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TSC TAHOE SCIENCE CONSORTIUM

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5th Biennial Lake Tahoe Basin Science Conference

March 16 & 17, 2010

Tahoe Center for Environmental Sciences
Sierra Nevada College Campus
291 Country Club Drive, Incline Village, Nevada.

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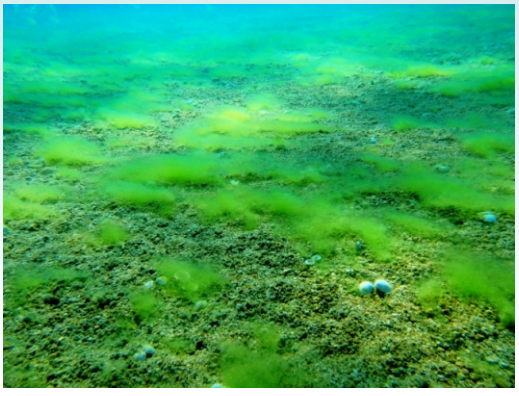

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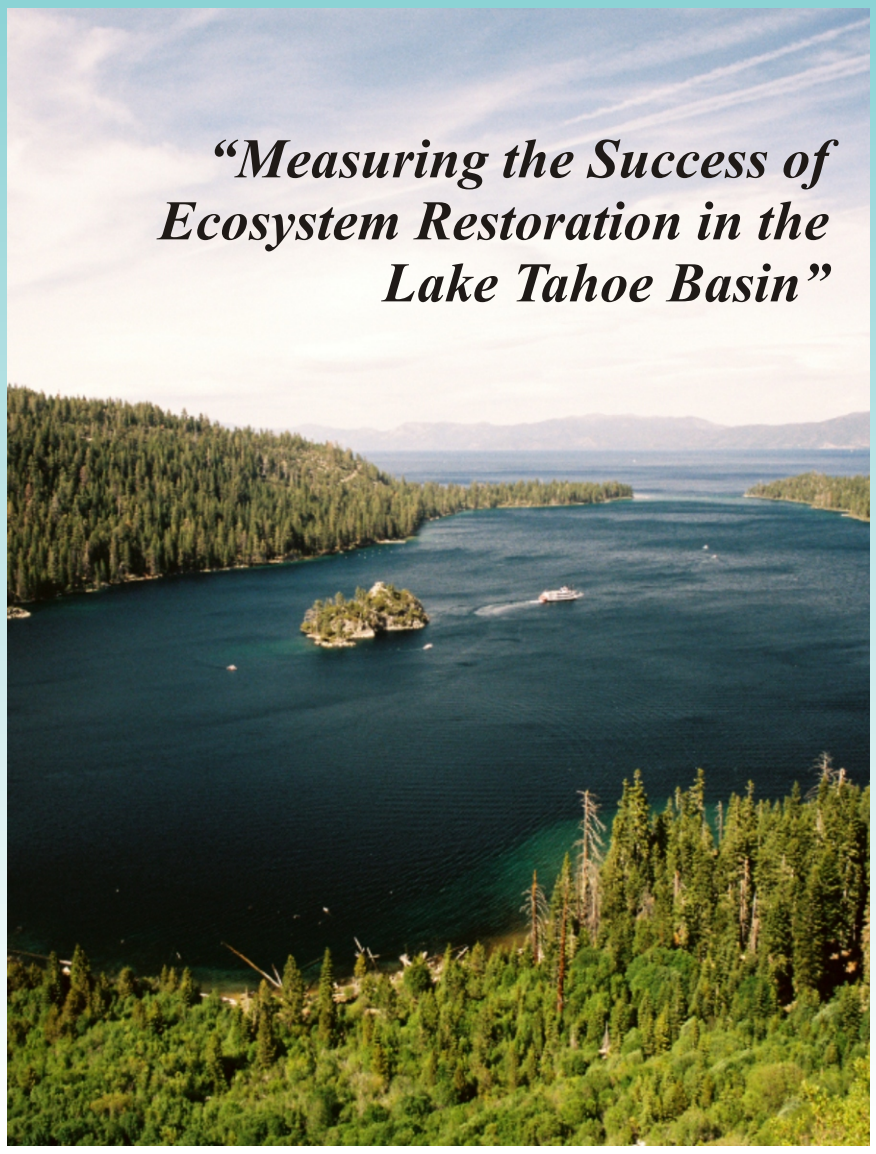

5th Biennial Conference:

Measuring the Success of Ecosystem Restoration in the Lake Tahoe Basin

2010 Tahoe Conference Sponsors

Effective management and restoration of the Lake Tahoe Basin is a continuing focus of agency representatives, scientists, stakeholders and decision-makers. This three-day conference will allow individuals involved in the science and management of the Basin to learn about and discuss the latest relevant scientific information and results. This conference brings together professionals involved in the Lake Tahoe Basin, providing an excellent opportunity for networking, education, and the exchange of ideas and information.

