



# Atmospheric Change and Forests Working Group

*The Working Group on Atmospheric Change and Forests was established in 1984 when acid rain was a major global issue. The focus in the early years was on “atmospheric deposition.” In 1986, the group was also asked to consider broader climate change issues. As a result, most of the current working group members are scientists whose interests and expertise have evolved over the years to include the broader aspects of climate change.*



## Mission

The Atmospheric Change and Forests Working Group promotes the knowledge of forest ecosystems through science and monitoring of the effects of atmospheric changes on forests, and through cooperation and dissemination of new technologies and techniques.

## Objectives

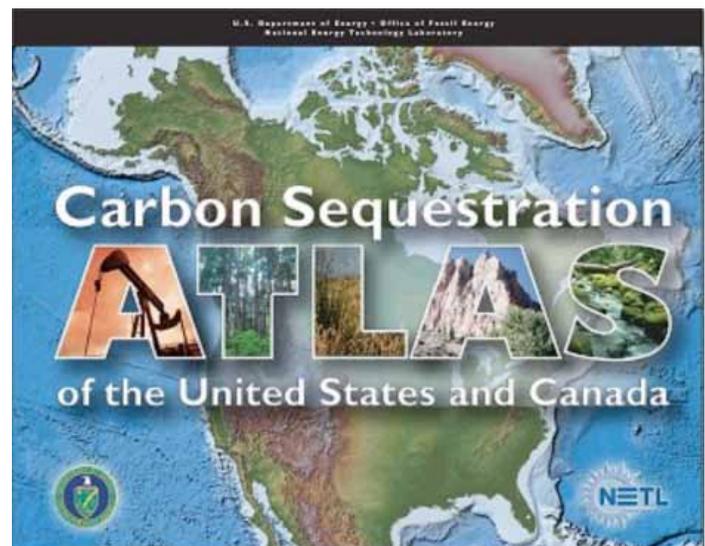
- Promote the collection, exchange and dissemination of information and techniques in the field of monitoring of forest health and the evaluation of the effects of atmospheric changes on forests.
- Prepare publications on the state of the health of forests in North America based on the monitoring of forest health conditions in the three countries.
- Foster international cooperation in the field of detection and effects of atmospheric changes on forests within North America among scientists and forest managers, and other natural resource agencies.
- Foster communication with other NAFC Working Groups and with those of other FAO Forestry Commissions.

## Current Activities/Impacts

Recently, the Atmospheric Change and Forests Working Group has focused efforts on exchanging technologies and approaches used in the three countries to study, assess and forecast the impact of atmospheric changes on forests.

Particular areas of assessing impact include species distribution and environmental niche change, process changes (such as carbon cycling) as well as the effects of forest fire.

In support of its objectives, the Atmospheric Change and Forests WG has jointly initiated a manuscript for submission to a peer reviewed journal. This manuscript aims to address the rationale for trilateral collaboration on the impacts of atmospheric changes in North American forests.

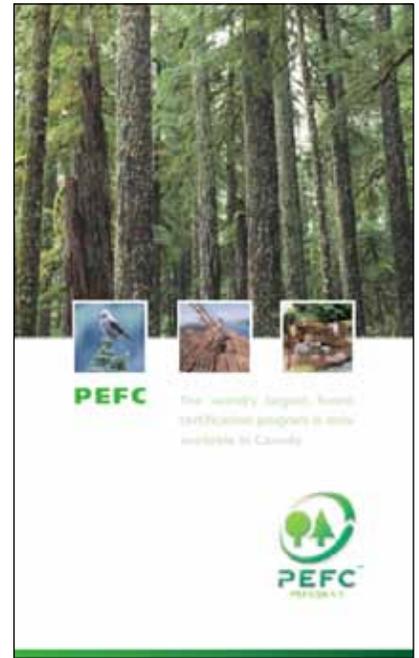


## Recent Activities and Publications

- Research studies in the *Desierto de los Leones* (Desert of Lions) regional park in the Federal District of Mexico include: Ozone & Meteorological Monitoring
- Sedimentation of Nitrates and Sulfates in *Pinus hartwegii*
- Ozone damage-tolerant native clones of *Prunus caulil*
- Canadian system for early detection of acid rain
- Passive ozone monitoring
- Historical record of the Atmospheric Changes and Forests Study Group: contact Elvia Niebla, US Forest Service
- Health of North American Forests, published in 1996 by the Canadian Forest Service, Ottawa, Ontario K1A0E4, catalogue no. Fo42-252/1996, ISBN 0-662-62141-7, Available in English, French and Spanish

NAFC-ACF website:

