

Call for Papers

Advancing the Fundamental Sciences-A Conference for Forest Service Physical Scientists



**Shelter Pointe Hotel and Conference Center
1551 Shelter Island Drive
San Diego, California 92106
October 18-21, 2004**

Abstract Deadline: April 30, 2004

USDA Forest Service

You are invited to submit proposals for oral, poster and short course presentations at the USDA Forest Service Physical Sciences Conference, October 18-22, 2004, at the Shelter Point Island Conference Center, San Diego, CA.

The Conference, “**Advancing the Fundamental Sciences-A Conference for Forest Service Physical Scientists**” will focus on key topics of interest for professionals working toward conservation of natural resources locally and globally.

Conference Objectives

- Honor and recognize the work of our predecessors and transfer their knowledge and experience.
- Inspire the current generation of Forest Service physical scientists through the distribution of contemporary knowledge.
- Strengthen the interdisciplinary earth and atmospheric sciences culture and improve working relationships by reinforcing professional values and roles in the Forest Service culture.

Conference Theme

Abstracts for oral presentations and poster presentations and short courses are sought on the topics listed below. Other topics will also be considered if related to the overall conference theme of “**Advancing the Fundamental Sciences.**”

- A historical perspective on the evolution of soil, water, air and geologic sciences in the Forest Service.
- Advances in the developing and applying research and technology for earth and atmospheric sciences analysis and decision making.
- Restoring and rehabilitating watersheds after natural and anthropogenic disturbances.
- Understanding and enhancing the knowledge towards protection and conservation of terrestrial and aquatic resources through watershed assessments

Conference Topics

The following conference topics are to be addressed by potential speakers and instructors. The list is intended to encourage speakers to address a topic through a manner that integrates different resource backgrounds of the audience.

Watershed Protection and Restoration

- Lessons from the past and tools for the future
- Implementation and effectiveness of Best Management Practices
- Source water protection
- Atmospheric deposition

Science and Research

- Knowledge management
- Barometer research watersheds
- Instream flows
- Modeling
- Disturbance ecology
- Long term soil productivity

Partnerships: Models of Collaboration for the future

- Case studies and approaches
- Expanding existing partnerships
- External partnerships and collaboration

Applied Science and Technology

- Watershed analysis tools and techniques
- Effective monitoring of physical resources
- Modeling applications
- Management of resource information
- Advances in instrumentation and technology

Valuing the physical sciences

- Resource education, awareness and involvement
- Determining the value of resources
- Building awareness and involvement
- Professional development and relationships

State of our knowledge

Fire effects and fuels treatment
Energy development
Riparian and wetland science and management
Using indicators
Managing roads
Effects of water uses and facilities
Groundwater
State of science, contemporary issues and emerging research
Geology and geomorphology in resource management

Compliance & Litigation

Environmental effects analysis
TMDLs
NPDES, NSR
Water Rights: contemporary issues
Living with legalese
FERC
NEPA
Forest planning

OPTIONS FOR PARTICIPATION

There are three ways you can propose to participate in the conference. Please indicate in your proposal which option you are proposing.

1. Option 1: Oral presentations – 20-minute presentation during a concurrent session with 3 or 4 other presenters. Flipcharts, 35 mm slides and computer projectors will be provided. Additional AV equipment is the responsibility of the presenter. Concurrent sessions take place on Tuesday, Wednesday and Thursday during the conference.
2. Option 2: Poster presentations – information presentations using printed materials. Posters will be limited to 4 x 8 ft display panels provided by the conference facility. Display panels are free-standing. Tables (2.5 x 8 ft) are available to accompany poster displays upon request. Use of audio-visual or other electrically-powered equipment can be accommodated on a limited basis with poster committee approval. A poster guide will be published and provided to each conference participant as part of the registration materials. An abstract and PDF file of each poster presentation will be included in the conference proceedings. Posters will be displayed throughout the conference.

Authors will be required to set up posters between 1200-2000 hr on Monday, October 18, 2004. A portion of the formal conference agenda will be devoted to poster presentations on Wednesday, October 20, 2004. Authors will be required to be present at their posters during this period. Take down of posters will be completed by 1200 hr, Thursday, October 21, 2004. Detailed instructions for poster preparation are posted on the conference web site.

3. Option 3. Short course instruction – training to conference participants through a short course learning environment. Audio-visual equipment and other teaching aides are permitted. Flipcharts, 35mm slide and computer projectors will be provided. Any additional equipment such as laptop and notebook computers is the responsibility of the instructor. Instructors should indicate in their proposal the maximum number of attendees that can be accommodated in their short course and how many sessions of the short course can be offered.

Short Course Submissions

Proposals for short courses should include a narrative description of the course and its objectives, requested length of time (hours), appropriate audience, and draft syllabus. Short course proposals can be submitted to Wayne Robbie at wrobbie@fs.fed.us

Submitting candidates for oral presentations and posters

Authors should submit their abstracts for oral presentations and posters using the format below. Email your submissions to wrobbie@fs.fed.us with a cc to mfurniss@fs.fed.us. NO graphics, charts, or imbedded commands or special formatting.

Below are topic headings for your submission:

1. **Type of presentation** being proposed: oral presentation or poster presentation.
2. **Program topic** the proposal is designed to address. (See Pages 3 and 4)
3. **Title** of oral or poster presentation, special session, or short course.
4. **Names and affiliations of authors** for oral, poster presentations or short course.
5. **Abstract:** Proposals for oral and poster presentations should include an abstract of no more than 250 words describing the content of the proposed presentation.
6. **Name, mailing address, voice, fax and email address of corresponding author**

Be sure to include all of the requested information. Incomplete submissions will not be accepted.

Proposals will be reviewed by the technical program committee and authors will be informed of acceptance by May 14, 2004

Conference information is updated on the web page: <http://www.stream.fs.fed.us/EarthScience/NationalConference.html>

Poster Presentation

Poster papers are invited that fall under the major conference theme and topic areas. An abstract is required by the established deadline.

Deadlines

April 30, 2004: Abstracts due

May 14, 2004: Notification to authors of acceptance

Plans and Accommodations

The conference will be held at the Shelter Pointe Hotel and Conference Center, 1551 Shelter Island Drive, San Diego, California 92106 and will include key note addresses, technical and poster sessions, short courses, displays and social activities.

Attendees and speakers are expected to cover their costs for registration, travel and accommodations. Rooms are being reserved for the conference at Shelter Pointe and nearby hotels.