The success of the conference would not be possible without the support of our generous sponsors. Thank you for your support and dedication to the continued work at the Lake Tahoe Basin.

Nevada Water Resources Association

Conference logistics and organization provided by Nevada Water Resources Association.

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5th Biennial Conference:
Measuring the Success of Ecosystem Restoration in the Lake Tahoe Basin
Welcome

Dear Attendees –

Welcome to the 5th Biennial Lake Tahoe Basin Science Conference: Measuring the Success of Ecosystem Restoration in the Lake Tahoe Basin. The 2010 Science Conference provides a forum where individuals involved in the science and management of the Lake Tahoe Basin can learn about and discuss the latest relevant scientific information and results. This conference will bring together agency, academic, and stakeholder representatives, and will provide the opportunity for networking, education, and the exchange of new ideas and information. The conference will feature 84 oral presentations and 23 poster presentations covering a variety of topic areas.

We are again holding this biennial Science Conference at the Tahoe Center for Environmental Sciences (TCES). This building is the hub for state-of-the-art science in the Tahoe Basin. The TCES represents an exciting collaboration among the University of California Tahoe Environmental Research Center, Sierra Nevada College, the University of Nevada Academy for the Environment, and the Desert Research Institute. We are grateful to these organizations for making the TCES available.

I hope the many discussions you have during the conference increase your knowledge of the Tahoe Basin, enhance your current professional relationships, and allow you to start new relationships that last throughout your career. I look forward to seeing you at the Conference!

Sincerely,

Zach Hymanson
Executive Director,
Tahoe Science Consortium

5th Biennial Conference:
Measuring the Success of Ecosystem Restoration in the Lake Tahoe Basin
Planning Committee

Sudeep Chandra
University of Nevada, Reno

Michael Collopy
UNR, Academy for the Environment

Jill Falman
University of California, Davis, Tahoe Environmental Research Center/Tahoe Science Consortium

Mark E. Grismer
University of California, Davis

Alan Heyvaert
Desert Research Institute

Zach Hymanson
Tahoe Science Consortium

Susie Kocher
UCCE - El Dorado County

Jonathan W. Long
USDA Forest Service, Pacific Southwest Research Station

John Reuter
University of California, Davis, Tahoe Environmental Research Center

J. Shane Romsos
Tahoe Regional Planning Agency

Tim Rowe
USGS Nevada Water Science Center

Geoffrey Schladow
University of California, Davis, Tahoe Environmental Research Center

Peter Stine
USDA Forest Service, Pacific Southwest Research Station

Jim Thomas
Desert Research Institute

Tina Triplett
Nevada Water Resources Association

Marion Wittmann
University of California, Davis, Tahoe Environmental Research Center

Tricia York
California Tahoe Conservancy/University of California, Davis, Tahoe Environmental Research Center

5th Biennial Conference:
Measuring the Success of Ecosystem Restoration in the Lake Tahoe Basin
Tuesday, March 16 — Day 1

7:00-8:15 Registration

8:15-8:30 Welcome & Introductory Remarks (Rooms 139 & 141)

8:30-9:30 Keynote Speaker (Rooms 139 & 141)
Dr. Daniel Schindler, Professor, University of Washington; Aquatic & Fishery Sciences; Department of Biology

9:30-9:45 Break

9:45-12:00 Plenary Session: Invasive Species Panel (Rooms 139 & 141)

Moderators: **Dr. Sudeep Chandra,** University of Nevada, Reno; Aquatic Ecosystems Analysis Laboratory
Marion Wittmann, Ph.D., UC Davis; Tahoe Environmental Research Center

Carla D'Antonio, Professor, University of California, Santa Barbara; Ecology, Evolution, and Marine Biology

Jonathan Bossenbroek, Assistant Professor of Ecology, University of Toledo; Department of Environmental Sciences

Dr. Michael Marchetti, Associate Professor of Biology, California State University, Chico; Department of Biological Sciences

Chris Dionigi, Acting Executive Director of National Invasive Species Council, U.S. Department of the Interior; Office of the Secretary

12:00-1:00 Lunch Break (First Level)

5th Biennial Conference:

Measuring the Success of Ecosystem Restoration in the Lake Tahoe Basin

Tuesday, March 16 — Day 1

1:00-2:40 Concurrent Session 1

Room 139

Invasive Mollusks & Benthic Habitats.

