# **SWIM Agenda**

### Sunday, June 22, 2008

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6:00pm-8:00pm	Early Bird Social & Poster setup, Registration Open

## Monday, June 23, 2008

7:00am-5:00pm	Conference Registration Open
7:30am-8:30am	Morning Refreshments
8:30am-9:00am	Welcome & Announcements - Christian Langevin, Meeting Organizer, and Others
General Session I:	Case Studies in Salt Water Intrusion
9:00am-9:25am	Assessing Well Field Impacts on Water Quality in the Upper Floridan Aquifer in Southwest Florida - Terry Bengtsson (Featured Speaker)
9:25am-9:40am	Modeling of Historical Evolution of Salt Water Distribution in the Phreatic Aquifer in and around the silted up Zwin Estuary Mouth (Flanders, Belgium) - Luc Lebbe
9:40am-9:55am	Assessment of Groundwater Resources by a Seawater Intrusion  Mathematical Model in the Rmel Coastal Aquifer (Morocco) - Alex Chang
9:55am-10:10am	Dynamic Groundwater Equilibrium during a Base Level Drop: The Dead Sea Case - Yael Kiro
10:10am-10:40am	Refreshment Break
General Session II:	Case Studies in Salt Water Intrusion, continued
10:40am-10:55am	Simulation of Processes Controlling Migration of Saline Water and Brine above a Flooded Salt Mine in Western New York, USA - Richard Yager
10:55am-11:10am	A Case Study of Finite-Element Numerical Modeling on Salt Water Intrusion for the Ping-Tung Plain - Jing-Yea Yang
11:10am-11:25am	Salt Water Intrusion in the Shallow Aquifers of Venice - Eloisa Di Sipio
11:25am-11:40am	Vulnerability Assessment of Groundwater Aquifer due to the Construction of the City Tunnel in Malmö, Sweden - Kenneth M Persson
11:40am-12:10pm	Cancelled
12:10pm-1:25pm	Lunch in Sunset Terrace
General Session III:	: Management of Coastal Aquifers
1:25pm-1:50pm	An Assessment of the Impact of Geologic Heterogeneity on Predictions of Seawater Intrusion in Coastal Aquifers - Whitney Trainor (Featured Speaker)
1:50pm-2:05pm	Artificial Recharge of Fresh Water in the Belgian Coastal Dunes - Alexander Vandenbohede
2:05pm-2:20pm	Management of the lao and Waihee Aquifer Areas With the Aid of a 3-D Numerical SUTRA Model, Maui, Hawaii - Stephen Gingerich
2:20pm-2:35pm	Pumping of Brackish and Saline Water in Coastal Aquifers: An Effective Tool for Alleviation of Seawater Intrusion - Mohsen Sherif
2:35pm-2:50pm	Managing Seawater Intrusion Using Multiple-depth Monitoring Wells - Wes Danskin
2:50pm-3:05pm	Field Validation of Simulation-Optimization Model for Protecting Excessive Pumping Wells - Namsik Park
3:05pm-3:35pm	Refreshment Break

### Monday, June 23, 2008 (continued)

General Session IV: Variable Density Flow and Transport Modeling	
3:35pm-3:50pm	Benchmarks for Two- and Three-Dimensional Variable-Density Ground-Water Flow Simulators: Analytical Expressions for Unstable Convection - Clifford Voss
3:50pm-4:05pm	Solute Extraction in Variable Density Flow: Shock Wave Driven Transport Compared to Pumping - Shaul Sorek
4:05pm-4:20pm	Use of Image Analysis to Develop New Benchmarking Datasets for Variable Density Flow Scenarios - Rohit Goswami
4:20pm-4:35pm	Modeling of the Potential for Vertically Downward Saltwater Migration from a Dredge Pond - Peter Andersen
4:35pm-4:50pm	Freshwater-Saltwater Mixing Zone in Coastal Aquifers: Biased vs. Reliable Monitoring - Eyal Shalev
4:50pm-5:05pm	Simulation of Coastal Wastewater Injection in Hawaii using SUTRA, and the Value of Compelling Visualizations in Conveying Results to the Non-Specialist Public - Charles D Hunt, Jr.
5:30pm-7:30pm	Welcome Reception on Ocean Lawn

## Tuesday, June 24, 2008

7:00am-5:00pm	Conference Registration Open		
7:30am-8:30am	Morning Refreshments		
General Session V:	General Session V: Submarine Groundwater Discharge & Field Studies		
8:30am-8:55am	Analytical Benthic Flux Model Forced by Surface-Water Waves: Application to the South Atlantic Bight, USA - Jeffrey King (Featured Speaker)		
8:55am-9:10am	Mechanisms Driving Submarine Groundwater Discharge and Associated Radium Flux: Implications for Use of Radium as a Tracer - Holly Michael		
9:10am-9:25am	The Role of Fresh and Saline Submarine Groundwater Discharge in Nutrient Contribution to Coastal Seawater, Dor Bay (Israel) - Yishai Weinstein		
9:25am-9:40am	Global Land-Ocean Linkage: Direct Inputs of Water and Associated Nutrients to Coastal Zones via Submarine Groundwater Discharge (SGD) - Hans H. Dürr		
9:40am-9:55am	Causes of Borehole Flow and Effects on Vertical Salinity Profiles in Coastal Aquifers - Delwyn Oki		
9:55am-10:10am	Characterization of Local Rainwater Lenses in Agricultural Areas with Upward Saline Seepage: Monitoring Results - Perry de Louw		
10:10am-10:40am	Refreshment Break		

