DAY 1 – SEPTEMBER 28, 2016

7:00 a.m. Registration/Continental Breakfast
8:15 a.m. Welcome, GRA President, Chris Petersen
     Event Chair, Jim Strandberg

Plenary Session: 2016 Charting the Course to Sustainability
Moderator: Jim Strandberg, West Yost Associates

8:30 a.m. – 8:45 a.m. Mark Cowin, Director, CA Department of Water Resources
8:45 a.m. – 9:00 a.m. Karen Ross, Secretary, CA Department of Food & Agriculture
9:00 a.m. – 9:15 a.m. Sustainable Groundwater Management: Roles and Responsibilities
     Steve Moore, Board Member, State Water Resources Control Board
9:15 a.m. – 9:30 a.m. Why Water Accounting is SGMA’s (and Groundwater Users’) Best Friend
     Ellen Hanak, Public Policy Institute of California
9:30 a.m. – 10:00 a.m. Discussion

10:00 a.m. – 10:10 a.m. Meet the Sponsors/Exhibitors
10:10 a.m. – 10:30 a.m. BREAK – Exhibit Hall – Transition to Concurrent Sessions

Concurrent Session: Track 1A: SGMA & Legal, Policy, and Compliance
Moderator: Matt Zidar, Independent Consultant

10:30 a.m. – 10:50 a.m. GSA Formation Update
     Mark Nordberg, Department of Water Resources
10:50 a.m. – 11:10 a.m. Pros and Cons of GSAs vs. Adjudications
     Kevin O’Brien, Downey Brand LLP
11:10 a.m. – 11:30 a.m. Relationship of SGMA to Other Planning Requirements and Processes
     Alisa Moore, Environmental Science Associates
11:30 a.m. – 11:50 a.m. Surface Flows, Sustainable Yield, Water Rights and SGMA
     Eric Robinson, Kronick, Moskovitz, Tiedemann & Girard
11:50 a.m. – 12:00 p.m. Discussion

12:00 p.m. – 1:00 p.m. Lunch & Keynote Speakers
Moderator: Chris Petersen, GRA President
12:10 p.m. – 12:20 p.m. Student Poster Flash Presentations
12:20 p.m. – 12:40 p.m. Groundwater: More or Less
     Rita Schimdt Sudman, Author and Water Education Foundation Senior Advisor
12:40 p.m. – 1:00 p.m. In-depth Analyses of Groundwater Best Management Practices Across the Western United States.
     Christina Babbitt, Manager, CA Groundwater Program, Environmental Defense Fund
1:00 p.m. – 1:30 p.m. BREAK – Exhibit Hall – Transition to Concurrent Sessions

Concurrent Session: Track 1B: Collegiate Colloquium
Moderator: Jean Moran, California State University East Bay

10:30 a.m. – 10:50 a.m. Using a Regional Surface Hydrology Model to Evaluate Locations for Distributed Stormwater Collection in Central Coastal California
     Sarah Beganskas, University of California, Santa Cruz
10:50 a.m. – 11:10 a.m. Groundwater Change in Storage Estimation by Using Monitoring Well Data
     Carlos Flores Arenas, University of California, Davis
11:10 a.m. – 11:30 a.m. Electrical Resistance Tomography in Coastal Aquifers Experiencing Seawater Intrusion
     Meredith Goebel, Stanford University
11:30 a.m. – 11:50 a.m. Enhancing Nitrate Removal During Controlled Managed Aquifer Recharge Experiments Using Reactive Barrier Technology
     Galen Gorski, University of California, Santa Cruz
11:50 a.m. – 12:00 p.m. Discussion
1:00 p.m. – 1:30 p.m. BREAK – Exhibit Hall – Transition to Concurrent Sessions

Concurrent Session: Track 2A: SGMA Planning & Considerations
Moderator: Christy Kennedy, RMC Water and Environment
1:30 p.m. – 1:50 p.m. CEQA and Groundwater Management Planning, Tom Barnes, Environmental Science Associates
1:50 p.m. – 2:10 p.m. Accumulated or Controlled Groundwater Overdraft and Vulnerability to Drought, Ruth Langridge, University of California, Santa Cruz
2:10 p.m. – 2:30 p.m. Innovative Groundwater Management in the Mojave Desert: A Case Study, Richard Booth, Lahontan Regional Water Quality Control Board (Retired)
2:30 p.m. – 2:50 p.m. Considerations and Opportunities for Developing Data Management Systems and Best Practices for SGMA Compliance, Matt Zidar, Independent Consultant
2:50 p.m. – 3:00 p.m. Discussion

