Range and John Black, Bureau of Land Management, U.S. Department of the Interior.

**Booth No. 19.** Decade For Natural Disaster Reduction Program. Presented by Robert D. Gale, Forest Service, U.S. Department of Agriculture.

**Booth No. 20.** Jiagedaqi Model Forest Fire Management Project. Presented by Merrill F. Rush and Richard A. White, Ontario Ministry of Natural Resources, CANADA; Chen Jun, Daxinganling Forest Corporation, PEOPLE'S REPUBLIC OF CHINA.

**Booth No. 21.** Forest Fires and Fire Management in Turkey. Presented by Dr. Mehmet Serez, Karadeniz Technic University, Nevzat Ozer, General Director of Forestry, TURKEY.

**Booth No. 22.** Fire management practices in peninsular Malaysia. Presented by Ahmad Ainuddin Nuruddin, Mohd. Basri Hamzah, and Mohd. Fauzi Abu Bakar, Universiti Pertanian MALAYSIA.

**Booth No. 23.** Fire control and wildlands conservation in the Sierra de Manantlan Biosphere Reserve. Presented by Enrique J. Jardel and Lazaro Rafael Sanchez-Velasquez, Laboratorio Natural Las Joyas, Universidad de Guadalajara, MEXICO.

**Booth No. 24.** Forest fire occurrence in Brazilian protected lands. Presented by Ronaldo Viana Soares, University of Parana, BRAZIL.

**Booth No. 25.** Effects of wildfires on the main forest ecosystems in Taiwan (ROC). Presented by Dr. Ming-Yin Chen and King-Cherng Lu, National Chung-Hsing University, TAIWAN (REPUBLIC OF CHINA).

**Booth No. 26.** Managing ponderosa pine (*Pinus ponderosa*) forests to be productive and fire safe. Presented by James K. Brown, Forest Service, U.S. Department of Agriculture.

**Booth No. 27.** Effects of fire on California chaparral systems. Presented by Susan G. Conard, Susan C. Barro, and Wade G. Wells, II, Forest Service, U.S. Department of Agriculture.

**Booth No. 28.** Fire damage to forests and unique ecosystems in Fiji. Presented by Jale Baba, Fiji Pine Commission, Fiji.

**Booth No. 29.** Techniques used to determine soil and cambium temperatures

during prescribed fires. Presented by Stephen S. Hackett and Sally M. Haaso, Forest Service, U.S. Department of Agriculture.

**Booth No. 30.** Effect of prescribed burning on the growth of *Pinus kesiya* in Zambia. Presented by Bernard M. Chomba, Division of Forest Research, ZAMBIA.

**Booth No. 31.** Effectiveness of prescribed burning in the containment of forest wildfires in Western Australia. Presented by Rick Sneeuwjagt, Western Australia Department of Conservation and Land Management, AUSTRALIA.

**Booth No. 32.** Natural revegetation following the 1983 Rosie Creek Fire near Fairbanks, Alaska. Presented by Margaret Joan Foote, Forest Service, U.S. Department of Agriculture.

**Booth No. 33-34.** Advanced Innovation, Inc., Minneapolis, Minnesota, USA. Presented by Ralph Groehler.

**Booth No. 35.** SEI Industries, Ltd., Richmond, British Columbia, CANADA. Presented by Peter Banfield.

**Booth No. 36.** Present and future thermal infrared (IR) systems for wildland fire mapping and detection. Presented by John R. Warren, Forest Service, U.S. Department of Agriculture.

**Booth No. 37.** Handar, Inc., Sunnyvale, California, USA. Presented by Katie Andrews.

**Booth No. 38.** The long and short of fire weather forecasting. Presented by Francis M. Fujioka and Morris H. McCutchan, Forest Service, U.S. Department of Agriculture.

**Booth No. 39.** Preliminary investigation of fire monitoring in Sardinia, Italy using meteorological and topographic data along with data from remote sensing satellites. Presented by Consorzio Ricerche Sardegna, ITALY.

**Booth No. 40.** Development of geographically displayed fire management information based on Australian, Canadian, and U.S. fire danger rating systems. Presented by Ian R. Methven and Ugo Feunekes, R/EMS Research Limited, CANADA.

**Booth No. 41.** Prefire uses of geographic information system technology. Lucy A. Salazar, Forest Service, U.S. Department of Agriculture.