### Tuesday, June 24, 2008 (continued)

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<b>General Session VI</b>	: Field Studies of Salt Water Intrusion
10:40am-10:55am	Altered Hydroperiod and Saltwater Intrusion in the Bald Cypress Swamps of the Loxahatchee River - David Kaplan
10:55am-11:10am	Cancelled
11:10am-11:25am	An Investigation of Groundwater Flow on a Coastal Barrier using Multi Electrode Profiling - Søren Erbs Poulsen
11:25am-11:40am	Pumping Test Analyses in an Aquifer with Fresh Water/Salt Water Interface - Liliana Cecan
11:40am-11:55am	Assessing the Extent of Saltwater Intrusion in the Aquifer System of Southern Baldwin County, Alabama - Dorina Murgulet
11:55am-12:10pm	Freshwater Lens Development on Padre Island, Texas - Egon Weber
12:10pm-1:25pm	Lunch in Sunset Terrace
<b>General Session VI</b>	I: Parameter Estimation
1:25pm-1:50pm	Incorporating Initial Conditions in the Model Calibration Process - John Doherty (Featured Speaker)
1:50pm-2:05pm	Saltwater Intrusion and Hydraulic Conductivity Estimation in East Baton Rouge Parish, Louisiana - Frank Tsai
2:05pm-2:20pm	General Guidance Concerning Inverse Modeling Techniques and Value of Field Data Types for Seawater Intrusion Simulation - Clifford Voss
2:20pm-2:35pm	Efficient Calibration of Seawater Intrusion Models - Juan José Hidalgo
2:35pm-2:50pm	Calibration of a Density-Dependent Groundwater Flow Model of the Lower West Coast Floridan Aquifer System - Jorge Restrepo
2:50pm-3:05pm	Saltwater/Freshwater Interface Movement in Response to Deep-Well Injection in a Coastal Aquifer - Alyssa Dausman
3:05pm-3:35pm	Refreshment Break
General Session VI	II: Geochemistry
3:35pm-4:00pm	Chemical and Isotopic Evidence for Seawater Intrusion – Examples from the Coastal Aquifers of the Mediterranean and the Dead Sea - Yoseph Yechieli (Featured Speaker)
4:00pm-4:15pm	Base Exchange Indices as Indicators of Salinization or Freshening of (Coastal) Aquifers - Pieter Jan Stuyfzand
4:15pm-4:30pm	Use of Geochemical Tools to Study Groundwater Salinization in Volcanic Islands: a Case Study in the Porto Santo (Portugal) and Santiago (Cape Verde) Islands - Maria Teresa Condesso de Melo
4:30pm-4:45pm	Geochemistry of Phosphorus in a Carbonate Aquifer Affected by Seawater Intrusion - Rene Price
4:45pm-5:00pm	Time Scale of Water-Rock Interaction Processes in the Fresh-Saline Water Interface of Coastal Aquifers - Amos Russak
5:00pm-5:15pm	Utilizing Stable Isotopes ( <sup>2</sup> H, <sup>18</sup> O) to Better Identify Different Water Types of the Floridan Aquifer System in Southwest Florida - Ed Rectenwald
5:30pm-7:00pm	Poster Presentations & Social
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## Wednesday, June 25, 2008