<http://www.fs.fed.us/global/nafc/atmos/activities.htm>



## Membership

### MEXICO

#### Rodrigo Vargas

El Centro de Investigación Científica y de Educación Superior de Ensenada CICESE

#### Leopoldo Galicia

UNAN, Universidad Nacional Autónoma de México

### CANADA

#### David Paré (Current Chair)

Laurentian Forestry Centre  
Natural Resources Canada  
Canadian Forest Service  
1055 P.E.P.S. Street,  
P.O. Box 10380,  
Sainte-Foy, QC, G1V 4C7  
Canada  
Tel: +418-648-7598  
Fax: +418-648-5849  
dpare@cfl.forestry.ca

#### Silvina Carou

Environment Canada  
4905 Dufferin Street  
Toronto, ON M3H 5T4  
Canada  
Tel: +416-739-4879  
Fax: +416-739-4882  
Silvina.Carou@ec.gc.ca

#### Dan McKenney

Natural Resources Canada  
Canadian Forest Service  
1219 Queen Street East  
Sault Ste Marie, ON P6A 2E5 Canada  
Tel: +705-541-5569  
Fax: +705-541-5700  
Dan.McKenney@NRCan-RNCan.gc.ca

#### Catherine Ste-Marie

Natural Resources Canada  
Canadian Forest Service  
580 Booth Street  
Ottawa, ON K1A 0E4  
Canada  
Tel: +613-947-9014  
Fax: +613-947-9035  
Catherine.Ste-Marie@NRCan-RNCan.gc.ca

#### ASSOCIATE MEMBER:

#### Kevin Percy

Natural Resources Canada  
Canadian Forest Service  
P.O. Box 4000  
Fredericton, NB E3B 5P7  
Tel: +506-452-3524  
Fax: +506-452-3140  
kpercy@nrca.gc.ca

### USA

#### Steve McNulty

US Forest Service  
smcnulty@fs.fed.us

#### Dr. Mark Fenn

Pacific Southwest Research Station,  
US Forest Service  
4955 Canyon Crest Drive  
Riverside, California 92507  
Tel: +909-680-1565  
Fax: +909-680-1501  
mfenn@fs.fed.us

#### Hank Loescher

The National Ecological Observatory  
Network (NEON), University of Colorado.

#### Richard Birdsey

United State Department of Agriculture  
(USDA)

#### ASSOCIATE MEMBER:

#### WeiMin Hao

US Forest Service  
whao@fs.fed.us



# Forest Insects, Disease and Invasive Plants Working Group

*The Forest Insects, Disease and Invasive Plants Working Group was established at the first NAFC session in 1961 with the purpose of promoting the protection of North American forests through the prevention and eradication of invasive forest insects and diseases, and the maintenance and improvement of tree and forest health. The working group has been active and productive since its inception.*

## Mission

The Forest Insect, Disease and Invasive Plants Working Group promotes the protection of forest resources throughout North America for the benefit of member countries and future generations. The working group aims to achieve this through: a) the prevention and eradication of forest insects and diseases; and, b) the maintenance and improvement of tree and forest health through international cooperation that supports forest health initiatives.

## Objectives

- Promote the development, improvement and transfer of technology related to the management of insects and disease affecting forest health.
- Collect, exchange and disseminate information and technology relevant to the management of insects and disease.
- Act as a technical advisory body to the North American Plant Protection Organization (NAPPO) and encourage NAPPO to deal with issues and provide technical support.
- Advise and report to the NAFC on progress and challenges in carrying out objectives and activities.



## Impacts and Accomplishments

1. Completed a comprehensive review of diseases and insects impacting forests in the region, and the production of two papers, one describing 28 diseases and the other describing 37 insects.
2. Published practical guides, including *Forest Insects of Mexico*, *Mistletoes of North America*, *Forest Diseases of Mexico*, and *Forest Health of North America*.
3. Increased the functionality (pest distribution mapping, spread–GPS locations, model reviews) of the EXFOR database, including the development of a new website: <http://dev.dtsagile.com/ExFor/>, which provides user-friendly features such as current and potential pest distribution maps.
4. Developed regulations and procedures for controlling insects and disease both in North America and other UN Forest Commission regions. In the late 1980s, for example, the group collaborated with the Atmospheric Deposition and Silviculture Working Group to develop measures for managing the gypsy moth in North America. The group also collaborates directly with the North America Plant Protection Organization.