**Booth No. 43.** Western Fire Equipment Company, Brisbane, California, USA. Presented by Edward Grohe.

**Booth No. 44.** Canadian fire management systems. Presented by Bernard Roosen, Canadian Forest Service, U.S. Department of Agriculture, and Tom Grimes, Maniwal Transfer Center, CANADA.

**Booth No. 45.** Wildfire behavior modeling system. Presented by Robert Burgan, Forest Service, U.S. Department of Agriculture.

**Booth No. 47.** The Canadian Fire Rating System. Presented by B.J. Stocks, Canadian Forest Service, U.S. Department of Agriculture.

**Booth No. 48.** Posters as fire behavior/danger research. Presented by Martin E. Alexander, DeGroot, Kelvin G. Hirsch, Canadian Forest Service and Rick A. Lanoville, Territories Department of Natural Resources, CANADA.

**Booth No. 49.** Wildfire behavior prevention research in the United States. Presented by Linda R. Brown, Forest Service, U.S. Department of Agriculture.

**Booth No. 50.** Predicting large wildfires. Presented by Albert J. Brown, Forest Service, U.S. Department of Agriculture.

**Booth No. 51.** The Incident Command System (ICS): a management tool for emergency response. Presented by A. Gonzalez-Caban, Forest Service, U.S. Department of Agriculture.

**Booth No. 52.** KK Products, Vero Beach, Indiana, USA. Presented by S. K. Kistner.

**Booth No. 54.** Fire management in Alberta in the 1990's - the new challenge. Presented by Dennis Rob Thorburn, Alberta Forest Service, CANADA.

**Booth No. 55.** Training: a tie between fire and forest. Presented by Kenneth R. Dittus, Bonnee L. Turner, Forest Service, U.S. Department of Agriculture.

**Booth No. 56.** Cooperative fire management in Ontario, Canada. Presented by Tom Campbell and Dick Whitton, Ministry of Natural Resources, CANADA.

**Booth No. 57.** Cooperative fire management in the State of Alaska. Presented by Elmer Hurd and Robert L. Brown, Division of Forestry, State of Alaska.

**Booth No. 58.** "Simfirex," Wisconsin's fire exercise. Presented by T. Earl Meyer, Bureau of Forest Management, State of Wisconsin.



**Booth No. 59.** Wildland arson is a world-wide problem. Presented by Earl N. Meyer, Wildland Arson Committee, International Association of Arson Investigators.

**Booth No. 60.** Forest Technology Systems LTD. Victoria B.C. Presented by John Lawrence.

**Booth No. 63-64.** Hypro Corp., New Brighton, Minnesota, USA. Presented by June Nusz.

**Booth No. 65.** University of California fire safety project. Presented by Dr. Robert E. Martin, Department of Forestry, and R. Brady Williamson, Department of Civil Engineering, University of California, USA.

**Booth No. 66.** Group "S 109 Forest Fire Research," International Union of Forestry Research Organizations (IUFRO). Presented by Dr. Robert E. Martin, Department of Forestry, University of California, USA, Dr. Johann G. Goldammer, Forstzoologisches Institut, Albert Ludwigs Universität, WEST GERMANY, and Charles W. George, Forest Service, U.S. Department of Agriculture.

**Booth No. 67.** A weapon for tomorrow's fight: effect of using a law as a fire fighting instrument. Presented by L. Roberto Herrera I., Cuerpo de Bomberos Municipales, Estado Nueva Esparta, VENEZUELA.

**Booth No. 68.** Protecting people, homes, and natural resources: a team approach. Presented by Bruce Suenram and Dan W. Bailey, Missoula County Fire Protection Association, Montana, USA.

**Booth No. 69.** National Fire Protection Association's (NFPA) Wildland Fire Management Section: working together in wildland fire management. Presented by Dan W. Bailey and Don Brown, Forest Service, U.S. Department of Agriculture.

**Booth No. 70.** The National Wildfire Coordinating Group (NWCG). Presented by Cindy Wolf, Bureau of Land Management, U.S. Department of the Interior, and Jerry Monesmith, Forest Service, U.S. Department of Agriculture.

**Booth No. 71.** Fire Management Study Group of the North American Forestry Commission. Presented by James C. Sorenson and Jerry Monesmith, Forest Service, U.S. Department of Agriculture.

