

Program

MAY 25, 2004 - TUESDAY MORNING

- 7:00-8:15 am Continental Breakfast, Registration, and Pick-Up Materials (Conference Center)
- 8:15- 8:30 am **Welcome & Introductions**
 Connie Millar, USDA Forest Service, PSW Research Station, Albany, CA
 Henry Diaz, NOAA Climate Diagnostic Center, Boulder, CO
- 8:30 am **Keynote Address**
Integrating Climate Research of Mountains at Global and Regional Scales
 Bruno Messerli, University of Bern, Bern, Switzerland
- 9:15 am **Session I: Climate of Western Mountains**
 Session Chair: Henry Diaz, NOAA Climate Diagnostics Center, Boulder, CO
- 9:15 am Plenary Session
Present Climate Observations and Monitoring
 Kelly Redmond, Desert Research Institute, Reno, NV
- 9:40 am **A Paleoclimatic Perspective on Contemporary and Future Climate in Western North America**
 Raymond Bradley, University of Massachusetts, Amherst, MA
- 10:05 am - 10:25 am Coffee Break
- 10:25 am **Climate Future: Science & Policy**
 Randy Dole, NOAA Climate Diagnostics Center, Boulder, CO
- 10:50 am **GEWEX America's Prediction Project (GAPP) and Beyond**
 Jin Huang, NOAA Office of Global Programs, Washington, D.C.
- 11:00 am - 12:30 pm Concurrent Discussion Sessions
- Present Climate Observations and Monitoring**
 Facilitator: Daniel Cayan, Scripps Institution of Oceanography, La Jolla, CA
 Recorder: Chris Daly, Oregon State University, Corvallis, OR
- Climate Past**
 Facilitator: Connie Woodhouse, NOAA National Climate Data Ctr, Boulder, CO
 Recorder: Cathy Whitlock, University Oregon, Eugene, OR
- Climate Future**
 Facilitator: Henry Diaz, NOAA Climate Diagnostics Ctr, Boulder, CO
 Recorder: David Gutzler, University of New Mexico, Albuquerque, NM
- 12:30 – 1:30 pm LUNCH (Conference Center)



MAY 25, 2004 - TUESDAY AFTERNOON

- 1:30 pm **Session 2: Water and Water Resources**
Session Chair: Michael Dettinger, USGS Water Resources Division, La Jolla, CA
- 1:30 pm Plenary Session
Monitoring and Assessment of Western Water Availability
Mark Anderson, USGS Water Resources Division, Tucson, AZ
- 1:55 pm **Snow, Snow Packs and Runoff**
David Tarboton, Utah State University, Water Research Laboratory, Logan, UT
- 2:20 pm **Contemporary Glacier Change in the American West**
Andrew Fountain, Dept of Geography and Geology, Portland State University, Portland, OR
- 2:45 pm **Drought and Water Resources in the Future**
Philip Mote, Climate Impacts Group, University of Washington, Seattle, WA
- 3:10 - 3:30 pm Coffee Break
- 3:30 - 5:00 pm Concurrent Discussion Sessions
Present Water Conditions and Monitoring
Facilitator: Michael Dettinger, USGS Water Resources Division, La Jolla, CA
Recorder: Carolyn Hunsaker, USDA Forest Service, PSW Research Station, Fresno, CA
- Snow, Snow Packs and Runoff**
Facilitator: Roger Bales, Dept. of Hydrology, University of California, Merced, CA
Recorder: George Leavesley, USGS Water Resources Division, Denver, CO
- Glacial Change**
Facilitator: Daniel Fagre, USGS Biological Resources Division, Glacier National Park, W. Glacier, MT
Recorder: David L. Peterson, USDA Forest Service, PNW Research Station, Seattle, WA
- Drought and Water Resources in the Future**
Facilitator: Greg Johnson, USDA Natural Resources Conservation Service (NRCS) Portland, OR
Recorder: Jill Baron, USGS, Ft. Collins, CO
- 5:00 pm First Day Closing Remarks
Henry Diaz and Connie Millar
- 5:15 pm End of Session

MAY 25, 2004 - TUESDAY EVENING

- 5:30 – 7:30 pm POSTER SESSION with appetizers and no-host bar (Conference Center)



