

Agenda

Sunday, April 21, 2013	
5:00pm-7:00pm	Registration, Poster Session 1 Setup and Light Social.....2nd Floor
Monday, April 22, 2013	
7:30am-8:30am	Morning Continental.....Grand Ballroom A
7:30am-5:30pm	Registration Open
8:30am-9:00am	Welcome and Opening Remarks.....Grand Ballroom BC
Session 1 - Energy Storage in Geologic Formations and Biofuel Production Implications for Water Quality Moderator: Colin Johnston, CSIRO Perth	
9:00am-9:25am	Keynote: Avner Vengosh -- Shale Gas Development and Hydraulic Fracturing Impacts on Groundwater Quality
9:30am-9:45pm	Sebastian Bauer -- Transient Heat Storage in Shallow Aquifers: Small Scale Changes of the Flow Field and Groundwater Geochemistry
9:45am-10:00am	Pierre Jamin -- Coupling Heat and Salt Tracing Experiments for the Estimation of Heat Transfer and Solute Transport Parameters
10:00am-10:15am	Christof Beyer -- Influence of Heat Storage on Biodegradation at Contaminated Sites
10:15am-10:45am	AM Beverages.....Grand Ballroom A
Session 2 - Aquifer Recharge and Aquifer Storage and Recovery Impacts on Groundwater Quality Moderator: Philipp Blum, Karlsruhe Institute of Technology	
10:45am-11:10am	Keynote: Henning Prommer -- Model-Based Identification And Quantification Of Groundwater Quality Changes During Managed Aquifer Recharge
11:15am-11:30am	Gernot Klammler -- Modeling Coupled Unsaturated and Saturated Nitrate Distribution of the Aquifer Westliches Leibnitzer Feld, Austria
11:30am-11:45am	Andreas Musolf -- Groundwater-driven Water and Solute Fluxes from an Intensively Managed Catchment
11:45am-12:00pm	Jiansheng Chen -- Leakage Water from Tibet Plateau Discharge Arid Areas in Northern China
12:00pm-1:30pm	Lunch provided.....Grand Ballroom D

Monday, April 22, 2013 (continued)	
Session 3 - Water Quality at the Groundwater-Surface Water Interface Moderator: Michael Rivett, University of Birmingham	
1:30pm-1:55pm	Keynote: Mario Schirmer -- River Restoration with Complex Hydrological and Ecological Interactions
2:00pm-2:15pm	Samuel Diem -- Dynamics of Oxygen Consumption during Bank Filtration: A New Modeling Approach
2:15pm-2:30pm	Kathleen Rugel -- Physiochemical Heterogeneity at Multiple Scales in a Groundwater-dependent Stream, Lower Flint River Basin, Southwestern GA, USA
2:30pm-2:45pm	Maria Loinaz -- Integrated Flow and Temperature Modeling at the Catchment Scale
2:45pm-3:00pm	John Rayner -- Near-marine Dynamics and Attenuation of Petroleum Compounds in Groundwater Discharge
3:00pm-3:30pm	PM Beverages
3:30pm-3:45pm	Tian Fei Chen – Is Depth-Dependent Temperature and Salinity in a Desert Lake Indicating Groundwater Discharge
3:45pm-4:00pm	Manisha Tripathi -- Hydro-geochemistry of Groundwater in the Middle Valley of Western Ramganga River, Kumaun Lesser Himalaya, India
4:00pm-4:15pm	Lazarus Leonhard -- Quantity or Quality – Management Challenges in Addressing Changes in the Gascoyne River Alluvial System
4:15pm-4:30pm	Ming Ye -- ArcNLET: An ArcGIS-based Software for Estimation of Nitrogen Load from Septic Systems to Surface Water Bodies
4:30pm-4:45pm	Discussion
5:00pm-6:30pm	Poster Session I – Grand Ballroom A

8th IAHS International Groundwater Quality Conference (GQ13)

Tuesday, April 23, 2013	
7:30am-8:30am	Morning Continental
7:30am-5:30pm	Registration Open
Session 4 - Ecological Links with Groundwater Quality Moderator: Roger Gonzalez-Herrera, University of Yucatan	
8:30am-8:55am	Keynote: Poul Bjerg -- Linking Groundwater Contamination and Stream Water Quality: Scientific and Regulatory Challenges
9:00am-9:15am	David Kaplan -- Shallow Groundwater Salinity in a Coastal Floodplain Forest Impacted by Saltwater Intrusion
9:15am-9:30am	Ursula McKnight -- Sources and Effects of Pesticides Impacting Stream Ecosystems
9:30am-9:45am	Tom Frazer -- Deterioration of Florida's Spring Systems: Causes and Consequences
Session 5 - Non-aqueous Phase Liquids (LNAPLs and DNAPLs): Characterization Moderator: Brad Patterson, CSIRO Perth	
9:45am-10:00am	T. Prabhakar Clement -- NAPL Contamination of Beach Environment- Lessons Learned from Deep Water Horizon Oil Spill
10:00am-10:15am	Mette Martina Broholm -- Characterization of DNAPL Source Zone Architecture in Clay Till and Limestone Bedrock by Innovative and Current Site Investigation Techniques
10:15am-10:45am	AM Beverages
10:45am-11:00am	Colin Johnston -- Checking the Crystal Ball – Verifying Predictions of Contaminant Flux Pumped from a Brominated Solvent DNAPL Source Zone
11:00am-11:15am	Olivier Atteia -- LNAPL Transmissivity Characterization and Follow-Up along a Remediation Project
11:15am-11:30am	Paulo Casado -- Fate of a Mixed Organic Plume until a Local Discharge Area within a Glacial Sediments and Sedimentary Rock Aquifer
11:30am-11:45am	Min-Ying Chu -- Contaminant Sequestration into Low Permeability Layers – Beauty and the Beast
12:00pm-1:00pm	Lunch provided

