

Sunday, September 8						
7:30 AM - 8:30 AM	Pre-Congress Workshop Registration					
8:30 AM - 5:00 PM	Pre-Conference Workshop: Real Time Control					
2:00 PM - 6:00 PM	Registration					
5:00 PM - 7:00 PM	Networking Reception @ Exposition Hall					
Monday, September 9						
7:30 AM - 3:30 PM	Registration					
8:00 AM - 8:30 AM	Continental Breakfast					
8:30 AM - 10:00 AM	Welcome Address/ Opening Plenary Wayne Huber, Eric Strecker, Dr. Jeff Bradley, Dr. Forrest Holly, Dr. Bernard Chocat Protecting the Environment: An Investment in our Economy. Not a Deterrent, Erik Sten, Portland City Commissioner & Sound Science an Community Engagement in Watershed Restoration, Mary Wahl, Manager.					
10:00 AM - 10:30 AM	Refreshment Break					
10:00 AM - 3:30 PM	Exhibition Hall Open					
10:30 AM - 12:00 Noon	A1: BMPs - CSO Hydraulic Devices Moderator: Ken Elbert, Pacific Water Resources, Inc., Improving Water Quality using Hydrodynamic Vortex Separators and Screening Systems, Beaverton, OR Presentations: Robert Y. G. Andoh, Hydro International, PLC, North Somerset, UK, Stephen P. Hides, Hydro International, Portland, ME & Adrian J. Saul, University of Sheffield, Sheffield, UK Combination of Computational Techniques - Evaluation of CSO Efficiency for Suspended Solids Separation Jaroslav Pollert & David Stránský Stormwater Control using Storage and Networking Techniques Y. Funayama, Tokyo metropolitan Government, Tokyo, Japan & M. Shinkawa, K. Takagi & O. Ishizuka, Nihon Suiko Sekkei Co., Ltd., Tokyo, Japan Verification Testing of High-Rate Mechanical Induction Mixers for Chemical Disinfectants Mary K. Stinson, US Environmental Protection Agency, Edison, NJ & John E. Schenk, NSF International, Ann Arbor, MI	B1: Modeling/DSS-GIS Modeling Moderator: Steve Swenson, R.W. Beck, Inc., Seattle, WA Presentations: Preparation of an Inundated District Forecast Chart using GIS Data Shigeo Hiramoto, City of Yokohama, Yokohama, Japan & Kaoru Kariya, Tokyo Engineering Consultants Co., Ltd., Tokyo, Japan Decision Support System and Real-Time Control: Integrated Tools for Operation of Large Urban Drainage Network Drew Mihocko, Brian Marengo & George Collier, Philadelphia Water Department, Philadelphia, PA & Edward Speer & Celso Vitasovic, Camp Dresser McKee, Bellevue, WA GIS Based Urban Runoff Modeling Linmei Nie & Wolfgang Schilling, Norwegian University of Science & Technology, Trondheim, Norway & Sveinung Sægro, SINTEF Applied Chemistry, Trondheim, Norway A GIS Non-Point Source Pollution Model for the Las Vegas Valley Marcelo Reginato & Thomas Piechota, University of Nevada, Las Vegas, NV	D1: Stormwater Management - Tools Moderator: John H. Rogers, CH2M Hill, Bellevue, WA Presentations: Creating a Planning Tool for Sustainable Urban Water Resources Management Ulf Thyssel, Malmö Water & Wastewater Works, Malmö, Sweden Urban Stormwater Management Planning in the 21st Century Brett C. Phillips, Ph.D., & Geoffrey Thompson, XP Software, Inc., Portland, OR A Simple Method for Life-Cycle Cost Assessment of Water Sensitive Urban Design Nicholas Rozis, Bornhorst & Ward Consulting Engineers, Queensland, Australia & Ataur Rahman, Queensland University of Technology, Queensland, Australia Information Technologies for Urban Drainage Master Plans Evzen Zeman, Robert Kubý, Tomas Metelka & Karel Pýřil, DHI Hydroinform, Prague, Czech Republic	G1: Precipitation - Radar Rainfall 1 Moderator: Peter Stahre, Malmö Water & Waste Water Works, Malmö, Sween Presentations: Radar Rainfall Measurement. Forecasting and Documentation using SCOUT Thomas Einfalt, Einfalt & Hydrotec GBR, Lübeck, Germany & Thomas Zobel, Stadt Aachen, Aachen, Germany Integration of Radar Rainfall into Hydrologic Models Brian C. Hobitt & David C. Curtis, Ph.D., NEXRAIN Corporation, Orangevale, CA Effect of Rainfall Variability on the Hydrological Behaviour of Urban Basins: A Simulation Study Based on Weather Radar Data Florane Morena, Hervé Andrieu & Fabrice Rodriguez, LCPG, Bouguenais, France & Jean-Dominique Creutin, LTHE, Grenoble Cedex, France Interpretation of Radar and Rain Gauge Measurements for Sewer System Modeling Srinivas Vallabhaneni, Camp Dresser & McKee, Cincinnati, OH, Baxler F. Vieux, Vieux & Associates, Inc., Norman, OK	H1: Institutional - Future of Stormwater Management Moderator: David F. Kibler, Virginia Technical University, Blacksburg, VA Presentations: A Current Review of North American Stormwater Management Utilities Robert B. Benson, Black & Veatch Corporation, Kansas City, MO Climate Change, A New Chance for Urban Stormwater Management Eilard Jacobs, City of Amsterdam, Hilversum, The Netherlands Our Use of the Land: Troubling Times and Changing Directions Earl Shaver & Graeme Ridley, Auckland Regional Council, Auckland, New Zealand Urban Drainage and Wastewater Treatment for the 21st Century Robert Y. G. Andoh, Hydro International, plc, Clevedon, UK	
12:00 Noon - 1:30 PM	Lunch on Your Own					
1:30 PM - 2:45 PM	A2: BMPs - Low Impact Development - 1 Moderator: Jill Bicknell, Santa Clara Valley Urban Runoff Pollution Prevention Prog., Sunnyvale, CA Presentations: Green Streets: Innovative Solutions for Stormwater and Stream Crossings Tom Kloster, & Ted Leybold, Metro & Clark Wilson, Community Design & Architecture Enhanced Parking Lot Design for Stormwater Treatment Betty Rushton, Ph.D., Southwest Florida Water Management District, Brooksville, FL Hazard Identification of Rainwater Collected for Reuse Ledin, Technical University of Denmark Compacted Urban Soils Effects on Infiltration and Bioretention Stormwater Control Designs Robert Pitt, P.E., The University of Alabama, Tuscaloosa, AL & Shen-En Chen, P.E. & Shirley Clark, P.E., The University of Alabama, Birmingham, AL	A3: BMPs - CSO Device Modeling Moderator: Tetsuya Kusuda, Kyushu University, Japan Presentations: Assessment of the Effectiveness of Stormwater Treatment Chambers using Computational Fluid Dynamics Michael G. Faram, Hydro International, North Somerset, UK & Robert Harwood, Fluent Europe Ltd., Sheffield, UK CSO Modeling Strategies using Computational Fluid Dynamics Robert Harwood, Fluent Europe Ltd., Sheffield, UK Numerical Simulation of the Performance of a Hydrodynamic Separator Yukihiko Okamoto & Makoto Kunugi, NKK Corporation, Tsu City, Japan & Hiroshi Tsuchiya, NKK Corporation, Tokyo, Japan Design of Stormwater Structures with Special Regard to Sedimentation Processes Bernhard Rietsch, Thomas Buer & Joachim Dettmar, Aachen University, Aachen, Germany	C1: CSO & SSO - Infiltration/Inflow Moderator: Charles Rowney, Camp Dresser & McKee, Inc., Maitland, FL Presentations: Temporal Variation of Infiltration Inflow in Combined Sewer Systems Handjörg Brombach & Gebhard Weiss, UFT Umwelt- & Fluid-Technik Dr. H. Brombach GmbH, Bad Mergentheim, Germany & Steffen Lucas, University of Karlsruhe, Karlsruhe, Germany Modeling Infiltration/Inflow using a Disaggregated Stochastic Process Charles D. Morris, Ph.D., P.E., University of Missouri, Rolla, MO & Kurtis Eisenbath, E.I. Crawford, Murphy & Tilly, Inc., St. Louis, MO Assessing Infiltration Flow-Rates into Sewers Claude Joannis, LCPG, Bouguenais Cedex, France, Jean-François Commaille, SCE, Nantes Cedex, France & Bruno Dupasquier, Communauté d'Agglomération du Grand Angers, Angers, France Control Strategy for Storm-Generated Sanitary-Sewer Overflows Richard Field & Thomas P. O'Connor, US Environmental Protection Agency, Edison, NJ	D2: Stormwater Management - General Moderator: James Collins, Tetra Tech, Inc., Fairfax, VA Presentations: Making More Sustainable Decisions for Asset Investment in the Water Industry - Sustainable Water Industry Asset Resource Decisions - The SWARD Project R. Ashley, H. Smith & H. Gouda, University of Bradford, D. Blackwood, C. Oltean-Dumbrava, D. Gilmour, W. Samson, S. Hendry & J. Moir, University of Abertay Dundee, Dundee, UK, D. Butler, T. Foxon & M. Leach, Imperial College of Science, Technology & Medicine, London, UK, P. Jowitt, G. Mollikenny & S. Cavill, Heriot-Watt University, Edinburgh, Scotland, J. Davies, Coventry University, Coventry, UK, N. Souter, Keep Scotland Beautiful, Sterling, Scotland & F. Bouchart, University of Calgary, Calgary, Ontario, Canada Comparative Environmental Risk Assessment of the Operation of Auckland's City Drainage System Matthew D. Davis, Metro Water Ltd., Auckland, New Zealand, Mels Barton & Eric Darbyshire, Wombats Environmental, Waitakere City, New Zealand & Onno Ursem, Digital Consultants, Remuera, New Zealand A Scenario for the Modernization of Urban Drainage Shoichi Fujita, Dr.Eng., Tokyo Metropolitan Government, Tokyo, Japan	G2: Precipitation - Radar Rainfall 2 Moderator: Thomas Einfalt, Einfalt & Hydrotec GbR, Denmark Presentations: Managing Urban Watersheds with the Use of NEXRAD Radar Virtual Rain Gages - The Miami-Dade County Experience Marc P. Walch, P.E., PBS&J, Orlando, FL & Peter Jelonak, Miami-Miami-Dade Water & Sewer Department, Coral Gables, FL Radar-Based Rainfall Input Requirements: Synthesis of US and French 10 Years Experience G. Jacquet, RHEA, Inc., Barrington Hills, IL & E. Piatydzek & S. Lyard, RHEA SA, Nanterre, France Evaluation of Gauge Adjusted Radar for Rainfall Measurement in RDII Programs Patrick Stevens, ADS Environmental Services, Marcos Lopez, Earth Tech & Guy Jacquet, RHEA, Inc., Barrington Hills, IL Impacts of Rainfall Data on Model Refinement in the Greater Pittsburgh Area Terry J. Meenehan, P.E., Mark D. Loehlein, E.I.T.,	
3:00 PM - 3:30 PM	Afternoon Tea					
3:30 PM - 5:00 PM	A4: BMPs - Low Impact Development - 2 Moderator: Shaw L. Yu, University of Virginia, Charlottesville, VA Presentations: Methodology for Finding the Optimal Mix of On-Site and Off-Site Wet-Weather Controls James P. Heaney, University of Colorado, Boulder, CO The Limitations of Mitigation-Based Stormwater Management in the Pacific Northwest and the Potential of a Conservation Strategy Based on Low Impact Development Principles Christopher W. May, University of Washington, Poulso, WA & Richard R. Horner, University of Washington, Seattle, WA Case Study in Simulating the Effectiveness of Low Impact Development Techniques for Protecting Stream Corridors Krista Reininga, P.E. & Ane MacDonald, R.G., URS Corporation Performance of Three Sustainable Urban Drainage Systems in East Scotland W. Schlüter, A. Spitzer & C. Jeffries, University of Abertay Dundee, Dundee, Scotland	B2: Modeling/DSS - Decision Support/Miscellaneous Moderator: Katsuyoshi Ishizaki, Nagasaki University, Nagasaki City, Japan Presentations: Towards Assessing Sewer Performance and Serviceability using Knowledge Based Systems R. A. Fenner & G. Saward, University of Hertfordshire, Hertfordshire, UK Decision Support System for Flood Control Facility Planning Based on Inundation Simulation and Flood Damage Estimation Utilizing GIS Masaru Morita, Shibaura Institute of Technology, Tokyo, Japan & Takayuki Fukuda, University of Tokyo, Tokyo, Japan Multiphase Modeling and the Prediction of Retention Efficiency in a Side Weir CSO David Burt, Rost Consulting Engineers Ltd, Bristol, England, Mick Corton & David Hetherington, United Utilities, Warrington, UK and Dr. David Balmforth, Montgomery Watson, West Wakefield, England Dutch Approach to High Speed Urban Drainage Modeling with SOBEK Klas-Jan van Heeringen, Adri Verwey & Edward Melger,	E1: Urban Streams: Colorado Stream Experience Moderator: Ben Urbonas, Denver Urban Drainage and Flood Control District, Denver, CO Presentations: Restoring Denver Area Streams and Gulches Mark R. Hunter, P.E. & Cindy L. Thrush, P.E., Urban Drainage & Flood Control District, Denver, CO Restorative Maintenance of the South Platte River in the Denver Metropolitan Area Bryan W. Kohlenberg, P.E. & Ken A. MacKenzie, P.E., Urban Drainage & Flood Control District, Denver, CO Major Stream Restoration Projects in the Denver Metropolitan Area David W. Lloyd, P.E. & Paul A. Hindman, P.E., Urban Drainage & Flood Control District, Denver, CO The Reclamation of the South Platte River Three Decades Later Jeff Shoemaker, The Greenway Foundation, Denver, CO & Ben Urbonas, P.E., Urban Drainage & Flood Control District, Denver, CO	G3: Precipitation: Rainfall Analysis 1 Moderator: Don Carpenter, Lawrence Technological University, Southfield, MI Presentations: Monte Carlo Tests of Robustness of the PCSWMM Algorithm for Storm Direction and Speed William James, University of Guelph, Guelph, Ontario, Canada Rainfall Temporal Patterns for Urban Drainage Design in Southern Quebec Van-Thanh-Van Nguyen & Nelly Peyron, McGill University, Montreal, Quebec, Canada & Gilles Rivard, Aquapraxis, Inc., Laval, Quebec, Canada Moving Design Storms for Combined Sewer Systems Guido Vaes, Patrick Willems & Jean Berlamont, University of Leuven, Leuven, Belgium Two Neural Networks for Generation of High Resolution Long-Term Storm Rainfall Compared to Omsbee's Method: Case Study for Toronto Ingmar Wending, Technical University of Darmstadt, Darmstadt, Germany & William James, University of Guelph,	S1: Portland Wet Weather Moderator: Dawn Hottenroth, City of Portland, Portland, OR Presentations: Stormwater Management Assessment and Integrated Strategy for North Macadam District, Portland, Oregon Kathi Futornick, Limno-Tech, Inc., Roberta Jortner & Charles Sellers, City of Portland, Portland, OR, Gail Boyd, URS Greiner Corporation, & John Echlin, SERA Architects Foundations of Portland's Explicit Hydrologic and Hydraulic Model David Collins, P.E., David J. Collins Engineering, Portland, OR & Joe Hoffman, P.E. & Arnel Mandliag, P.E., City of Portland, Portland, OR Portland's CSO Program Modeling: Reflecting the City's Priorities for CSO and Stormwater Pollutants using Real Time Controls Virgil Adderly, P.E. & Arnel Mandliag, P.E., City of Portland, Portland, OR Ecoroofs (Greenroofs) - A More Sustainable Infrastr	
8/22/2002 10:55 AM	Oregon Museum of Science & Industry Reception					
6:00 PM - 8:30 PM						
Tuesday, September 10						
7:30 AM - 3:30 PM	Registration					
8:00 AM - 8:30 AM	Continental Breakfast					

8:30 AM - 10:00 AM	<p>A5: BMPs - Treatability</p> <p>Moderator: Jiri Marsalek, National Water Research Institute, Ontario, Canada</p> <p>Presentations: Influence of Chemistry, Hydrology and Suspended Solids on Partitioning of Heavy Metals to Particles - Considerations for In-Situ Control of Urban Stormwater Quality Donald Glenn, III, Ph.D., Dingfang Liu, Ph.D. & John Sansalone, Ph.D., Louisiana State University, Baton Rouge, LA</p> <p>The Role of Stormwater BMPs in Mitigating the Effects of Nutrient Overenrichment in the Urban Watershed Marie O'Shea, Michael Borst & Christopher Nietch, US Environmental Protection Agency, Edison, NJ</p> <p>Characteristics of Suspended Particles in a Small Stormwater Pond Thomas J. R. Pettersson, Massachusetts Institute of Technology, Cambridge, MA</p> <p>Influence of Analytical Method, Data Summarization Method and Particle Size on Total Suspended Solids Removal Efficiency</p>	<p>C2: CSO & SSO - Modeling</p> <p>Moderator: Hiroaki Hurami, University of Tokyo, Tokyo, Japan</p> <p>Presentations: Study on Stormwater Control Effect Estimation Method of Various Facilities by the Use of Runoff Simulation Wataru Ohnami & Takashi Shindo, City of Yokohama, Yokohama, Japan & Kaoru Lariya & Iwao Tobe, Tokyo Engineering Consultants Co., Ltd., Tokyo, Japan</p> <p>Computer Model Analysis for Mitigation Planning of Sanitary Sewer Overflows Fu-hsiung Lai, US Environmental Protection Agency, Edison, NJ</p> <p>Integrated Modeling of CSO Impacts in Large Urban Areas David Balmforth, Ph.D., Montgomery Watson