The first of two sessions focused on nonnative aquatic species in the Lake Tahoe Basin, this session features research on Asian clam, quagga mussel, and benthic habitats.

Moderator: Marion Wittman, Ph.D., UC Davis; Tahoe Environmental Research Center

1:00 **Marion Wittmann** T*he Asian Clam Invasion in Lake Tahoe: The Ecology of an Invasive Bivalve in an Oligotrophic Lake*

1:20 **Marianne Denton** *Life History Strategies of the Asian clam, Corbicula fluminea, in Lake Tahoe*

1:40 **Marion Wittmann** *The management of Asian clam in Lake Tahoe: Bottom barriers and diver assisted suction removal*

2:00 **Sudeep Chandra** *Risk of invasion or really no problem? An experiment test of quagga mussel survival and reproductive status using Lake Tahoe water*

2:20 **Andrea Caires** *Risk of invasion or really no problem? An experiment test of quagga mussel survival and reproductive status using Lake Tahoe water*

Room 141

Erosion Modeling in the Lake Tahoe Basin using WEPP.

The first of two sessions focused on soil erosion research, this session highlights results from several research projects that apply erosion modeling tools, specifically the Water Erosion Prediction Project (WEPP), to assess erosion risks and rates associated with various aspects of forest management and roads.

Moderator: William J. Elliot, Rocky Mountain Research Station

1:00 **William J. Elliot** *The development of a site-specific Tahoe Basin erosion interface*

1:20 **Erin Brooks** *Development and Assessment of the WEPP model in the Tahoe Basin*

1:40 **Drea Traeumer** *Nutrient and Sediment Loading Predictions for Prescribed Fire Using Optimized WEPP Model*

2:00 **Randy Foltz** *Improving Erosion Modeling on Forest Roads in the Lake Tahoe Basin*

2:20 **James (Andy) Efta** *BMP-SA A tool for planning road Best Management Practices at a watershed scale*

Room 106

Frameworks for Adaptive Management and Planning.

This session focuses on several projects that describe frameworks for targeting and tracking efforts to restore the environment in the Tahoe Basin.

Moderator: Jeremy Sokulsky, Environmental Incentives

1:00 **Shane Romsos** *An Adaptive Management System to Monitor The Status and Trend of Tahoe Basin Environmental and Socioeconomic Conditions*

1:20 **Chad Praul** P*erformance Measures to Quantify the Activity and Benefits of the Lake Tahoe Environmental Improvement Program*

1:40 **Jeremy Sokulsky** *Lake Clarity Crediting Program: Linking Policy to Science*

2:00 **Maggie Mathias** *BMP RAM Tool: Documenting and Tracking Treatment BMP Condition in Lake Tahoe*

2:20 **Adam Lewandowski** *California Essential Habitat Connectivity Project: Implications for the Tahoe Basin*

2:40-3:00 Break (First Floor)

5th Biennial Conference:
Measuring the Success of Ecosystem Restoration in the Lake Tahoe Basin
Tuesday, March 16 — Day 1

3:00-4:40 Concurrent Session 2

Room 139

Invasive Species in the Nearshore.

The second part of the focused session on nonnative aquatic species, this session focuses on non-native fish, crayfish, and plants in the nearshore environments of the Tahoe basin.

Moderator: Dr. Sudeep Chandra, University of Nevada, Reno; Aquatic Ecosystems Analysis Laboratory

3:00 **John Umek** *Crayfish distribution and abundance in Lake Tahoe, USA*

3:20 **Lars W.J. Anderson** *Invasive Aquatic Plants in Lake Tahoe: Where are they and why are they continuing to spread?*

3:40 **Zachary Hymanson** *Evaluating the effectiveness of Eurasian watermilfoil (Myriophillum spicatum) control efforts in Emerald Bay, Lake Tahoe, California.*

4:00 **Sudeep Chandra** *Predicting establishment and predation impact of non native largemouth bass in a large, sub-alpine, oligotrophic lake*

4:20 **Christine Ngai** *Where are they going? Movement of nonnative warmwater fishes in Lake Tahoe*

Room 141

Soil Disturbance & Erosion.

