



Open Burning and the Arctic: Causes, Impacts, and Mitigation Approaches
Radisson SAS Royal Hotel, Nevsky Pr. 49/2, St Petersburg, Russia
8 - 9 November 2010

Agenda

November 8

Session I: Opening Plenary Session

9:00 Welcome and Opening Keynotes

**Nikolay Rybakov, Executive Director,
Environmental Rights Center Bellona, Russia**

**Dr. Andrey Nedre, General Director,
Scientific Research Institute for Atmospheric Air Pollution, Russia**

Dr. Mikhail Amosov, St. Petersburg State University, Russia

Hon. Sheila Gwaltney, U.S. Consul General, St. Petersburg

**9:30 Set Fires & Their Impacts:
Health, Environment, Property**

Dr. Johann G. Goldammer
Global Fire Monitoring Center, Germany

**10:00 Black Carbon from
Biomass Burning in the Arctic**

Dr. Sarah Doherty
University of Washington, USA

**10:30 Rapid Warming in the Arctic:
Role of BC and Other Forcers**

Dr. Vladimir Shevchenko
*Shirshov Institute of Oceanology of
the Russian Academy of Sciences*

11:00 – 11:20 *Coffee Break*

Session II: Focus on Set Fires: Causes, Mitigation and International Cooperation

11:20 Agricultural Fires

Dr. Galina I. Lysanova
Institute of Geography, Siberian Branch, RAS

11:35 Forestry Fires

Dr. Nikolay Kovalev & Andrey Eritsov
National Aerial Forest Fire Center, Russia

**11:50 Results from the AMAP
Black Carbon Expert Group**

Dr. Patricia Quinn
NOAA, USA

**12:05 Convention on Long-Range Transboundary
Air Pollution & Gothenburg Protocol:
Implications for Open Burning**

Sunny Uppal
UN Economic Commission for Europe

- 12:20** **Case Studies on Mitigation and
Reduction of Agricultural Fires** **Karen Wood, MPA**
State of Washington, Dept. of Ecology, USA
- 12:50** **Charge to Breakout Groups**
- 13:00 – 14:30** *Lunch*

Session III: Breakout Groups

(Tracks will run for remainder of Day One Afternoon & Day Two Morning)

Track 1: Arctic Source Attribution

Session Chairs: **Dr. Jack Dibb** *University of New Hampshire, USA*
 Dr. Pasha Groisman *NOAA and NEESPI, USA*

This track focuses on what is presently understood and uncertainties regarding:

- *impact of fires on the Arctic*
- *types of fires that most impact the Arctic, in terms of location and season, types of fires and fuels*
- *related impacts (such as spreading to forests and peat bogs)*

Outputs should focus on policy-relevant current understanding and knowledge gaps impeding movement on mitigation:

1. What is reasonably well understood today;
2. What issues might be resolved with 1-2 years of focused research
3. Most vital additional research needs
4. Where uncertainty is likely to remain

Speakers will include (both sessions):

J. Fisher, Harvard Univ., USA	W.M. Hao, US Forest Service, USA
D. Lavoué, DL Modeling & Research, Canada	J. McCarty, Univ. Louisville, USA
G. Molinario, Univ. Maryland, USA	A. Soja, NASA/NIA, USA
K.P. Vadrevu, Univ. Maryland, USA	O. Yusim, SRI Atmosphere, Russia
K.P. Kutsenogii, Institute of Chemical Kinetics and Combustion, SB RAS, Russia	

Track 2: Mitigation Approaches and Action Plans

Session Chairs: **Dr. Johann Goldammer** *Global Fire Monitoring Ctr., Germany*
 Ellen Baum *Clean Air Task Force, USA*

This track focuses on why fires are set, and what can be done to reduce their frequency and impacts on human health, safety and climate.

This track will split into Tracks 2A and 2B in the morning of Day 2, see below:

Track 2A: Set fires on crop and grasslands

Track 2B: Human-caused fires in forests

Speakers during joint session will include:

V. Romanenkov, Inst. of Agrochemistry, RAS, Russia
J. McCarty, Univ. Louisville, USA
A.I. Sukhinin, Forest Fire Research Laboratory, V.N. Sukachev Inst. of Forestry, SB RAS, Russia
S. Zibitsev, Natl. Univ. of Life and Environmental Sciences of Ukraine

Scheduled coffee break during the breakouts

19:00 Conference Dinner

November 9

Session IV – Breakout Groups Continue

9:00am

10:45-11:00 Coffee break

Track 1 – Arctic Source Attribution

Session Chairs: **Dr. Amber Soja** *NASA, USA*
 Dr. Anna Romanovskaya *Inst. of Global Climate & Ecology, Russian Acad. of Science*

Presentations and discussion will continue from first day.

Track 2A: Crops and Grasslands

Session Chairs: **Dr. Vladimir Romanenkov** *All-Russian Institute for Agrochemistry*
 Karen Wood, MPA *State of Washington, Department of Ecology, USA*

Speakers will include:

D. Ruchnovich, V.V. Dokuchaev Inst. of Soil, RAS, Russia
W.F. Schillinger, Washington State Univ., USA
K.K Wood, State of Washington, Dept. of Ecology, USA

Track 2B: Forests

Session Chairs: **Dr. Brian Stocks** *Canadian Forest Service (Retired)*
 Dr. Sergiy Zibtsev *Natl. U. of Life and Environmental Sciences of Ukraine*

Speakers will include:

D.V. Ershov, Center for Forest Ecology and Productivity, RAS, Russia
N.K. Larkin, US Forest Service, USA.

Outputs of Tracks 2A and 2B will include:

- Survey of practices and reasons for open burning:
 US & Canada / Russia & Ukraine / Europe
- Survey of regulations and enforcement
- Alternatives to burning; impacts of alternatives; emissions reduction strategies
- Future mitigation approaches / best practices

13:00-14:00 ***Lunch***

Session V – Plenary Session – Conclusions and Recommendations

Chairs: **Pam Pearson** *International Cryosphere Climate Initiative, Sweden*
 Elena Kobets *Bellona Russia*

14:00 **Main Themes:** Reports from break-out session chairs (20 minute presentations)

15:00 **Comments and Discussion**

15:30 **Coffee**

**15:45 Discussion Continues: Raising Awareness of the Impacts of Burning
and Steps to Decrease Burning**

Panelists

Dr. Vladimir Romanenkov

All-Russian Institute for Agrochemistry

Dr. Brian Stocks

Canadian Forest Service (Retired)

- Discussion of approaches, priorities, goals for different regions and governments
- Research needs and funding
- Pilot projects
- Regulations, incentives
- Fire, smoke, health and property impacts management and response

17:00 Closing