- Exchanged technical information dealing with specific pests or diseases including such topics as: forest health monitoring for *Hylurgus ligniperda* (Fabricius) (red-haired pine bark beetle) and *Hylastes ater* (Paykull) (black pine bark beetle); biological controls for *Quadrastichus erythrinae* Kim (Epythrina gall wasp); and *Arceuthobium spp.* (dwarf mistletoe) management.
- Collaborated on the quarantine of pests of common concern — *Sirex noctilio* (Fabricius) (sirex woodwasp), *Tetropium fuscum* (Fabricius) (brown spruce longhorn beetle), *Anoplophora glabripennis* (Asian long-horned beetle), *Agrilus planipennis* (emerald ash borer), and *Phytophthora ramorum* (the cause of sudden oak death).

## Publications and links

- Canada and Mexico participated in the development of a Risk Map for US Forest Health Monitoring. Under development is a North American Risk Map for Tree Mortality for the next 15 years.
- Two Pest Risk Assessments for Sudden Oak Death by Canada and the United States have been completed and are available through the working group Chair.

For more information on activities and publications consult: <http://www.fs.fed.us/global/nafc/insects/activities.htm>

## Membership

### MEXICO

**Dr. Jaime Villa Castillo (Chair)**

CONAFOR  
Periferico Poniente #3560  
Col. San Juan de Ocotan  
Zapopan, Jalisco  
Mexico  
Tel: +52-33-3777-7094  
Fax: +52-33-3777-7099  
jvilla@conafor.gob.mx

**Gustavo Gonzalez Villalobos**

Secretaría de Medio Ambiente y Recursos Naturales — SEMARNAT (Ministry of Environment and Natural Resources)  
Direccion de Sanidad Forestal  
Av. Progreso No. 5, Colonia de Carmen, Coyoacan  
Mexico  
Tel: +52-55-5658-6258  
juan.jimenez@semarnat.gob.mx

**Dr. Armando Equihua Martinez**

Instituto de Fitosanidad  
Colegia de Postgraduados  
Km. 36.5 Carr. Mexico Texcoco  
Montecillo, Edo. de Mexico  
Mexico 56230  
equihuaa@colpos.mx

### CANADA

**Rona Sturrock**

Forest Pathology  
Pacific Forestry Center  
Natural Resources Canada  
Canadian Forest Service  
506 Burnside Road West  
Victoria, BC V8Z 1M5  
Canada  
Tel: +250-298-2376  
Rona.Sturrock@NRCan-RNCan.gc.ca

**Ken Farr**

Science Integration  
Natural Resources Canada  
Canadian Forest Service  
580 Booth Street  
Ottawa, ON K1A 0E4  
Canada  
Tel: +613-947-9007  
Fax: +613-947-9033  
Ken.Farr@NRCan-RNCan.gc.ca

**Shane Sela**

Canadian Food Inspection Agency  
Plant Health Division  
506 West Burnside Road  
Victoria, BC V8Z 1M5  
Canada  
Tel: +250-363-3432  
Fax: +250-363-0775  
selas@inspection.gc.ca

### USA

**Dr. Robert Mangold**

US Forest Service  
Forest Health Protection  
1601 N. Kent Street  
Arlington, VA 22209  
USA  
Tel: +703-605-5340  
Fax: +703-605-5333  
rmangold@fs.fed.us

**Carlos Rodriguez-Franco**

Research and Development  
Forest Management Science  
Tel: +703-605-5252  
Fax: +703-605-5133  
crodriguezfranco@fs.fed.us

**Scott Pfister**

Otis Pest Survey  
Detection and Exclusion Laboratory  
BLDG. 1398  
Otis ANGB, MA 02542  
USA  
Tel: +508-563-9303  
Fax: +508-564-4398  
scott.e.pfister@aphis.usda





# Forest Genetic Resources Working Group

*Originally established in 1961 as the Working Group on Forest Tree Improvement, it became the Working Party on Forest Tree Improvement in 1966, and was subsequently changed to the Study Group on Tree Improvement by the NAFC in 1970. In 1993, working group delegates voted to change the name to Forest Genetic Resources Working Group, which was approved by the NAFC to better reflect the group's long-term focus.*



## Mandate

Generate, share and disseminate knowledge that is crucial for the conservation and the sustainable use of North American forest genetic resources for the benefit of present and future generations

## Objectives

- To promote the collection, exchange, and dissemination of information on forest genetic resources so that *in situ* and *ex situ* programs of conservation and sustainable use are based on sound scientific knowledge.
- To promote cooperation and coordinate research, conservation, training, and knowledge exchange among member countries on genetic resource conservation challenges.
- To facilitate the international exchange of forest genetic resources.
- To encourage and promote genetic improvement programs for important commercial forest species as a component of forest conservation and as a contribution to the socio-economic well being of North Americans.