The second of two sessions that focus on soil erosion and disturbance, this session features studies that address modeling and monitoring.

Moderator: Mark E. Grismer, UC Davis; Department of LAWR - Hydrology

3:00 **Mark E. Grismer & Ann Collins** *Microbial Community Composition and Stability of Disturbed Soils in the Lake Tahoe Basin*

3:20 **Nick Harrison** *Developing fuels treatments for balancing fuel reduction, soil exposure, and potential for erosion in the Tahoe Basin*

3:40 **Mark E. Grismer & Erin Rice** *Soil Water Repellency Effects on Infiltration and Erosion Rates in the Tahoe Basin*

4:00 **Mike Hogan** *Modeling and Real-time Measurements: Function, Constraints, Opportunities*

4:20 **Mark Grismer** *Erosion Modeling for Land Management – Scaling & restoration thresholds*

Room 106

Stream & Habitat Restoration.

This session features research projects that consider effects of stream restoration and conservation of sensitive habitats.

Moderator: David B. Herbst, UCSB, Sierra Nevada Aquatic Research Laboratory

3:00 **Brian Spear** *Riparian Ecosystem Restoration and Effectiveness Framework*

3:20 **Stephen Andrews** *Numerical modeling of the influences of floodplain morphology and vegetation on sediment retention in Trout Creek*

3:40 **David B.** Herbst *Biological Monitoring of the Trout Creek Channel Reconstruction Restoration*

4:00 **Alison Stanton** *What, where, how, when: developing a restoration RX for Tahoe yellow cress*

4:20 **Samuel Veloz** *Predictive Modeling of Cheatgrass Invasion Risk for the Lake Tahoe Basin*

4:40-5:00 Break

5:00-7:00 Evening Poster Session & Reception

Conference Poster Presenters

5:00-7:00 p.m. Floors 2 & 3, Tahoe Science Consortium

Angell, Natalie	Restoring stand structures to promote sugar pine (Pinus lambertiana) regeneration and recruitment in the Lake Tahoe Basin, CA & NV
Brusati, Elizabeth D.	Predicting the Future Spread of Invasive Plants with Climate Change
Busse, Matt	Effects of pile burning in the Tahoe Basin on soil and water quality
Christensen, Wes	Effects of Hillslope Heterogeneity on Late Season Groundwater Discharge: Investigations using a coupled groundwater-surface water model
Dagley, Christa	A Monitoring Strategy for Riparian Forest Restoration
Davis, Alison	Best Management Practices and the Influence on the Value of Affected Homes
Falman, Jill C.	Results from a survey to assess the perceptions, value, and goals of the Tahoe Science Consortium
Fitzgerald, Brian	Linking On-Shore and near-Shore Processes: Near-Shore Water Quality Monitoring Buoy at Lake Tahoe
Gevertz, Amanda	Differential tolerances to UVR and fluoranthene exposure: Comparisons between native and invasive fish species of Lake Tahoe (CA/NV)
Gross, Shana	Five years of vegetation monitoring at Grass Lake Research Natural Area
Gross, Shana	Ski Slope Native Plant Revegetation Study
Jensen, Camielle	Mountain Pine Beetle (Dendroctonus ponderosae) Dynamics at Three Elevation Zones in the Lake Tahoe Region
LeBuhn, Gretchen	The Effects of climate change on alpine bumble bee community structure
McKelvey, Stephen R.	Effects of Prescribed Fire and Season of Burn on Direct and Indirect Levels of Tree Mortality in Eastside Pine Forest of the Sierra Nevada
Mix, Annette Delfino	A Unique Place: The Institute of Forest Genetics Research Greenhouse
Oehrli, Craig	Meadow Ecosystem Response to Restoration of the Stream Channel / Meadow Surface Relationship at Cookhouse Meadow
Rios, David	Lake Tahoe Stormwater Basins: Botanical Surveys, Comparisons, and a Greenhouse Trial
Salverson, Wade G.	Effects of Harvesting System and Prescribed Fire on Natural Regeneration in a Jeffrey Pine Stand: Implications for Lake Tahoe Basin Forests
Smith, Ken	Seismic and Volcanic Hazards at Lake Tahoe
Snyder, Jason	The Impact of Asian Dust Aerosols on Lake Tahoe
Susfalk, Richard B.	Impact of Terrestrial Sediment Sources on Nearshore Water Quality
Tucker, Andrew	Water Temperature and Ultraviolet Radiation Transparency Interact to Control Invasive Warm-water Fish Establishment in Nearshore Lake Tahoe
Van De Water, Kip	Fire history of coniferous riparian forests in the Lake Tahoe Basin
Walker, Roger F.	Effects of Harvesting System and Prescribed Fire on Forest Floor Vegetation in a Jeffrey Pine Stand: Implications for Lake Tahoe Basin
Wittmann, Marion	Asian clam (Corbicula fluminea) filtration and excretion rates: impacts to nutrient cycling and primary productivity in Lake Tahoe