Concurrent Session: Track 3A: SGMA & Technical Challenges for Groundwater Sustainability Plans
Moderator: Michael Burns, ESA
3:30 p.m. – 3:50 p.m. Data Availability and Assistance to GSAs, Steven Springhorn, Department of Water Resources
3:50 p.m. – 4:10 p.m. SGM Program Update - Best Management Practices for Groundwater Sustainability Plan Development and Implementation, Trevor Joseph, Department of Water Resources
4:10 p.m. – 4:30 p.m. Role of Managing Headwaters, Forestry Practices, and Reservoirs for Groundwater Management, Erfan Goharian, University of California, Davis
4:30 p.m. – 4:50 p.m. Integrating Climate Impacts Into Integrated Groundwater-Surface Water Models: A pilot Study Using Existing Data and Open Source Models, Juliet Christian-Smith, Union of Concerned Scientists
4:50 p.m. – 5:00 p.m. Discussion

3:00 p.m. – 3:30 p.m. BREAK – Exhibit Hall – Transition to Concurrent Sessions

Concurrent Session: Track 2B: Cleanup Approaches and Strategies
Moderator: Alyx Karpowicz, San Francisco Bay Regional Quality Control Board
1:30 p.m. – 1:50 p.m. Regional Water Quality Control Board’s Approach to Combined Remedies, Ron Goloubow, San Francisco Bay Regional Water Quality Control Board
1:50 p.m. – 2:10 p.m. Metabolites and Mixtures: Addressing Petroleum Contamination in Groundwater, Ross Steenson, San Francisco Bay Regional Water Quality Control Board
2:10 p.m. – 2:30 p.m. Value of Water Resources – The Next Step in Groundwater Remediation, Melissa Harderode, CDM Smith
2:30 p.m. – 2:50 p.m. Groundwater Basin Remediation in the City of Los Angeles, Evelyn Cortez-Davis, Manager of Groundwater Planning, Los Angeles Department of Water and Power
2:50 p.m. – 3:00 p.m. Discussion

Concurrent Session: Track 3B: Better Site Assessments
Moderator: Lisa Campbell, CDM Smith
3:30 p.m. – 3:50 p.m. Environmental Sequence Stratigraphy: A Focus on Geology for Improved Remediation Decision-Making, Rick Cramer, AECOM
3:50 p.m. – 4:10 p.m. Setting Boundaries: Using Geophysics to Build Better Site Models, John Jansen, Leggette, Brashears & Graham
4:10 p.m. – 4:30 p.m. Combining High Resolution Site, Inc. Characterization and 3D Visualization to Enhance the Conceptual Site Model, Lisa Campbell, CDM Smith
4:30 p.m. – 4:50 p.m. DYE-LIF™ – A New LIF Tool for Rapidly Delineating Chlorinated Solvent DNAPL in the Subsurface, Murray Einarson, Haley & Aldrich
4:50 p.m. – 5:00 p.m. Discussion
DAY 2 – SEPTEMBER 29, 2016

7:00 a.m. – 7:30 a.m. Registration/Continental Breakfast

7:00 a.m. – 8:30 a.m. Transition to Concurrent Sessions

Concurrent Session: Track 4A: Uplands and Lowlands & Surface Water/Groundwater Interaction
Moderator: Thomas Harter, University of California, Davis
8:30 a.m. – 8:50 a.m. Considering Groundwater Dependent Ecosystems and Interconnected Surface Water under SGMA: Tools, Mapping, and a Guidance Framework
Kirk Klausmeyer/ Melissa Rohde, The Nature Conservancy
8:50 a.m. – 9:10 a.m. Tools for Assessing Impacts on Beneficial Uses
Kristal Davis Fadtke, CA Department of Fish and Wildlife
9:10 a.m. – 9:30 a.m. Delineating Recharge Elevation in Headwater Catchments
Jean Moran, California State University East Bay
9:30 a.m. – 9:50 a.m. Groundwater Flow Modeling and Statistical Analysis of Potential Groundwater Pumping Impacts on a Perennial Stream in an Arid Watershed
Timothy Bayley, E.L. Montgomery and Associates
9:50 a.m. – 10:00 a.m. Discussion

