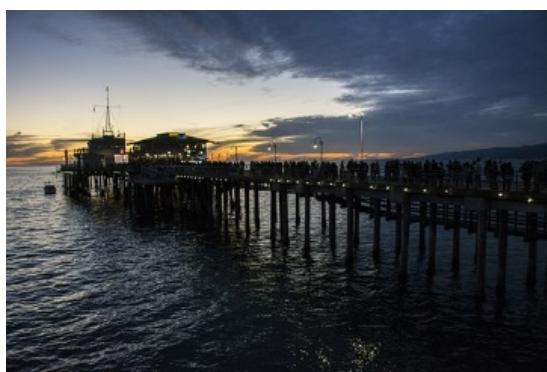
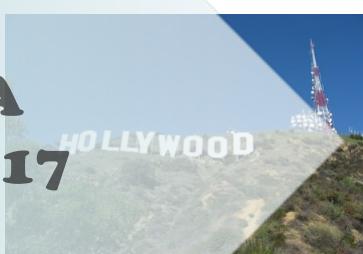


18th IWA International Conference on Diffuse Pollution & Eutrophication



**Los Angeles, USA
August 13-17, 2017**



Supported by



Sponsored by



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Welcome

Invitation from the Chair of the Organizing Committee

We are excited to be sponsoring the 18th DIPCON conference at UCLA. The conference will sponsor urban themes in diffuse pollution control, which includes approximately 20 years of efforts of the City and County of Los Angeles to reduce both the volume and contamination of urban runoff. We will also be soliciting papers from agriculture including California's large farming areas of the Imperial and San Joaquin Valleys. Remote sensing of the environment has become a large part of diffuse pollution control and we will be especially interested in applications of remote sensing for environmental management.

The conference will be organized around four concurrent themes for three days and will include poster sessions and sponsor's exhibits. There will be field trips on Thursday, August 17 to facilities featuring interesting applications of diffuse pollution control as well as other environmentally interesting locations.

We look forward to seeing you in August 2017 in Los Angeles and we are sure that you will have an interesting, academically and socially rewarding experience.



*Michael K. Stenstrom, Ph.D.
Conference Chair*

Invitation from the Chair of the Organizing Committee

I am happy to welcome IWA DIPCON 2017 to Los Angeles. This is the third time the conference will be held in the USA in its 24-year history. Los Angeles is one of the most populous cities in the world and a global city with diverse culture, science, technology and research. LA's recent sustainability plan is for a cleaner environment, including protecting water sources. Due to its Mediterranean climate and recent droughts, stormwater capture and groundwater replenishment are major issues in LA. With LA's attractive location in California and cultural assets, we hope to attract high-quality research from all over the world. We would like to invite you to this wonderful opportunity to meet with international experts on non-point source pollution control and eutrophication. We look forward to seeing you in LA!



*Mi-Hyun Park, Ph.D.
Chair of
IWA Diffuse Pollution
& Eutrophication SG*

Conference Chairs



Michael K Stenstrom UCLA
Mi-Hyun Park UCLA

Organizing Committee

Michael K Stenstrom	UCLA
Mi-Hyun Park	UCLA
Richard Ambrose	UCLA
Madelyn J. Glickfeld	UCLA
Mark Gold	UCLA
Peter Kareiva	UCLA
Mel Suffet	UCLA
Xavier Swamikannu	UCLA
Eakalak Khan	NDSU
Christine Lee	NASA JPL
Eric Strecker	Geosyntec
Shahram Kharaghani	City of Los Angeles
Wing Tam	City of Los Angeles

Scientific Committee



Thomas Ballesteros	Univ. New Hampshire
Michael Barrett	Univ. Texas Austin
Allen Davis	Univ. Maryland
Paul M. DiGiacomo	NOAA
Sarah Dorner	Polytechnique Montréal
Ferdi Hellweger	Northeastern Univ.
Edward Kolodziej	University of Washington
Vladimir Novotny	Northeastern Univ.
Robert Pitt	Univ. Alabama
John E. Sansalone	Univ. Florida
Kenneth Schiff	SCWRPP
Robert Traver	Villanova Univ.

Program Committee

Eva Abal	Australia
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Robert Davies-Colley	New Zealand
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Ray Earle	Ireland
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Ralf Kunkel	Germany
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Fiona Napier	UK
Mi-Hyun Park	USA
Peter Schipper	Netherlands
Michael K Stenstrom	USA
Zorica Todorovic	UK
Markus Venohr	Germany
Xiaoyan Wang	China

About DIPCON



Since 1993, the IWA Diffuse Pollution Specialist Group has organized international conferences. The Specialist Group has grown by merging with Eutrophication Specialist Group in 2006. Since 2011, the Diffuse Pollution and Eutrophication Specialist Group has organized biennial international and regional conferences in different parts of the world. At the international DIPCON, the specialist group exchanges new knowledge among researchers and practitioners to discuss diverse pollution issues, making connections between science and policy.

DIPCON addresses the latest innovative approaches to fundamental and applied research. Among its specific interest are stormwater management, monitoring and modelling, pollution control and best management practices (BMPs), sustainable urban drainage systems, reuse and resource efficiency, climate change adaptation related to diffuse pollution and eutrophication. DIPCON strives to broaden international recognition on the subject as a leading platform for advancing and diffusing scientific knowledge.



Conference Topics

- Diffuse Pollution from urban/semi-arid areas and their impacts
- Diffuse Pollution from rural/agricultural areas and their impacts
- Eutrophication and harmful algal blooms
- Extreme events and climate change adaptation
- Applications of remote sensing and internet of things
- Sustainable urban development and green infrastructure
- Modelling Diffuse Pollution and watershed water quality
- Integrated watershed/basin management
- Fate and transport of chemical contaminants and pathogens from diffuse sources
- Groundwater recharge and replenishment
- Emerging contaminants and micropollutants
- Governance & Policy
- Water Economics



Paper Publications

Selected papers
for publications in



Conference fees

		Early Bird ~ Jun 15	Late Jun 15 ~ Aug 12	On Site Aug 13
High Income Country	Non IWA	660	770	880
	IWA	550	660	770
	Student	275	385	495
	Spouse	275	385	495
Low Income Country	Non IWA	440	550	660
	IWA	330	440	550
	Student	220	330	440
	Spouse	220	330	440

On-site registration is open from Sunday (August 13) afternoon.

The location is Synergy Room, Level 2 in Luskin Conference Center at UCLA.

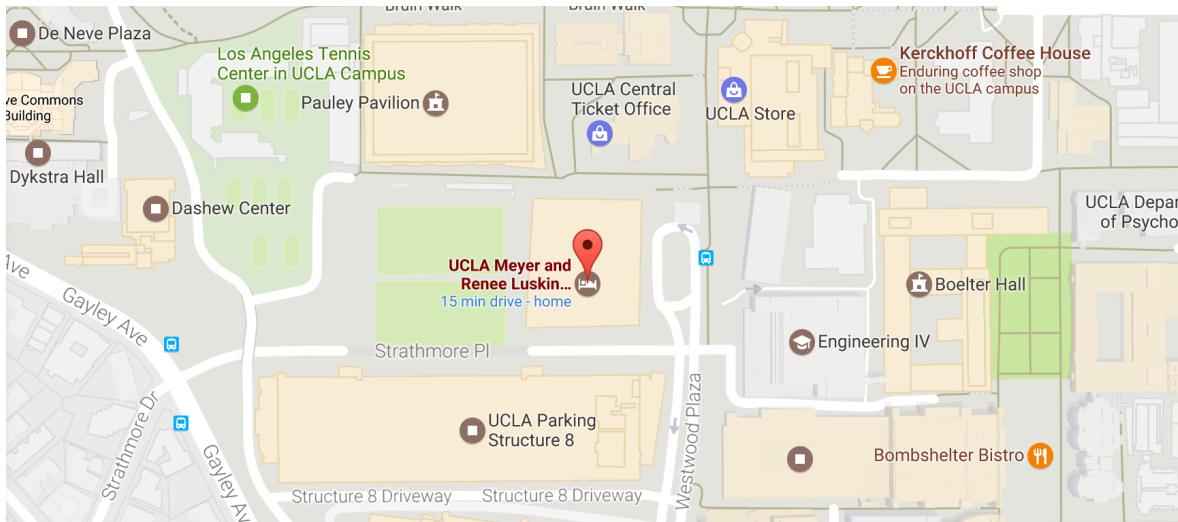


Conference Venue

The conference is held in our new 254 room Luskin Conference Center. The Center was completed in July 2016 and represents the latest in technology and architectural design for a meeting facility. It is in the heart of the UCLA Campus in west Los Angeles and is in walking distance of all campus locations as well as Westwood village. Our nearby attractions include the Getty and Hammer Museums as well as our famous beaches and Hollywood locations.



Accommodation



Explore UCLA

UCLA is a world-class academic institution and a world-famous destination for entertainment, cultural exploration and athletic feats. Every year, an estimated half-million people visit the campus to enjoy more than 1000 visual, performing and media arts, plus sporting events that feature both internationally renowned guest professionals and gifted UCLA students.

