

December 6th, 2019

Ecohydrology Research Symposium

Morning and Afternoon Sessions <i>Everyone welcome – Please register</i>	
8:30 – 9:00	<i>Registration opens (DC 1301)</i>
Opening and Welcoming Remarks (DC 1302) <i>Session Chair: Nancy Goucher</i>	
9:00 – 9:10	Dave Rudolph (Chair, Dep. of Earth and Env. Sciences) Roy Brouwer (Executive Director, Water Institute)
9:10 – 9:20	Fereidoun Rezanezhad, Chris Parsons <i>Overview of the Ecohydrology Research Group (2011-2019)</i>
Session 1: Molecular Processes (DC 1302) <i>Session Chair: Ekaterina Markelova</i>	
9:20 – 9:40	Laurent Charlet , University of Grenoble-Alpes, France <i>Silver nanowires recycling and toxicity</i>
9:40 – 10:00	Christina Smeaton , Memorial University of Newfoundland, Canada <i>Microbial bioenergetics: Bridging the gap between theory and application to biogeochemistry</i>
10:00 – 10:20	Steeve Bonneville , Université Libre de Bruxelles, Belgium <i>Some old fungi stories</i>
10:20 – 10:40	Gernot Nehrke , Alfred Wegener Institute, Germany <i>Solution stoichiometry and calcite growth: Past and present results</i>
10:40 – 11:00	<i>Coffee break (DC 1301)</i>
Session 2: Environmental (Geo)chemistry (DC 1302) <i>Session Chair: Ana Lima</i>	
11:00 – 11:20	Céline Pallud , University of California at Berkeley, USA <i>Temperature effects on iron reduction and dissolved organic carbon export in subalpine wetland soils</i>
11:20 – 11:40	Jean-François Gaillard , Northwestern University, USA <i>Probing the edge for understanding the link between sulfur metabolism and Hg biouptake</i>
11:40 – 12:00	Thilo Behrends , University of Utrecht, The Netherlands <i>Redox reactivity of iron oxyhydroxides in clays</i>
12:00 – 12:10	Lightning Talks , Ecohydrology Research Group <i>Presenters: Ekaterina Markelova, Kunfu Pi, Linden Fairbairn</i>
12:10 – 13:00	<i>Lunch served (DC 1301)</i>

Session 3: The Power of Modelling (DC 1302)

Session Chair: Babak Shafei

13:00 – 13:20	Christof Meile , University of Georgia, USA <i>Tiny multitudes: The challenge of scale in microbial reactive transport models</i>
13:20 – 13:40	Raoul Couture , Laval University, Canada <i>Chasing a moving target: Modelling Arctic lake dynamics under rapid change</i>
13:40 – 14:00	Nandita Basu , University of Waterloo, Canada <i>Nutrient legacies and water quality modelling</i>
14:00 – 14:20	Mayumi Seto , Nara Women's University, Japan <i>Application of bioenergetics in astrobiology and ecology</i>
14:20 – 14:30	Lightning Talks , Ecohydrology Research Group <i>Presenters: Mahyar Shafii, Mehdi Gharasoo, Steph Slowinski</i>
14:30 – 15:00	<i>Coffee break (DC 1301)</i>
Session 4: Biogeochemical Cycles (DC 1302)	
<i>Session Chair: Helen Powley</i>	
15:00 – 15:20	Ivan L'Heureux , University of Ottawa, Canada <i>Stochastic coupling between biogeochemical cycles and orbital forcing during the late Quaternary</i>
15:20 – 15:40	Homa Kheyrollah Pour , Wilfrid Laurier University, Canada <i>Remote sensing in ecohydrology</i>
15:40 – 16:00	Anniët Laverman , University of Rennes, France <i>Nitrate reduction rates related to organic matter quality and quantity in riparian wetland sediments</i>
16:00 – 16:20	Taylor Maavara , Yale University, USA <i>Buckets and hoses: Using simple mechanistic box models to answer big biogeochemical questions</i>
16:20 – 16:30	Lightning Talks , Ecohydrology Research Group <i>Presenters: Rute Pinto, Tamara Van Staden, Nady Kao</i>
16:30 – 17:15	Ecohydrology Research Group Lab Tour <i>Limited spaces available – please sign-up at registration desk</i>

Evening Keynote Lecture

University of Waterloo Faculty Club

By invitation only

17:30 – 18:30	Reception
18:30 – 18:40	Welcoming Remarks: Carla Korestky , Western Michigan University, USA
18:40 – 19:10	Keynote Lecture: Carl Steefel , Lawrence Berkeley National Laboratory, USA <i>Reactive transport modeling at the crossroads</i>
19:10 – 19:20	Final Remarks: Philippe Van Cappellen
19:20 – 21:30	Dinner