

2015 Hydrophiles' Research Symposium Presentations

*Schedule is tentative and may be subject to change

Oral Presentations

Session Name	Session Time	Session Title	Abstract Title	Last Name	First Name	School
1	Monday, 9 - 10:30 AM	Glacial Hydrology and Climate Change	Assessing trends and variability in the Arctic hydrologic cycle using the Regional Arctic System Model	Hamman	Joe	University of Washington
1	Monday, 9 - 10:30 AM	Glacial Hydrology and Climate Change	Estimated snow sensitivity to climate warming in the eastern Oregon Cascades	Cooper	Matthew	Oregon State University
1	Monday, 9 - 10:30 AM	Glacial Hydrology and Climate Change	Did climate change cause the 2012-2014 California drought?	Mao	Yixin	University of Washington
1	Monday, 9 - 10:30 AM	Glacial Hydrology and Climate Change	Effects of Climate Change on Snowpack in the Western United States	Gergel	Diana	University of Washington
1	Monday, 9 - 10:30 AM	Glacial Hydrology and Climate Change	High-Resolution Modeling of Coastal Freshwater Discharge and Glacier Mass Balance in the Gulf of Alaska Watershed	Beamer	Jordan	Oregon State University
2	Monday, 10:45 AM - Noon	Stream Ecology	Terrestrial leaf litter drives the ecosystem metabolism of small, temporary ponds	Holgerson	Meredith	Yale University
2	Monday, 10:45 AM - Noon	Stream Ecology	The impact of multiple stressors on aquatic macroinvertebrate communities in the Umatilla River	Clark	Hannah	Oregon State University
2	Monday, 10:45 AM - Noon	Stream Ecology	Reciprocal interactions between physical river process and a native sedge, <i>Carex nudata</i> , a potential ecosystem engineer.	Goslin	Matthew	University of Oregon
2	Monday, 10:45 AM - Noon	Stream Ecology	Consequences of Salmon Hatch Timing in Streams with Variable Thermal Regimes in the Copper River Delta, Alaska	Campbell	Emily	Oregon State University
4	Tuesday, 9 - 10:30 AM	Sediment transport and Surface Water	Looks are deceiving: Is the dynamic expansion of near-stream surface saturation important for streamflow generation?	Frentress	Jay	Oregon State University
4	Tuesday, 9 - 10:30 AM	Sediment transport and Surface Water	Sediment Transport Prototypes: Novel Methods to Disconnect Unpaved Roads from Streams	Kemp	Erica	Oregon State University
4	Tuesday, 9 - 10:30 AM	Sediment transport and Surface Water	From molecules to watersheds: hydrobiogeochemical signals of watershed responses to disturbances	Guerrero-Bolano	Francisco	Oregon State University
4	Tuesday, 9 - 10:30 AM	Sediment transport and Surface Water	Quantifying Stream Bed Erosion - deposition using temperature time series data	DeWeese	Timothy	University of Idaho
5	Tuesday, 10:45 AM - Noon	Water Quality	The role of internal loading in the phosphorus mass balance of willow creek reservoir, OR	Burnet	Sarah	University of Idaho
5	Tuesday, 10:45 AM - Noon	Water Quality	Development of Traceable Titanium Dioxide Nanoparticles for Examining Environmental Fate and Transport	Deline	Alyssa	Oregon State University
5	Tuesday, 10:45 AM - Noon	Water Quality	Synergies of DTS Monitoring and Modeling on the Middle Fork of John Day River: Stream Temperature after restoration	Hall	Austin	Oregon State University
6	Tuesday, 1 - 2 PM	Water Management and Infrastructure	Improving Agricultural Nitrogen Use through Policy Incentivized Management Strategies	Ward	Nicole	University of Idaho
6	Tuesday, 1 - 2 PM	Water Management and Infrastructure	Terracette Influences on Spatial Patterns of Soil Moisture in a Semiarid Rangeland Environment	Corrao	Mark	University of Idaho
6	Tuesday, 1 - 2 PM	Water Management and Infrastructure	Towards Optimizing Sedimentation Processes in Sand Dams	Viducich	Jon	Oregon State University
6	Tuesday, 1 - 2 PM	Water Management and Infrastructure	Traditional Infrastructure, Modern Flows: Cultural Politics of Development in the Kathmandu Valley, Nepal	Molden	Olivia	University of Oregon