Harza, Wakefield, UK, Chris Barker, Leeds, UK & Peter Myerscough, Yorkshire Water Services, Bradford, UK</p> <p>Sewer System Modeling in the District of Columbia Srinivasan Rangarajan, Ph.D., P.E., Limno-Tech, Inc., Washington, DC, Monir Chowdhury, Ph.D., P.E., Advanced Engineering, PC, John F. Cassidy, P.E., Greely & Hansen, LLC & Mohsin Siddique, D.Eng., P.E., DC Water & Sewer Authority, Washington, DC</p>	<p>D3: Stormwater Management - Case Studies 1</p> <p>Moderator: Sally Gutierrez, US EPA, Cincinnati, OH</p> <p>Presentations: Effects of Stormwater Infiltration on the Water Balance of an Urban Area Patricia Goebel, Ph.D. & Wilhelm G. Coldewey, Ph.D., University of Muenster, Muenster, Germany, Stefan Fach & Wolfgang F. Geiger, Ph.D., University of Essen, Essen, Germany & Holger Kories, Deutsche Montan Technologie GmbH, Essen, Germany</p> <p>Development of a Planning Tool for the Hong Kong Harbour Area Treatment Scheme Peter J. Baldwin, Environmental Protection Department, Wan Chai, Hong Kong, George Hare & Amanda McKeivitt, Montgomery Watson Harza, Newcastle upon Tyne, UK & Steven Nye & Soyun Punyadasa, Montgomery Watson Harza, Causeway Bay, Hong Kong</p> <p>Summer Strategy for Stormwater Treatment in the Puget Sound Watershed Gary R. Minton, Ph.D., P.E., Resource Planning Associates, Seattle, WA, Mark Blosser, P.E., City of Olympia, Olympia, WA & Mel Schaefer, Ph.D., P.E., MGS Engineering Consultants, Lacey, WA</p> <p>Changing Water Management in Urban Renewal in the Netherlands: Ecological Modernization through a Participative Strategy</p>	<p>E2: Urban Streams - Stream Restoration 1</p> <p>Moderator: Larry Roesner, Colorado State University, Fort Collins, CO</p> <p>Presentations: Preliminary Channel Design: Blue River Reach Enhancement in Kansas City Vincent S. Neary, Tennessee Tech University, Cookeville, TN & Nic Korte, Consultant, Grand Junction, CO</p> <p>"Forensic" Analysis of Cause-Effect Relation between Hydrologic Processes and Bank Erosion in Urbanized Watersheds Paul Wisner, Ph.D., P.Eng., Wisner Hydrology Consulting, Toronto, Ontario, Canada, Raffi Bedrosyan, P.Eng., City of Toronto, Toronto, Ontario, Canada & Frank Fisl, P.Eng., WaterCom Engineering, Toronto, Ontario, Canada</p> <p>Influence of Extended Detention BMPs and Traditional Flood Controls in the Flow Frequency Curve of Urban Runoff Seth M. Nehrke, Johnson, Mirmiran & Thompson Engineering, Baltimore, MD & Larry A. Roesner, P.E., Colorado State University, Fort Collins, CO</p> <p>Limited Flow Acceleration - A Measure for Reduction of Hydraulic Stress from Storm Flows into Rivers and Creeks</p>		<p>G4: Precipitation - Rainfall Analysis 2</p> <p>Moderator: William James, University of Guelph, Ontario, Canada</p> <p>Presentations: Assimilating a Multitude of Rainfall and Runoff Data using a Stochastic State Space Modeling Approach Morten Grumm, Poul Harremoes & Jens Jørgen Linde, PH-Consult, Charlottenlund, Denmark</p> <p>Application of Laguerre Polynomials to the Simulation of Rainfall at Mawson Lakes Kathrine Rosenberg, John Boland & Phil Howlett, University of South Australia, Mawson Lakes, Australia</p> <p>Estimation of Rainfall Heterogeneity across Space and Time Scale K. Umakhanthan & James E. Ball, The University of New South Wales, Manly Vale, New South Wales, Australia</p> <p>An Annual Rainfall Model: Why, When and How? Christophe Zobrist, Vivendi Water Anjou Recherche, Saint-Maurice Cedex, France, Nathalie</p>	
10:00 AM - 10:30 AM	Refreshment Break						
10:00 AM - 3:30 PM	Exhibition Hall Open						
10:30 AM - 12 Noon	<p>A6: BMPs - Low Impact Development 3</p> <p>Moderator: Neil Weinstein, The Low Impact Development Center, Inc., Beltsville, MD</p> <p>Presentations: Sustainable Urban Drainage Systems: A UK Perspective Robert Y. G. Andoh, Hydro International, PLC, Cleveland, UK & Kenneth O. Iwugo, University of Bristol, Bristol, UK</p> <p>Low Impact Development: Smart Technology for Clean Water Larry S. Coffman, Prince George's County Department of Environmental Resources Programs & Planning Division, Largo, MD</p> <p>Modeling Non-Directly Connected Impervious Areas in Dense Neighbourhoods Wayne C. Huber & LaMarr Cannon, Oregon State University, Corvallis, OR</p> <p>Urban Stormwater Management and Water Sensitive Urban Design in Australia Tony H. F. Wong, CRC for Catchment Hydrology, Victoria, Australia</p>	<p>B3: Modeling/DSS - Model Calibration</p> <p>Moderator: David Pomaville, Fresno Metro. Flood Control District, Fresno, CA</p> <p>Presentations: Investigation of Model Complexity and Structure on the Calibration Process Kyung-sook Choi & James E. Ball, The University of New South Wales, Sydney, New South Wales, Australia</p> <p>Implementation in PCSWMM using Genetic Algorithms for Auto Calibration and Design Optimization W. Robert C. James, Computations Hydraulics Int., Guelph, Ontario, Canada & Benny Wan & William James, University of Guelph, Guelph, Ontario, Canada</p> <p>Bayesian Computation of Model Parameters for Decision Making in Sewer Management Hans Korving, François Clemens, Jan van Noordwijk & Pieter van Gelder, Delft University, Delft, The Netherlands</p> <p>SWMM Calibration using Genetic Algorithms Benny Wan & William James, University of Guelph, Guelph, Ontario, Canada</p>			<p>E3: Urban Streams - Stream Restoration 2</p> <p>Moderator: Mike Clair, Tetra Tech, Inc., Laurel, MD</p> <p>Presentations: A Healthy Stream from a Silted-In Pond George Drake, P.E., URS Corporation, Portland, OR, Terry Chamberlin, P.E., Clean Water Services, Hillsboro, OR & Dennis O'Connor, Portland, OR</p> <p>Restoration of Springbrook Creek in Lake Oswego, Oregon Robert L. Doneker, Oregon Graduate Institute, Portland, OR, Bruce A. Henderson, Henderson Land Services, LLC, Lake Oswego, OR & Andrew Harris, City of Lake Oswego, Lake Oswego, OR</p> <p>Natural Development of Rivers H.W. Patt, Ph.D., University of Essen, Essen, Germany</p> <p>Physical Habitat Analysis and Design of In-Channel Structures on a Chicago, IL Urban Drainage: A Stream Naturalization Design Process John S. Schwartz, Edwin E. Herricks, Jose F. Rodriguez, Bruce L. Rhoads, Marcelo H. Garcia & Fabian A. Bombardelli, University of Illinois, Urbana, IL</p>	<p>F1: Monitoring: Particulate Characterization</p> <p>Moderator: John Sansalone, Louisiana State University, Baton Rouge, LA</p> <p>Presentations: Size Distribution and Partitioning of Urban Pollutants Muthukumaran Muthukaruppan, University of Melbourne, Melbourne, Australia, Francis Chiew, Monash University, Victoria, Australia & Tony H. F. Wong, Cooperative Research Center for Catchment Hydrology, Australia</p> <p>Suspended Particles in Urban Stormwater Ponds: Physical, Chemical and Toxicological Considerations J. Marsalek, National Water Research Institute, Burlington, Ontario, Canada & B. C. Anderson & W. E. Watt, Queen's University, Kingston, Ontario, Canada</p> <p>Heavy Metal Partitioning to Particles in Snow Exposed to Urban Traffic John Sansalone, Donald W. Glenn III & Kim Howerter, Louisiana State University, Baton Rouge, LA</p> <p>Transport and Treatment of Entrained Particulate Matter from Elevated Transportation Infrastructure by Rainfall Runoff J. Tramonte, F. Cartledge & J. Sansalone, Louisiana State University, Baton Rouge, LA & M. Tittlebaum, University of</p>	<p>G5: Precipitation - Rainfall Estimation</p> <p>Moderator: Habb Matin, Pacific Water Resources, Inc., Beaverton, OR</p> <p>Presentations: Integrated Simulation of Urban Wastewater Systems - How Many Rainfall Data do We Need? Manfred Schütze, Institute for Automation & Communication, Barleben, Germany & Patrick Willems & Guido Vaes, Katholieke Universiteit Leuven, Heverlee, Belgium</p> <p>Design Rainfall for Combined Sewer System Calculations: Comparison Between Flanders and the Netherlands Guido Vaes, Patrick Willems & Jean Berlamont, University of Leuven, Heverlee, Belgium & François Clemens, Delft University of Technology, Delft, The Netherlands</p> <p>Quicksan Climatic Change and Urban Drainage Harry van Luijtelaar, Tauw bv, Deventer, The Netherlands & Albert H. Dirkwager, Institute for Inland Water Management & Wast Water Treatment, Lelystad, The Netherlands</p>