## Impacts

1. Increased awareness of the role of genetic diversity for the sustainable management and resiliency of forest ecosystems through:
  - Guidelines and recommendations for specific actions like seed source transfer
  - Publications
  - Training sessions
2. Increased awareness on climate change threats to forest genetic resources through:
  - Guidelines for assisted migration
  - Model scenarios
  - Conferences
  - Training sessions
3. Transfer of information and knowledge on North American forest genetic resources to international organizations:
  - Contribute to FAO's integration of the State of the World's Forest Genetic Resources
  - Contribute to other regional networks on conservation of forest genetic resources For example: Conservation of Forest Genetic Resources in Canada (ConFORGen) and Latin America Forest Genetic Resources Network (LAFORGEN) etc.

## Publications and links

For more information on activities and publications consult:

<http://www.fs.fed.us/global/nafc/genetics/activities.htm#3>

## Membership

### **Dr. J. Jesús Vargas Hernández**

Programa Forestal, IRENAT  
Colegio de Postgraduados  
km 35.5 Carretera México-Texcoco  
P.O. Box 56230  
Montecillo, Mexico  
Tel: +52-5954-2256  
Fax: +52-5954-5723  
vargashj@colpos.mx

### **Dr. Javier López Upton**

Programa Forestal, IRENAT  
Colegio de Postgraduados  
Km 35.5 Carretera México-Texcoco  
P.O. Box 56230  
Montecillo, Mexico  
Tel: +52-59-5954-2256  
Fax: +52-59-5952-0256  
uptonj@colpos.mx

### **Dr. Cuauhtémoc Sáenz Romero**

Instituto de Investigaciones  
Agropecuarias y Forestales  
Universidad Michoacana de San Nicolas  
de Hidalgo (IIAF-UMSNH)  
Km 9.5 Carr.  
Morealia-Zinapécuaro  
Tarimbaro  
Michoacan, Mexico 58880  
Tel: +44-3295-8323  
Fax: +44-3295-8324  
csaenz@umich.mx

### **Dr. Jean Beaulieu (Current Chair)**

Natural Resources Canada  
Canadian Forest Service  
1055 P.E.P.S. Street  
P.O. Box 10380  
Sainte-Foy, QC, G1V 4C7  
CANADA  
Tel: +418-648-5823  
Fax: +418-648-5849  
Jean.Beaulieu@NRCCan.gc.ca

### **Dr. Tannis Beardmore**

Atlantic Forestry Centre  
Natural Resources Canada  
Canadian Forest Service  
Fredericton, NB E3B 5P7  
Canada  
Tel: +506-452-3881  
Fax: +506-452-3525  
Tannis.Beardmore@NRCCan.gc.ca

### **Dr. Sally Aitken**

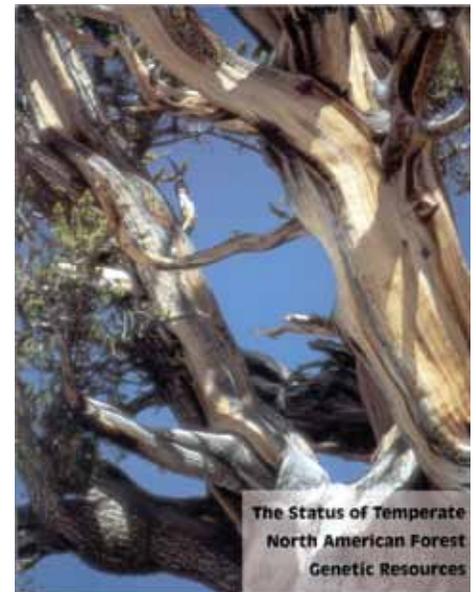
Department of Forestry Sciences  
Faculty of Forestry  
The University of British Columbia  
Forest Sciences Centre  
#3401-2424 Main Mall  
Vancouver, BC V6T 1Z4  
Canada  
Sally.Aitken@ubc.ca

### **Dr. J. Brad St.Clair**

Pacific Northwest Research Station  
Forest Service-USDA  
3200 SW Jefferson Way  
Corvallis, OR 97331  
USA  
Tel: +541-750-7294  
Fax: +541-750-7329  
bstclair@fs.fed.us;

### **Dr. Kurt H. Johnsen**

Southern Research Station  
Forest Service-USDA  
3041 Cornwallis Road  
P.O. Box 12254  
Research Triangle Park, NC 27709  
USA  
Tel: +919-549-4012  
Fax: +919-549-4047  
kjohnsen@fs.fed.us





# Forest Inventory, Monitoring and Assessment Working Group

*The North American Forest Commission member countries undertook a revision of their inventory processes in the late 1990s and early 2000s. At the same time, the FAO of the United Nations was encouraging countries to collaborate at the regional or sub-regional level to ensure consistency in their contributions to global forest resource assessments.*

In 1998, a North American workshop on forest assessments took place in Salt Lake City, U.S. One of the recommendations resulting from the workshop was for the NAFC “to establish a study group on forest inventory and monitoring to provide a formal mechanism for collaboration at the regional level.”