On any given day, you'll find top-tier performers from around the world at Royce Hall, professional theater performances at the Geffen Playhouse and dance or music events at the Glorya Kaufman Dance Theater or Schoenberg Hall. For film and television buffs, the Billy Wilder Theater features selections from the extensive UCLA Film & Television Archives.

If art or cultural interests are your passion, the Fowler Museum, the Franklin D. Murphy Sculpture Garden, or the Armand Hammer Museum are located just a short walk from the UCLA Meyer and Renee Luskin Conference Center and hotel.

Franklin D. Murphy Sculpture Garden



One of the most lauded outdoor sculpture collections in the country, the tranquil Franklin D. Murphy Sculpture Garden features 70 sculptures and spans more than five acres on the northeast corner of campus.

Fowler Museum at UCLA



Explore global cultures and artwork, past and present, at the Fowler Museum at UCLA. Exhibits are focused on pieces from Africa, Asia, the Pacific and the Americas with an aim toward fostering appreciation of the diverse peoples, cultures and religions of the world.

Geffen Playhouse



The Geffen Playhouse is a Los Angeles treasure and presents a body of work that garners national recognition each year. The Geffen is noted for its welcoming, intimate stages and celebrated for its commitment to the development of new theatrical works.

Hammer Museum



The Geffen Playhouse is a Los Angeles treasure and presents a body of work that garners national recognition each year. The Geffen is noted for its welcoming, intimate stages and celebrated for its commitment to the development of new theatrical works.

Mildred E. Mathias Botanical Garden



Created in 1929, the Mildred E. Mathias Botanical Garden is home to thousands of species of plants, including many that cannot be found anywhere else in California. Among its offerings are notable collections of tropical and subtropical trees, Australian plants, conifers and Hawaiian species, as well as salamanders, turtles, lizards and koi.

Located on the Westwood campus, the garden serves an important role for the university, both for conservation and as an outdoor laboratory for courses in botany, ecology, evolution and biogeography.

Walking Guide to the Gardens of UCLA

This Gardens of UCLA Walking Guide encourages campus visitors to enjoy a healthy walk to one or all of UCLA's five beautiful garden areas. Learn more at: healthy.ucla.edu

PROGRAM



AUGUST 13-17, 2017



Program at a Glance

Sunday 13-Aug	19:00 – 21:00	Icebreaker: Welcome reception			
Monday 14-Aug	9:00 – 10:30	Opening Ceremony & Plenary Session			
	10:30 – 11:00	Coffee Break			
	11:00 – 12:30	Climate Change Impact I	Eutrophication I: Treatment	Eutrophication II: Chl-a	Coastal Water
	12:30 – 14:00	Lunch			
	14:00 – 15:30	Climate Change Impact II	Micropollutants	Eutrophication III: HABs	Monitoring
	15:30 – 16:00	Coffee Break			
	16:00 - 17:00	Poster Session			
Tuesday 15-Aug	9:00 – 10:00	Plenary Session			
	10:00 – 10:30	Coffee Break			
	10:30 – 12:00	Agricultural Runoff I	Urban Runoff I	Eutrophication IV	Workshop: LID in Asian Countries for Water Wise Cities
	12:00 – 13:30	Lunch			
	13:30 – 15:00	Agricultural Runoff II	Urban Runoff II	Modeling I	Workshop: Stormwater BMPs in LA
	15:00 – 15:30	Coffee Break			
	15:30 – 17:00	Green Infrastructure I	Urban Runoff III	Modeling II: Pollutant loads	Workshop: Stormwater Ordinances in LA
	17:00 – 18:30	Special Exhibition: Art + Environment			
Wednesday 16-Aug	19:00 – 22:00	Gala Dinner			
	9:00 – 10:00	Plenary Session			
	10:00 – 10:30	Coffee Break			
	10:30 – 12:00	Green Infrastructure II	Groundwater	Modeling III: SWMM	Fate & Transport I
	12:00 – 13:30	Lunch			
	13:30 – 15:00	Green Infrastructure III	Governance & Policy	Modeling IV: Nutrient loads	Fate & Transport II
	15:00 – 15:30	Coffee Break			
Thursday 17-Aug	15:30 – 17:00	Closing Session			
	9:00 – 17:00	Technical Tours			



Plenary Speakers



Robert Pitt

**Monday 14-Aug
9:30 am**

Bob Pitt is the Emeritus Cudworth Professor of Urban Water Systems in the Department of Civil, Construction, and Environmental Engineering at the University of Alabama, where he recently retired after 14 years. He taught at UAB for 14 years before coming to the Tuscaloosa campus. Prior to his academic career, Pitt was a senior engineer in industry and government for 16 years. He has conducted more than \$10 million in research concerning the effects, sources, and control of urban runoff during his academic career. He has written more than 100 publications, including journal articles, book chapters, research reports, and several books. He is a registered Engineer (WI) and a Board Certified Environmental Engineer by the American Academy of Environmental Engineers. He has also served on numerous professional committees in the U.S. and abroad, including the Committee on Beneficial uses of Graywater and Stormwater and the Committee on Reducing Stormwater Discharge Contributions to Water Pollution of the National Academy of Science; and has directed several project review panels for the Water Environment Research Foundation. Recently, he and his graduate students have conducted research focusing on integrating green infrastructure controls in combined sewer areas; characterization and treatment of emerging contaminants in wet weather flows; and development and testing of stormwater treatment systems.



Mark Gold
**Tuesday 15-Aug
9:00 am**

Mark Gold formerly served as President of the environmental group Heal the Bay. He received his Bachelors and Masters in Biology and his doctorate in Environmental Science and Engineering from UCLA. He has been inducted into the UCLA School of Public Health Hall of Fame, and has received the James Irvine Foundation Leadership Award and the Aspen Institute Catto Fellowship.

Mark Gold has worked extensively over the last 20 years in the field of coastal protection and water pollution. In particular, he has worked on research projects on urban runoff pollution, DDT and PCB contamination in fish, and the health risks of swimming at runoff contaminated beaches. He created Heal the Bay's Beach Report Card, and has authored or co-authored numerous California coastal protection, water quality and environmental education bills. He served on the USEPA Urban Stormwater Federal Advisory Committee and was the vice chair of the California Ocean Science Trust and is vice chair of the National Estuary Program's Santa Monica Bay Restoration Commission. Mark Gold was recently appointed Associate Vice Chancellor for Environment and Sustainability.



Eric Strecker
**Wednesday 16-Aug
9:00 am**

Eric Strecker is a Senior Principal Water Resources Engineer at GeoSyntec with more than 30 years of experience focused on the design, monitoring, and evaluation of stormwater best management practices (BMPs) and the development of major project and watershed master plans. He has provided technical direction and assistance to public and private sector clients in stormwater master planning, National Pollutant Discharge Elimination System (NPDES) permitting, total maximum daily loads (TMDLs), Endangered Species Act compliance, contaminated sediment source control, and surface water pollution assessment and control.

Eric earned the 2003 Civil Engineering State-of-the-Art Award from the American Society of Civil Engineers for his work on BMP technology applications. In 2012, he was named a Board Certified Environmental Engineer (BCEE) by eminence, an accreditation bestowed by the American Academy of Environmental Engineers and Scientists (AAEES).

Monday August 14th, 2017

	Legacy A	Legacy B
11:00 – 12:30	Chair: Yingxia Li Flooding Effects on Soil properties, Enzyme and Microbial Community in Riparian Wetland of Agricultural Basin <i>Yang Ou (Chinese Academy of Sciences, China)</i>	Chair: Hyun Min Hwang Water Quality Improvement and Ecological Restoration in the Water Source Area of Lake Chaohu in China <i>Kaining Chen (Nanjing Institute of Geography & Limnology, China)</i>
	Development of Grid Based Socio-economic Flood Risk Map <i>Insang Yu (Kongju National University, Korea)</i>	Analysis of Oxidation Efficiency by Sub-micron Ozone Bubble <i>Seunghyun Baek (Seoul National University, Korea)</i>
	Functional Composition of a Rainfall Recharge Model through Online Distributed Geoprocessing <i>Alexander Kmoch (GNS Science, New Zealand)</i>	Brazilian Charcoal Low Release Fertilizer - Desorption Studies <i>Nilce Ortiz (Institute for Nuclear and Energy Research, Brazil)</i>
		Effectiveness of a Natural Headwater Wetland for Removing Agricultural Nitrogen Loads <i>Evelyn Uuemaa (University of Tartu, Estonia)</i>
14:00 – 15:30	Chair: Eric Strecker	Chair: Edward Kolodziej
	Application of Stochastic Point Rainfall Model for Future Urban Stormwater Management <i>Jeonghoon Lee (Pukyong National University, Korea)</i>	Glyphosate Concentrations in Scottish Rivers <i>Fiona Napier (Scottish Environment Protection Agency, UK)</i>
	Adaptation to Climate Change: Impacts and Resilience of Economic Sectors <i>Ray Earle (Dublin City Council, Ireland)</i>	Emerging contaminants as Chemical Markers of Pollution Sources in Urban Surface Waters <i>Ngoc Han Tran (National University of Singapore, Singapore)</i>
	Ambient Temperature Evaluation of Porous or Water-retentivity Blocks Using Climatic Chamber <i>Dae Uk Shin (Korea Conformity Laboratories, Korea)</i>	Frequency of Antimicrobial Resistance in Bacteria at Urban Pond and River in Tokyo <i>Kahoko Nishikawa (Chuo University, Japan)</i>
	Assessment of the Impacts of Climate Change on Streamflow and Water Qualities in Yeongsan River Watershed Using SWAT <i>Bumjo Kim (GIST, Korea)</i>	Impacts of EDCS and the Role of Reuse and Conservation on the Quality of the Potomac River <i>Erik Rosenfeldt (Hazen and Sawyer, USA)</i>
		Occurrence of Pharmaceutical Residues from Cancer Hospital Wastewaters Based on Dry-Weather Flows <i>Seong-Nam Nam (Chung-Ang University, Korea)</i>