5th Biennial Conference:
Measuring the Success of Ecosystem Restoration in the Lake Tahoe Basin
Wednesday, March 17 — Day 2

7:30 - 8:30 Registration

8:30-10:10 Concurrent Session 3

Room 139

Biological Dimensions of Tahoe Water Quality.

This session includes projects that study fishes in Lake Tahoe (both native and non-native), as well as nearshore organisms.

Moderator: Brant C. Allen, UC Davis; Tahoe Environmental Research Center

8:30 **John Umek** *Survivorship of a dominant, predatory game fish in Lake Tahoe*

8:50 **Derek Bloomquist** *Hydroacoustics as a Tool for Fisheries Management in Fallen Leaf Lake*

9:10 **Christine Ngai** *A contemporary evaluation of the nearshore native fishery in Lake Tahoe*

9:30 **Scott Hackley** *Periphyton Biomass Monitoring in the Near Shore Zone of Lake Tahoe*

9:50 **Andy Rost** *Can Fallen Leaf Lake sediments reveal the history of occurrence and growth patterns of the lotic stalked diatom Didymosphenia geminata?*

Room 141

Monitoring Terrestrial Ecological Outcomes of the Angora Wildfire.

The first of two sessions that will address effects of the Angora wildfire, this session will address the impacts of the wildfire on plant and animal communities.

Moderator: Chris Carlson, University of Montana; College of Forestry and Conservation, Dept. of Forest Management

8:30 **Chris Carlson** V*egetation conditions two years after the Angora Fire*

8:50 **Tina Carlsen** *Outcomes of Post-Fire Restoration after the Angora Fire*

9:10 **David Schmidt** *Effects of fuel treatments on fire severity in an area of wildland-urban interface during the Angora Fire*

9:30 **Patricia Manley** *Small mammal community recovery in the Angora wildfire*

9:50 **Gina Tarbill** *Bird community recovery in the Angora wildfire*

Room 106

Modeling the 21st Century Impacts of Climate Change in the Tahoe Basin.

This session focuses on results from a team project to model the effects of climate change on hydrology, pollutant loading and lake response.

Moderator: Robert Coats, TERC, Hydroikos Ltd.

8:30 **Michael Dettinger** *Projections and downscaling of climate change for the Sierra Nevada and Lake Tahoe*

8:50 **Robert Coats** *Climate change impacts in the Tahoe Region: past and projected future trends*

9:10 **John Riverson** *Hydrologic impacts of climate change at the watershed scale*

9:30 **Goloka Sahoo** *The Response of Lake Tahoe to Climate Change*

9:50 **Brent Wolfe** *Implications of climate change for design of BMPs in the Tahoe Basin*

10:10-10:40 Break (First Floor)

5th Biennial Conference:
Measuring the Success of Ecosystem Restoration in the Lake Tahoe Basin
Wednesday, March 17 — Day 2

10:40-12:00 Concurrent Session 4

Room 139

Tahoe's Native Fish Crisis: Status and restoration of native fish populations.

This session focuses on conservation of native fishes, including the Lahontan cutthroat trout.

Moderator: Jenny Marie Hatch, California Trout

10:40 **Jenny Hatch** *Tahoe's Native Fish Crisis: Status of and solutions for restoring our native fish populations*

11:00 **Richard Vacirca** *Lahontan Cutthroat Trout in the Upper Truckee River: Restoration of a Threatened Species in a Fluvial Headwater Environment*

11:20 **Maura Santora** *Native Non-Game Fish Assessment Survey In The Lake Tahoe Basin*

11:40 **Helen Neville** *Application of a GIS-based assessment tool to evaluate status and risks for Lahontan cutthroat trout in the Tahoe Basin and range-wide in a changing climate*

Room 141

Characterizing Aquatic Effects of the Angora Wildfire.

