

AGENDA

Smoke Tools

March 29, 2017, Minnesota Interagency Fire Center, Grand Rapids MN



8:15am Check-in opens

8:30am ***Welcome, introductions, and agenda review*** Eli Sagor, UMN-SFEC

8:40am ***Smoke emissions production and pollutants of concern*** Trent Wickman, USFS

Air quality regulation

Practical meteorology

Use soundings to determine mixing height, transport, and surface winds and winds above the mixing height

- Define weather pattern effects on smoke dispersion
- Make sure burning is under conditions that optimize dispersion (examples of small and large burns)

12:00pm Lunch

1:00pm ***Application of smoke impact reduction techniques***

- Lower emissions
- Better disperse your smoke

Application of smoke impact reduction techniques

- Learn and practice methods to predict smoke movement and smoke accumulations (students use tools with the example fires they brought with them)
- Tools: Smoke Screen, Vsmoke, Digital Photoseries, Bluesky Playground

Monitoring – from photos to monitors

Communications

4:00pm Adjourn



About the instructors:

Trent Wickman an Air Resource Specialist with the US Forest Service, Eastern Region. Trent grew up in northern Minnesota and the Upper Peninsula of Michigan. He attended Michigan Tech University in Houghton, MI and received a B.S. in Biology and an M.S. in Environmental Engineering. After graduation in 1996 he worked as an Air Permit Engineer for the Minnesota Pollution Control Agency for five years drafting and issuing air permits for new industrial sources. Since 2001 he has worked for the US Forest Service as an Air Resource Specialist assessing the impact of air emissions from industrial sources to forest resources and also supporting prescribed burning operations through various smoke management activities. In his spare time Trent prays for snow so he can go X-C skiing, is a boy/cub scout leader, fishes and chases his two boys around. Trent is based in Duluth. twickman@fs.fed.us, (218) 626-4372.

Eli Sagor manages the University of Minnesota's Sustainable Forests Education Co-operative. He has been with the University of Minnesota since 2000. esagor@umn.edu, (218) 409-6115, <http://sfec.cfans.umn.edu>