Illumination	Enlightenment
Chair: Xuyong Li	Chair: Lester McKee
Identification of Environmental Factors Affecting Chl-a Concentration in Stream Water <i>Jin hwi Kim (Dongguk University, Korea)</i>	Development of a Beach Water Quality Model: Dealing with Uncertainty <i>Cyril Garneau (modelEAU, Université Laval, Canada)</i>
Chlorophyll- α Prediction under Hierarchical Bayesian Network-data Assimilation Framework <i>Feifei Sun (University of Waterloo, Canada)</i>	Development of a Methodology for Dangerous Substances Risk on Coastal & Transitional Waters <i>Gulsen Avaz (TUBITAK MRC, Turkey)</i>
Phytoplankton Color Chart (PCC) as Indicator of Trophic Status in Laguna de Bay, Philippines <i>Marilou G. Directo-Cebujano (Laguna Lake Development Authority, Philippines)</i>	Human Health Effects from Water Contact Exposure Following Urban Wet Weather Discharges <i>Kenneth Schiff (SCCWRP, USA)</i>
Management of Pond Water Quality Using Contact Oxidation Method and Vegetation Site <i>Saerom Yoon (Seoul National University, Korea)</i>	
Chair: Mi-Hyun Park	Chair: Dragomir Bogdanic
Retrieving Algal Biomass and Algae Type Independently in Coastal Waters Using Satellite Reflectance Data <i>Guangming Zheng (NOAA/GST, USA)</i>	Pollutant Source Tracking <i>Jared Ervin (Geosyntec Consultants, USA)</i>
Modelling of HAB (Harmful Algal Bloom) in the Han River, Korea <i>Dongil Seo (Chungnam National University, Korea)</i>	Passive Sampling of Emerging Contaminants in Irish Catchments <i>Lisa Jones (Dublin City University, Ireland)</i>
Impact of Turbidity Density Flow Intrusion on Algal Blooming in Reservoir Using CE-QUAL-W2 Model <i>SungRyong Ha (Chungbuk National University, Korea)</i>	Automated Continuous Monitoring and Response to Toxic Subsurface Vapors Entering Overlying Buildings <i>Mark Kram (Groundswell Technologies, Inc., USA)</i>
Algae Removal Efficiency Evaluation of Various Coagulants <i>Bokjin Lee (UST/KICT, Korea)</i>	Finding Hotspots – the Use of Rapid Monitoring Techniques to Pinpoint Sources of Diffuse Pollution in River Catchments <i>Fiona Napier (SEPA, UK)</i>
Harmful Algae Bloom Control in Echo Park Lake <i>Gordon Haines (LASAN, City of LA, USA) / Wilfred Hsu (CH2M, USA)</i>	Alternative Compliance Approach for Bacteria TMDLs in Los Angeles <i>Jared Ervin (Geosyntec, USA)</i>