At the 19th session of the NAFC in 1998, the Commissioners endorsed the proposal for a Forest Inventory, Monitoring and Assessment (FIMA) Working Group. Its goal was to “collaborate and share information on approaches, interests and methods; to learn from each others’ experiences; and to adopt common approaches where possible to create consistency in assessments that span national boundaries.” The Commission also pointed to the potential for the FIMA working group to support the work of other working groups in monitoring issues around forest fires, insect and disease outbreaks, migratory species habitat etc.

The FIMA Working Group first met in 2000, with a focus on gaining a common understanding of the forest inventory processes in each country.

## Mission

To share research and information and take advantage of opportunities for collaboration and scientific exchange on forest inventory, monitoring and assessment throughout North America in support of sustainable forest management.

## Objectives

1. Identify and take advantage of opportunities for increasing scientific and technical collaboration and consistency in national inventory, monitoring and assessment among the three countries and globally.
2. Foster compatible approaches to forest inventory, monitoring and assessment among the three countries.
3. Evaluate use of remote sensing and other technologies to increase the efficiency and effectiveness of forest inventory, monitoring, and assessment.
4. Sponsor and facilitate exchanges to build capacity and increase our understanding of different approaches to forest inventory, monitoring and assessment.
5. Advise member countries about the current status of respective forest inventory, monitoring and assessment programs.
6. Foster communication with other NAFC working groups.

## Current activities include

- Increasing scientific and technical collaboration
- Harmonizing approaches to forest inventory, monitoring and assessment
- Evaluating remote sensing and other technologies to improve inventory, monitoring and assessment
- Capacity building and communication

## Impacts

Active sharing of methodologies and agreement on standardized definitions and terminology, consistent with the FAO's Global Forest Resource Assessments. In 2004, the working group made its first regional report on forest resources. By 2007, the group had marked significant progress toward a spatially defined North American forest inventory, using the FAO ecological reporting framework and common North America-wide protocols to facilitate data exchange, evaluation and assessment.

The working group also focused its efforts to ensure that the three countries used consistent approaches when reporting their 2005 and 2010 forest resource assessments to the FAO.

North American Forests, 2011



## Publications and links

- Report of the Inventory, Monitoring and Assessment Working Group (2002 Working Group Report to the Bureau of Alternates)
- North America Regional Assessment of Forest Resources (2004 Working Group Report to the Bureau of Alternates)
- Working Group on Forest Inventory, Monitoring, and Assessment Report (submitted by Mark D. Gillis, March 29, 2000)
- Current and future use of remote sensing tools for operational forest inventory (in PDF format)

For more information on activities and publications consult:

<http://www.fs.fed.us/global/nafc/inventory/activities.htm>

## Membership

Membership in the study group consists of up to four representatives from each country, appointed by the respective NAFC organizational bodies. Meetings may also include additional invitees as deemed appropriate by the permanent members.

### MEXICO

#### *Rodolfo Orozco Galvez*

Periférico Poniente No. 5360 Tercer Piso  
Col. San Juan de Ocotán  
Zapopan, Jalisco 45019  
Mexico  
Tel: +52-33-3777-7000 Ext 4000  
rorozcog@conafor.gob.mx

#### *Francisco Takaki Takaki*

Av. Héroe de Nacozari Sur #2301 Edificio  
Sede INEGI  
Fracc. Jardines del Parque.  
20270 Aguascalientes, Aguascalientes  
Mexico  
Francisco.takaki@inegi.org.mx

#### *Rigoberto Palafox Rivas*

Periférico Poniente No. 5360 Tercer Piso  
Col. San Juan de Ocotán  
Zapopan, Jalisco 45019  
Mexico  
Tel: +52-33-3777-7000 Ext 4200  
rpalafox@conafor.gob.mx

### CANADA

#### *Simon Bridge*

Natural Resources Canada  
Canadian Forest Service  
580 Booth Street  
Ottawa, ON K1A 0E4  
Canada  
Tel: +613-947-9034  
sbridge@nrcc.gc.ca

#### *Joe Kapron*

Ontario Ministry of Natural Resources  
Tel: +705-755-1616  
Fax: +705-755-1640  
joe.kapron@mnr.gov.on.ca

#### *Graham Stinson*

Natural Resources Canada  
Canadian Forest Service  
506 Burnside Road West, Room. 221  
Victoria, BC Canada V8Z 1M5  
Tel: +250-298-2314  
Graham.Stinson@NRCan-RNCan.gc.ca