Tuesday, April 23, 2013 (continued)	
Session 6 - Emerging Chemicals of Concern Moderator: Jim Langenbach, Geosyntec	
1:00pm-1:15pm	Aline Henzler -- Modeling the fate of Micropollutants during River Bank Filtration, Berlin
1:15pm-1:30pm	Bryony Anderson -- Zeta Potential Homogeneity in Redbed Continental Sandstones
1:30pm-1:45pm	Clayton Clark, II -- Enhanced ZVI Degradation of Groundwater Contaminants
1:45pm-2:00pm	Victoria Burke -- Laboratory Studies on the Redox-Sensitive Degradation of Various Pharmaceutical Residues in Groundwater
2:00pm-2:30pm	PM Beverages
Session 7 - Urban Groundwater Systems Moderator: Ilse Van Keer, VITO Mol, Belgium	
2:30pm-2:45pm	Philipp Blum -- Natural and Anthropogenic Triggers for Subsurface Urban Heat Islands
2:45pm-3:00pm	Michael Rivett -- The Birmingham Aquifer System, UK: A Changing Resource
3:00pm-3:15pm	Julie Gesels -- A Combined Hydrochemical, Isotopic and Multivariate Statistics Approach for Pollutant Source Identification in a Regional Aquifer
3:15pm-3:30pm	Martin Bloemendal -- Optimal and Sustainable Aquifer Thermal Energy Storage
3:30pm-4:15pm	Keynote: David Rudolph -- <i>Darcy Lecture: Managing Groundwater beneath the Agricultural Landscape</i>
4:15pm-4:30pm	Discussion
5:00pm-6:30pm	Poster Session II (Co-Sponsored by the UF Water Institute) – Grand Ballroom A

8th IAHS International Groundwater Quality Conference (GQ13)

Wednesday, April 24, 2013	
7:30am-8:30am	Morning Continental
7:30am-5:30pm	Registration Open
Session 8 - Non-aqueous Phase Liquids (LNAPLs and DNAPLs): Remediation Moderator: Rick Devlin, University of Kansas	
8:30am-8:55am	Keynote: Tissa Illangasekare -- Vapor Intrusion from Entrapped NAPL Sources and Groundwater Plumes- Factors Contributing to Uncertainty
9:00am-9:15am	David Reynolds -- Electrokinetic-enhanced Amendment Delivery for Remediation of Low Permeability and Heterogeneous Materials: Results of the First Field Pilot
9:15am-9:30am	James Erickson -- In-situ Geochemical Stabilization (ISGS) Remediation of Former Creosote DNAPL Source Areas at a Superfund Site
9:30am-9:45am	Violaine Ponsin – Enhancement of Natural Attenuation of Crude Oil in a Pristine Aquifer by Nutrients: Microcosm Study
9:45am-10:00am	Patrick Höhener -- Enhancement Of Natural Attenuation Of Crude Oil In A Pristine Aquifer By Nutrients: Field Results And Modeling
10:00am-10:15am	Charles Paradis -- Laboratory Assessment of Enhanced Anaerobic Benzene Biodegradation
10:15am-10:45am	AM Beverages
Session 9 - Geogenic Groundwater Contaminants Moderator: Clayton Clark, Florida A&M University	
10:45am-11:00am	Olivier Atteia -- Combining a Sedimentary Approach and Mass Transport Modeling at the Well Scale to Understand the Origin of Fluorite in a Complex Multi-layer Aquifer
11:00am-11:15am	Micòl Mastrocicco -- Elevated Geogenic Arsenic Mobility in Agricultural Saline Soils
11:15am-11:30am	Marge Uppin -- Lithological Influences on Occurrence of Elevated Fluoride and Boron Levels in Groundwater
11:45am-1:15pm	Lunch provided