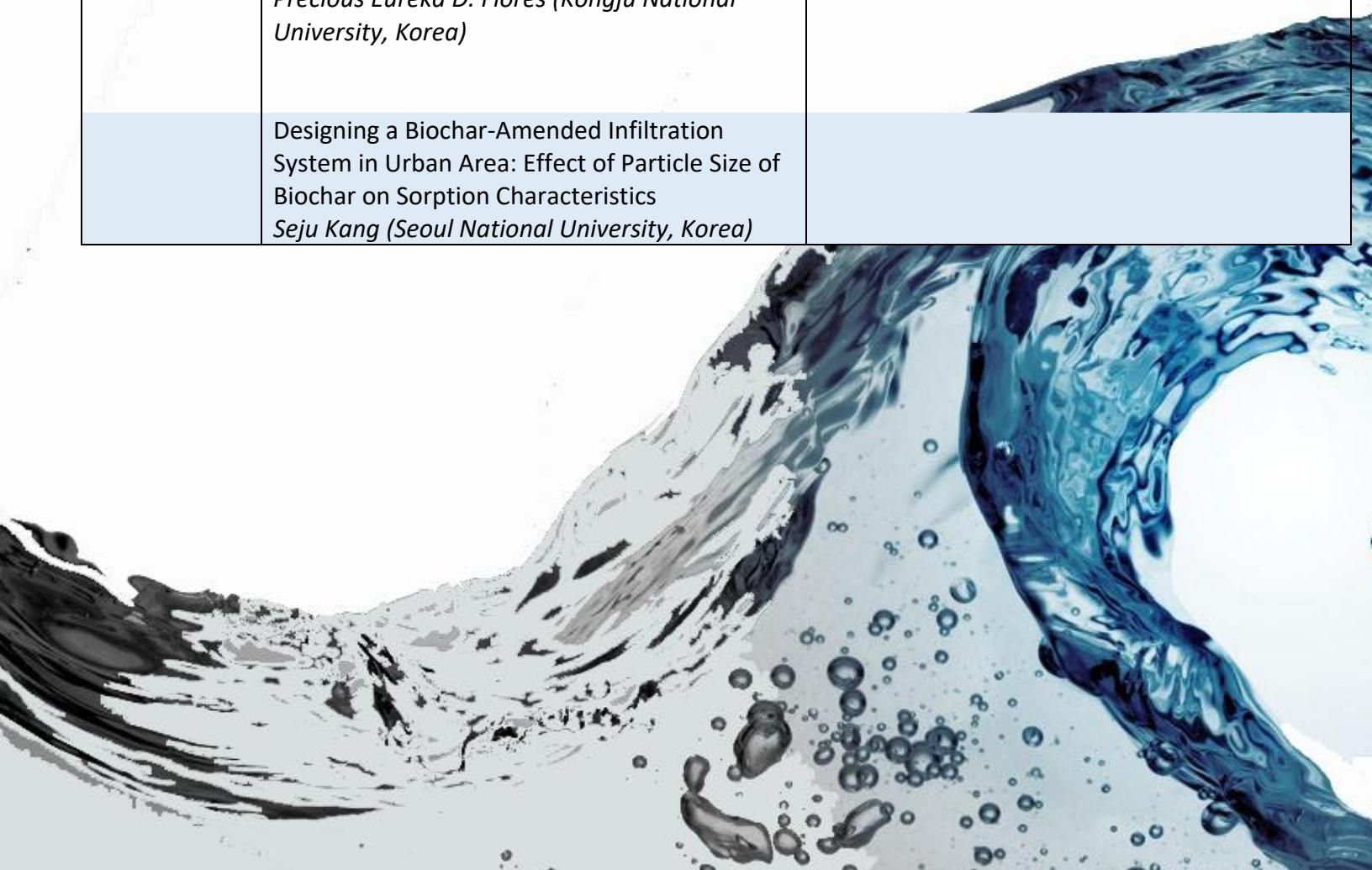
Tuesday August 15th, 2017

	Legacy A	Legacy B
10:30 – 12:00	Chair: Ray Earle Nutrient Removal in Subsurface Drainage Using Edge of Field Practices <i>Laurent Ahiaablame (South Dakota State University, USA)</i>	Chair: Mel Suffet Suspect and Non-target Screening of Organic Contaminants in Highway Runoff <i>Edward Kolodziej (University of Washington, USA)</i>
	Retro-fitting Wetlands Back into Agricultural Watersheds to Manage Diffuse Contaminant Loads <i>Chris Tanner (NIWA, New Zealand)</i>	Ecotoxicity of Highway Dusts in Terms of PAHs and Their Transformation Products <i>Atsushi Ichiki (Ritsumeikan University, Japan)</i>
	The Effect of Nitrogen Mitigation Measures Evaluated by Monitoring of Nitrogen Concentrations and Loadings <i>Henrik Tornbjerg/Jørgen Windolf (University of Aarhus, Denmark)</i>	Source Apportionment of Fine Sediment Particles in Urban Roadway Runoff in the Lake Tahoe Basin <i>Hyun-Min Hwang (Texas Southern University, USA)</i>
	Delineation of Hydrogeochemical Characteristics of the Drinking Groundwater <i>HyunKoo Kim (NIER, Korea)</i>	Source Characterization of Urban Road Surface Pollutant Wash-off <i>An Liu (Shenzhen University, China)</i>
		State of the Art Technology for Plume Mapping and Water Quality Monitoring Dynamic Bay Environment <i>Dragomir Bogdanic (CalTran, USA)</i>
13:30 – 15:00	Chair: Luis Alberto Bravo-Inclán Assessment of Micro-basin Tillage as Soil and Water Conservation Practice in the Black Soil Region of Northeast China <i>Yang Ou (Chinese Academy of Sciences, China)</i>	Chair: Xavier Swamikanuu Model Evaluation of Combined Sewer Overflow Loads Derived from In-sewer Sediments <i>Hiroaki Furumai (University of Tokyo, Japan)</i>
	Analysis of NPS Pollution Patterns in Korean Orchards <i>Heongak Kwon (NIER, Korea)</i>	LCA of Wet-weather Emissions of an Urban Wastewater System: the Case of the Greater Paris Watershed <i>Eva Risch (Irstea, France)</i>
	Reducing Agricultural Pollution through Targeted Watershed Monitoring and Best Management Practices <i>Jenny Newman (LA Regional Water Board, USA)</i>	Development of Stormwater Treatment Media for Advanced Stormwater Treatment at an Industrial Site <i>Robert Pitt (University of Alabama, USA)</i>
	Interflow Contribution Ratio Coming from Livestock Complexes and Farming Area to Artificial Wetland <i>Yunhee Lee (Daejeon Sejong Research Institute, Korea)</i>	A Laboratory Study on Synthetic Fiber Filter for Treating Highly Turbid Stormwater from the Construction Sites <i>Qingke Yuan (Hanseo University, Korea)</i>
	The Concentration and Distribution of Nitrogen in Mountain Streams in the Northeastern Kyushu, Japan <i>Yukio Komai (Osaka Institute of Technology, Japan)</i>	Status and Trends of Contaminant Impacts in Southern California Embayments from Diffuse Sources <i>Kenneth Schiff (Southern California Coastal Water Research, USA)</i>

Illumination	Laureate
Chair: Richard Ambrose	Workshop I: LID in Asian Countries
<p>Long Term Assessment of Lake Pátzcuaro, Water Quality and Eutrophication Trend. 10 Years of Actions <i>Luis Bravo-Inclán (Mexican Institute of Water Technology, Mexico)</i></p>	<p>Water Wise Cities in Japan <i>Hiroaki Furumai (University of Tokyo, Japan)</i></p>
<p>Evaluation of Bioavailable Phosphorus in Suspended Sediments <i>James Mbabazi (Toyohashi University of Technology, Japan)</i></p>	<p>Water Wise Cities in Korea with Ecological LID Eesign <i>Leehyung Kim (Kongju National University, Korea)</i></p>
<p>Identifying Loss forms of Nonpoint Source Nitrogen and Phosphorus in a Highly Erodible Watershed of the Semiarid Region, China <i>Lei Wu (Northwest A&F University, China)</i></p>	<p>Sponge city in China for water wise cities <i>Xuyong Li (Chinese Academy of Sciences, China)</i></p>
<p>Nutrient Concentration in Sediments Accumulated in Pre-treatment Basins of Urban LID Technologies <i>Franz Kevin Geronimo (Kongju National University, Korea)</i></p>	
Chair: Markus Vehnor	Workshop II: City of LA - Stormwater BMPs
<p>Water Quality Simulation and Water Environmental Capacity Calculation of Drinking Water Reservoir <i>Chunhui Li (Beijing Normal University, China)</i></p>	<p>Residential LID <i>Stefanie Perez (LASAN, City of LA, USA)</i></p>
<p>Spatio-temporal Distribution of Diffuse Pollution Hotspots Using HSPF with RCP Scenario Dataset <i>Jiheon Lee (Chungbuk National University, Korea)</i></p>	<p>Distributed LID: Green Streets <i>Kevin Ho (LASAN, City of LA, USA)</i></p>
<p>Application of Newly Developed One-dimensional HEC-RAS Water Quality Modeling Capabilities in Support of TMDL Development <i>Zhonglong Zhang (US Army ERDC, USA)</i></p>	<p>Regional LID: Wetlands, Retention, Cisterns <i>Majid Sadeghi (LASAN, City of LA, USA)</i></p>
<p>Characterization of Surface Water in the Agricultural Dominated Bharathapuzha River Basin, Kerala, <i>Sabu Joseph (University of Kerala, India)</i></p>	

Tuesday August 15th, 2017

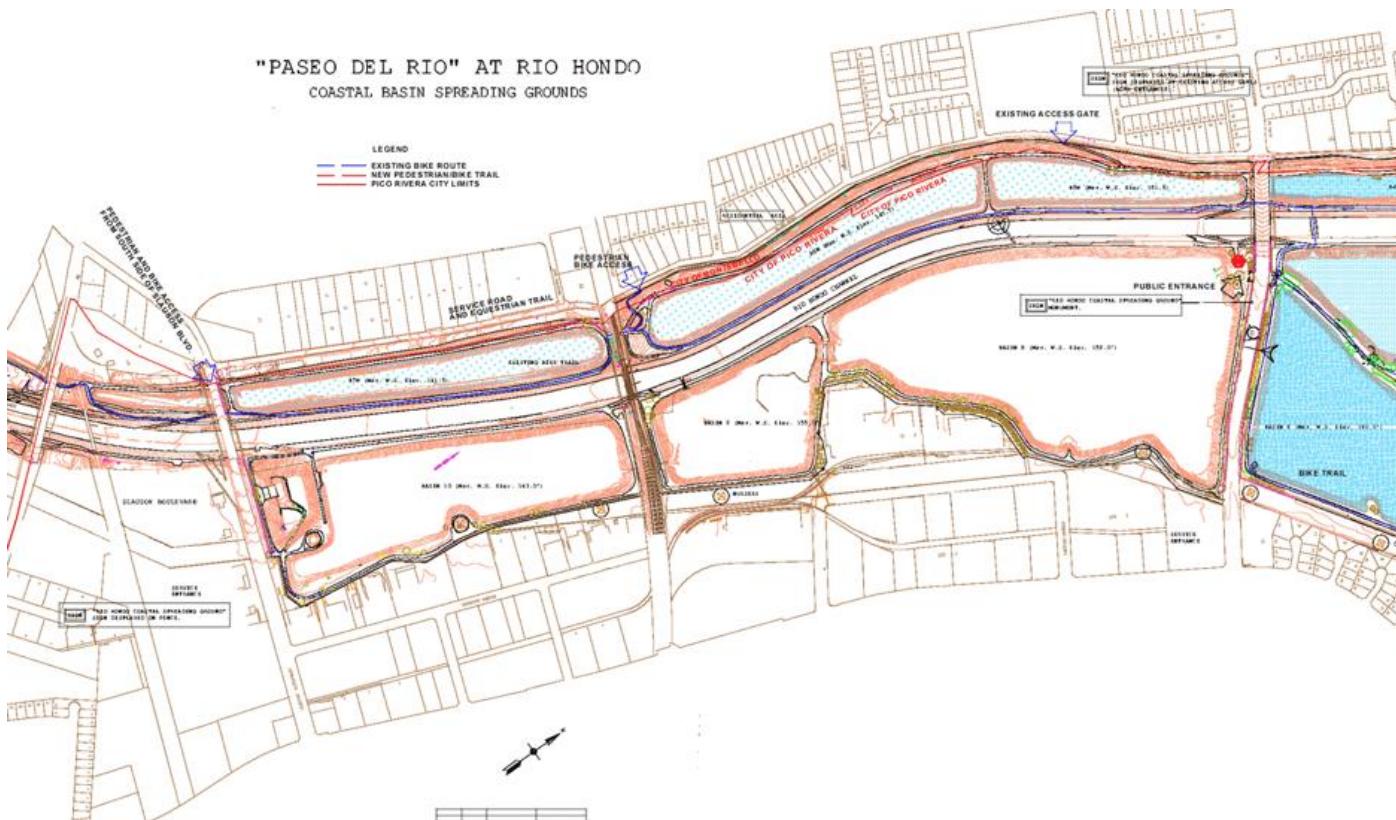
	Legacy A	Legacy B
15:30 – 17:00	Chair: Sanjay Mohanty Performance Assessment and Design Evaluation of Planter Boxes Treating Urban Stormwater Runoff <i>Heidi Guerra (Hanseo University, Korea)</i>	Chair: Eakalak Khan Bioavailability of Hydrophobic Organic Pollutants in Urban Runoff <i>Chris Meng-Horng Hsu (GSI Environmental, USA)</i>
	Optimization of Detention Ponds' Runoff and Pollution Control Performance in Catchment System <i>Salisu Dan'azumi (Bayero University, Nigeria)</i>	Comparison of PAHs Source Apportionment Results Using FA-NNC, PCA-MLR and PMF <i>Yingxia Li (Beijing Normal University, China)</i>
	Nitrogen Removal and Hydraulically Characteristic of Constructed Riverine Wetland <i>Yawei Wang (Research Center for Eco-Environmental Science, China)</i>	Surface Water Drainage as a Source of Poly Aromatic Hydrocarbons <i>Fiona Napier (Scottish Environment Protection Agency)</i>
	Development of a Hybrid Rain Garden System for Cost-effective Stormwater Treatment <i>Precious Eureka D. Flores (Kongju National University, Korea)</i>	PAHs Sources in the Ballona Creek Watershed <i>I. Mel Suffet (UCLA, USA)</i>
	Designing a Biochar-Amended Infiltration System in Urban Area: Effect of Particle Size of Biochar on Sorption Characteristics <i>Seju Kang (Seoul National University, Korea)</i>	