### USA

#### *Greg Reams*

US Forest Service  
201 14 th St. SW  
Washington DC 20090-6090  
Tel: +202-205-1507  
Fax: +202-205-1551  
greams@fs.fed.us

#### *W. Brad Smith (Chair)*

US Forest Service  
201 14 th St. SW  
Washington DC 20090-6090  
Tel: +202-205-1507  
Fax: +202-205-1551  
bsmith12@fs.fed.us

#### *Dennis M. May*

Northern Research Station  
1992 Folwell Avenue  
St. Paul, MN 55108  
Tel: +651-649-5132  
Fax: +651-649-5140  
dmay@fs.fed.us



## Fire Management Working Group

*The Fire Management Working Group was established in 1961 at the first NAFC session. Annual meetings have rotated among the member countries since inception. A consistent and active membership has resulted in an impressive list of accomplishments. The original Working Group charter was ratified by the membership at the annual meeting in September in 1992, later reaffirmed in October 2005 and most recently revised in October 2011.*



### Objectives

1. Exchange experiences and technological advances regarding prevention, wildland fire management and fire use.
2. Provide mutual aid and technical exchanges between Canada, Mexico and the United States in the development of strategy and appropriate actions to resolve technical problems of the North American region.
3. Actively support and participate in international fire management programs with fire management agencies throughout the world by developing and promoting activities that support international cooperation and development.



### Current activities

1. Exchanging Science & Technology
  - *Interagency training: science, technology and fire operations*
  - *Developing Mexico's fire management system*
  - *North American wildland fire emissions modeling*
2. Providing Mutual Aid
  - *Suppressing fires in the wildland urban interface*
  - *Interagency resource sharing: Canada (British Columbia Forest Service – BCFS) and Mexico*
  - *Implementing the incident command system*
3. Supporting International Fire Management
  - *International development in fire management: SE Asia fire danger rating system*
  - *Development of a global early warning system for wildland fire*
  - *Fire research: International crown fire modeling experiment (Northwest Territories, Canada)*
  - *International resource sharing: Canada (BCFS) and Australia*

## Publications and Links

NAFC-FMWG website: <http://www.fs.fed.us/global/nafc/fire/aboutus.htm>

Link to the Global Wildland Fire Network: <http://www.fire.uni-freiburg.de/GlobalNetworks/NorthAmerica/NorthAmerica.htm>

## Membership

The Fire Management Working Group consists of members of fire management organizations of Canada, Mexico, and the United States of America. Each country's delegation consists of a delegation head, members, and observers.

### MEXICO

#### **Victor E. Sosa Cedillo**

National Forest Commission (CONAFOR)  
Periferico Pte. 5360  
Zapopan, Jalisco Col.  
San Juan de Ocotan  
CP 45019  
Tel: +52-33-3777-7000 ext. 2500  
[vsosa@conafor.gob.mx](mailto:vsosa@conafor.gob.mx)

#### **Alfredo Nolasco Morales**

National Forest Commission (CONAFOR)  
Periferico Pte. 5360  
Zapopan, Jalisco Col.  
San Juan de Ocotan  
CP 45019  
Tel: +52-33-3777-7000 ext. 2700  
[anolasco@conafor.gob.mx](mailto:anolasco@conafor.gob.mx)

#### **Francisco Javier Medina Gonzalez**

National Protected Areas  
Commission (CONANP)  
Secretariat of Environment and  
Natural Resources (SEMARNAT)  
Mexico

#### **Jose German Flores**

INIFAP  
Parque de los colomos s/n Col.  
Providencia C.P.  
44660 Guadalajara  
Jalisco  
Tel: +52-33-3641-3598  
[flores.german@inifap.gob.mx](mailto:flores.german@inifap.gob.mx)

#### **Juan Manuel Frausto**

Mexican Nature Conservation Fund  
Damas No. 49  
Col. San Jose Insurgentes  
Tel: +52-55-5611-9779  
[jmfl@fmcn.org.mx](mailto:jmfl@fmcn.org.mx)

#### **Dante Arturo Rodriguez Trejo**

Universidad Autonoma Chapingo  
Km. 38.5 carretera  
Texcoco, Mexico  
Tel: +52-33-3777-7000 ext. 2000  
[dantearturo@yahoo.com](mailto:dantearturo@yahoo.com)

### CANADA

#### **Bill de Groot**

Natural Resources Canada  
Canadian Forest Service  
1219 Queen St. East  
Sault Ste. Marie, ON P6A 2E5  
Canada  
Tel: +705-541-5538 or +780-435-7289  
Fax: +705-541-5701 or +780-435-7359  
[Bill.degroot@nrcc.gc.ca](mailto:Bill.degroot@nrcc.gc.ca)