**Booth No. 72.** Forest patrols for prevention in Bouches-du-Rhone territory, France. Presented by Alain Chaudron, Office National Des Forêts, Francois Bland, Direction Regionale Provence-Alpes-Cote D'Azur, FRANCE.

**Booth No. 73.** Building on the past, in the present, for the future. Presented by Elsie W. Cunningham, Forest Service, U.S. Department of Agriculture.

**Booth No. 74.** Methods for effective and efficient communication with public leaders. Presented by Dr. Ronald W. Hodgson, Chico State University, California, USA.

**Booth No. 75.** U.S. Forest Service Pacific Southwest wildfire strikes homes. Presented by Gordon Rowley and George Mennel, Forest Service, U.S. Department of Agriculture.

**Booth No. 76.** Fire hazard model for structures within the wildland/urban interface. Presented by Susan LeVan, Forest Service, U.S. Department of Agriculture.

**Booth No. 78.** The relationship of local land use planning to catastrophic fire damage. Presented by Carol L. Rice, Wildland Resource Management, and James R. Davis, Forest Service, U.S. Department of Agriculture.

**Booth No. 79.** The development of a population growth model to estimate future housing density in the wildland/urban interface. Presented by James B. Davis, Forest Service, U.S. Department of Agriculture.

**Booth No. 80.** Dollar-smart fire program planning. Presented by Richard A. Chase and Kimberly Brandel, Forest Service, U.S. Department of Agriculture.

**Booth No. 81.** Forestry Suppliers Inc. Jackson, Mississippi. Presented by Jerry Pelly.

**Booth No. 82.** Fire Flex Manufacturing, Ltd., Langley, British Columbia, CANADA. Presented by Stan Carter.

**Booth No. 87.** Monsanto Co., Ontario, California, USA. Presented by Don Petersen.

**Booth No. 88.** Aerial firefighting in western Canada. Presented by Barrie Madu and Rick Roberts, Conair Aviation Limited, CANADA.

**Booth No. 89.** Operational Retardant Evaluation (ORE). Presented by Charles W. George and David A. Blakely, Jr., Forest Service, U.S. Department of Agriculture.

**Booth No. 90.** Australian Ash Wednesday Fire Experience. Presented by Charles W. George and David A. Blakely, Jr., Forest Service, U.S. Department of Agriculture.

**Booth No. 91.** Canadair, Inc. Montreal, Quebec, CANADA. Presented by Elyse Corbeil.

**Booth No. 92.** Chemonics, Fire-Trol, Albuquerque, New Mexico, USA. Presented by Lynn Biddison.

**Booth No. 93.** Fighting fire with tractor-plow units. Presented by Dick A. Cox, Forest Service, U.S. Department of Agriculture.

**Booth No. 94.** Interagency hotshot crews: a national, interagency program to provide highly skilled fire suppression specialists. Presented by William L. Russell, Jr., and Bill Krushak, Forest Service, U.S. Department of Agriculture.

**Booth No. 95.** Fifty years of smokejumping. Presented by Wayne Williams and Orin

Kendal, Forest Service, U.S. Department of Agriculture.

**Booth No. 96-97.** Fighting fires with helicopters in the western USA. Presented by Jim Stone, Forest Service, U.S. Department of Agriculture.

**Booth No. 98.** Columbia Helicopters, Inc., Portland, Oregon, USA. Presented by Ted

**Booth No. 99.** Forest Service helicopter rappelling for wildfire suppression. Presented by Mike Rotonda, Forest Service, U.S. Department of Agriculture.

**Booth No. 100.** The effectiveness of fire-fighting foams. Presented by Edward Stechishen, Petawawa National Forestry Institute, Canadian Forestry Service.

**Booth No. 101.** Hale Fire Pump Co., Conshohocken, Pennsylvania, USA. Presented by James A. Kaye.

**Booth No. 102.** Todd Agencies, British Columbia, CANADA. Presented by Mathew Todd.

**Booth No. 104.** Ansul Fire Protection, Marinette, Wisconsin, USA. Presented by Debbie Smith.

**Booth No. 107-110.** Wajax, Canada, Lachine, Quebec, CANADA. Presented by Brian Evans

**Booth No. 112-113.** Forest Fire Experiment Station. Presented by Ron Wilson and Greg Lusk, Michigan Department of Natural Resources, USA.