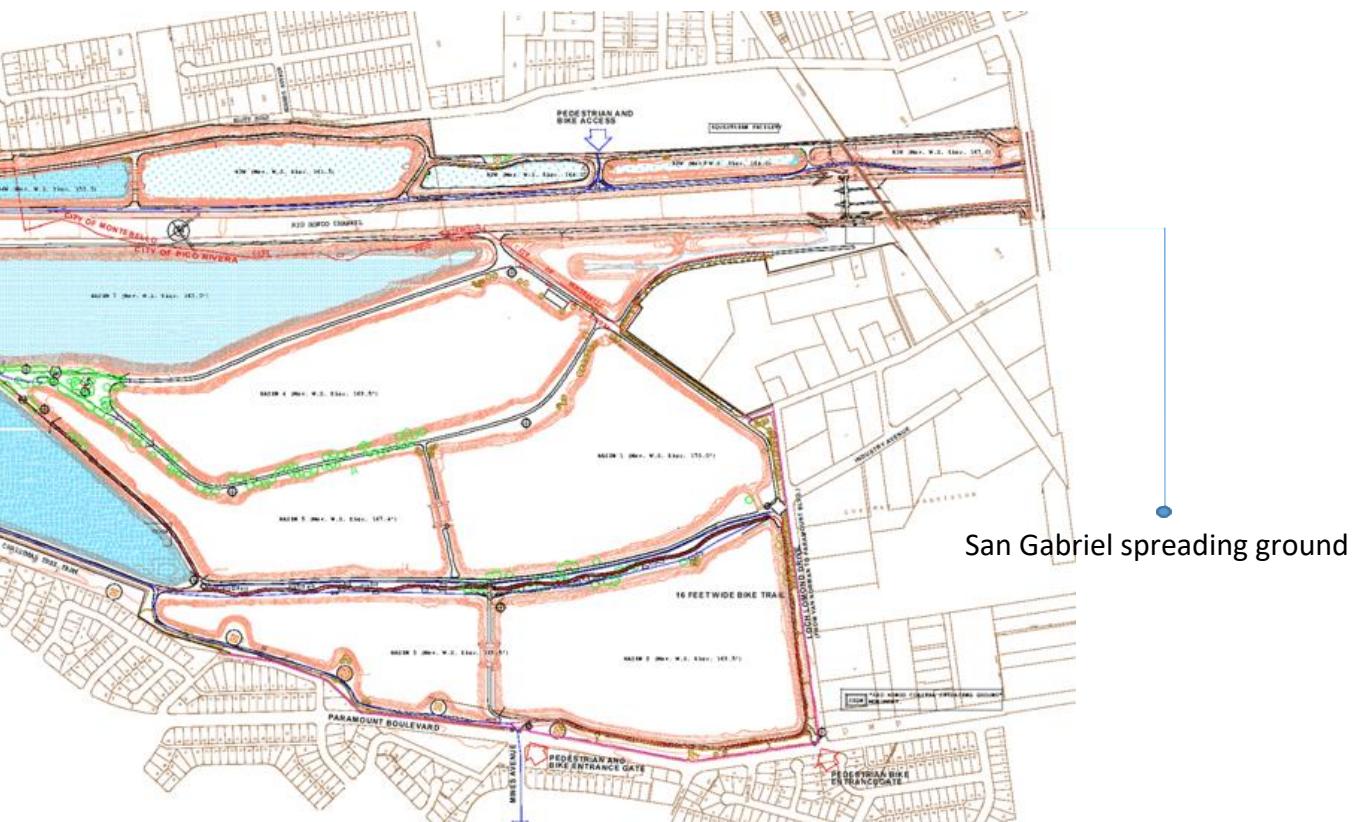
Illumination	Laureate	Entrepreneur
Chair: Hiroaki Furumai	Workshop: LA Stormwater Ordinance	YWP
Simulation of Nonpoint Source Pollution from Multiple Land-uses <i>Dai Ying (Beijing Normal University, China)</i>	Public LID Ordinance, NPDES, TMDL, Permits: <i>Ryan Thiha (LASAN, City of LA, USA)</i>	Performance of LID Practices for the Management of Stormwater Runoff from Highly Impervious Roof, Parking Lot and Roadways <i>Marla Redillas (De La Salle University, Philippines)</i>
Application of an ArcGIS "Spreadsheet Model" for Estimating Loads of Pollutants to San Francisco Bay <i>Lester McKee (SFEI, USA)</i>	LID Policy/Ordinance <i>(LASAN, City of LA, USA)</i>	New Non-Point Source Pollution Solutions and Technologies <i>Ray Earle (Dublin City Council, Ireland)</i>
Predicting Runoff Induced Mass Loads in Urban Watersheds: Linking Land Use and Pyrethroid Contamination <i>Kazue Chinen (UCLA, USA)</i>		Spatial Variability and Temporal Dynamics of Cyanobacteria Blooms and Water Quality Parameters in Missisquoi Bay <i>Mi-Hyun Park (UMass/UCLA, USA)</i>
Insecticides Wash-off in Urban Areas: a New Modeling Approach <i>Angela Ggorgoglione (University of California, Davis, USA)</i>		

Wednesday August 16th, 2017

	Legacy A	Legacy B
10:30 – 12:00	Chair: Robert Pitt	Chair: Fiona Napier
	<p>Biochar Amendments for Enhanced Pathogen Removal in Stormwater Biofilters <i>Nabiul Afroz (Stanford University, USA)</i></p> <p>Water Retention and Pollutant Loading in the Ballona Creek Rain Garden (Los Angeles County) <i>Jamie Burkhard/John Dorsey (Loyola Marymount University, USA)</i></p> <p>Optimizing Biofilter Design for Nutrient Removal in Semi-arid Areas <i>Bonnie Glaister (Monash University, Australia)</i></p>	<p>Assessment of Preferential Subsurface Flow and Transport in Soils Near Zarqa River Basin <i>Michel Rahbeh (University of Jordan, Jordan)</i></p> <p>The Uncertainty of Groundwater Recharge Through Stormwater <i>Anthony D. Daus (GSI Environmental, USA)</i></p> <p>Managing Stormwater Through Infiltration – an Alternative Approach for Measuring TMDL Compliance for Industrial Discharge <i>Timothy S. Simpson (GSI Environmental, USA)</i></p>
	<p>The Role Stormwater Green Infrastructure Can Play in Enhancing Biodiversity and Ecosystem Services in Cities <i>Richard Ambrose (UCLA, USA)</i></p> <p>Removal of Fecal Indicator Bacteria in Stormwater Biofilters: Design Innovations Based on Mechanistic Studies <i>Sanjay Mohanty (UCLA, USA)</i></p>	<p>Separation of Continental Groundwater and River Water by Sheet Pile <i>Shinya Nakashita (Hiroshima University, Japan)</i></p> <p>Iron Turning Waste as Sustainable Point-of-use Water Filtration Media for Treatment of Groundwater <i>Tauqeer Abbas (North Dakota State University, USA)</i></p>



Illumination	Enlightenment
Chair: Dongil Seo	Chair: Mark Gold
<p>Evaluation of LID Control System Using SWMM With Predicted Rainfall Based on Weather Radar Image <i>Heewon Jeong (GIST, Korea)</i></p> <p>The Simulated Effect Variation of Different Low Impact Development Designs in SWMM and Smart Water <i>Yingxia Li (Beijing Normal university, China)</i></p>	<p>Performance of Distributed Natural Treatment Controls at SSFL to Meet Numeric Effluent Limits <i>Megan Otto (UCLA, USA)</i></p> <p>Assessment of Soil Microbial Activity in LID Facilities Affecting Diffuse Pollutants Treatment <i>Jungsun Hong (Kongju National University, Korea)</i></p>
<p>Simulation of Long-term Monitored LID Facilities Using SWMM <i>Jawara Christian Alihan (Kongju National University, Korea)</i></p> <p>A Game Theory Based Decision-making Model for Urban Runoff Management <i>Tong Wei (Beijing Normal university, China)</i></p>	<p>Transport of Chemical Pollutants Through the Intergranular Urban Aquifer <i>Branka Trcek (University of Maribor, Slovenia)</i></p> <p>Mechanism of Cesium Adsorption by Carbonized Rice Hull and Beech Sawdust <i>Asa Miura (University of Fukui, Japan)</i></p>
	<p>Test-bed Performances of Permeable Pavements to Control Runoff Under Artificial Precipitation <i>Jae-Cheol Lee/ Hyun-woo Kim (Chonbuk National University, Korea)</i></p>