12:00 Noon - 1:30 PM	Lunch on Your Own						
1:30 PM - 2:45 PM	<p>A7: BMPs - Wetlands</p> <p>Moderator: Betty Ruston, S.W. Florida Water Mgmt. Dist., Brooksville, FL</p> <p>Presentations: A Study on the Use of Constructed Wetlands for Treatment of Municipal Wastewater During Summer and Rainy Seasons in a Semi-Arid City in India K. V. Jayakumar & M. N. Dandigi, Regional Engineering College, Warangal, India</p> <p>Environmental Restoration and Management of a Significant Urban Wetland Robyn Sim, Nimal Chandrasena & Leonard Pinto, Sydney Water Corporation, Rockdale, New South Wales, Australia</p> <p>Integrating Stormwater Management and Wetland Mitigation in the "Front Yard" of the Intel Ronier Acres Campus in Hillsboro, Oregon David Whitaker & Steve Mader, CH2M HILL, Portland, OR & Dave Elkin & Mike Faha, Green Works, P.C., Portland, OR</p> <p>Recent Advances in Stormwater Treatment by Constructed Wetlands in Australian Practices Toy H. F. Wong, Monash University, Victoria, Australia &</p>	<p>B4: Modeling/DSS - Specialized Modeling</p> <p>Moderator: Dean Franz, Perteet Engineering, Inc., Everett, WA</p> <p>Presentations: Modeling an Urban Drainage System with Large Tailwater Effects under Extreme Rainfall Conditions Anthony W. Holder, Eric J. Stewart & Phillip B. Bedient, Ph.D., Rice University, Houston, TX</p> <p>Modeling a Pressurized Wastewater System, A Case Study A. Chan & L. N. N. Jayasuriya, RMIT University & R. Vass & A. Pugh, Earth Tech Engineering Pty. Ltd.</p> <p>Controlling Stormwater Runoff with Tradable Allowances for Impervious Surfaces Goddard</p> <p>Real Time Optimization of the No Flooding/ No CSO Binorium: The Barcelona Sewer Network Case Maria Salameró & Isabel Escaler, Sewerage Mixed Company of Barcelona, Barcelona, Spain & Gabriela Cembrano, Joseba Quevedo, Vicenç Puig & Jaume Figueras, Universitat Politècnica de Catalunya, Spain</p>	<p>C3: CSO & SSO - Assessment 1</p> <p>Moderator: Mary Stinson, US EPA, Edison, NJ</p> <p>Presentations: Surface Load as a Predominant Factor for CSO Efficiency Gert Luyckx, Guido Vaes & Jean Berlamont, University of Leuven, Heverlee, Belgium</p> <p>US EPA CSO Capstone Report: Control System Optimization Thomas P. O'Connor & Richard Field, P.E., US Environmental Protection Agency, Edison, NJ</p> <p>CSO: State-of-the-Art Review Adrian J. Saul, University of Sheffield, Sheffield, UK</p> <p>An Integrated Approach for Combined Sewer System and Sequencing Batch Reactor Plant J. Wiese, K. Klepiszewski, J. Hansen & T. G. Schmitt, University of Kaiserslautern, Kaiserslautern, Germany</p>		<p>E4: Urban Streams - Urban Stream Impacts</p> <p>Moderator: John Doerfer, Denver Urban Drainage, Denver, CO</p> <p>Presentations: One-Side Dike Yoichi Takeuchi, Kawasaki Geological Engineering Co., Ltd, Tokyo, Japan, Kyoza Suga, Utsunomiya University, Chiba-ken, Japan & Mitsuo Takezawa, Nihon University, Tokyo, Japan</p> <p>Thermal Enrichment of Stream Temperature from Urban Storm Water Rizwan ul Haq & William James, University of Guelph, Guelph, Ontario, Canada</p> <p>Urban Drainage System Impacts from the Cerro Grande Wildfire T. Andrew Earles, Kenneth R. Wright & Thomas E. Langan, Wright Water Engineers, Inc., Denver, CO</p> <p>Ecological Risk Assessment of Small Urban Streams Jana Nábělková, Gabriela Štátná, Dana Komínková & Zdena Handová, CTU in Prague, Prague, Czech Republic</p>	<p>F2: Monitoring - Pollutant Characterization</p> <p>Moderator: Michael Barrett, University of Texas, Austin, TX</p> <p>Presentations: Profile Analysis of Polycyclic Aromatic Hydrocarbons and Heavy Metals in Size-Fractionated Highway Dust and the Runoff Samples Hiroaki Furumai, Rupak Kumar Aryal & Fumiyuki Nakajima, University of Tokyo, Tokyo, Japan</p> <p>Evaluating the First Flush and Process Selection Methodology for Urban Storm Water Particulate Matter Chad M. Cristina & John J. Sansalone, Louisiana State University, Baton Rouge, LA</p> <p>Development of a Pollutant Load Algorithm (for Sydney) Rudy Van Drie, Balance Research & Development, Kiama, New South Wales, Australia</p> <p>Aggregation of Stormwater Particulates - Suspended Particle Gradations and Settling Column Analysis Hong Lin, Luke Wall & John J. Sansalone, Louisiana State University, Baton Rouge, LA</p>	
3:00 PM - 3:30PM	Afternoon Tea						

3:30 PM - 5:00 PM	<p>A8: BMPs - Ponds</p> <p>Moderator: Bill Leif, Snohomish County Surface Water Management, Everett, WA</p> <p>Presentations: Monitoring Spatial and Temporal Changes in Stormwater Quality through a Series of Treatment Trains: A Case Study Golden Pond, Brisbane Margaret Greenway, Nicole Le Muth & Graham Jenkins, Griffith University, Brisbane, Australia</p> <p>The Relation between Stormwater and Sediment Quality in Stormwater Ponds Jonas German & Gilbert Svensson, Chalmers University of Technology, Göteborg, Sweden</p> <p>Rainwater Tanks Are Less Efficient Than Detention Basins For CSO Abatement Henrik Sonderup, Jens Jørgen Linde, Soren Gabriel, Hedeselskabet Miljø & Energi as, and Peter Steen Mikkelsen, Environment and Resources DTU, Technical University of Denmark, Lyngby, Denmark</p> <p>Development of a BMP Research and Demonstration Park Robert G. Traver, Ph.D., P.E., Villanova University, Villanova, PA</p>	<p>B5: Modeling/DSS - Receiving Water Quality Modeling</p> <p>Moderator: James T. Smullen, CDM, Inc. Mid Atlantic Division, Edison, NJ</p> <p>Presentations: Simulating the Fate of Diazinon in Castro Valley Watershed by SWMM C. L. Chen, Systech Engineering, Inc., San Ramon, CA & J. Scanlin & A. Feng, Alameda County Public Works Agency, Hayward, CA</p> <p>Simulation of Suspended Sediment Deposition in an Urban Lake from Storm Runoff Duo Fang & Jurui Yang, Sichuan University, Sichuan, China</p> <p>Water Quality Modeling in Natural Streams Receiving Urban Overflows Marco Maglionico & Chiara Barausse, University of Bologna, Bologna, Italy</p> <p>Substance Flow Analysis of the Stormwater System in Vasastaden, Göteborg (Sweden) Stefan Ahlman & Gilbert Svensson, Chalmers University of Technology, Göteborg, Sweden</p>	<p>C4: CSO & SSO - Assessment 2</p> <p>Moderator: Dennis Lai, US EPA, Edison, NJ</p> <p>Presentations: Model Based Risk Assessment of CSO Induced DO Depletion in Urban Rivers Mikkel Hauger, Jens Jørgen Linde & Peter Steen Mikkelsen, Technical University of Denmark, Lyngby, Denmark & Wolfgang Rauch, University of Innsbruck, Innsbruck, Austria</p> <p>Influence of River Quality Standards on Optimum Storage Volume for the Integrated Urban Wastewater System James K. T. Lau, Binnie, Black & Veatch, Ltd., Redhill, UK, David Butler, Imperial College of Science, London, UK & Manfred Schütze, Institute for Automation & Communication, Barleben, Germany</p> <p>The Use of Reservoir Models for the Assessment of the Input from Combined Sewer Overflows into River Models Guido Vaes, Patrick Willems & Jean Berlamont, University of Leuven, Heverlee, Belgium</p> <p>High Rate Disinfection of Combined Sewer Overflows Izabela Wojtenko, Mary K. Stinson & Richard Field, US Environmental Protection Agency, Edison, NJ</p>	<p>D4: Stormwater Management - Case Studies 2</p> <p>Moderator: Gregg Farris, Snohomish County, Everett, WA</p> <p>Presentations: Programs for the Improvement of Stormwater Quality in Sydney, Australia Monica Buffill, Sydney Water Corporation, Rockdale, Australia</p> <p>Watershed Management: Case Study of a Successful Implementation Tai D. Bui & Alan