#### **Kim Connors**

Canadian Interagency Forest Fire Centre  
210 - 301 Weston Street  
Winnipeg, MB R3E 3H4  
Tel: +204-784-2038 or 784-2030  
Cell: +204-782-8299  
Fax: +204-956-2398  
[kim.connors@ciffc.ca](mailto:kim.connors@ciffc.ca)  
[www.ciffc.ca](http://www.ciffc.ca)

#### **Ralph Wheeler**

Ministry of Natural Resources  
70 Foster Drive, Suite 400  
Sault Ste. Marie, ON P6A 6V  
Tel: +705-945-5937  
Fax: +705-945-5959  
[ralph.wheeler@mnr.gov.on.ca](mailto:ralph.wheeler@mnr.gov.on.ca)

### USA

#### **Tom Harbour**

US Forest Service  
201 14th Street, SW  
Washington, DC 20024  
Tel: +202-205-1483  
Fax: +202-205-1272  
[tharbour@fs.fed.us](mailto:tharbour@fs.fed.us)

#### **Kirk Rowdabaugh**

Department of the Interior  
1849 C Street, NW  
Washington, DC 2-240  
Tel: +202-606-3447  
Cell: +202-302-2872  
Fax: +202-606-3150  
[Kirk.Rowdabaugh@ios.doi.gov](mailto:Kirk.Rowdabaugh@ios.doi.gov)

#### **Dr. Carlos Rodriguez-Franco**

US Forest Service  
1601 N Kent Street  
Arlington, DC 20005-3402  
Tel: +703-605-5252  
Tel: +703-605-5113  
[crodriguezfranco@fs.fed.us](mailto:crodriguezfranco@fs.fed.us)



## Silviculture Working Group

*The Silviculture Working Group (SWG) was established in 1976 to focus on silvicultural practices in the region with special attention to “subjects of particular relevance to the tropics.” At the time, deforestation in tropical forests was becoming a global issue and receiving widespread attention. The working group was endorsed by the FAO Committee on Forest Development in the Tropics, which was active from the late 1960s until the early 1990s.*

The SWG’s focus on tropical forests was re-affirmed by the Commission on several occasions in the 1980s and 1990s. However, noting that limiting its focus to the tropics was not consistent with the NAFC’s wider regional mandate, the Commission directed the group in 2002 to broaden its work to include temperate and boreal forests. In 2006, the NAFC approved the broader mandate.



### Mandate

The mission of the SWG is to develop and disseminate knowledge and technology on silvicultural systems and practices in North American forests to improve the quality of human life. The most critical function of the working group is maintaining cooperation among Mexico, Canada and the United States in promoting silvicultural practices to ensure that diverse, healthy forests continue to supply needed goods and services. The group also collaborates with other NAFC working groups to adjust silvicultural guidelines to address forest health, adding value, invasive species, fire resistance, maintaining genetic diversity, forest rehabilitation and climate change.

### Impacts and Accomplishments

Increased awareness of the role of silvicultural strategies, systems and practices for North American forests to improve the quality of human life through:

1. Hosting workshops on cross-cutting issues such as forest sector competitiveness and adding value to North American forests
2. Building partnerships and collaborating with organizations such as the Society of American Foresters
3. Disseminating knowledge and technologies for silvicultural strategies through publications and participation in regional workshops, such as the North American Forest Ecology Workshop

Over the past several years, the SWG has also held annual meetings.

### Publications and Links

October 2010: Silviculture Working Group hosted a workshop on “Adding Value to North American Forests,” co-sponsored with the Society of American Foresters and held in conjunction with their annual convention in Albuquerque New Mexico. Presentations are available on the NAFC website.

February 2011: Silviculture Working group Chair, Mary Ann Fajvan attended the annual meeting of the Fire Management Working Group in Chetumal, Mexico and in an effort to work collaboratively and seek input to adjust silvicultural guidelines, a presentation was given entitled “Using Silviculture to Make Forests More Resistant to Fire.”

June 2011: Presentation at the North American Forest Ecology Workshop, June 20-23, Roanoke, VA, USA: Fajvan, M.A., Anawati, J.N. and V.E. Sosa Cedillo. 2011. *Managing forests across ecosystems instead of political boundaries: A report from the North American Forest Commission Silviculture Working Group.*

November 2011: Annual meeting and field tour of the Silviculture Working Group. San Felipe Bacalar, Mexico. Themes: Mahogany silviculture, landownership and socio-economic effects on timber value.