Wednesday August 16th, 2017

	Legacy A	Legacy B
13:30 – 15:00	Chair: Madelyn Glickfeld	Chair: Michael K. Stenstrom
	<p>Green Infrastructure - How Well Do These Techniques Stand the Test of Time <i>Tom Liptan (LIVE Center, USA)</i></p>	<p>How UN Global Goals on Water Could be Implemented in the Lower Mekong Basin Countries? <i>Binaya Raj Shivakoti (Institute for Global Environmental Strategies, Japan)</i></p>
	<p>An Engineering-economic Optimization Assessment for Urban Water Markets: Los Angeles, California <i>Nicholas Chow (UCLA, USA)</i></p>	<p>Regulating Oil and Gas Facility Stormwater Discharge <i>Khadeejah Abdullah (UCLA/California State Fullerton, USA)</i></p>
	<p>Challenges and Opportunities to Treat Non-Point Source Pollution Using Low Impact Development and Green Infrastructure at the Watershed Scale <i>Neil Weinstein (The Low Impact Development Center, Inc., USA)</i></p>	<p>Exploring the Water-Energy Nexus in China: The Electricity Use for Water Produce <i>Yong Zhao (China Institute of Water Resources, China)</i></p>
	<p>Solving Stormwater <i>Lori Blair (Boeing, USA)</i></p>	<p>Diffuse Pollution and Its Impacts on Water Governance: Case Studies from the Caribbean of Costa Rica <i>Gabriela Cuadrado-Quesada (UNESCO-IHE, Netherlands)</i></p>
	<p>Introduciton of Korea GI & LID Center with Monitoring Verification &Experiment Test-Bed <i>Hyunsuk Shin/Yuihyuk Yoon (Pusan National University, Korea)</i></p>	<p>Going with the Flow: Exploring the Effectiveness of Social Norms as a Water Saving Strategy <i>Elaine Gallagher (University of Bath, UK)</i></p>



Illumination	Enlightenment
Chair: Fumiuki Nakajima	Chair: Kenneth Schiff
Estimation of Nitrogen Loadings from Forest Area in Watershed of Hiji River, Japan by using the IFAS <i>Shohei Morisawa (Osaka Institute of Technology, Japan)</i>	Source, Fate, and Transport of Cryptosporidium in a Watershed in the Midwestern United States <i>Eakalak Khan (North Dakota State University, USA)</i>
Modeling Water Quality Trends. How Crop Choices Undermine P Emission Control Measures in Austria <i>Ottavia Zoboli (TU Wien, Austria)</i>	Bacterial Composition and Structure in a Stormwater Runoff from Mixed and Urban Land Use Catchment <i>M. A. Paule-Mercado (Myongji University, Korea)</i>
Bioavailability of Phosphorus Emissions and Loadings in Surface Water of Germany <i>Markus Venohr (IGB-Berlin, Germany)</i>	Variability of Fecal Indicator Bacteria and Total Suspended Solids in Stormwater Runoff <i>M. A. Paule-Mercado (Myongji University, Korea)</i>
Predicting Water Quality Changes in a Drinking Water Reservoir Influenced by the Water Transfer <i>Xuyong Li (Chinese Academy of Sciences, China)</i>	

Poster Session



1. Consideration for Demonstration of Up-Flow Filtering BMP Devices in Nonpoint Source Pollution Management
Sungmin Cha (Korea)
2. Wastewater Treatment by Floating Macrophyte (*Salvinia Natans*) Under Algerian Semi-Arid Climate
Laabassi Ayache (Algeria)
3. Ballasted Hydrocyclone Flocculation and Filtration System for Treatment of Stormwater Runoff
Junho Lee (Korea)
4. Development of the Hybrid Type of Stormwater Runoff Treatment Filtration System and Backwashing System
Junho Lee (Korea)
5. Characteristics of Nonpoint Source Pollution in Korea
Taehyo Im (Korea)
6. Development of BMPs for Management of NPS from Railway Bridges
Kyungik Gil (Korea)
7. How Do the Surface Roughness Affect the Road Sediment Build-up and Wash-off Process?
Hongtao Zhao (China)
8. Concentrations, Distribution, and Correlations of Metals in Road Dusts in Urbanized Area of Beijing
Ruimin Liu (China)
9. Impact of Spatial Pattern and Arrange of Land Uses on Water Quality in Xin'An River Basin, China
Ying Wang (China)
10. Morphology and Physiological Response of Different Tissues in Juvenile Grass Carp to TAN Stress
Jingtao Xu (China)
11. Production and Characterization Bioflocculant Produced by *Acinobacter Iwoffii JH-6*
Juhyun Park (Korea)
12. Water Quality Improvement Efficiency Evaluation in SSWF with Denitrifying Microorganisms
Seohee Kim (Korea)
13. Environmental Response to Construction of Sewage Treatment Plant in Jinhae Bay, Korea
Kyeongmin KIM (Korea)
14. Biological Control of Toxic Cyanobacteria
Luyanda Ndlela (South Africa)
15. N₂O Emission in Response to the Benthic Boundary Oxidation Layer of Rooted Emergent Macrophytes Growing in Wetlands Sediments
Xiaozhi Gu, Kaining Chen (China)
16. Control of Nitrogen and Phosphorus from Lake Sediments by a Submerged Plant: *Vallisneria Spiralis L.*
Nan Geng (China)
17. Estimation of Chlorophyll-a and TSI for a Small Reservoir Using Landsat 8
Maryam Ghashghaie (Iran)
18. A Study on the Risk of Microcystin in Water Using the Analysis of Zebrafish Behavior and Lipidomics
Yoonsoo Lim (Korea)
19. Development of Risk Index and Environmental Risk Map: Preparation for Chemical Accidents
Ji-Hoon Seo (Korea)
20. Carbon Loss of Grassland Resulted from Different Levels of Drought
Tianjie Lei (China)
21. Establishing and Utilizing a Localized Flood Vulnerability Index
Marc Sinan Azotea (Korea)
22. Analysis of Flood Risk using the Physics-based Distributed Rainfall-runoff Model
Junyeong Kim (Korea)
23. Bacteria Removal Characteristics of Bioretention-soil (BRS) for LID Tree Filtration Box
Joonil Ko (Korea)
24. Evaluation of Non-Point Source Reduction Efficiency of LID
Sunghoon Hong (Korea)
25. Nutrients Removal Technology for an Eco-friendly River System
Sangleen Yun (Korea)
26. Analysis of Adaption Architectural LID Zone in Korea GI&LID center using K-LIDM
Youngsu Jang (Korea)
27. Development of Pilot-scale Reduction Facility of Nonpoint Source Pollutants Using ACS
SiHyeon Lee (Korea)

28. The Effect of a Retention Board on the Behavior of Soil Moisture Content in a Green Roof
Saerom Yoon (Korea)
29. Riser Optimization in Designing of Infiltration Trench Using K-LIDM
Jongpyo Park (Korea)
30. Evaluation on the Applicability of Natural Filter Media to LID Technologies
Minsu Jeon (Korea)
31. Seasonal Variation on Treatment Performance of Bioretention Systems Planted with Woody Species
Hyeseon Choi (Korea)
32. Modeling Long-term Impacts of LID Practices on Water Quality in Deer Creek Watershed, Missouri
Esther Mosase (USA)
33. Evaluation of an Urban Hybrid Constructed Wetland Using SWMM
Jawara Christian Alihan (Korea)
34. Parameter Uncertainty Assessment of a Non-Point Source Phosphorus Loss Indicator by GLUE Approach
Jingjun Su (China)
35. Watershed Pollution Load Simulation Modeling in a Semiarid Catchment
Yan Jiang (China)
36. Feature Extraction of Phytoplankton Blooms in Nakdong River Using Decision Tree Algorithm
Yejin Kim (Korea)
37. Construction of the SWMM for Predicting Nonpoint Source Pollution from a Small Urban Catchment
Lei Chen (China)
38. Model-based Waste Allocation Strategies and TMDL System for River Water Quality Management
Chihhao Fan (Taiwan)
39. Identification of Factors Associated with Norovirus Contamination in the Environmental Media Based on Spatial Analysis
Jin Hwi Kim (Korea)
40. Micro-algae Control Evaluation Using Coagulation and Float Separation System
Hye-cheol Oh (Korea)
41. Nutrients Removal in Hybrid Constructed Wetland Treating Stormwater Runoff
Gurung Sher Bahadur (Korea)
42. Removal Mechanism of Antibiotics in the Constructed Wetlands
Kyung-Duk Zoh (Korea)
43. Polypropylene Surface with Antibacterial Property by Photografting 1-vinylimidazole
Hyunwoo Kim (Korea)
44. Exploration of Biomarkers in a Benthic Amphipod for Toxic Chemicals in Road Dust Using cDNA-AFLP
Fumiayuki Nakajima (Japan)
45. Field-evaluation of a Self-flow-controlling Filter with Polymeric Media for Removal of Emerging Substances in Urban Expressway Runoff
Kangwoo Cho (POSTECH, Korea)
46. Evaluation of Nutritional Contents in Monoculture and Agroforestry Systems in the Itaparica Region
Marilia Regina Costa Castro (Brazil)
47. Water Quality and Water Column Properties Impact Offshore Aquaculture Development by Influencing Pro
Meng-Chen Lee (USA)
48. GIS Analysis of Groundwater Quantity in California's Central Valley
Yalin Mao (USA)
49. Identifying Potential Areas for River Restoration on Ballona Creek, California
Kris Skinner (USA)
50. Assessing the radar rainfall data in watershed-scale water quality model
Joon Ha Kim (Korea)
51. Performance Evaluation of TiO₂ and WO₃-TiO₂ Coated Zeolite and Pervious Block in Removing NO_x
Joseph Albert Mendoza (Korea)
52. Function of Biofilm on Nitrogen Removal from landfill leachate in Anammox System
Lei Miao (China)
53. Effects of aeration strength on N and P removal in the main tank of alternate multiple tanks system
Zheqin Dai (China)