A. Smith, Weslake, Inc., Hamilton, Ontario, Canada</p> <p>Stormwater Management for a Mumbai Suburb (India) Carsten A. Hauser, University of Karlsruhe, Karlsruhe, Germany & Kapil Gupta, Indian Institute of Technology, Mumbai, India</p> <p>A Study of Impacts and Control of Urban Wet Weather Sources of Pollution on Large Rivers Jason Heath, Alan Vicory & Peter Tennant, Ohio River Valley Water Sanitation Commission, Cincinnati, OH & Carrie Turner, Limno-Tech, Inc., Ann Arbor, MI</p>	<p>E5: Urban Streams - Stream Restoration 3</p> <p>Moderator: Gary Palhegyi, GeoSyntec Consultants, Walnut Creek, CA</p> <p>Presentations: Restoring the Waters* Project: From Vision to Reality Stephen Frost & Nilmini De Silva, Fairfield City Council, Fairfield, New South Wales, Australia</p> <p>Integrated Planning and Implementation of a River Restoration Project Carsten Jakobsen, Jens Jørgen Linde & Ole Fritz Adeler, PH Consult ApS, Charlottenlund, Denmark</p> <p>Urban Stream Restoration using Natural Channel Design Techniques in North Carolina Gregory D. Jennings & Barbara A. Doll, North Carolina State University, Raleigh, NC</p> <p>Assessment and Restoration of Chestnut Branch of Mantua Creek: An Educational Partnership Gordon Williams, John Witthohn & Joseph Orlins, Ph.D., P.E., Rowan University, Glassboro, NJ & Lisa Callahan, Virginia Polytechnic Institute & State University, Blacksburg, VA</p>
6:30 PM	Brew Pub Tour				

Wednesday, September 11					
7:30 AM - 12:30 PM	Registration				
8:00 AM - 8:30 AM	Continental Breakfast				
8:30 AM - 9:15 AM	9ICUD Awards Tribute to Ben C. Yen, by Dr. Shaw Yu, University of Virginia				
9:15 AM - 10:00 AM	ASCE Chow Lecture Jacques Delleur, The Evolution of Urban Hydrology: Past, Present and Future				
10:00 AM - 10:30 AM	Poster Session & Refreshment Break				
10:30 AM - 12:00 Noon	Poster Session Continues & Exposition Hall Open				
1:00 PM - 5:00 PM	<p>Technical Tours: Advanced Wastewater Treatment Technology Columbia Slough Stormwater Treatment & Watershed Restoration Health of Willamette River Tryon & Fanno Creek: Urban Stream Protection & Restoration Sites</p>				
6:30 PM	Wine Tasting				

Thursday, September 12					
7:30 AM - 3:30 PM	Registration				
8:00 AM - 8:30 AM	Continental Breakfast				
8:30 AM - 10:00 AM	<p>A9: BMPs - Infiltration</p> <p>Moderator: Thorikild Hvitved-Jacobsen, Aalborg University, Denmark</p> <p>Presentations: Laboratory Study of Permeable Pavement Systems to Support Hydraulic Modeling J. W. Davies, C. J. Pratt & M. A. Scott, Coventry University, Coventry, UK</p> <p>Performance of Stormwater Infiltration Basins on the Long Term Magali Dechesne, Sylvie Barraud & Jean-Pascal Bardin, URGC Hydrologie Urbaine, Villeurbanne Cedex, France</p> <p>Monitoring and Analysis of Implemented Infiltration System over the Past 20 Years Masahiro Imbe, Hiroyuki Okui & Katsumi Musiaki, Japan Society of Hydrology & Water Resources, Tokyo, Japan, Chiyozi Hashimoto, Japan Society of Civil Engineers, Tokyo</p> <p>Urban Stormwater Infiltration and Soil Drainage Georges Raimbault, Emmanuel Berthier, Marie-Laure Mosin & Claude Joannis, Laboratoire Central des Ponts et Chaussées, Bouguenais, France</p>	<p>B6: Modeling/DSS - Runoff Quality</p> <p>Moderator: Peter Krebs, Dresden University of Technology, Dresden, Germany</p> <p>Presentations: Modeling Substance Flows in Urban Sewer Systems using MATLAB/Simulink Stefan Ahlman & Gilbert Svensson, Chalmers University of Technology, Göteborg, Sweden</p> <p>A Model to Predict the Temporal Distribution of Gross Solids Loading in Combined Sewerage Systems G. J. Digman & K. Spence, Ph.D., Sheffield Hallam University, Sheffield, UK, K. Littlewood, Ph.D. & D. Butler, Imperial College of Science, Technology & Medicine, London, UK, D. J. Balmforth, Ph.D., Montgomery Watson Harza, Wakefield, UK J. Davies, Ph.D., Coventry University, Coventry, UK & M. Schütze, Institute for Automation & Communication Magdeburg e.V., Barleben, Germany</p> <p>Random Coefficient Modelling of Suspended COD in Combined Sewers Morten Grum, PH-Consult, Charlottenlund, Denmark & R. Hans Aalerink, Arcadis Ruimteijkje, Apeldoorn, The Netherlands</p>	<p>F3: Monitoring - Methods</p> <p>Moderator: Roger B. James, Water Resources Management, Orinda, CA</p> <p>Presentations: Uncertainties and Representativity of Measurements in Stormwater Storage Tanks Jean-Luc Bertrand-Krajewski & Jean-Pascal Bardin, URGC Hydrologie Urbaine, Villeurbanne Cedex, France</p> <p>The Selection of Solid-Liquid Separation Processes Based on the Granulometric Characteristics of Urban Snowmelt Particulate Matter Chad M. Cristina, Jarrod C. Tramonte & John J. Sansalone, Louisiana State University, Baton Rouge, LA</p> <p>On Monitoring of Turbidity in Sewers Guy J. R. Henckens, Witteveen+Bos, Deventer, The Netherlands & Robin G. Veldkamp & Tonny D. Schuit, Delft University of Technology, Delft, The Netherlands</p> <p>Adaptation of a New Online Probe for Qualitative Measurements to Combined Sewer Systems Uwe Lorenz & Joachim Dettmar, Aachen University, Aachen, Germany & Nikolaus Fleischmann, Department for Sanitary Engineering & Water Pollution Control, Vienna, Austria</p>	<p>J1: Education & Involvement</p> <p>Moderator: Lynda Ransley, Snohomish County Public Works, Everett, WA</p> <p>Presentations: Historical Perspectives on Urban Drainage Steven J. Burian & Findlay G. Edwards, University of Arkansas, Fayetteville, AR</p> <p>Complexity of Social, Environmental and Technical Aspects of Urban Water Management in the Higher Education Curriculum Eva Csobok, Ph.D., Regional Environmental Center for Central & Eastern Europe, Budapest, Hungary</p> <p>Educational Initiatives for Urban Drainage Modeling and Management Ole Mark, Varaporn Buranautama & Chusit Apirumanekul, Asian Institute of Technology, Pathumthani, Thailand</p> <p>Study on Environmental Pollution Risk Cognition of Urban Residents Akira Sakai, University of Distribution & Sciences, Kobe, Japan & Yasuo Shimizu & Yoshimi Hagharam Kyoto University, Kyoto, Japan</p>	<p>M1: Real Time Control 1</p> <p>Moderator: Hubert Colas, BPR CSO, Quebec, Canada</p> <p>Presentations: RTC of the Sewer System of the City of Vienna - A Project Perspective Lothar Fuchs, Thomas Beeneken, Hans-Reinhard Verworn, Gernot Pfannhauser, Kiril Atanasoff & Albert Steinwender, Institute for Technical Scientific Hydrology, Hannover, Germany</p> <p>Development of Real Time Control for the Shinozaki Pumping Station System in Tokyo Masahiro Maeda & Hiroshi Mizushima, Tokyo Metropolitan Government, Tokyo, Japan & Kazumasa Ro, CTI Engineering Co., Ltd., Tokyo, Japan</p> <p>Analysis of Operational Strategies and Real Time Control in an Urban Sewer Network Thomas Newman, HydroQual, Inc., Mahwah, NJ, Stella Rozelman & Stephane Gibbons, New York City Department of Environmental Protection, New York, NY, Cello Vitasovic, Camp Dresser McKee, Bellevue, WA & Jennifer Kerr, Earth Tech, Victoria,</p>
10:00 AM - 10:30 AM	Refreshment Break				