April 2012: Manuscript submitted to Journal of Forestry: *Managing Forests Across Ecosystems Instead of Political Boundaries. A Synthesis of the 2010 Workshop: Adding Value to North American Forests.* Authors: Mary Ann Fajvan, Doug Kneeland, Victor E. Sosa Cedillo, M.K. Marty Luckert, Jean Beaulieu, Stephen Shifley, Joseph Anawati.

For a copy of Useful Trees of the Tropical Region of North America, please contact:  
International Institute of Tropical Forestry US Forest Service - IITF  
ATTN: Gisel Reyes, Librarian  
P.O. Box 2500  
San Juan, Puerto Rico  
00928-5000

For more information on activities and publications consult:  
<http://www.fs.fed.us/global/nafc/silvi/aboutus.htm>

## Future Directions

Activities over the next four years will focus on publicizing the work of the NAFC SWG to increase the accessibility of knowledge, to facilitate input into the policy process, and to highlight silviculture's potential to increase the value of forest commodities now and in the future.

## Membership

### MEXICO

**Ing. Germánico Galicia García**  
Periférico Poniente No. 5360  
Col. San Juan de Ocotán, Zapopan, Jalisco  
C.P. 45019  
Tel: +52-33-3777-7000 ext. 2300  
[ggalicia@conafor.gob.mx](mailto:ggalicia@conafor.gob.mx)

**Dr. Martin Mendoza B.**  
Colegio de Postgraduados  
A.P. 421  
91700 Veracruz, Ver., Mexico  
[mmendoza@colpos.mx](mailto:mmendoza@colpos.mx)

**Ing. José Jesús Rangel Piñón**  
Periférico Poniente 5360  
Colonia San Juan de Ocotán  
C.P. 45019  
Zapopan, Jalisco  
Tel +52-33-3777-7000 ext 2312  
[jrangel@conafor.gob.mx](mailto:jrangel@conafor.gob.mx)

**Dra. Patricia Negreros Castillo**  
Instituto de investigaciones Forestales (INIFOR)  
Universidad Veracruzana  
Dirección: Parque El Haya S/N  
Col. Benito Juárez  
Xalapa, Veracruz  
Tel: +52-22-8818-8907 or  
22-8842-1700 Ex. 13967  
[patrinegreros@gmail.com](mailto:patrinegreros@gmail.com)

**Dr. Alejandro Velázquez Martínez**  
Silvicultura y Ecosistemas Forestales  
Colegio de Postgraduados  
Campus Montecillo  
Km. 36.5 Carretera Mexico-Texcoco  
Montecillo Edo. de México  
C.P. 56230 MEXICO  
Tel: +52-59-5952-0200 Ext. 1470  
[alejvela@colpos.mx](mailto:alejvela@colpos.mx)

### CANADA

**Joseph Anawati**  
Natural Resources Canada  
Canadian Forest Service  
580 Booth Street, 8th Floor, Room. A6-1  
Ottawa, ON Canada K1A 0E4  
Tel: +613-947-8996  
Fax: +613-992-5390  
[Joseph.Anawati@NRCan-RNCan.gc.ca](mailto:Joseph.Anawati@NRCan-RNCan.gc.ca)

**Roger Whitehead**  
Natural Resources Canada  
Canadian Forest Service  
506 Burnside Road West, Room. 393  
Victoria, BC Canada V8Z 1M5  
Tel: +250-298-2541  
[Roger.Whitehead@NRCan-RNCan.gc.ca](mailto:Roger.Whitehead@NRCan-RNCan.gc.ca)

### USA

**Dr. Mary Ann Fajvan (Working Group Chair)**  
Northern Research Station  
USDA Forest Service  
180 Canfield St.  
Morgantown, WV 26505-3180 USA  
Tel: +304-285-1575  
Fax: +304-285-1505  
[mfajvan@fs.fed.us](mailto:mfajvan@fs.fed.us)

**Dr. Margaret Devall**  
USDA Forest Service, Center for  
Bottomland Hardwood Research  
PO Box 227  
Stoneville, MS 38776  
[mdevall@fs.fed.us](mailto:mdevall@fs.fed.us)

**Dr. Aaron Weiskittel**  
University of Maine  
School of Forest Resources  
229 Nutting Hall Orono, ME 04469-5793  
Tel: +207-581-2857  
Fax: +207-581-2875  
[aaron.weiskittel@maine.edu](mailto:aaron.weiskittel@maine.edu)

### OBSERVER:

**Marilyn Buford**  
USDA Forest Service  
1400 Independence Avenue, SW  
Washington DC. 20250-1115  
Tel: +703-605-5176  
Fax: +703-605-5133  
[mbuford@fs.fed.us](mailto:mbuford@fs.fed.us)