Art + Environment



Michael Stenstrom



Robert "Bob" Pitt



Teresa Young

Michael began his photographic second career when his mother obtained a small, 127-film Brownie camera with green stamps when he was in the first grade. From there it was uphill, taking pictures for his high school year book and of friends on special occasions. He obtained his first serious camera, a Minolta SRT-101, while in graduate school in 1973. Since then he has been taking pictures of environmental scenes, gushing bad water, landfills, treatment plants and aeration equipment. He has published numerous pictures in technical journals and book covers. In recent years he has expanded into fine art photography, trying to show the contrast between beauty and decay. A lifelong goal is to influence environmental policy through pictures, in much the way W. Eugene Smith's Minamata Bay pictures of mercury pollution victims impacted landmark environmental legislation in the 1970s.

Bob is a modern-day polymath, producing creative work in many aspects of engineering as well as astronomy and photography. His recent trips to assist the Boeing Company at the Santa Susana Field Station has given Bob opportunities to visit notable California photographic sites, including Death Valley, the rocks of the Alabama Hills, Yucca Valley and is looking forward to showing the decay of the Salton Sea and its neighboring communities.

Teresa has loved dance, art, environmental science and studying insects throughout her life. She learned dance and choreography at Eugene Loring's American School of Dance and took master acting classes from Lee Strasberg. She has directed and staged plays and choreographed musicals at Los Angeles City College, independent Los Angeles theaters, and California Institute of Technology, where she taught professors and students how to act and dance. Through the financial support of the City of Los Angeles, she joined the Puppet Company for two years as a city employee in the Theater Arts Program Los Angeles. During this time she performed for approximately 500,000 people in the City of Los Angeles. Afterwards, she went to Mount St. Mary's College majoring in photography, the Art Center College of Design majoring in filmmaking and Wright State University in Dayton, Ohio majoring in wetland science. Meanwhile, she was Co-Founder and Board Member at Dayton Visual Arts Center, Southwest Ohio's first local venue to exhibit regional, folk, and ethnic art and artists in partnership with NCR Corp. She worked for the Dayton Museum of Natural History painting murals for their displays. She received her M.S. degree from the UCLA Environmental Health Sciences department, studying populations of Cicindelidae (tiger beetles) in the Mugu Naval Base, Ventura. Presently, she volunteers in the San Gabriel Mountains Regional Conservancy and conducts several insect studies in the San Gabriel Mountains and Foothills. She also volunteers for the Whittier Narrows Natural Area, where she has been performing identification and analysis of insects for a five-year study. Art is her home, her center and her connection to her family.



