Program **North American Regional Meeting** **The International Environmetrics Society (TIES)** **Measuring, Monitoring, and Modeling Environmental Resources** **June 15 – 17, 2009** **Corvallis, OR, USA** **Construction and Engineering Auditorium** **LaSells Stewart Center**	
Monday, June 15	
10:00 – 12:00 Workshop on Effectiveness Assessment: A Proposed Case Study in the Coos Bay Watershed	Jon Souder, Executive Director, Coos Watershed Association
12:00 – 1:30 Lunch Break on your own	
1:30 – 2:30 Opening Session	
Welcome and Conference Overview	Don Stevens, President-Elect, TIES
Overview of the Oregon Plan for Salmon & Watersheds	Jeff Rodgers, Conservation and Recovery Monitoring Coordinator, Oregon Department of Fish and Wildlife
2:30 – 3:00 Break	
3:00 – 4:45 Analysis of Stream Networks Organizer and Moderator: Becky Flitcroft	
Patterns of coho salmon size and survival within a stream network	**JL Ebersole**, ME Colvin, PJ Wigington, Jr., SG Leibowitz, KM Burnett, and JC Firman
NetMap: Linking data and streams	**Dan Miller** and Lee Benda
A Moving Average Approach for Spatial Statistical Models of Stream Networks	**Jay M. Ver Hoef** and Erin E. Peterson
Is the Range Parameter a Measure of Patch Size in Headwater Streams?	Nicholas A. Som and **Lisa M. Ganio**
5:30 – 7:00 Opening Reception	
Tuesday, June 16	
7:30 – 8:00 Continental Breakfast	
8:00 – 9:45 Spatio-Temporal Bayesian Hierarchical Models for Environmental Data Organizer and Moderator: Jay Ver Hoef	
Spatial Hierarchical Modeling in Comparing Extreme Precipitation Generated by Regional Climate Models	**Erin M. Schliep,** Daniel Cooley, Stephan R. Sain, Jennifer A. Hoeting
Bayesian Inference for Marine Mammal Telemetry Data: A Continuous-Time Approach	**Devin Johnson** , Josh London , and Carey Kuhn
Simultaneous Cellular Movement Models for Resource Selection	**Mevin Hooten** and Devin Johnson
Issues with Modeling Spatial Ordered Categorical Data	**Megan Higgs**
9:45 – 10:15 Break	

10:15 – 12:00 Relationships between Landscape, Habitat, Stream Condition, and Fish Populations Moderator: Yan Fang	
Goldilocks and the three pools: do juvenile salmon choose habitats that are "just right"?	**Marti J. Anderson** and Russell B. Millar
Addressing redundancy of information in habitat metrics to refine understanding of juvenile-habitat associations for Oregon's coastal coho salmon (Oncorhynchus kisutch)	**Yasmin Lucero**
The effect of uncertainty in monitoring data on status assessments for Snake River Spring/Summer Chinook salmon	**Chris Jordan** ,Darcy Pickard Claire McGrath
A comparison of spatially explicit landscape representation methods and their relationship to stream conditions	**Erin E. Peterson**
12:00 – 1:00 Lunch (provided)	
1:00- 2:45 Session Title: Terrestrial Surveys Moderator: Bianca Eskelson	
Modeling Trends In Vegetation With Ordinal Cover Classes: Implications For Long-Term Monitoring Designs.	**Kathryn M. Irvine** and Thomas J. Rodhouse
Stream temperature standards & timber harvest - How are we doing?	**Jeremy Groom**, Liz Dent, and Lisa Madsen
Relating forest attributes with area-based and tree-based LiDAR metrics for western Oregon	**Michael E Goerndt**,V.J. Monleon & H. Temesgen
How Can We Decide Which Small Stream Map is More Accurate? -Focusing on Sampling Method and Statistical Analysis -	**Joowon Park**, L. Monika Moskal and Jim Fridley
2:45 – 3:15 Break	
3:15 – 5:00 Marine & Estuarine Surveys Moderator: Don Stevens	
A Stratified, Random Sampling Program to Examine Mercury in Small Fish from San Francisco Bay, California	**A.R Melwani**, B. K. Greenfield, and K Harrold,
Two-phase survey design for mapping oceanic sediment condition surrounding two treated wastewater outfalls in San Diego.	**Kerry J. Ritter**, Becky Schaffner, Dawn Olson, Ken Schiff, and Tim Stebbins
Spatial modelling of prawn abundance from large-scale marine surveys using penalised regression splines	**Charis Burridge**, Geoff Laslett and Rob Kenyon
Sampling Headwater Streams for Autocovariance Parameter Estimation	**Nicholas A. Som**, Lisa M. Ganio, and Robert Gresswell
6:00 – 9:00 Conference Banquet at Tyee Wine Cellars	