Poster Presentations

Session Name	Session Time	Session Title	Abstract Title	Last Name	First Name	School
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	SETI: A Novel Hydrologic Model for Projecting Long-term Streamflow Trends in Mountain Environments	Mosier	Thomas	Oregon State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Agricultural water sustainability in the midst of climate change: an agent-based modeling approach	Leonard	Andrea	Boise State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Scaling properties of the rainfall runoff generation process in the Oregon Cascade Mountains: A nested approach	Nickolas	Lydia	Oregon State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Modeling impacts of land management activities on future water availability in the Boise River Basin, ID	Steinke	Amy	Boise State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Precipitation Recycling in the Columbia River Basin: Lagrangian Models and Historical Analysis	Tai	Leah	Oregon State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Impacts of future changes on low flow in a highly connected river-aquifer system: The Spokane River	Baxter	Heather	Washington State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Iron mobilization in a Willamette Valley Bioswale	Conatser	Christopher	Oregon State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	The role of antecedent soil moisture conditions in erosion and sediment transport to streams in managed, headwater catchments	Puntenney	Kira	Oregon State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Sediment Pulse Translation and Dispersion in Natural Gravel-bedded Rivers	Pace	Kylie	Oregon State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Measuring Gravel Transport in an Active natural System: An analytical framework	Sanfilippo	Jon	Oregon State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Sediment transport dynamics and its relation to primary production in mountain headwater streams	Katz	Scott	Oregon State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Modeling geomorphic response to large wood introduction as a strategy to restore fish habitat in a managed forest watershed	Bair	Russell	Oregon State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Physical modeling of the feedbacks between invasive riparian species, hydraulics, and bed form evolution.	Elliott	Susan	Oregon State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Stratigraphy of carbon preservation in reservoir sediments, Elwha River, Washington	Stratton	Laurel	Oregon State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	The role of forest harvest practices and extreme events on the sedimentation of an Oregon Coast Range lake	Richardson	Kris	Oregon State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Characterizations of near-farm evapotranspiration under wind turbine effects using Surface energy balance algorithm	Hassanpour Adeh	Elnaz	Oregon State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Measuring the morning transition of the atmospheric boundary layer	Predosa	Robert	Oregon State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Monitoring transpiration rates in a semiarid riparian ecosystem	Mendoza	Alek	Oregon State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Active layer depth in permeable snow	Drake	Steve	Oregon State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Examining the relation of outdoor pool water evaporation to the urban density due to wind protection	Antonelli	Eleni	University of Oregon
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Pillows, courses, LiDAR and streamgauges: Assimilating snowpack and streamflow observations into basin water balance inference	Brian	Henn	University of Washington
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Water quality trends in the Upper White River Basin, northwest Arkansas	Simpson	Zach	University of Arkansas
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Change in bedload transport frequency with climate warming in gravel-bed streams of the Oregon Cascades	Hempel	Laura	Oregon State University
3	Monday, 1 - 3 PM	Water Availability and Geomorphology	Spatial Patterns of Flow and Sediment Transport Dynamics in the Upper Willamette, OR	Langston	Trevor	University of Oregon

Session Name	Session Time	Session Title	Abstract Title	Last Name	First Name	School
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Comparing Management Strategies on the Columbia and Colorado Rivers	McCracken/Davee	Melissa/Rachael	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Policyscape Patterns in River Networks: Riparian Buffers in the Oregon Coast Range	Boisjolie	Brett	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Incorporating biophysical and social processes in an integrated modeling framework to predict future water availability	Han	Bangshuai	Boise State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Combining Community Conflict Management with Water Resources Engineering to Improve Stormwater Management	Kemper	Joseph	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Mycofiltration: Fungus as a New Frontier in Biological Based Water Filtration Systems	Emeson	Micco	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Research on Stream Water Temperature in Semiarid Riparian Systems	Leonard	Jaycee	Boise State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Enhancing VELMA's watershed delineation and performance with ancillary stream data	Halama	Jonathan	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Water Treatment Technologies for the Developing World	Burleson	Grace	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Forensic Hydrogeography: Assessing Arsenic Contamination in Domestic, Livestock, and Agricultural Wells in Harney County, Oregon	Smitherman	Lauren	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	The role of flow rate and moisture content on colloid mobility in unsaturated porous media	Brueck	Chris	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	The influence of hydrologic and biogeochemical factors on quantity and quality of DOC and quantity of DIC in the hyporheic zone	Serchan	Satish	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Treatment of giardia favoring the reduction of cancer as comorbid disease	Freitas Terra Silva	Adolfo	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Oxygen-Carbon Method for Measuring Gas Exchange Rates in Streams	Pennington	Robert	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Vadose Zone as a Potential Carbon Source: A Look at Seasonal spikes in Hyporheic Zone pCO ₂	Brandes	Jason	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Using Stable Isotopes to Reveal Nutrient Flowpaths at Big Spring Run, a low order stream in Lancaster County, Pennsylvania	Audie	Michelle	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	A Watershed Scale Spatial Statistics Approach for Development of Nutrient Criteria and Classification Scheme for Oregon Lakes	Brenner	Jacqueline	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	A landscape-scale Characterization of vegetation-soil water interactions in Semiarid Juniper Woodlands of Central Oregon	Ray	Grace	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Investigating the relationship between snowpack and tree growth in the Oregon Cascades, via Stable Carbon Isotope Analysis	Ratcliff	Christopher	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Testing the ideas of Walter White	Kollen	Jacob	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Comparing Management Strategies on the Columbia and Colorado Rivers	Melissa/Rachael	McCracken/Davee	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Evaluating Effects of Conservation Practices on Sediment Transport in Agricultural Watershed with Cohesive Sediments	Rebecca	Rittenburg	University of Idaho
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Microcosm Studies to Evaluate Biodegradation of Chlorinated Solvents and 1,4-Dioxane	Hannah	Rolston	Oregon State University
7	Tuesday, 2 - 4 PM	Water Quality and Policy	Characterizing and Assessing the Researcher-Stakeholder Engagement Process for Water Sustainability: The Willamette Water 2100 Project	Lauren	Ferguson	Oregon State University