MAY 26, 2004 - WEDNESDAY MORNING

- 7:00-8:15 am Continental Breakfast (Conference Center)
- 8:15 am **Session Opening**
Henry Diaz and Connie Millar
- 8:25 am **Session 3: Drivers of Change**
Session Chair: Nate Stephenson, USGS Biological Resources Division, Three Rivers, CA
- 8:25 am Plenary Session
Fire
Thomas Swetnam, Laboratory of Tree-Ring Research, University of Arizona, Tucson, AZ
- 8:50 am **Massive Forest Dieback**
Craig Allen, USGS Biological Resources Division, Los Alamos, NM
- 9:15 am **Rural Development and The Urban Interface**
Andy Hansen, Ecology Dept., Landscape Biodiversity Laboratory, Montana State University, Bozeman, MT
- 9:40 am **Forest Disturbances and Landscape Issues**
Ken Lertzman, School of Resource & Environmental Management, Simon Fraser University, Burnaby, BC
- 10:05 am - 10:20 am Coffee Break
- 10:20 am - 12:00 pm Concurrent Discussion Sessions
Fire
Facilitator: Tim Brown, Desert Research Institute, Reno, NV
Recorder: Anthony Westerling, Scripps Institution of Oceanography, La Jolla, CA
- Massive Forest Dieback**
Facilitator: Tom Veblen, Dept. of Geography, University of Colorado, Boulder, CO
Recorder: Nate Stephenson, USGS Biological Resources Division, Three Rivers, CA
- Rural Development and Urban Interface**
Facilitator: Harvey Hill, NOAA Office of Global Programs, Silver Springs, MD
Recorder: Brad Udall, Center for Science & Technology Policy Research, University of Colorado, Boulder, CO
- 12:00 noon - 1:30 pm LUNCH (Conference Center)
- Keynote Address:**
Disappearing Glaciers as Evidence of a Rapidly Changing Earth: What We Know, What We Think We Know; and What We Need to Know!
Lonnie Thompson, Byrd Polar Research Center, The Ohio State University, Columbus, OH



MAY 26, 2004 - WEDNESDAY AFTERNOON

- 1:30 pm **Session 4: Ecosystems & Resources**
Session Chair: Connie Millar, USDA Forest Service, PSW Research Station, Albany, CA
- 1:30 pm Plenary Session
Vegetation Dynamics in the Arid West: Past, Present, and Future
Julio Betancourt, USGS Biological Research Division, Tucson, AZ
- 1:55 pm **Carbon Sequestration and Climate in Western US Mountains**
David Schimel, National Center for Atmospheric Research, Boulder, CO
- 2:20 pm **Ecosystem Consequences of Climate Change Altered Forest Insect Disturbance Regions**
Jesse Logan, USDA Forest Service, Rocky Mountain Research Station, Logan, UT
- 2:45 pm **Wildlife (Macro-fauna)**
Craig Moritz, Museum of Vertebrate Zoology, University of California, Berkeley, CA
- 3:10 – 3:30 pm Coffee Break
- 3:30-5:00 pm Concurrent Discussion Sessions
Vegetation Dynamics
Facilitator: David L. Peterson, USDA Forest Service, PNW Research Station, Seattle, WA
Recorder: Connie Millar, USDA Forest Service, PSW Research Station, Albany, CA
- Productivity and Carbon**
Facilitator: Mark Williams, University of Colorado, The Institute of Arctic and Alpine Research (INSTAAR), Boulder, CO
Recorder: Barry Baker, The Nature Conservancy, Boulder, CO
- Insects & Micro-fauna**
Facilitator: Harald Pauli, University of Vienna, Vienna, Austria
Recorder: Hugh Safford, USDA Forest Service, PSW Regional Office, Vallejo, CA
- Wildlife (Macro-fauna)**
Facilitator: David Graber, USDI National Park Service, Sequoia/Kings National Parks, Three Rivers, CA
Recorder: Amy Lind, USDA Forest Service, PSW Research Station, Davis, CA
- 5:00 pm Second Day Closing Remarks
Connie Millar and Henry Diaz
- 5:15 pm End of Session

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Program

MAY 26, 2004 - WEDNESDAY EVENING

6:30 – 10:00 pm Banquet Dinner with Keynote Addresss (Conference Center)
Fire and Water: Integrating Mountain Climate Sciences and Resource Policy.
 Timothy Duane, Dept. of City and Regional Planning, University of California,
 Berkeley, CA .

MAY 27, 2004 - THURSDAY MORNING

7:00 – 8:30 am Continental Breakfast (Conference Center)

8:30 am Session Opening
 Connie Millar and Henry Diaz

8:35 am **Session 5: Synthesis & Cross-Cutting Themes for Integrating
 Mountain Climate Research**

8:35 am **Plenary Responders & Synthesizers**
 Georg Grabherr, Institute for Ecology and Nature Protection, University of Vienna,
 Vienna, Austria

9:00 am Lisa Graumlich, Big Sky Institute for Science and Natural History,
 Montana State University, Bozeman, MT

9:25 am David Parsons, USDA Forest Service, Aldo Leopold Wilderness Institute, Missoula, MT

9:50 am Harald Bugmann, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland

10:15 – 10:30 am Coffee Break

10:30 am Leigh Welling, USDI National Park Service, Glacier National Park, West Glacier, MT

10:55 am Greg Greenwood, The Resources Agency, State of California, Sacramento, CA

11:20-12:00 noon **Plenary Closing Discussion**
What's Next?
 Henry Diaz and Connie Millar

12:00 noon – 1:00 pm LUNCH (Conference Center) – Symposium Adjourns

