



*Genetics of five-needle pines and rusts in mountain landscapes –  
Conservation, utilization and evolution in a changing climate*

*International IUFRO Conference \* June 15-21, 2014 \* Fort Collins, CO, USA*

The 2014 meeting of the **IUFRO 2.02.15 Breeding and Genetic Resources of Five-Needle Pines** working group will continue in the tradition of the past meetings in the Russian Federation (2011), South Korea (2008), Romania (2006), and United States of America (2001) and the 1992 conference on subalpine stone pines (Switzerland) by facilitating international exchange of the latest findings on genetic variation, conservation and tree improvement efforts with this important group of conifers worldwide (<http://www.iufro.org/science/divisions/division-2/20000/20200/20215/>). Many of these species are vulnerable to a range of abiotic and biotic factors including climate change and blister rust. *Pinus squamata* in China has only 32 trees remaining in natural forests and several other species are rated as endangered or vulnerable by the IUCN Red List. *Pinus albicaulis* has been proposed for listing under the Endangered Species Act (ESA) in the United States and, along with *Pinus flexilis*, is also of concern in Canada. It is however also an exciting time for work with the white pine species around the world. Genomic tools are now becoming available for use in conifers such as *Pinus lambertiana*, *Pinus albicaulis* and *Pinus cembra*, blister rust genetic variation studies are exploring the species evolutionary histories and guiding gene conservation efforts, resistance programs are making substantial progress, conservation plans are being developed and implemented, and seed orchard development and tree improvement efforts continue in the commercial species.

We will be soliciting titles for potential talks and posters for the 2014 meeting in all areas of five-needle pine genetics, including evolutionary biology, landscape genomics, assisted migration, genecology, phylogeography, gene conservation, progeny testing, and disease and insect resistance, etc.

Eight species of white pines exist in the western U.S. and substantial new efforts have been undertaken on many of them in the last 10 years. The meeting venue is the front range of the Rocky Mountains, offering field trip opportunities to see and learn about current research and conservation of *Pinus flexilis* and *Pinus aristata*; a post-meeting trip is also being considered to the Greater Yellowstone area to highlight restoration efforts for *Pinus albicaulis* and *Pinus flexilis*.

This meeting will serve as an international forum for those involved in genetics and conservation of 5-needle pines (white pines) – and joint sessions with the **IUFRO 7.02.05 Rust of Forest Trees** group (<http://www.iufro.org/science/divisions/division-7/70000/70200/70205/>) and **Strobosphere** (<http://dendrome.ucdavis.edu/strobosphere/>) should add further diversity and collaborative opportunities.



Please contact Richard Sniezko ([rsniezko@fs.fed.us](mailto:rsniezko@fs.fed.us)) and Anna Schoettle ([aschoettle@fs.fed.us](mailto:aschoettle@fs.fed.us)) to be added to the mailing list.

*Please pass this announcement along to your colleagues and encourage them to contact us.*



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Name \_\_\_\_\_ Email address \_\_\_\_\_

**Are you likely to attend the meeting?**

Yes \_\_\_\_\_

No \_\_\_\_\_

Maybe \_\_\_\_\_

**Will you want to present?**

Yes \_\_\_\_\_

No \_\_\_\_\_

Maybe \_\_\_\_\_

**Would you consider a:**

Oral presentation \_\_\_\_\_

Poster presentation \_\_\_\_\_

Either type of presentation \_\_\_\_\_

**Are you interesting in a post-meeting multiple day field trip to the Greater Yellowstone Area?**

Yes \_\_\_\_\_

No \_\_\_\_\_

Maybe \_\_\_\_\_

**Would you have additional family members joining you?**

Yes \_\_\_\_\_

No \_\_\_\_\_

Maybe \_\_\_\_\_

Please send responses to Richard Sniezko ([rsniezko@fs.fed.us](mailto:rsniezko@fs.fed.us)) and Anna Schoettle ([aschoettle@fs.fed.us](mailto:aschoettle@fs.fed.us)) to be added to the mailing list.

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