

**ALASKA SECTION AWRA ANNUAL CONFERENCE
MARCH 31 – APRIL 2, 2010 BP ENERGY CENTER, ANCHORAGE
AGENDA**

Wednesday, March 31st

8:00am	Conference Registration – coffee and juice provided	
8:30am	President’s Welcome – Jim Munter, AWRA-Alaska President, J.A. Munter Consulting, Inc., Anchorage	
Session 1: Arctic Hydrology (Moderator: Michael Lilly)		
8:45am	Erin Trochim	Capturing water tracks using remote sensing in the foothills of the Alaskan Arctic: a multi-data perspective
9:05am	Celine van Breukelen	Using Synthetic Aperture Radar Imagery to Estimate Lake Water Depths on Alaska's North Slope
9:25am	William Schnabel	Hydrologic Monitoring and Evaluation Conducted by the UAF Water and Environmental Research Center: Current Efforts and Future Directions
9:45am	Emily K. Youcha	Field measured precipitation and runoff in Arctic basins
Coffee Break (plus juice and snacks)		
Session 2: North Slope Water and Ecosystem Management (Moderator: Michael Lilly)		
10:20am	Horacio Toniolo	Estimating ice thickness in Arctic lakes and applications to winter water use
10:40am	Sveta Berezovskaya	Snow management to augment water supplies on Alaska’s North Slope
11:00am	Michael Lilly	Characteristics of water use on the North Slope: industry challenges and adaptive water management
11:20 am	John Trawicki	Arctic Landscape Conservation Cooperative- An Overview
Lunch at BP Energy Center (deli sandwiches, chips, cookies and drinks provided)		
12:30pm	National AWRA Address: Lead, Follow or Get out of the Way: Adapting Water-Energy Systems in a Time of Uncertainty – Jerry Sehlke, Past-President AWRA	
1:00pm	Keynote Address: The Role of Renewable Energy Projects in Alaska’s Energy Future – Jim Strandberg, Alaska Energy Authority	
Session 3: Hydroelectric Power Projects and Processes in Alaska (Moderator: Jason Mouw)		
1:40pm	Bryan Carey	Susitna Hydroelectric
2:00pm	Neil McMahon	A semi-technical description of in-stream hydrokinetic devices
2:20pm	Jessica Cherry	Considering Climate Change and Variability in the Hydropower Development Process: a case study in Southeast Alaska
Coffee Break (plus juice, tea, and snacks)		
Panel Discussion: Perspectives, Processes, and Promises for Hydropower Development in Alaska Moderator: Jason Mouw, Alaska Department of Fish and Game		
3:00 pm	<u>Panelists</u> <ul style="list-style-type: none">• Jim Ferguson, Alaska Department of Fish and Game• Gary Prokosch, Department of Natural Resources• Sue Walker, National Marine Fisheries Service• Jim Thrall, Hydropower Regulatory Compliance and Permitting Consultant• Jan Konigsberg, Hydropower Reform Coalition	
4:45pm	Meeting adjourned from BP Energy Center	
5:00pm	AWRA-AK Business Meeting – location TBA	

Thursday, April 1 st		
8:00am	Conference Registration – coffee and juice provided	
8:30am	Summary from AWRA-AK Business Meeting and Ice Roads Conference, Chris Arp, U.S. Geological Survey and Michael Lilly, GW Scientific, Inc.	
Session 4: Hydrologic Modeling in Alaska (Moderator: Jessica Cherry)		
8:45am	Paul Duvoy	Application of Numerical Models to Evaluate Performance of Two Stream Bank Stabilization Techniques
9:05am	Tim Brabets	APPLICATION OF THE USGS MULTI-DIMENSIONAL SURFACE WATER MODELING SYSTEM (MD_SWMS) AT BRIDGE 339, COPPER RIVER
9:25am	Terry Schwarz	Analysis of Select Stream Discharge Models in Southeast Alaska
9:45am	Jessica Cherry	Summary of Hydrologic Modeling in Alaska: a mini-workshop
Coffee Break (plus juice, tea, and snacks)		
Session 5: Stream Habitat Restoration (Moderator: Corinne Smith)		
10:30am	Bob Butera	Westchester Lagoon Channel – Reconnecting Fish from Cook Inlet to Chester Creek
10:50am	Rusty Myers	Salmon Escapement into Chester Creek Before and After Habitat Restoration
11:10am	Alexandre Lai	Streambank protection and restoration techniques used on the Trans Alaska Pipeline System (TAPS)
11:30am	Corinne Smith	Setting Priorities for Restoring Fish Passage
Lunch Break (on your own)		
Session 6: Stream Habitat Research (Moderator: Jeff Conaway)		
1:30pm	Jeff Conaway	Streamflow Hydraulics of a Sheefish Spawning Reach of the Selawik River, Alaska
1:50pm	Alexandre Lai	An assessment of stream bank stabilization techniques using upstream and downstream pointed vane structures.
Coffee Break (plus juice, tea, and snacks)		
2:30pm	AWRA-AK Student Scholarship Award Announcement (Jim Munter)	
Session 7: Glaciers and Water Resources (Moderator: Jeff Conaway)		
2:50pm	Ashley Van Beusekom	Climatic and Dynamic Glacier Mass Balance Components
3:10pm	Louis C Sass III	Dynamic controls on Eklutna Glacier Mass Loss
3:40pm	Meeting adjourned to evening poster session	