10:30 AM - 12:00 Noon	<p>A10: BMPs - Porous Pavement & Infiltration</p> <p>Moderator: Georges Raimbault, Laboratoire Central des Points et Chaussées, France</p> <p>Presentations: Performance Assessment of Stormwater Infiltration Strategies: A Multi-Indicator Approach Jean-Pascal Bardin, Sylvie Barraud, Elham Alfakh & Magali Dechesne, URGC Hydrologie Urbaine, Villeurbanne Cedex, France</p> <p>Permeable Pavement Use and Research in Two Sites in Eastern North Carolina Bill Hunt, P.E., North Carolina State University, Raleigh, NC Scott Stevens, P.E., City of Kinston, Kinston, NC & David Mayes, P.E., Storm Water Services, Wilmington, NC</p> <p>Pollution Retention Capability and Maintenance of Permeable Pavements Carsten Dierkes, HydroCon GmbH, Hameln, Germany, Lothar Kuhlmann, natürlichSTEIN GmbH & Co. KG, Hameln, Germany, Jaya Kandasamy, University of Technology, Sydney, Australia & George Angelis, City of Canada Bay, Sydney, Australia</p>	<p>B7: Modeling/DSS - Decision Support</p> <p>Moderator: Kaoru Kariya, Tokyo Engineering Consultants Co., Ltd., Tokyo, Japan</p> <p>Presentations: Benign Urban Water Systems: Optimal Complexity, Asynchronous Learning and User Performance Improvement William James, University of Guelph, Guelph, Ontario, Canada</p> <p>Tools for Analysis and Decision Support for Sewer Networks Gilles Rivard, ing. & Pierre Dupuis, ing., Aquaprxis, Inc., Laval, Quebec, Canada</p> <p>Digital Planning of Wastewater Flows in Amsterdam Harry van Luijelaar, Department of Urban Water & Sewer Systems, Deventer, The Netherlands & Egbert J. Baars, Department of Urban Water & Sewer Systems, Amsterdam, The Netherlands</p> <p>Computer Aided Rehabilitation of Sewer and Stormwater Networks Sveinung Sægrov, SINTEF, Trondheim, Norway & Wolfgang Schilling, Norwegian University of Science & Technology, Trondheim, Norway</p>	<p>H2: Institutional - Community Participation</p> <p>Moderator: Craig Harper, Rogue Valley Council of Governments, Central Point, OR</p> <p>Presentations: Early Public Involvement of User Interests in the Design of Integrated River Development Plans - Experience in the District of Stormarn Thomas Haarhoff, Kreis Stormarn, Bad Oldesloe, Germany</p> <p>Promoting Multiple Public Benefits: Integrating Stormwater Management and Open Space Conservation in Grant's Pass, Oregon Martin Seybold, City of Grant's Pass, Grant's Pass, OR & Greg Stabach, Beth Franklin & Craig Harper, Rogue Valley Council of Governments, Central Point, OR</p> <p>Working with Community Values: Can Local Government Afford to Hold Back the Tide of Public Opinion? Julie Nimmo, Sutherland Shire Council, Sutherland, New South Wales, Australia</p> <p>Community Views on Stormwater Values, Objectives, Issues and Sources of Pollution in New South Wales, Australia Brett C. Phillips, Ph.D., Cardno Wolling (NSW) Pty., Ltd., Gordon, New South Wales, Australia</p>	<p>L1: Hydraulics</p> <p>Moderator: Walt Stein, CDS Technologies, Inc., Morgan Hill, CA</p> <p>Presentations: Algorithms for Pit Pressure Changes and Head Losses in Stormwater Drainage Systems Geoffrey O'Loughlin, Anstad Pty., Ltd., Penhurst, New South Wales, Australia & Bob Stack, Watercom Pty., Ltd., Bexley, New South Wales, Australia</p> <p>Causes and Effects of Culvert Blockage During Large Storms E. H. Rigby & S. Roso, Forbes Rigby Consultants</p> <p>Urban Drainage with Curb Opening Inlets Ali Uyumaz, Istanbul Technical University, Maslak, Istanbul, Turkey</p> <p>Vandoeuvre-lès-Nancy Cedex, France, Nathalie Cencic, Agence de l'Eau Rhine-Meuse, Moulins-lès-Metz, France, Jean-Luc Cecile, Aquametris, Liverdun, France, André Gendron, SAFEGE, Hoenheim, France & Eckart Brockmüller, Zweckverband Kommunale Entsorgung, Saarbrücken, Germany</p>	<p>M2: Real Time Control 2</p> <p>Moderator: Lothar Fuchs, Inst. For Technical & Scientific Hydrology (ITWH), Hanover, Germany</p> <p>Presentations: Real Time Control for Two Communities - Technical and Administrative Aspects Thomas Einfalt, Einfalt & Hydrotec GbR, Lübeck, Germany & Birgit Stöting, FIW, Aachen, Germany</p> <p>Real Time Management and Control of a Drainage System during Rainy Weather in Urban Environment with Reference to the Quality of the Recipient Natural Environment Jean-Pierre Hamon & Thierry Laurans, Syndicat Mixte de l'Agglomération de Metz, Metz, France, Pascal Rocklin, Philippe Pothus & Jean-Pierre Schmitt, International Water Center of Nancy, Vandoeuvre-lès-Nancy Cedex, France, Nathalie Cencic, Agence de l'Eau Rhine-Meuse, Moulins-lès-Metz, France, Jean-Luc Cecile, Aquametris, Liverdun, France, André Gendron, SAFEGE, Hoenheim, France & Eckart Brockmüller, Zweckverband Kommunale Entsorgung, Saarbrücken, Germany</p>
12:00 Noon - 1:30 PM	Lunch on Your Own				

1:30 PM - 2:45 PM	<p>A11: BMPs - Modeling 1</p> <p>Moderator: James E. Ball, University of NSW, New South Wales, Australia</p> <p>Presentations: Analysis of Allotment Based Storage, Infiltration and Reuse Drainage Strategies to Minimize Urbanization Effects Allan G. Goyen, Ph.D., XP Software Pty. Ltd., Belconnen, ACT, Australia, Stephen J. Lees, Ph.D., Upper Parramatta River Catchment Trust, Parramatta, New South Wales, Australia & Brett C. Phillips, Ph.D., Cardno Willing (NSW) Pty. Ltd., Crow's Nest, New South Wales, Australia</p> <p>Urban Runoff Estimation and Optimization of Stormwater Detention Systems - A Case Study for Hyderabad City, India E. Venkata Rathnam, S. Mahammad Abdulla & K. V. Jayakumar, Regioal Engineering College, Warangal, India</p> <p>Stormwater Management of a Sequence of Interconnected Storage Systems Julia Piantadosi, John Boland & Phil Howlett, University of South Australia, Mawson Lakes, Australia</p> <p>Quantifying the Optimum Urban Runoff Pollutant Load Reductions Associated with Various Street and Catchbasin</p>	<p>D5: Stormwater Management - Integrated Master Plans</p> <p>Moderator: Robert Chandler, Seattle Public Works, Seattle, WA</p> <p>Presentations: Development of an Urban Drainage Master Plan According to the New European Regulations Lothar Fuchs, Dorothee Gerighausen & Stefan Schneider, Institute for Technical & Scientific Hydrology, Hannover, Germany</p> <p>A Modern Concept of Integrated Stormwater Management for a Complete River System Ekkehard Pfeiffer, Emschergenossenschaft, Essen, Germany</p> <p>Integrated Planning of Sustainable Stormwater Management in the City of Malmö, Sweden Peter Stahre, Ph.D., Malmö Water & Wastewater Works, Malmö, Sweden</p> <p>The Natural Treatment System Master Plan to Meet Pollutant Loading Limits: Case Study of San Diego Creek, Orange County, California J. Sansalone, Louisiana State University, Baton Rouge, LA & Mary Tittlebaum, University of New Orleans, New Orleans, LA</p> <p>Characteristics of Pollutant Behavior in Accumulation-Runoff Process on a Highway: A Case Study in Meishin Expressway, Japan Atsushi Ichiki, Dept. of Civil and Environmental Systems Eng., Japan, Tomoyuki Shimada, Yachiyo Engineering Co. Ltd., Koichiro Azui & Yasuonri Nagata, Dept. of Civil and Environmental Systems Eng., Risumeikan Univ.</p>	<p>F4: Monitoring - Regional</p> <p>Moderator: J. Bryan Ellis, Middlesex University, London, England</p> <p>Presentations: Evaluation of a Method for the Design of Monitoring Networks in Urban Drainage François Clemens, Delft University of Technology, Delft, The Netherlands</p> <p>Compounds Balance on River-Basin Scale - A Screening Procedure to Develop Programme of Measures Torsten Franz & Peter Krebs, Dresden University of Technology, Dresden, Germany</p> <p>What You Did Not Know about Stormwater Chemistry and Were Afraid to Ask Christopher Dean, Aimee Blazier, Erin Krielow, Frank Catridge & John J. Sansalone, Louisiana State University, Baton Rouge, LA & Mary Tittlebaum, University of New Orleans, New Orleans, LA</p> <p>Characteristics of Pollutant Behavior in Accumulation-Runoff Process on a Highway: A Case Study in Meishin Expressway, Japan Atsushi Ichiki, Dept. of Civil and Environmental Systems Eng., Japan, Tomoyuki Shimada, Yachiyo Engineering Co. Ltd., Koichiro Azui & Yasuonri Nagata, Dept. of Civil and Environmental Systems Eng., Risumeikan Univ.