Wednesday, April 24, 2013 (continued)	
Session 10 - Improved Management of Legacy Contaminated Sites Moderator: Ursula McKnight, Technical University of Denmark	
1:15pm-1:30pm	Jim Langenbach -- Improved Management/ Remediation of Legacy Contaminated Sites through High-resolution Characterization
1:30pm-1:45pm	Sebastian Schädler -- Design and Evaluation of Mixed Landuse Options for Sustainable Brownfield Redevelopment
1:45pm-2:00pm	Ehsan Rasa -- Impacts of Ethanol-blended Fuels Release on Groundwater Aquifers and Fate of Produced Methane: Simulation of Field Observations
2:00pm-2:15pm	Daniel Hunkeler -- Factors Controlling Groundwater Quality and Contaminant Dynamics in Alluvial Aquifers at the Regional Scale
2:15pm-2:30pm	Jose F. Martel-Valles -- Agronomic Use of Produced Water on Tomato Plants (<i>Solanum lycopersicum</i> Mill.) under Greenhouse Conditions
2:30pm-2:45pm	Philip Binning -- The Use of Models to Determine the Impact of Pumping on Pesticide Contamination of Groundwater
2:45pm-3:15pm	PM Beverages
Session 11 - Groundwater Quality Under Development Demands Moderator: Michael Brooks, USEPA	
3:15pm-3:45pm	Keynote: Suresh Rao -- Unsustainable Groundwater Exploitation: Converging Constraints & Stochastic Regime Shifts
3:45pm-4:00pm	Ying Ouyang – Estimating Impacts of Land Use upon Groundwater Quality Using the Trilinear Analysis Technique
4:00pm-4:15pm	Georg Houben -- Effects of High-intensity No-till Agriculture on Groundwater Quality, Capiibary Catchment, SE Paraguay
4:15pm-4:30pm	Harald Klammler -- Estimation of Contaminant Mass Discharge at Plume Control Planes
4:30pm-4:45pm	Discussion
5:00pm-6:30pm	Poster Session III – Grand Ballroom A
7:00pm-9:00pm	Optional Off-Site Conference Dinner (Advance Registration Required)

Thursday, April 25, 2013	
7:30am-8:30am	Morning Continental
7:30am-5:30pm	Registration Open
Session 12 - Coastal Aquifer Groundwater Quality Challenges Moderator: Prabhakar Clement, Auburn University	
8:30am-8:45am	Selva Marimuthu -- Brackish and Saline Groundwater Treatment: Opportunities in Regions with Climate Variability and Freshwater Shortages
8:45am-9:00am	Tania Röper -- Formation of a Barrier Island and Underlying Freshwater Lenses (Spiekeroog, Germany)
9:00am-9:15am	Bill Hu -- Numerical Study on Tide-driven Submarine Groundwater Discharge and Seawater Recirculation in Heterogeneous Aquifers
9:15am-9:30am	Roger Gonzalez-Herrera -- Groundwater Contamination in Puerto Morelos, Mexico
9:30am-9:45am	Nicolò Colombani -- Density Driven Transport Modeling of 1,2-DCA in a Coastal Aquifer
9:45am-10:00am	Matthew Wissler -- The Determination of Geochemical Controls on Arsenic, Gross Alpha and Radium 226/228 in a Coastal Mixing Zone
10:00am-10:15am	Rick Copeland -- Development of a Regional Groundwater Level and Salinity Index for the Upper Floridian Aquifer, Florida, USA
10:15am-10:45am	AM Beverages
Session 13 - Groundwater Quality, Uncertainty, and Chemical Distribution in Complex Geologic Settings Moderator: Daniel Hunkeler, University of Neuchatel	
10:45am-11:00am	Lindsay McMillan -- Uncertainties in Sample Origin Due to Ambient Vertical Flows during Low-flow Sampling
11:00am-11:15am	Michael Brooks -- Mass Discharge Measurement Uncertainty under Simplified Conditions
11:15am-11:30am	Massimo Rolle -- The Role of Diffusion and Compound-Specific Mixing for Contaminant Transport in Groundwater
11:30am-11:45am	Juliana Camillo -- Discrete Fracture Network (DFN) Approach to Characterize Bedrock Contamination at a Former Dry Cleaner Site
11:45am-12:00pm	Stephen Leharne -- What Effects Do Surfactants Have upon Soil Properties?
12:00pm-1:15pm	Lunch provided

Thursday, April 25, 2013 (continued)	
Session 14 - New Measurement Methods for Quantity and Quality Moderator: Mette Broholm, Technical University of Denmark	
1:15pm-1:45pm	Keynote: Kirk Hatfield -- Characterizing Contaminant and Water Flux in Fractured Rock Systems
1:45pm-2:00pm	Ilse Van Keer -- CMF Approach: In situ Contaminant Mass Flux Approach
2:00pm-2:15pm	Rick Devlin -- Testing the KIM approach to Granular Iron Characterization with a Model and Surface Chemistry Analysis
2:15pm-2:30pm	Peter Bayer -- A New Step-wise Procedure for 3D Hydraulic Tomography Inversion
2:30pm-2:45pm	Valentin Wagner -- Determination of Aquifer Properties by the Thermal Response Test
2:45pm-3:00pm	Bradley Patterson -- Rate Limiting Factors for Aerobic Vapor Degradation of Organic Contaminants in the Vadose Zone
3:00pm-4:00pm	Panel Discussion & Closing
Friday, April 26, 2013 (Post Conference)	
8:30am-5:00pm	Optional Technical Tour -- Bus Departs from Holiday Inn Hotel at 8:30am