The second of two that addresses effects of the Angora wildfire, this session will address the impacts of the fire on downstream water quality and aquatic life.

Moderator: Alan C. Heyvaert, Desert Research Institute

10:40 **John Reuter** *Characterization of Water Quality in Angora Creek Following the June 2007 Angora Fire*

11:00 **Allison Oliver** *Characterization of Nitrogen and Phosphorus Loading From Angora Creek Following the June 2007 Angora Fire*

11:20 **Alan Heyvaert** *Tracking Fine Sediment Particles in Urban Runoff and Following the Angora Fire*

11:40 **Allison Oliver** *Characterizing Stream Ecosystem Response Using Benthic Macroinvertebrate Communities and Habitat Parameters in Angora Creek Following the June 2007 Angora Fire*

Room 106

Air Quality & Burning.

The first of two session focusing on air quality; this session focuses on particular matter and smoke in the basin, including studies of prescribed burning.

Moderator: Alan Gertler, Desert Research Institute

10:40 **Courtney Siu** *Time and Size-Resolved Aerosol Measurements above the Lake Tahoe Surface During Summer Conditions*

11:00 **Timothy Brown** *CANSAC Fire Weather and Smoke Management Products for the Lake Tahoe Basin*

11:20 **L.W. Antony Chen** *Particle and Air Toxics Emissions from Prescribed Burning: Effects of Fuel Type and Moisture Content*

11:40 **April Shackelford** *Nutrient emissions from prescribed fire in the Lake Tahoe Basin: Implications from field and laboratory observations*

12:00-1:00 Lunch Break (First Floor)

5th Biennial Conference:
Measuring the Success of Ecosystem Restoration in the Lake Tahoe Basin
Wednesday, March 17 — Day 2

1:00-2:40 Concurrent Session 5

Room 139

Physical Limnology: Currents & Circulation.

This session will highlight research on physical limnology and how it influences the conditions under which invasive species can reproduce and grow.

Moderator: Timothy Rowe, U.S. Geological Survey, Nevada Water Science Center

1:00 **Geoff Schladow** *The Role of Physical Limnology in the Observed Distribution and Future Spread of Invasive Species in Lake Tahoe*

1:20 **Francisco Rueda** *Three-Dimensional Flow Fields In The Near-Shore Region Of Lake Tahoe*

1:40 **Kristin Reardon** *The complexities of near-shore transport phenomena at Lake Tahoe*

2:00 **Todd Steissberg** *Observations of Lake Tahoe's Currents from Space: Implications for Water Quality and Invasive Species Transport*

2:20 **Alexa La Plante** *Exchange flow between the Tahoe Keys and Lake Tahoe: The implications for spread of invasive species and pollutants*

Room 141

Effects of Prescribed Burning & Forest Fuels Treatments.

This session will focus on effects of prescribed burning and other forest treatments on vegetation, fuels, and wildlife.

Moderator: Peter Stine, Pacific Southwest Research Station; Sierra Nevada Research Center

1:00 **Hugh Safford** *Assessing the ecological effects of forest fuel treatments in the Sierra Nevada*

1:20 **Alison Stanton** *The Upland Fuels Study: short-term vegetation and fuel response to fuel reduction treatments in the Lake Tahoe basin*

1:40 **Patricia Manley** *The Upland Fuels Study: short-term bird and small mammal response to fuel reduction treatments in the Lake Tahoe basin: a progress report*

2:00 **Alison Stanton** *Vegetation and fuel response ten years after prescribed fires in the California State Parks in the Lake Tahoe Basin*

2:20 **Erik Frenzel** *Prescribed fire may prevent, but doesn't reverse lodgepole pine (Pinus contorta ssp. murrayana) encroachment in meadows of the Lake Tahoe Basin*

Room 106

BMP Performance & Load Reduction.

This session focuses on projects to quantify and reduce pollutant loading to streams in urban areas and from roads.