</p>	<p>H3: Institutional - Program Performance</p> <p>Moderator: Joan Lee, Snohomish County Public Works, Everett, WA</p> <p>Presentations: Coping with Complexity in Integrated Urban Water Management Govert D. Geldof, Tauw, Deventer, The Netherlands</p> <p>Tracking Progress in the Stormwater Phase II Program: Measurable Goals Guidance John A. Kosco & Martina Keefe, Tetra Tech, Inc., Mountlake Terrace, WA</p> <p>Performance Indicators for Wastewater Services - On the Way to a Manual of Best Practices and Its Implementation Rafaela Matos, Adriana Cardoso & Patricia Duarte, Laboratório Nacional do Engenharia Civil, Lisboa, Portugal, Richard Ashley, University of Bradford, UK, Alejo Molinari, ETOSS & Andreas Schultz, Emschergenossenschaft, Lippverband, Germany</p> <p>The Increasing Organizational Update of Source Control Approaches for Cost-Effective and Sustainable Stormwater Management Richard McManus, Environment Protection Authority,</p>	<p>I1: Flooding</p> <p>Moderator: Masato Noguchi, Nagasaki University, Nagasaki, Japan</p> <p>Presentations: Storm Water Management Study after Flooding of the South Bronx, New York City, New York R. J. Sands, C. C. Chang & J. M. McDonald, Sverdrup & Parcel Consultants, Inc., New York, NY</p> <p>Flood Forecasting and Management of Underground Spaces Yoshihiro Ishikawa, Hiroshi Morikawa & Masayuki Iida, CTI Engineering Co., Ltd., Tokyo, Japan</p> <p>Experience of Flood Modeling in New South Wales, Australia Jaya Kandasamy & Simon Beecham, University of Technology, Sydney, New South Wales, Australia</p> <p>Analysis of Damages Caused by Increased Sewage During a Heavy Storm Satoshi Kinoshita, Hiroshi Terayama, Yoshikazu Nakayama & Satoshi Maruyama, Nippon Jagesuido Sekkei Co., Ltd., Tokyo, Japan & Yoshiyuki</p>
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3:00 PM - 3:30 PM	Afternoon Tea					
3:30 PM - 5:00 PM	<p>A12: BMPs - Modeling 2</p> <p>Moderator: Mitsuyoshi Zaizen, Takenaka Civil Engineering & Construction Co. Ltd., Tokyo, Japan</p> <p>Presentations: An Experimental and Numerical Study of Infiltration Trenches in Urban Runoff Control Vladimir Camarori Borges de Souza & Joel Avruch Goldenfum, Universidade Federal do Rio Grande do Sul, Porto Alegre-RS, Brazil & Sylvie Barraud, URC Hydrologie Urbaine, Villeurbanne Cedex, France</p> <p>Analysis of the Long-Term Performance of Storage/Release Systems using Linked Watershed-Water Body Modeling Steven J. Burian, University of Arkansas, Fayetteville, AR, Stephan J. Nix, Florida Atlantic University, Boca Raton, FL & S. Rocky Durrans & Robert E. Pitt, The University of Alabama, Tuscaloosa, AL</p> <p>Investigation into the Performance Characteristics of Multi-Outlet Siphonic Roof Drainage Systems G. B. Wright, J. A. Swaffield & S. Arthur, Heriot-Watt University, Edinburgh, Scotland</p> <p>French Drains to Mitigate Groundwater in Residential Areas</p>	<p>B8: Modeling around the World 1</p> <p>Moderator: Lew Rossman, US Environmental Protection Agency, Cincinnati, OH</p> <p>Presentations: Integrated System Sewerage Methodology and Modeling: From Grand Couronne to Berlin M. Zug & L. Gommery, Vivendi Water, Saint Maurice Cedex, France & N. Engel & E. Pawlowski-Reusing, Berliner Wasser Betriebe, Berlin, Germany</p> <p>Confronting Urban Storm Water Modeling Challenges as Part of Military Base Re-Use Marc A. Schulte, P.E. & Thomas A. Grace, RBF Consulting, San Diego, CA</p> <p>Evaluation and Analysis of CSO Control with Storm Water Reservoir in Osaka, Japan Yasuhiko Wada, Kansai University, Osaka, Japan, Hiroyuki Miura, Hiroshima Shudo University, Hiroshima, Japan & Motoi Muraoka, Kyokuto Giko Consultant Co., Ltd., Osaka, Japan</p> <p>Modeling the Interaction between Drainage System, Wastewater Treatment Plant and Receiver Water in Pattaya Beach</p>		<p>D6: Stormwater Management - Case Studies 3</p> <p>Moderator: Bob Storer, Adolffson Assoc., Inc., Portland, OR</p> <p>Presentations: Planning and Design Aspects of Stormwater Quality Management Practices for Tropical Environments Wan Mokhtar Nawang, Perunding w mokhtar, Selangor, Malaysia & Brett C. Phillips, Ph.D. & Robert B. Spry, Cardno Willing (NSW) Pty. Ltd., Crow's Nest, New South Wales, Australia</p> <p>An Integrated Urban Stormwater Program at Salem, Oregon Addresses a Broad Range of Emerging Environmental and Watershed Issues Important to the Pacific Northwest Steve Downs, P.E. & Tom Davis, P.E., City of Salem, Salem, Oregon</p> <p>Regional Storm Water Management in the Bear Creek Watershed Catchin J. Quirby, Rogue Valley Council of Governments, Central Point, OR & Gail B. Boyd, URS Corporation, Portland, OR</p> <p>A Radar Based Flood Alert System Designed for Houston, Texas Philip B. Bedient & Anthony Holder, Rice University, Houston, TX & Baxter E. Vieux, University of Oklahoma, Norman, OK</p>	<p>H4: Institutional - Regulations & Safety</p> <p>Moderator: Mike Milne, Brown and Caldwell, Seattle, WA</p> <p>Presentations: Collision Course - ESA, CWA and Stormwater Robert D. Chandler, Ph.D., Seattle Public Utilities, Seattle, WA</p> <p>Wildlife Protection Law as a Barrier to Sustainable Drainage Wetlands and Pools in the UK and Elsewhere: A Proposal for Legislative Change Alan P. Newman, Diane Whitehouse & Steve J. Smith, Coventry University, Coventry, UK</p> <p>Need for Interdisciplinary Approach for the Prevention of Accidents Involving Children in Stormwater Management Systems Paul Wisner, Ph.D., P.Eng., Wisner Hydrology Consulting, Toronto, Ontario, Canada</p> <p>Urban Drainage Management in Auckland City under the Resource Management Act and Other Legislation Matthew D. Davis, University of California, Davis, CA & Helen Shaw, Metro Water Limited, Auckland, New Zealand</p>	<p>I2: Flooding - Flood Modeling</p> <p>Moderator: Evan Zeman, DHI Hydroinform A.S., Stranice, Czech Republic</p> <p>Presentations: Analysis of Risk Associated to the Urban Runoff Case Study: City of Mendoza, Argentina Leonardo Nania, Universidad de Granada, Granada, Spain & Manuel Gómez & José Dolz, Universidad Politécnica de Catalunya, Barcelona, Spain</p> <p>Damage Assessment for Urban Flooding Axel König & Sveinung Saegrov, SINTEF Water & Wastewater, Trondheim, Norway & Wolfgang Schilling, Norwegian University of Science & Technology, Trondheim, Norway</p> <p>Modelling of Urban Flooding in Bangkok Surajate Boonyaroont, Surat Weesakul & Ole Mark, Asian Institute of Technology, Pathumthani, Thailand</p> <p>Flood Risk Management for Urban Drainage Systems by Simulation and Optimization</p>
6:30 PM	Gala Conference Dinner at Portland Zoo					

Friday, September 13							
7:30 AM - 12 Noon	Registration						
8:30 AM - 10:00 AM	<p>Keynote Addresses: "Full-Fledged Movement on Improvement of the Combined Sewer System in Japan," Dr. Shoichi Fujita, Tokyo Metropolitan Government "Urban Storm Water Practice in Germany," Dr. Hans Brombach, Umwelt- und Fluid-Technik GmbH, Germany</p>						
10:00 AM - 10:30 AM	Refreshment Break						
10:30 AM - 12:00 Noon	<p>A13: BMPs - BMPs</p> <p>Moderator: Xavier Swamikannu, California EPA, Los Angeles, CA</p> <p>Presentations: Facilities for Treatment of Storm Water in Stockholm Knut Bennerstedt, Stockholm Water Co., Stockholm, Sweden</p> <p>The Performance of Vegetated Swales for Urban Stormwater Pollution Control Tim D. Fletcher & Tony H. F. Wong, Monash University, Victoria, Australia & Lucy Peljo, Jodie Fielding & Tony Weber, Brisbane City Council, Albion, Queensland, Australia</p> <p>Making the Point with Pointless Personal Pollution: Stormwater Pollution Abatement in a Shopping Mall, Sydney Australia Peter J. Morison, Upper Parramatta River Catchment Trust, Parramatta, Australia & Taryn Hargans, Green Logic Consulting Pty Ltd., Darlinghurst, Australia</p> <p>Overview of Urban Stormwater BMP Performance Monitoring: A Guidance Manual Marcus M. Quigley, P.E., GeoSyntec Consultants, Boxborough, MA, Eric W. Strecker, P.E., Master Planning</p>	<p>B9: Modeling/DSS - Modeling around the World 2</p> <p>Moderator: Robert Dickinson, CDM, Inc., Tampa, FL</p> <p>Presentations: Long-Term Modeling of Pittsburgh's Nine Mile Run for Ecosystem Restoration Analysis Mitchell C. Heineman, P.E., CDM, Inc., Cambridge, MA & Terry J. Meenehan, P.E., CDM, Inc., Pittsburgh, PA</p> <p>A Simple Expert System for Initial Size Estimation of