### Thursday, June 26, 2008

7.00 5.00	0, 2000
7:00am-5:00pm	Conference Registration Open
7:30am-8:30am	Morning Refreshments
General Session IX:	Variable Density Flow & Transport Modeling
8:30am-8:55am	Variable Density Flow and Transport in Tsunami Impacted Coastal Aquifers: Laboratory Investigations in Homogeneous Saturated Porous Media - Meththika Vithanage (Featured Speaker)
8:55am-9:10am	The Delayed Effects of Variable Density Flow on Flow and Heads in Fresh Groundwater - Frans Schaars
9:10am-9:25am	Experimental Mapping of the Saltwater/Freshwater Mixing Zone - Elena Abarca
9:25am-9:40am	Virginia Ground Water Withdrawal Permitting Program – Modeling for Resource Management - Roberta Patton
9:40am-9:55am	A Saltwater Upconing Model to Evaluate Wellfield Feasibility - Gregory Council
9:55am-10:10am	Dispersive Behavior of the Mixing Zone between a Shallow Freshwater Lens and Upward Seeping Saline Groundwater - Sara Eeman
10:10am-10:40am	Refreshment Break
General Session X: Impacts of Increased Water Demand, Optimization Modeling, & Case Studies	
10:40am-10:55am	Brackish Groundwater as a New Resource for Drinking Water, Specific Consequences of Density Dependent Flow, and Positive Environmental Consequences - Theo Olsthoorn
10:55am-11:10am	Analytical Method for Preliminary Management of Pumping and Injection in Coastal Areas - Namsik Park
11:10am-11:25am	Compositional Change of Groundwater Chemistry in the Shallow Aquifer of Small Tropical Island Due to Seawater Intrusion - Ahmad Zaharin Aris
11:25am-11:40am	The Use of Mapping the Salinity Distribution Using Geophysics on the Island of Terschelling for Groundwater Model Calibration - Arjen Kok
11:40am-11:55am	Verifying the Use of Specific Conductance as a Surrogate for Chloride in Seawater Matrices - Robert Mooney
12:10pm-1:25pm	Lunch in Sunset Terrace
General Session XI:	Management of Coastal Aquifers
1:25pm-1:40pm	Salt Water Intrusion Modeling in the Flemish Coastal Plain based on a Hydrogeological Database - Dieter Vandevelde
1:40pm-1:55pm	Management of Coastal Aquifers The Case of a Peninsula State of Qatar - Nauman Rashid
1:55pm-2:10pm	<b>Evaluating Safe Yield for Supply Wells in an Aquifer with Fresh Water / Salt Water Interface -</b> <i>Gregory Nelson</i>
2:10pm-2:25pm	Saltwater Intrusion Monitoring in the Biscayne Aquifer near Florida City, Miami-Dade County, Florida: 1996-2007 - Christopher Peters
2:25pm-2:40pm	<b>Dynamics of Negative Hydraulic Barriers to Prevent Seawater Intrusion</b> - <i>María Pool</i>
2:40pm-2:55pm	Alternative Approaches for Water Extraction in Areas Subject to Saltwater Upconing - David Tarbox
3:05pm-3:35pm	Refreshment Break
3:35pm-4:00pm	Seawater Intrusion in Australia - A National Perspective of Future Challenges - Adrian Werner (Featured Speaker)

## Thursday, June 26, 2008 (continued)

4:05pm-6:00pm	Planning for 2010 & 2012 SWIMs
6:00pm-7:00pm	Dinner on Own
7:00pm-9:00pm	PEST Fest*

#### Friday, June 27, 2008

7:00am-12Noon	Conference Registration Open
7:30am-8:30am	Morning Refreshments
<b>General Session XII</b>	: Variable Density Flow & Transport Modeling
8:30am-8:55am	Salinization by Free Convection in Heterogeneous Aquifers: Results from a Numerical Modeling Study - Vincent Post (Featured Speaker)
8:55am-9:10am	An Assessment Tool for Aquifer Storage and Recovery in Stratified Coastal Aquifers - Mark Bakker
9:10am-9:25am	Tidal Effects on Transient Dispersion of Simulated Contaminant Concentrations in Coastal Aquifers - Ivana La Licata
9:25am-9:40am	The Influence of Three-Dimensional Dune Topography on Salt Water Intrusion in Marina Romea, Italy: A Numerical Modeling Study Using LIDAR data - Pauline Mollema
9:40am-9:55am	Simulations of the Dynamics of Surface Water-Groundwater Interactions in a Coastal Environment During a 25-Year/72-Hour Storm - William Hutchings
9:55am-10:10am	Numerical Modeling of a Salinity Intrusion Barrier: Saltwater Intrusion Prevention System - Charles Tate
10:10am-10:40am	Refreshment Break
General Session XII	I: Effects of Sea Level Rise & Climate Change & Geophysics
10:40am-10:55am	Impacts of Climate Change on the Coastal Groundwater Systems in The Netherlands - Gualbert Oude Essink
10:55am-11:10am	Climate Change Impact in a Shallow Coastal Mediterranean Aquifer, at Saïdia, Morocco - Júlio Carneiro
11:10am-11:25am	An Investigation into Control of Saltwater Intrusion Considering the Effects of Climate Change and Sea Level Rise - Hany Abd-Elhamid
11:25am-11:40am	Time Domain Electromagnetic Induction and High Resolution Electric Resistivity Soundings to Map Salt Water Intrusion in Coastal Sandy Aquifers, Los Angeles County, California - Ted Johnson
11:40am-11:55am	Large-scale Geoelectrical Measurements to Investigate a Buried Valley and its Interaction to Deep Saltwater Intrusion - Joern Schuenemann
11:55am-12:10pm	Evolution of the Marine Intrusion Using Geophysical Methods after 25 Years in the Motril-Salobreña Aquifer (Southern Spain) - Carlos Duque
12:10pm	Wrap up Conference - Meeting Organizer
12:10pm-1:25pm	Lunch in Sunset Terrace