10:00 a.m. – 10:30 a.m. BREAK – Exhibit Hall – Transition to Concurrent Sessions

Concurrent Session: Track 5A: Groundwater Replenishment/Recharge
Moderator: Adam Hutchinson, Orange County Water District
10:30 a.m. – 10:50 a.m. Water Independence Now - The Road to Locally Sustainable Water Resources in a Growing Urban Region
Lyndsey Bloxom, Water Replenishment District of Southern California
10:50 a.m. – 11:10 a.m. Importance of River Water Recharge to Selected CA Groundwater Basins
Ate Visser, Lawrence Livermore National Laboratory
11:10 a.m. – 11:30 a.m. 2013 Chino Basin Recharge Master Plan Implementation
Mark Wildermuth, Wildermuth Environmental, Inc.
11:30 a.m. – 12:00 p.m. Fifteen Years of Recharging Colorado River Water
Dick Thompson, Tucson Water
11:50 a.m. – 12:00 p.m. Discussion

Concurrent Session: Track 4B: Remediation Technologies
Moderator: Murray Einarson, Haley & Aldrich
8:30 a.m. – 8:50 a.m. A Technology Platform to Harness Speed and Certainty in Groundwater Remediation
Dan Nunez/Steve Nigro, Regenesis
8:50 a.m. – 9:10 a.m. 1,4-Dioxane Remediation by Soil Vapor Extraction for Groundwater Protection
Rob Hinchee, IST
9:10 a.m. – 9:30 a.m. Tools for Assessing Impacts on Beneficial Uses
Kristal Davis Fadtke, CA Department of Fish and Wildlife
9:30 a.m. – 9:50 a.m. Risk Management Strategies to Address Vapor Intrusion Assessment and Mitigation Uncertainties
Robert Ettinger, Geosyntec Consultants
9:50 a.m. – 10:00 a.m. Discussion

Concurrent Session: Track 5B: Modeling and Visualization
Moderator: Steve Phillips, United States Geological Survey
10:30 a.m. – 10:50 a.m. Global Sensitivity Analysis of Land Surface Model Predictions to Model Parameters: An Applied Case Study in California’s Central Valley
Colin Kikuchi, E.L. Montgomery and Associates
10:50 a.m. – 11:10 a.m. Leveraging Advanced Modeling & Visualization Methods to Support Sustainable Groundwater Management in California
Todd Kincaid, GeoHydros, LLC
11:10 a.m. – 11:30 a.m. Hydrologic Modeling Needs to Support SGMA Basin Scale or Local Scale Models?
Ali Taghavi, RMC Water and Environment
11:30 a.m. – 12:00 p.m. The New MODFLOW
Joe Hughes, United States Geological Survey
12:00 p.m. – 1:30 p.m.  Lunch Program  
Moderator: Chris Petersen, GRA President  
GRA’s 25th Annual Meeting; Presentation of the 2016 Lifetime Achievement Award and Announcement of 2017 David Keith Todd Distinguished Northern and Southern California Lecturers

1:30 p.m. – 2:15 pm  
**Southern California David Keith Todd Lecturer, Behrooz Mortazavi, Ph.D., P.E., Principal, Water Resources Engineers, Inc.**  
*Role of Groundwater in Integrated Water Resources Management*  
Moderator: Lisa O’Boyle, Geosyntec Consultants

2:15 p.m. – 3:00 pm  
**Northern California David Keith Todd Lecturer, Miranda Fram, Ph.D., Geochemist Program Chief, Groundwater Ambient Monitoring and Assessment Priority Basin Project, United States Geological Survey**  
*Quality of Groundwater Used for Drinking Water Supplies in California*  
Moderator: Lisa O’Boyle, Geosyntec Consultants

