



Call for Abstracts and Travel Support Workshop: Opportunities to Apply Remote Sensing in Boreal/Arctic Wildfire Management and Science

April 4-6, 2017
University of Alaska Fairbanks



Abstracts and Travel Support Submissions due: November 15, 2016
Notification of abstract and travel support: December 1, 2016

Visit akfireconsortium.uaf.edu

Background and objectives: With support from NASA Applied Sciences Program, the Alaska Fire Science Consortium (AFSC) is organizing an international workshop to advance remote sensing tools and data for operational and scientific applications by high northern latitude fire ecology and management communities. Participants will include interagency fire managers as well as scientists with an interest in remote sensing and a variety of disciplines.

Topics of interest include:

- **Potential fire risk:** Can remotely sensed data (e.g., daily snow extent, others) estimate spring soil moisture and surface and subsurface fuel moisture and fuel conditions, and thus provide critical inputs for fuel moisture indices used to predict fire danger and risk?
- **Near real-time fire behavior:** Which remotely sensed data are best and most timely for fire detection, plume tracking of fire emissions, fire behavior modeling, mapping of flaming fronts, fire intensity, active fire perimeters, and response for ongoing fires?
- **Post-fire effects:** Can we improve analytical methods for remotely sensed data to assess fire severity, consumption/CO₂ balance, active-layer changes, and successional trajectories of high latitude vegetation communities?

The **outcomes** of this workshop will advance co-developed investigations into new management and scientific uses of remote sensing data,

- increasing the scientific foundation and operational efficiency of northern fire management;
- improving understanding of climate-induced changes in northern fire regimes and ecosystem components and potential feedbacks to the global climate system; and
- leading to expanded application and use of remotely sensed data for fire management and fire science in high latitudes.

AFSC will publish workshop proceedings, including presentation abstracts, results, and consensus recommendations. This project is a contribution to the Interagency Arctic Research Policy Committee's Wildfire Collaboration Team.

Guide for authors: Abstracts of up to 500 words for both oral and poster presentations are welcome. The deadline to submit abstracts is November 15, 2016. To submit abstracts, visit akfireconsortium.uaf.edu.

Applications for travel support: Limited funding is available to offset selected presenters' travel expenses, with priority given to students and other young investigators. Applications for travel support are available at akfireconsortium.uaf.edu and are due November 15, 2016.

Associated training opportunity: With sufficient interest, NASA's Applied Remote Sensing Training (ARSET) project and/or Short-term Prediction Research and Transition Center (SPoRT) will offer an optional day of hands-on training for integrating NASA Earth Science data into wildland fire science, decisionmaking, and management. Please indicate your interest in this opportunity on the submission form.

Organizing committee:

Vince Ambrosia, NASA-Ames
Laura Bourgeau-Chavez, Michigan Tech Research Institute
Amy Breen, University of Alaska Fairbanks
Jessica Cherry, University of Alaska Fairbanks
Evan Ellicott, University of Maryland
Mike Flannigan, University of Alberta
Tom Heinrichs, University of Alaska Fairbanks
Everett Hinkley, US Forest Service
George Huffman, NASA-Goddard
Randi Jandt, Alaska Fire Science Consortium
Jennifer Jenkins, Alaska Fire Service
Tatiana Loboda, University of Maryland

Rachel Loehman, USGS Alaska Science Center
Tim Lynham, Canadian Forest Service
Christine Waigl, University of Alaska Fairbanks
Robert Ziel, Alaska Fire Science Consortium



Contact AFSC coordinator Alison York with any questions (907-474-6964 or ayork@alaska.edu).

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