Thursday, April 1st	
Poster Session – Conoco-Phillips Integrated Science Building University of Alaska Anchorage	
6:30 – 8:30pm	Appetizers and beverages (beer, tea, coffee, and juice provided)
Kirsten Valentine	Climate Signals in Streambed Elevation of Glacial Rivers in Alaska
William Rice	Past, Present and Potential Restoration Actions in Urban Chester Creek, Anchorage, AK
William Rice	An Overview of Culvert Abundance and Condition in South Central Alaska
Jessica Cherry	Coupled atmosphere-snow modeling for tundra travel applications on Alaska's North Slope
Joel Bailey	Lake-level change and water balance analysis of natural and man-made lakes on Alaska's North Slope
Bryce Willems	Training Alaskan Environmental Geologists: Installation of a new well field on the campus of UAA
Sergey Marchenko	Coupled Hydrologic and Thermodynamic Modeling of Permafrost Dynamics: Implications for Northern Peatlands
Rena Bryan	Yukon River Watershed Permafrost
Chris Arp	Beaded stream morphology, regimes, and feedbacks in a lake-rich, permafrost landscape of the Alaskan Arctic Coastal Plain
Megan Cardenas	Seasonal Changes in Stream and Ground Water Geochemistry, Anchorage, Alaska
Nicholas Korzen	Differences in the physical properties of paired glacial and non-glacial rivers in southeastern Alaska
Jessica Dryden Winnestaffer	Chickaloon Native Village Fisheries Program Overview
Ann Marie Larquier	Glacial Influences on Water Resources of the Eklutna Basin, Alaska
Anna Liljedahl	Present and future water balance of an Arctic Coastal Plain wetland: Wetter or drier future soils?
Rena Bryan	An enlightened synopsis of “State of the Arctic Conference”

Friday, April 2 nd		
8:00am	Conference Registration – coffee and juice provided	
8:30am	Region Reports – Jeff Conaway (Southcentral), U.S. Geological Survey; Sveta Berezovskaya (Northern), University of Alaska Fairbanks	
Session 8: Water Resources Research and Management for Alaskan Communities (Moderator: Sue Mauger)		
8:45am	Abhijit Chatterjee	Continuous biosorption of cadmium (II) ions using raw and calcium alginate immobilized protonated citrus peels
9:05am	Mark S. Lockwood	Surface Water Influence and Microbial Vulnerability Study of the Fox Watering Point in Fox, Alaska
9:25am	Kimberly Sager	An Introduction to Alaska’s “Reservation of Water Program”
9:45am	Andrew Kliskey	Applying the Arctic Water Resources Vulnerability Index in Alaskan communities
Coffee Break (plus juice and snacks)		
Session 9: Hydrologic Monitoring and Analysis: Lake, Stream, and River Systems (Moderator: Janet Curran)		
10:35am	Claudette Moore	Continuous Monitoring of Physical Parameters in Southwest Alaska Lakes
10:55am	Sue Mauger	Stream Temperature Monitoring Network for Cook Inlet Salmon Streams
11:15am	Larry Rundquist	The Yukon River flood and River Watch Program
11:35am	Monica McTeague	Landscape level historical analysis of braided river braid plain composition, age, and formation, Matanuska River, Alaska
11:55am	Janet Curran	Evidence of Paleofloods from LIDAR Imagery of the Matanuska River, Alaska
Meeting Adjourned & Announcements		