Moderator: Alan C. Heyvaert, Desert Research Institute

1:00 **Mark Rayback** *Leveraging the Natural Environment As Treatment for Highway Runoff Within the Lake Tahoe Basin*

1:20 **Kevin Drake** *Development of a Road Cut and Fill Land Use Category for the Pollutant Load Reduction Model (PLRM)*

1:40 **Jack Jacobs** *Measuring BMP Maintenance: Results of a Project in Douglas-Tahoe*

2:00 **Philip Bachand** *Changes to Stormwater Ecotoxicity when Treating with Chemical Coagulants under Different Dosing Levels*

2:20 **David Rios** *Annual pollutant loads for a small Lake Tahoe subwatershed*

2:40-3:00 Break (First Floor)

5th Biennial Conference:
Measuring the Success of Ecosystem Restoration in the Lake Tahoe Basin
Wednesday, March 17 — Day 2

3:00-4:20 Concurrent Session 6

Room 139

Physical & Chemical Dimensions of Tahoe Water Quality.

Presentations in this session focus on physical and chemical conditions in Lake Tahoe, including temperature, fine sediments and gasoline compounds.

Moderator: Timothy Rowe, U.S. Geological Survey, Nevada Water Science Center

3:00 **Philipp Schneider** *Constructing a multi-decadal record of Lake Tahoe surface temperatures from satellite data*

3:20 **Stephen Andrews** *In-situ optical measurements to determine suspended particle composition in Lake Tahoe: organic vs. inorganic particles*

3:40 **Daniel Nover** *Temporal variations in fine particle distributions at Lake Tahoe: Trends and implications for clarity*

4:00 **Tim Rowe** *Monitoring gasoline and gasoline-derived compounds for the Shorezone Water-Quality Monitoring Program in Lake Tahoe, California and Nevada*

Room 141

Managing Forest Vegetation Communities.

This session focuses on effects of diseases, fuel treatments, and other land uses on forests in the Lake Tahoe basin.

Moderator: Peter Stine, Pacific Southwest Research Station; Sierra Nevada Research Center

3:00 **Isabel Munck** *Tree health within the Nevada portion of the Lake Tahoe Basin: interactions with fuel management treatments*

3:20 **Christopher Fettig** *Managing Slash in Pine Dominated Stands to Minimize Residual Tree Mortality Attributed to Bark Beetle Attack*

3:40 **Patricia Maloney** *The Effects of Land-use, a Non-native Pathogen, and Environmental Heterogeneity on the Population Dynamics of Three White Pine Species in the Lake Tahoe Basin*

4:00 **Detlev Vogler** *The Role of Resistance to White Pine Blister Rust in Restoration of the White Pine Species in the Lake Tahoe Basin*

Room 106

Air Quality & Road Dust.

This session focuses on projects to quantify and reduce impacts to air quality, particularly from road dust.

Moderator: Alan Gertler, Desert Research Institute

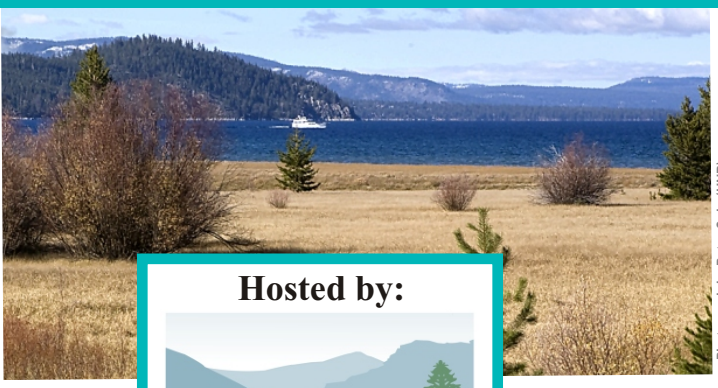
3:00 **Alan Gertler** *Sources of ambient particulate matter in the lake tahoe basin*

3:20 **Dongzi Zhu** *Deposition studies of vehicle-generated PM near Highway 50 in Lake Tahoe*

3:40 **David Barnes** *Overview of Road Dust Impacts in the Lake Tahoe Basin, including Winter Sanding and Salting*

4:00 **Scott Brown** *Preliminary Results of the Pilot Sweeper Study*

5th Biennial Lake Tahoe Basin Science Conference



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TSC TAHOE SCIENCE CONSORTIUM

March 16–17, 2010

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Come join in this two-day conference designed as an open forum in which individuals involved in the science and management of the Tahoe Basin can learn about and discuss the latest relevant science and information. For updates, check the Tahoe Science Consortium Web site at www.tahoescience.org and the Nevada Water Resource Association Web site at www.nvwra.org.

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- ❑ Students @ $45/person
- ❑ One-Day Only Registration $50/person — *circle choice* March 16 March 17
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