## PARRAINAGE

### Parrainage de la conférence



The National Fire  
Protection Association



USDA Forest Service



Forêts Canada



The U.S. Department of  
Interior



La Secretaría de  
Agricultura y Recursos  
Hidráulicos du Mexique



Office of U.S. Foreign  
Disaster Assistance, U.S.  
Agency for International  
Development

### Collaboration technique



Organisation des Nations  
Unies pour l'alimentation  
et l'agriculture



Bureau des Nations Unies  
pour secours en cas de  
catastrophe

## ALLAN J. WEST

Allan J. West est chef adjoint au State and Private Forestry pour le Forest Service du United States Department of Agriculture. Ayant débuté dans sa carrière en tant que chercheur forestier au Central Sierra Snow Laboratory de la Pacific Southwest Forest and Range Experiment Station à Soda Springs, en Californie, West a occupé les postes de garde régional adjoint, garde régional et sous-responsable de nombreuses forêts nationales situées dans cet état avant de devenir responsable en chef de la forêt nationale de Los Padres à Goleta, toujours en Californie. Nommé directeur à la gestion des données, il fut muté à Washington en 1979, pour être promu, en 1981, au poste de directeur du service aérien et du contrôle des incendies.

West est titulaire d'une licence et d'une maîtrise en sylviculture, toutes deux obtenues auprès de l'University of California, à Berkeley. Il est membre de l'American Forestry Association, de la Society of American Foresters et de la Senior Executive Association.

## BIENVENUE !



Boston, l'Etat du Massachussets et les  
Unis vous souhaitent la bienvenue !

Au cours de la conférence "Défi mondial incendies de forêt - les hommes, le terrain, les ressources", les dirigeants de la communauté internationale concernés par les problèmes nous feront part des questions des événements ayant trait à la lutte et à la protection contre les incendies de forêt travers le monde.

La conférence de cette semaine analysera la situation des ressources naturelles au niveau mondial. Nous nous pencherons également sur les facteurs biologiques, sociaux, politiques et économiques intervenant dans les prises de décision, sur certains exemples de coopération internationale qui permettent de faire face aux problèmes

des incendies de forêts et sur les éléments-clé des bons programmes internationaux.

Outre les communications de nos éminents intervenants, la conférence permettra à tout un chacun d'échanger idées et informations. Lors du déjeuner - Table ronde de mardi, nous formulerons un "Plan d'action" visant à intensifier la coopération internationale dans le domaine de la lutte contre les incendies, dont le texte sera publié et mis à votre disposition avant la fin de la conférence.

Les stands et expositions présenteront les innovations technologiques les plus récentes et vous donneront les informations nécessaires à la mise en place de programmes fondamentaux de contrôle des incendies. Je vous encourage vivement à aller voir ces expositions et à profiter des connaissances et de l'expertise de nos exposants.

Il convient par ailleurs de noter que l'Organisation des Nations Unies a proclamé 1990 "Décennie internationale de la lutte contre les catastrophes naturelles". L'objectif de la Décennie est d'endiguer le phénomène de pertes de vies humaines et de biens dues aux catastrophes naturelles, en coordonnant les efforts des gouvernements, des scientifiques et des ingénieurs du monde entier. Ceci doit se faire en appliquant les technologies actuelles en rapide évolution qui permettent d'évaluer, prévoir, prévenir et atténuer ces catastrophes pour les empêcher de devenir des tragédies humaines.

Nous sommes honorés du fait que l'Organisation des Nations Unies pour les secours en cas de catastrophe ait officiellement déclaré que cette conférence constituait une activité "pré-décennie". Il est important que les incendies de forêt soient reconnus comme une catastrophe naturelle et que celle-ci figure parmi les sujets traités au cours de la Décennie.

Au nom de tous les organismes qui ont parrainé cette conférence - The National Fire Protection Association, USDA Forest Service, Forêts Canada, la Secretaría de Agricultura y Recursos Hidráulicos du Mexique, The National Association of State Foresters, the U.S. Department of Interior et l'Office of U.S. Foreign Disaster Assistance, Agency for International Development - et en attendant d'avoir le plaisir de vous rencontrer à Boston, je vous souhaite une semaine intéressante et fructueuse.

Allan J. West  
Président













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