3:00 p.m. – 3:15 p.m.  BREAK – Exhibit Hall

**Closing Panel: Next Steps to Manage Groundwater Sustainability: Planning and Beyond**  
**Moderator: TBA**

3:15 p.m. – 4:45 p.m.  
**David Gutierrez**, Executive Manager, Sustainable Groundwater Management Program, Department of Water Resources  
**David Guy**, President, Northern California Water Association  
**Eric Ekdahl**, Director, Office of Research, Planning, and Performance, State Water Resources Control Board  
**Kristin Babson Dobbin**, Community Water Center

4:45 p.m. – 5:00 p.m.  Closing Remarks
Poster Presentations

San Juan Basin Groundwater Desalination and Optimization Program
Samantha Adams, Wildermuth Environmental, Inc.
The Big Shuffle & Potential Implications of the Proposed Basin Boundary Modifications and Opportunities for Future Modification Periods
Tim Allan, Erler & Kalinowski, Inc.

Design and Modeling of Effluent Recharge and Recovery for Potable Reuse in Conjunction with Segregated Recharge and Recovery of Colorado River Water
Hale Barter, Errol L. Montgomery & Associates

Balancing Maximum Groundwater Production and Conservation
James Beach, LBG-Guyton Associates

Integration of Hydrological Data to Facilitate Monitoring and Decision Making
Eric Chiang, Wildermuth Environmental, Inc.

Successful Bioremediation of 1,4-Dioxane Contaminated Groundwater Using Aerobic Cometabolism
Min-Ying Jacob Chu, Haley & Aldrich

Creative Approaches to Groundwater Sustainability Plan Development
Courtney Davis, Allen Matkins Leck Gamble Mallory & Natsis LLP (Invited)

Groundwater Monitoring at a Nuclear Generating Station
Emma Freeman, Ecology and Environment, Inc.

An Adaptive Pumping Volume Allocation Method Based on Index Well Hydrographs
Christopher Heppner, Erler & Kalinowski, Inc.

Assessing Irrigation Demand Under Drought Conditions with the USGS GSFLOW Model
Dirk Kassenaar, Earthfx Inc.

Replenishing and Recharging Groundwater with the EGRP
Joe Kramer, Director of Market Development at Parjana Distribution (Invited)

Development and Application of the Santa Margarita Basin Groundwater Model, Scotts Valley, California
Michael Maley, Todd Groundwater

Benefits of a 3D Regional Approach to Modeling and Visualization of Plume Capture at a Contaminated Site in Southern California
Brent Meyer, GeoHydros, LLC

Appropriate Technology Solutions for Addressing Drinking Water Challenges in Rural India
Dandu Radha Prasada Raju, MVGR College of Engineering, Vizianagaram, India

Using 3D Geologic Models for Regional Groundwater Resource Management
Staffan Schorr, Montgomery & Associates (Invited)

Evaluation of Downscaled Climate Data and Simulated Hydrologix Datasets
Abhishek Singh, Intera Incorporated

Managing Multi-Million Dollar Recharge Projects: You too can do it!
Margaret Snyder, Tucson Water

First Steps in Inter-Basin Coordination for SGMA: Basin Boundary Modification Requests in Santa Cruz County
Cameron Tana, HydroMetrics Water Resources, Inc.

Hydrologic Characterization of an Experimental Peat Bog in Minnesota
Nathan Veale, California State University, East Bay, Hayward, CA

Recalculation of the Safe Yield for the Chino Basin
Mark Wildermuth, Wildermuth Environmental, Inc.

Nitrate Leaching Risk from Specialty Crop Fields During On-Farm Floodwater Recharge in the Kings Groundwater Basin
Hannah Waterhouse, California State University, East Bay, Hayward, CA

Modeling the Adsorption Properties of GAC
Drew York, Lawrence Livermore National Lab and CSU East Bay

Groundwater Sustainability and Water Quality Degradation in the Tulare Basin
Guo Zhilin, University of California, Davis
Cooperating Organizations
California Department of Water Resources  | State Water Resources Control Board  | California Department of Food and Agriculture  | California Department of Fish and Wildlife  | California Department of Toxic Substances Control  | San Francisco Bay Regional Water Quality Control Board  | United States Geological Survey  | California State University East Bay  | U.C. Davis  | U.C. Water Institute  | Orange County Water District  | Water Education Foundation  | The Nature Conservancy  | Water in the West  | Association of California Water Agencies  | National Ground Water Association  | International Association of Hydrogeologists

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