Social Events

Welcome
Reception

Centennial Terrace, Level 3
Luskin Conference Center
Aug 13, Sunday, 7:00 pm

Gala Dinner

Exploration Room, Level 2
Luskin Conference Center
Aug 15, Tuesday, 7:00 pm



Breakfast

Restaurant, Level 1

Lunch

Restaurant, Level 1

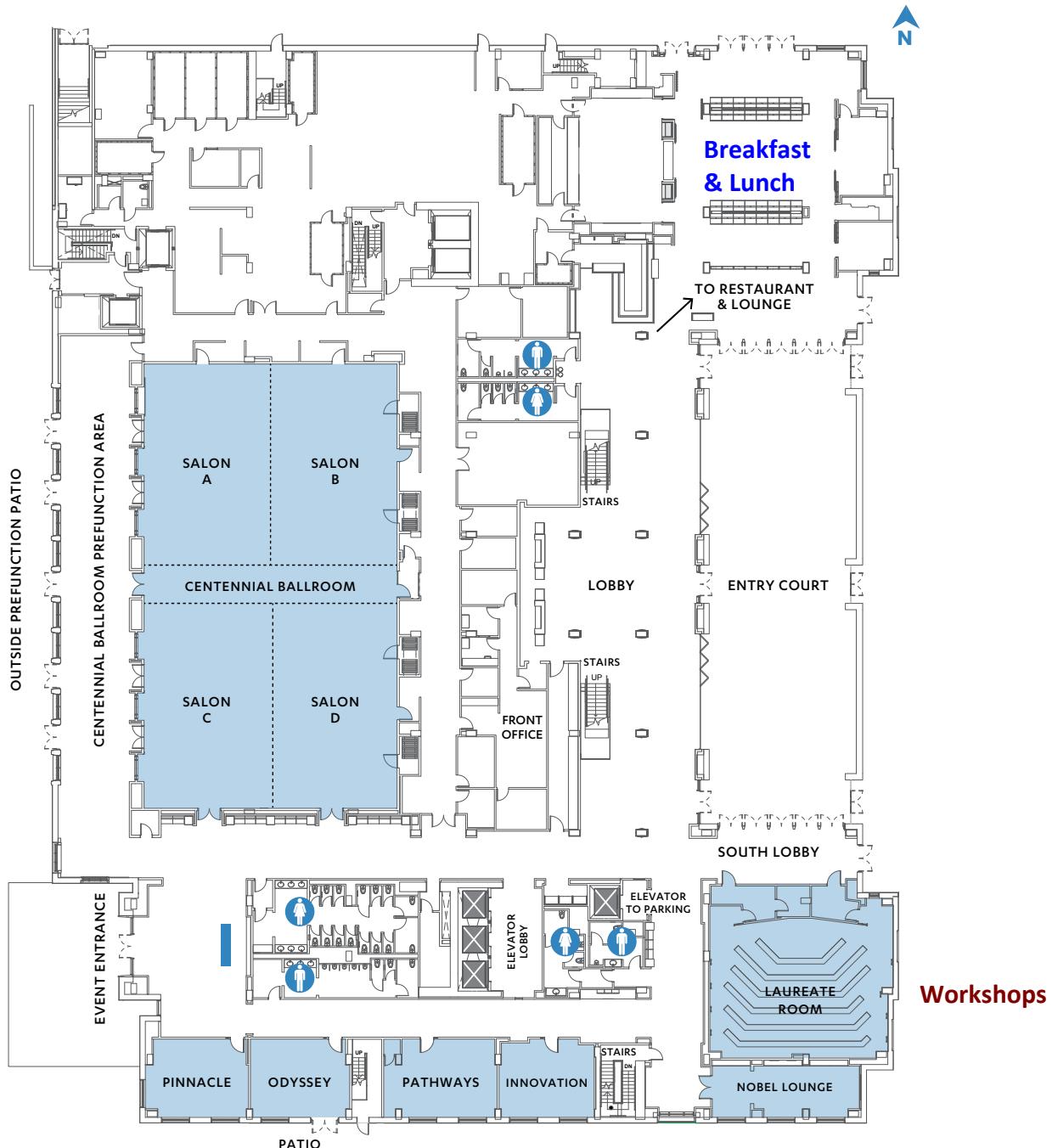
Coffee Breaks

Nutrition Hub (South), Level 2

YWP
Welcome

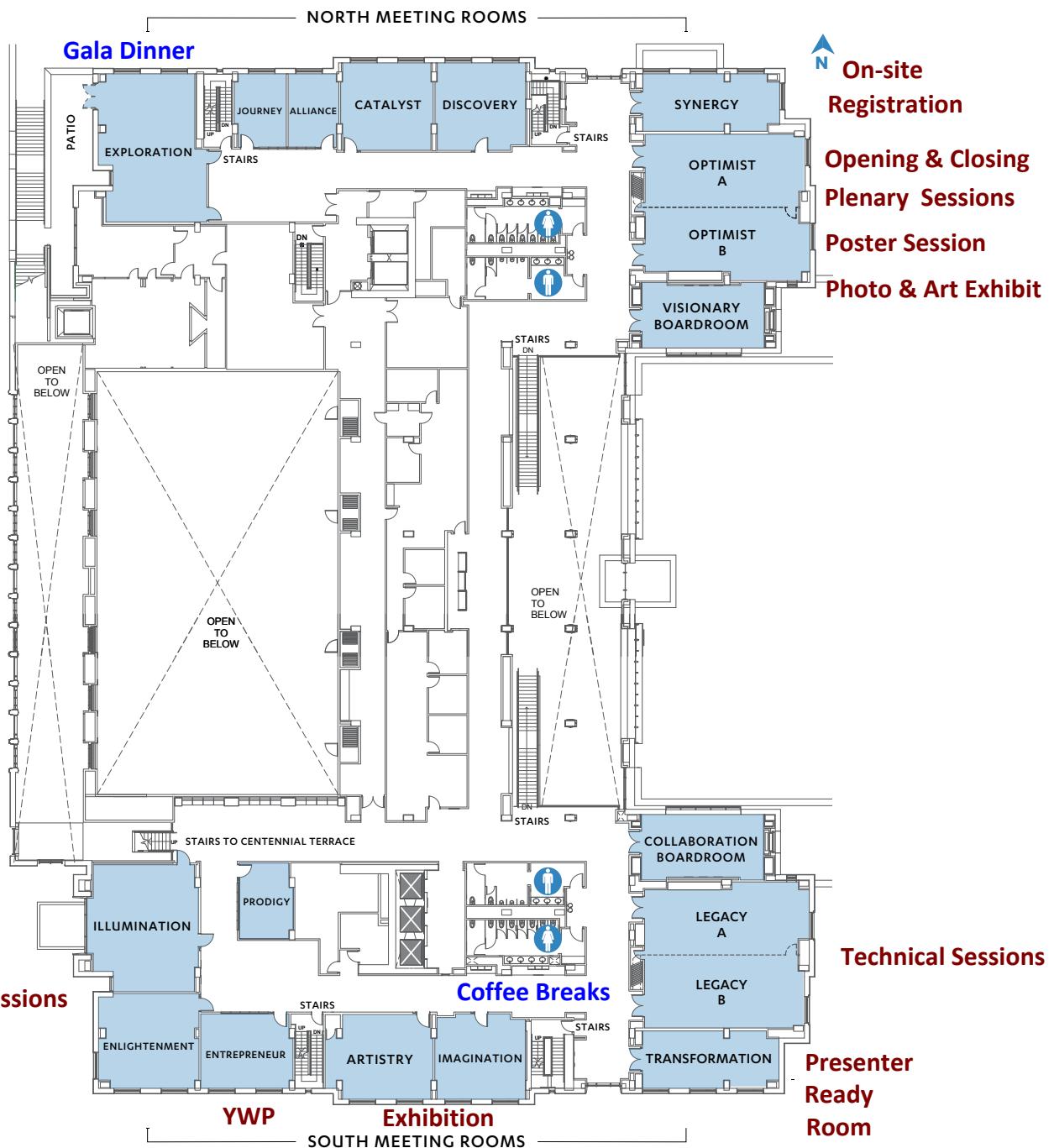
Centennial Terrace, Level 3
Luskin Conference Center
Aug 13, Sunday, 7:00 pm

MEETING SPACE: LEVEL 1



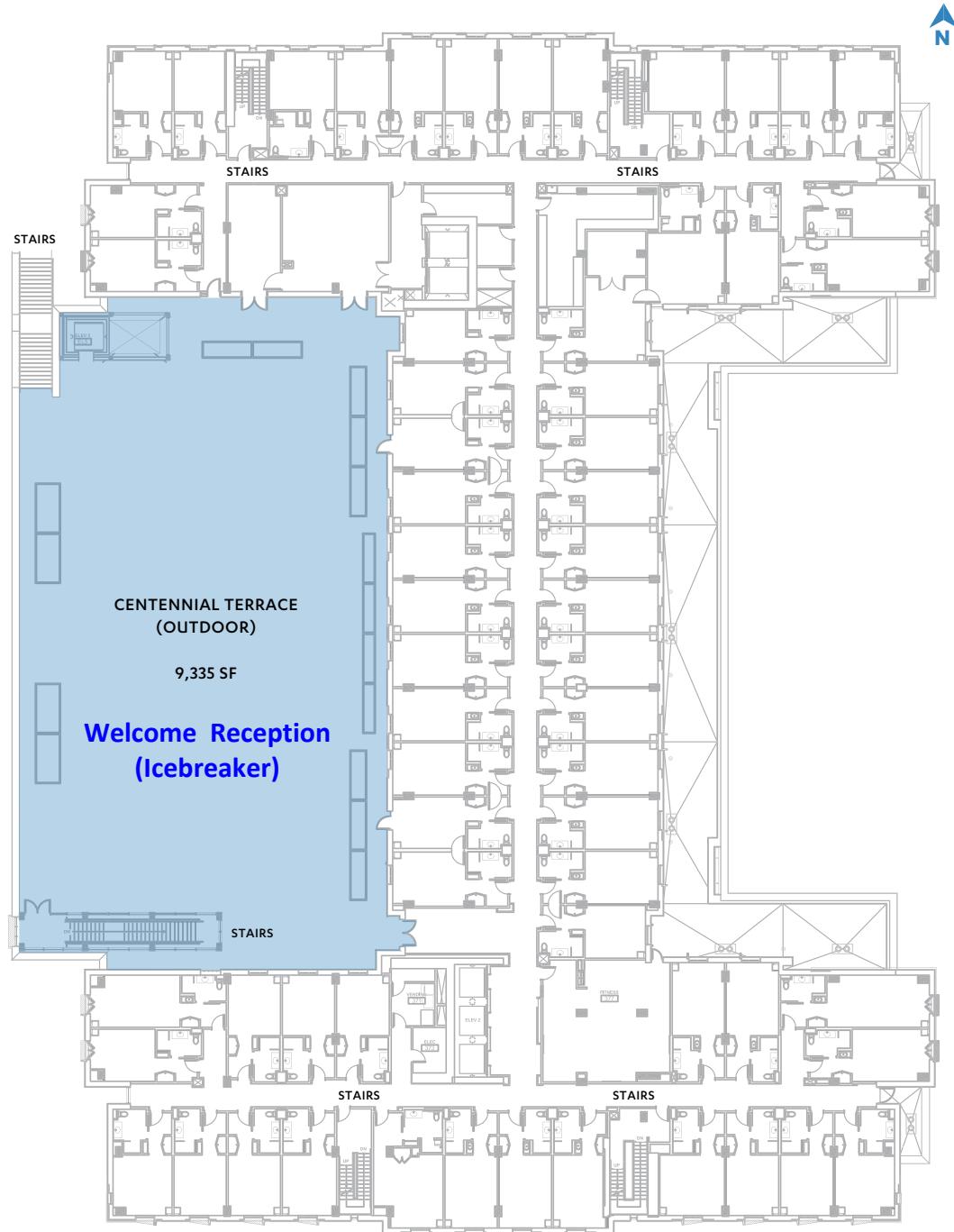
For information on advance reservations for the UCLA Meyer and Renee Luskin Conference Center,
please call 855-LCC-UCLA (855-522-8252) or visit LuskinConferenceCenter.UCLA.edu

MEETING SPACE: LEVEL 2



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MEETING SPACE: LEVEL 3

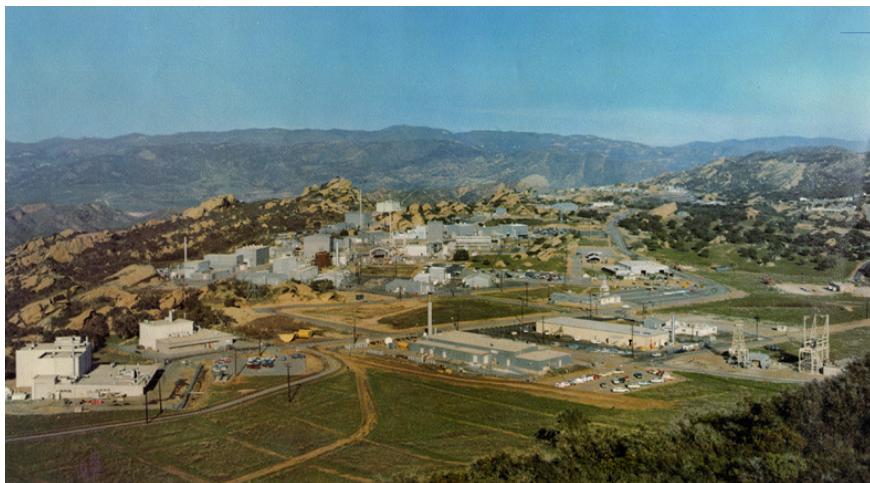


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Technical Tour

1. Los Angeles Stormwater Program Sites

The City of Los Angeles' award-winning Stormwater Program focuses on both flood control and pollution abatement and employs a multi-pronged approach, utilizing education, engineering, enforcement and evaluation to ensure Los Angeles' compliance with federal, state and local regulations and reduce the amount of stormwater pollution flowing into and through regional waterways.



2. The Santa Susana Field Laboratory (SSFL) is located 30 miles northwest of downtown Los Angeles in southeastern Ventura County. The cleanup program addresses contamination in soil, groundwater and, furthering progress toward restoration and preservation of ecosystem.



3. Spreading Ground

The use of water conservation facilities or spreading grounds adjacent to river channels and in soft-bottom channels permits water to percolate into groundwater basins for later pumping. These groundwater recharge facilities are located in areas where the underlying soils are composed of permeable formations and in hydraulic connection with the underlying aquifer.

