

**2002 Bark Beetle Technical Working Group
December 3-5, 2002
Silver Legacy Resort, Reno, NV**

Contact: 800-687-8733, <http://www.reno.com/apps/pbcs.dll/frontpage>

Chair: Joel McMillin; jmcmillin@fs.fed.us, 928.556.2074

Local Arrangements: Sheri Smith

A/V Equipment: Overhead, slide, and 2 laptops/computer projectors will be available. If additional a/v equipment is needed, please contact Sheri.

Tuesday, 12/03

- 8:00 – 8:30: **Welcome, housekeeping items, review and modify agenda, and mission statement (McMillin)**
- 8:30 – 9:00: **Bark beetle research initiative (all)**
- 9:00 – 9:30: **Brief descriptions of proposed bark beetle related STDP's in 2003 (all)**
- 9:30 – 10:00: **BREAK**
- 10:00 – 11:30: **After The Fires: Round Robin Discussion of Activities Related to Fires**
- **Summary of marking guidelines survey and update on court decision regarding marking guidelines (McMillin & Smith)**
 - **Douglas-fir beetle and fire (Gibson)**
 - **Bark beetle attacks following the Moose and Green Knoll fires (RMRS Logan)**
 - **Prescribed burns and bark beetles in PNW (Niwa & Ragenovich)**
- 11:30–12:00: **Bark beetles and remote sensing (Jan Johnson/RSAC)**
- 12:00- 1:30: **LUNCH**
- 1:30 – 3:00: **Bark Beetle Pheromone Project Updates – 15 minutes each**
- **The efficacy of verbenone for prevention and suppression of WPB infestations in ponderosa pine stands (Fettig & Borys)**
 - **Verbenone and mountain pine beetle (RMRS Logan)**
 - **Verbenone related projects (Kegley, Gibson, Thier)**

- **Effect of verbenone and conophthorin on the response of spruce engraver to attractants in Alaska (Graves & Seybold)**
- **Microencapsulated Spray Pheromones (Rappaport)**
- **Is there a better Mountain Pine Beetle lure for the Rocky Mountains? (Seybold et al.)**
- **Med-E-Cell release devices for spruce beetle and mountain pine beetle aggregation pheromones (Holsten, Munson and Shea)**
- **Spruce beetle flight periodicity and comparison of pheromone lures in Arizona (McMillin)**
- **Predicting SPB infestation trends with pheromone traps: Effectiveness and recent improvements (Billings)**
- **Field tests of attractants for red turpentine beetle (Borys, Smith & Cluck)**
- ***Ips pini* and *I. confusus* flight periodicity and field test of anti-aggregants (Smith and Cluck)**
- **Simplified bait for *Tomicus piniperda* (Wakarchuk et al.)**

3:00 – 3:15: **BREAK**

3:15 – 5:00: **Bark Beetle Pheromone Project Updates (continued)**

Wednesday, 12/04

8:00 – 10:45 **Beetle Specific Projects – 10 to 15 minutes each**

- ✓ • ***Ips* and chips: effective slash management or a recipe for disaster (McMillin, Anhold & Fettig)**
- ✓ • ***Ips confusus* hazard rating in Arizona (Negron and Wilson)**
- ✓ • ***Ips typographus* in Poland and Lithuania (Munson and Negron)**
- ✓ • **Three-year trapping study for suspected vectors of black stain in pine (Smith and Cluck)**
- ✓ • **Effect of ecosystem disturbance on diversity of bark beetles and wood-boring beetles in white spruce ecosystems of Alaska (Werner)**
- ✓ • **Spruce beetle trap catches and tree mortality plus the “Handy-Vandy” trap (RMRS Logan and Munson)**
- ✓ • **Mountain pine beetle trap catches and beetle emergence relationships (RMRS Logan)**
- ✓ • **Mountain pine beetle, jack pine and global warming (RMRS Logan)**
- ✓ • **Detecting mountain pine beetle killed trees using satellite data (RMRS Logan)**

- ✓ • Mass rearing of clerid beetles for predation of MPB and SPB (Eager)
- ✗ • Updating a landscape approach to SPB hazard rating in east Texas (Billings)
- ✓ • Region-wide southern pine beetle management in Central America (Billings)
- ✓ • Southern pine beetle projects (Clarke)
- ✓ • Southern pine beetle projects, part 2 (Strom)
- ✓ • Plume model update (Strand et al.)

10:45 – 11:00 **BREAK**

11:00 – 12:00: **Future of pheromones: Where do we go from here? (all)**

- \$20,000 for a project of our choice
- Brainstorming project ideas (to be typed up and distributed)

12:00- 1:30: **LUNCH**

1:30 – 3:00: **Status of Bark Beetles by Region (each Region will have 10- 15 minutes to cover latest developments in bark beetle populations. There will be time to discuss specific projects later in the meeting.)**

3:00 – 3:15: **BREAK**

3:15 - 4:15: **Status of Bark Beetles by Region (continued)**

4:15 – 5:00: **Roundtable discussion on direct control programs against MPB in lodgepole and ponderosa pine and spruce beetle in spruce. Discussion to include: 1) what works, 2) what doesn't work, 3) how does use of pheromones fit into these programs, 4) how does use of insecticides fit into these programs, and 5) gaining public acceptance – what works and do visual simulations of outbreaks help? (Hofacker and all)**

5:00: **Adjourn**

Thursday, 12/05

8:00 – 8:30: **Further discussion of proposals submitted for \$20,000.**

8:30 – 9:00: **Bark Beetle Modeling Update- the latest on landscape level hazard rating, the west wide pine bark beetle model and landscape level assessments (Smith et al.)**

Most widely distributed pine species in:

World - Scotch

North America - LPP

US - PP

MT - PP

9:00 – 9:30: **Western Forest Health Directors' Communication Team & "Western Bark Beetle Report" (Boughton)**

9:30- 9:45: **BREAK**

9:45 – 10:00: **Vote on \$20,000 project**

10:00- 11:00: **"Outsourcing and its implications to FHP" (all)**

???? **Adjourn (no later than 11:30 am)**

BARK BEETLE TECHNICAL WORKING GROUP (BBTWG)

STATEMENT OF PURPOSE

DRAFT- 07/03/2002

The purpose of the Bark Beetle Technical Working Group (BBTWG) is to provide a means to address issues associated with bark beetle ecology and management. The BBTWG meets annually or more frequently as needed. The group is composed of professional forest pest management specialists, scientists and resource management specialists representing federal, provincial, state and local governments, universities and private interests.

Specifically, the BBTWG provides a forum to:

- 1) Discuss current bark beetle conditions in North America.
- 2) Identify and discuss issues and concerns related to bark beetle ecology and management.
- 3) Address short- and long- term research, technology development, and management needs for bark beetles.
- 4) Communicate issues, concerns, recommendations, priorities and needs to appropriate entities.