Wednesday, June 17	
7:30 – 8:00 Continental Breakfast	
8:00 – 9:45 Models for Environmental Data Moderator: Lisa Ganio	
Multispecies Occupancy Models for the Analysis of Metacommunity Dynamics	**Robert M. Dorazio**
Towards an integrated structural model for Oregon Coastal coho.	**Russell Millar** and Marti Anderson
Predictive modeling and mapping sage grouse (Centrocercus urophasianus) nesting habitat using Maximum Entropy and a long-term dataset from Southern Oregon	**Andrew C. Yost**, Steven L. Petersen, Michael Gregg, Richard Miller
Estimating aquatic vegetation occurrence and abundance using the rake sampling method	**Brian R. Gray**, Mark D. Holland, Leigh Ann Harrod Starcevich
9:45– 10:15 Break	
10:15 – 12:00 Landscapes and Coho Salmon Moderator: Lisa Madsen	
Introduction to the Oregon Story: Linking landscapes to coastal coho and habitat.	**D.P. Larsen**, E.A. Steel, K.J. Anlauf , J.C. Firman, D.W. Jensen, K.M. Burnett, K. Christiansen, B.E. Feist
How broad the horizon? Landscape models of adult coho salmon density examined at four spatial extents.	**J.C. Firman**, E.A. Steel, D.W. Jensen, K.M. Burnett, K. Christiansen B.E. Feist, D.P. Larsen and K.J. Anlauf
Comparing riverine landscape models across populations and sampling designs to understand spawning distributions of coho salmon (Oncorhynchus kisutch)	**E.A. Steel**, D.W. Jensen, K.M. Burnett, K. Christiansen, J.C. Firman, B.E. Feist, K.J. Anlauf, and D.P. Larsen
A mechanistic approach to explain the variation in coho salmon (*Oncorhynchus kisutch*) habitat across the landscape	**K.J. Anlauf** , D.W. Jensen, E.A. Steel, K.M. Burnett, K. Christiansen, J.C. Firman, B.E. Feist, and D.P. Larsen
12:00 – 1:00 Lunch (Provided)	
1:00 – 2:15 Monitoring Oregon's Water Quality Moderator: Bill Gaeuman	
Oregon's Water Quality Monitoring Strategy	**Aaron Borisenko**
High Level Indicators of the Water Resources of Oregon's Forested Streams	Shannon Hubler, Sarah Miller, Leslie Merrick, **Robin Leferink,** and Aaron Borisenko
An Innovative Approach to Regional Monitoring and Assessment: The Willamette Basin Rivers and Streams Assessment	**Michael Mulvey,** Robin Leferink, and Aaron Borisenko
2:15 – 2:45 Break	

2:45– 4:30 Rotating Panel Surveys for Status and Trend Moderator: David Dail	
Stratified Rotating Panel Survey With Regression Imputation: A Sampling Strategy for Estimating Total Number of Bald Eagle Nesting Territories in Florida	**Mary C. Christman**
Trend Analysis in the Context of Design Based Sampling of Spatially Distributed Resources	**Bill Gaeuman**
Calculating the power to estimate trend with a linear mixed model for unbalanced data from a panel design	**Leigh Ann Harrod Starcevich**, Andrea M. Heard, Kathryn M Irvine, and Linda S Mutch
Using Imputation to Estimate Trend and Abundance in Coho Salmon Numbers using a Multi-Period Rotating Panel Sampling Design	**Don Stevens**
4:30 – 4:45 Conference Closing Session	