Detention Basin M. Gómez, H. Sánchez & S. Vázquez, UPC School of Civil Engineering, Barcelona, Spain</p> <p>In Sewer Sediment and Pollutant Transport Models Raf Bouteligier, Guido Vaes & Jean Berlamont, Hydraulics Laboratory KULeuven, Leuven, Belgium</p> <p>Probabilistic Modeling as a New Planning Approach to Stormwater Management Simon Kreikenbaum & Luca Rossi, Swiss Federal Institute for Environmental Science & Technology, Dübendorf, Switzerland, Vladimir Krejci, Hydroconsult Krejci, Uetliburg, Switzerland & Wolfgang Rauch, University of Innsbruck, Innsbruck, Austria</p>		<p>D7: Stormwater Management - Water Re-Use</p> <p>Moderator: Sat Tamaribuchi, The Irvine Company, Newport Beach, CA</p> <p>Presentations: Urban Drainage Management and Eco-Efficient Water Usage and Wastewater Operations for Shenzhen City, SE China J. B. Ellis, D. M. Revitt & Y. H. Dong, Middlesex University, London, UK & J. Ludwig, Wuppertal Institute for Climate, Environment & Energy, Wuppertal, Germany</p> <p>Water Reuse/Recharge Initiatives in Orange County, Florida Muthusamy Krishnamurthy, Stormwater Management Division, Orlando, FL</p> <p>Rehabilitation of Traditional Kanats as a Response to Urban Water Shortage Homayoun Motiee, Ph.D., PWIT, Tehran, Iran & Vahid Ghomaschi, Ph.D., University of Art, Tehran, Iran</p> <p>Urban Runoff: From Waste to Natural Resource Neal Shapiro, City of Santa Monica, Santa Monica, CA</p>		<p>F5: Monitoring - Land Use Characterization</p> <p>Moderator: Mike Stenstrom, University of California at Los Angeles, Los Angeles, CA</p> <p>Presentations: Pollutant Biodegradation Potential on Airport Surfaces D. Michael Revitt & Hernda Garelick, Middlesex University, London, UK & Pater Worrall, Penny Anderson Associates, Derbyshire, UK</p> <p>Litter Pollutograph and Loadograph Masoud Kayhanian, University of California, Davis, CA, Steve Kummerfeldt, URS Corporation, Santa Ana, CA, Lee-Hyung Kim, University of California, Los Angeles, CA, Nancy Gardiner, Brown & Caldwell, San Diego, CA & Kuen Tsay, California Department of Transportation, Sacramento, CA</p> <p>Pollutant Washoff and Loading from Parking Lot Runoff, Cookeville, Tennessee Vincent S. Neary, T. Clinton Neel & Justin B. Dewey, Tennessee Tech University, Cookeville, TN</p> <p>First Flush of Organics in Highway Runoff Lau & Michael K. Stenstrom, PHD, PE, University of California at Los Angeles, Los Angeles, CA</p>	<p>K1: Sewer Processes</p> <p>Moderator: Richard Ashley, University of Bradford, West Yorkshire, United Kingdom</p> <p>Presentations: Performance and Operation of Flushing Devices - Results of a Field and Laboratory Study Joachim Dettmar, Bernhard Rietsch & Uwe Lorenz, Aachen University of Technology, Aachen, Germany</p> <p>Near Bed Solids in Combined Sewers C. Oms & G. Chebbo, Ecole Nationale de Ponts et Chaussées, Marne-La-Vallée Cedex, France, R. Sakrabani, University of Bradford, West Yorkshire, UK, T. McIlhatten, University of Liverpool, Liverpool UK & R. Ashley, Université Libanaise, Beyrouth, Lebanon</p> <p>Field Data on Time and Space Scales of Transport Processes in Sewer Systems Robin Veldkamp, Jeroen Langeveld & François Clemens, Delft University of Technology, Delft, The Netherlands & Guy Henckens, Witteveen + Bos Consultants, Deventer, The Netherlands</p>
12:00 Noon - 1:30 PM	Lunch on Your Own						

1:15 PM - 3:00 PM	A14: BMPs - Evaluation Moderator: Peter Maangarella, GeoSyntec Consultants, Walnut Creek, CA Presentations: A New Stormwater "Source Control" Handbook for Australian Practice: An Outline John R. Argue, University of South Australia Sizing Ratios for Stormwater Treatment Facilities Jean-Luc Bertrand-Krajewski, URGC Hydrologie Urbaine, Villeurbanne Cedex, France & Ghassan Chebbo, CERREVE, ENPC, Marne La Valle Cedex, France Stormwater Treatment Facility Performance Evaluation: A Guidance Document Mark C. Blosser, P.E., City of Olympia, Olympia, WA, Stan Gluba, P.E. & Cynthia Stonick, Washington Department of Ecology, Olympia, WA, Beth Schroyer, P.E., City of Seattle, Seattle, WA, Curtis Nickerson, Taylor Associates, Seattle, WA & Bryan Wiggington, Stormwater Management, Inc., Portland, OR Denver Urban Storm Drainage Criteria Manual Peter D. Waugh, P.E. & Jonathan E. Jones, P.E., Wright	B10: Modeling/DSS - Modeling around the World 3 Moderator: Mitchell C. Heineman, CDM, Inc., Tampa, FL Presentations: Water Quality in Portuguese Pseudo-Separate and Combined Systems: A Conceptual Modeling Approach for Data Comparison Luis Mesquita David, Laboratório Nacional de Engenharia Civil, Lisboa, Portugal A Physically Based Model to Study the Runoff of Soils in the Generation of Urban Flow Rates Emmanuel Berthier, Hervé Andrieu, Jean-Dominique Creutin & Georges Raimbault, Laboratoire Central des Ponts et Chaussées, Bouguenais Cedex, France A Model for Urban Stormwater Improvement Conceptualisation Tony H. F. Wong & Tim D. Fletcher, Monash University, Hugh P. Duncan, Melbourne Water Corporation, John R. Coleman, CSIRO Land & Water & Graham A. Jenkins, Griffith University Urban Wetland Design in Developing Countries Kapil Gupta & C. Rajeswaramma, Indian Institute of Technology, Mumbai, India	F6: Monitoring - Highway Pollution Moderator: Paul R. Wirfs, Oregon Dept. of Transportation, Portland, OR Presentations: Physical and Chemical Characteristics of Urban Roadway Snow Residuals Generated from Traffic Activities D. Glenn III, C. Dean, K. Howter & J. Sansalone, Louisiana State University, Baton Rouge, LA & T. Tribouillard, Ecole Nationale Supérieure d'Hydraulique et de Mécanique de Grenoble, Grenoble, France Behaviour of Polynuclear Aromatic Hydrocarbons, Polynuclear Aromatic Sulphur Heterocycles and Polynuclear Aromatic Ketones during Roof and Road Runoff Thorsten Wachter, University of Kiel, Kiel, Germany & Reimer Hermann, University of Bayreuth, Bayreuth, Germany First Flush Phenomena for Highways: How it can be meaningfully defined. Tony H. F. Wong & Tim D. Fletcher, Monash University, Hugh P. Duncan, Melbourne Water Corporation, John R. Coleman, CSIRO Land & Water & Graham A. Jenkins, Griffith University Urban Wetland Design in Developing Countries Kapil Gupta & C. Rajeswaramma, Indian Institute of Technology, Mumbai, India	L2: Hydraulics - Vortex Separators Moderator: Virgil Adderley, City of Portland, Portland, OR Presentations: The Experimental and Residence Time Distribution Estimation of the Decomposition of Hydrogen Peroxide within a Hydrodynamic Vortex Separator R. M. Alkhattar & D. A. Phipps, Liverpool John Moores University, Liverpool, UK, P. R. Higgins, Arup Water, Leeds, UK & R. Y. G. Andoh, Hydro International, PLC, Clevedon, UK Removal Efficiency of a Combined Sewer Overflow Tank with an Added Vortex Separator in a Combined Sewer System Kai Klepyszewski, Antje Welker & Jürgen Wiese, University of Kaiserslautern, Kaiserslautern, Germany Computational and Experimental Studies of Floc Behaviour in a Vortex Separator M. T. N. Lim, S. W. Lam, R. Amal, B. Cathers & D. Pinson, University of New South Wales, New South Wales, Australia Efficiency of a Vortex Chamber with Horizontal Bottom under Supercritical Flow Katrin M. Motzet & Franz Valentin, Technische Universität	B11: Integration of Models for Urban Wet Weather Flow Management - Panel Moderator: Sri Rangarajan, HydroQual, Inc., Mahwah, NJ Presentations: Integrated Urban Modeling with SOBEK Adri Verwey, WL, Delft Hydraulics, Delft, The Netherlands Catchment Management - Advances in Integrated Catchment Modeling David Fortune, Wallingford Software Ltd. DHI Approach to Integrated Modeling David M. Wood, P.E., P.H., DHI, Inc. Storm Water Management Model (SWMM 5) Lewis Rossman, Water Supply and Water Resources Div., U.S. Environmental Protection Agency
3:10 PM - 3:40 PM	Closing Session				
3:20 PM - 3:50 PM	Afternoon Tea				