

# FIRST ANNUAL H.J. ANDREWS LTER SYMPOSIUM

June 13, 1997  
9:30 am - 5:00 pm  
LaSells Stewart Center

## Presentations - Ag Science Room:

- 9:30 am **Mark Harmon** - Opening address
- 9:50 **Matthew Hunter** - Ecology of stream amphibians in the Blue River watershed, west-central Cascades of Oregon.
- 10:10 **Judy Li** - Potential effects of delayed caddisfly recolonization in a Cascade stream.
- 10:30-10:45 Break
- 10:50 **Julia Jones** - Long-term trends in peak flows and low flows from small paired watersheds in the H.J. Andrews, Coyote Creek, and Fox Creek.
- 11:10 **Reed Perkins** - Climatic and physiographic controls on peakflows in Watersheds 9, 2, and 8.
- 11:30 **David Post** - Long-term changes in streamflow in the H.J. Andrews catchments: relationship to the seasonality of precipitation.
- 12:00-1:00 pm Lunch
- 1:00 **Steve Wondzell** - Long-term dynamics of the hyporheic zone controlled by floods and geomorphic processes.
- 1:20 **Gordon Grant** - Murky waters: what we've learned so far about the flood of 1996 at the HJA and environs
- 1:40 **Matthew Goslin** - Spatial patterns of colonizing tree species relative to old-growth remnant trees in two coniferous stands impacted by multiple, partial fires
- 2:00 **Steve Garman** - A Spatially Explicit Landscape Simulation System (LANDSIM).
- 2:20-3:20 Poster session and break
- 3:20 **Art McKee** - LTER vegetation studies: seeing the forest and the trees
- 3:40 **Bob Griffiths** - Forest soils: foundation of forest ecosystems.
- 4:00 Tribute to **Jack Lattin**
- 4:15-4:45 **Fred Swanson** - Overview

## Posters (in alphabetical order) - Ag Leaders Room:

### **Steve Acker** -

- (1) Riparian forests of the western central Cascades of Oregon: complexity patterns and flood effects
- (2) A network of permanent forest study areas in the Pacific Northwest: baseline information on natural processes for ecosystem management.

**Heather Bonin** - Effects of stand age, season, elevation on the nutrients on the nutrients and microbiological characteristics of low-order stream sediment fine benthic organic matter.

**Bruce Caldwell** - Enzyme activities in ectomycorrhizal mat communities.

**Hua Chen** - Temperature effects on root decomposition in conifer forests of Pacific Northwest, USA.

**Warren Cohen** - Stand replacement disturbances in western Oregon, 1972-1991.

**Earl Eckley, Warren Cohen** - HJA landcover classification map from ADAR multispectral imagery.

**John Faustini** - Stream channel changes at the H.J. Andrews headquarters site on Lookout Creek in response to the flood of February, 1996.

**Marla Gillham** - Biological immobilization of nitrogen in Douglas-fir microcosms: influences of soil warming and atmospheric CO<sub>2</sub>.

**Andrew Gray** - Seven years of soil moisture patterns in experimental canopy gaps.

**David Greenland** -

- (1) Potential solar radiation at the H.J. Andrews Experimental Forest
- (2) Searching for interdecadal cycles in western Oregon precipitation.

**Stanley Gregory** -

- (1) Application of landscape properties in assessing trajectories of change and alternative future scenarios;
- (2) Evaluation of future scenarios as a foundation for conservation and restoration;
- (3) Historical change in the channel and riparian vegetation of the Willamette River, Oregon.

**Robert Griffiths** -

- (1) Effects of Douglas-fir pole stand thinning on forest soil biology and chemistry
- (2) Denitrification potential in the transition zone between old-growth and harvested sites of Douglas-fir forests in the Pacific Northwest.

**Mark Harmon** - Decomposition of woody detritus in the Pacific Northwest.

**Thomas Hayes** - The ecosystem consequences of fragmentation: biogeochemical cycling at old-growth forest-clearcut edges in the Pacific Northwest

**Don Henshaw and Hazel Hammond** - A tour of the HJA LTER electronic hyperspace: the new WWW site.

**Bill Hicks** - Nitrogen fixation in woody debris: some interesting preliminary results.

**Sherri Johnson** - Flood impacts on channel features: where were the greatest changes?

**Jeffrey Miller** - Distribution and abundance of Lepidoptera within the HJA Forest.

**Rachel Spicer** - Sapwood in a thinned and unthinned stand: how much is there and why is it there?

**Tom Spies** - The gap experiment: an overview.

**Yana Valachovic** - Alternative methods to determine reactive polyphenol and lignin content of leaf litter.

**Kristen Vanderbilt** - Nitrogen fluxes in small experimental watersheds in western Oregon.

**Rota Wagai** - Regeneration and biodegradability of water-extractable soil carbon: the belowground carbon cycle connection.

**Beverly Wemple** - Interaction of logging roads with hillslope and channel processes during the February, 1996 flood in western Oregon.