

# Schedule – Wednesday, May 5, 2010

| AZ WATER 2010 ANNUAL CONFERENCE PROGRAM – WEDNESDAY, MAY 5, 2010 |   |
|--|---|
| 7:00 - 5:00  | MANUFACTURER'S EXHIBITION   |
| 8:00 - 5:30  | TECHNICAL PROGRAM   |
| 7:00 - 8:00  | BREAKFAST BUFFET  |
| 8:00 - 10:30   | OPENING SESSION / KEYNOTE ADDRESS / CAWCD PANEL DISCUSSION<br>AWARDS PRESENTATION   |
| 10:30 - 12:00  | MANUFACTURER'S EXHIBITION AND BREAK   |
| 12:00 - 1:00   | LUNCHEON PROGRAM WITH OPERATOR-RELATED AWARDS   |
| 1:00 - 1:30  | TRACK 1<br><b>Modeling of Water Resources</b><br>Moderator: <i>Wally Wilson</i><br>Hydraulic Modeling: Yesterday, Today, and Tomorrow   |
| 1:30 - 2:00  | TRACK 2<br><b>Water Reclamation</b><br>Moderator: <i>Andrew Gilmore</i><br>Cave Creek WRF<br>Startup at the City of Peoria's Butler Drive   |
| 2:00 - 2:30  | TRACK 3<br><b>Water Treatment</b><br>Moderator: <i>Uday Gandhi</i><br>Start-up Experience of a 20 MGD Ultra Filtration System Plant   |
| 2:30 - 3:00  | TRACK 4<br><b>Regulatory Issues</b><br>Moderator: <i>Karissa Entininger</i><br>Proposed Changes to the Total Coliform Rule  |
| 3:00 - 3:30  | TRACK 5<br><b>Water Resources</b><br>Moderator: <i>Wally Wilson</i><br>Resolution Copper Mining De-watering, Conveyance and Beneficial Reuse – Part 1: Design, Construction, and Operation          |
| 3:30 - 4:00  | TRACK 6<br><b>Water Reclamation</b><br>Moderator: <i>Robert Hollander</i><br>Manufacturer's Exhibition Break  |
| 4:00 - 4:30  | TRACK 7<br><b>Water Resources</b><br>Moderator: <i>Wally Wilson</i><br>Resolution Copper Mining De-watering, Conveyance and Beneficial Reuse – Part 2: Blending & Beneficial Agraicl. Reuse Program |
| 4:30 - 5:00  | TRACK 8<br><b>Water Resources</b><br>Moderator: <i>Wally Wilson</i><br>Yuma Desalting Plant Pilot Run – Status Reports<br>Significant Outcome   |
| 5:00 - 5:30  | TRACK 9<br><b>Water Resources</b><br>Moderator: <i>Wally Wilson</i><br>Future H2O – New Research Initiatives of Water Quality Improvement Center  |
| 5:30 - 7:00  | RECEPTION AND AWARDS  |
| 7:00   | CONTINUING SOCIAL – WESTGATE (ON YOUR OWN)  |

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# Schedule – Friday, May 7, 2010

| AZ WATER 2010 ANNUAL CONFERENCE PROGRAM — FRIDAY, MAY 7, 2010 |   |  |   |   |   |  |
|---|---|--|---|---|---|--|
| TOUR: Peoria Butler Drive Water Reclamation Facility          |   |  |   |   |   |  |
| TECHNICAL PROGRAM   |   |  |   |   |   |  |
| CONTINENTAL BREAKFAST   |   |  |   |   |   |  |
| TIME  | TRACK 1   | TRACK 2  | TRACK 3   | TRACK 4   | TRACK 5   | TRACK 6  |
| 6:30 - 7:30   | REGISTRATION 7:00 - 12:00   |  |   |   |   |  |
| 8:00 - 8:30   | REGISTRATION 7:00 - 12:00   |  |   |   |   |  |
| 7:00 - 8:00   | REGISTRATION 7:00 - 12:00   |  |   |   |   |  |
| 8:00 - 8:30   | <b>TRACK 1</b><br>Cira A<br><i>Energy Conservation, Renewable Energies and Carbon Footprint</i><br>Moderator: <i>Fernando Sarmento</i><br>Carbon Regulatory Trends and Renewable Energy Opportunities | <b>TRACK 2</b><br>Cira B<br><i>Water For People</i><br>Moderator: <i>Andrea Odegaard-Begay</i><br>An Introduction to Water For People  | <b>TRACK 3</b><br>Cira C<br><i>Wastewater Collection</i><br>Moderator: <i>John Masche</i><br>How Many Funding Agencies Does It Take To Make A Project?  | <b>TRACK 4</b><br>Solana F-6<br><i>Water Resources</i><br>Moderator: <i>Wally Wilson</i><br>Resource/Distribution System Optimization Leads to Additional Savings | <b>TRACK 5</b><br>Solana H<br><i>Water Distribution and Treatment</i><br>Moderator: <i>Michael Simpson</i><br>Protecting Critical Infrastructure – The COP Reservoir Condition Assessment Program | <b>TRACK 6</b><br>Solana I<br><i>Disinfection Byproducts and Disinfection</i><br>Moderator: <i>Maureen Hymel</i><br>Revisiting the EPA's Stage 2 Disinfectants and Disinfectant Byproduct Rule |
| 8:30 - 9:00   | The Economics of FOG<br>Photobioreactor Platforms: Solar-Powered, Carbon-Neutral, and Sustainable Technologies for Tomorrow   | Appropriate Treatment Technologies for Use in Developing Areas<br>Film: The American Southwest: Are We Running Dry?  | Tracking Down the Roots<br>PVC Lines: Sanitary Sewer Rehabilitation   | Squeezing Every Drop For The Future – What To Learn From Chino Valley<br>Flagstaff, Arizona Water Supplies – What is Sustainable?                                 | Union Hills WTP Zone 4, 108 Inch Mainline Replacement: Repair Options and Design Considerations<br>Pilot Aeration Reduces THMs  | Mesa's DBP Reduction Master Plan Part 2: WTP and Distribution System Optimization and Implementation<br>"A Tale of Two Models": Optimizing Water Production & Distribution                     |
| 9:00 - 9:30   | LCA and Emerging Finance Mechanisms for Energy, Water and GHG Reduction   |  |   |   |   |  |
| 9:30 - 10:00  |   |  |   | Planning Strategy in a Changing Climate   | Aeration Strategies for THM Control   | How 3D Modeling Assisted in the Selection of a Chemical Mixing System  |
| 10:00 - 10:30   | <b>BREAK</b>  |  |   |   |   |  |
| 10:30 - 11:00   | <b>Energy/Carbon Footprint</b><br>Moderator: <i>Fernando Sarmento</i><br>Wastewater Treatment Plant Waste-to-Energy Case Studies  | <b>Reuse/Recharge</b><br>Moderator: <i>Roy Craft</i><br>Point of Compliance Monitor Well Nitrates, A New Paradigm  | <b>Research</b><br>Moderator: <i>Steve Davis</i><br>Quentin Mees Presentation   | <b>Wastewater Treatment and Operations</b><br>Moderator: <i>Doug Koback</i><br>Innovative Approach to Centrate Nitrification Accomplishes Multiple Goals          | <b>Green/Sustainability</b><br>Moderator: <i>Michael Simpson</i><br>Cutting WWTP Costs Where It Counts the Most   | <b>Disinfection Byproducts and Disinfection</b><br>Moderator: <i>Sreeram Renganga</i><br>Selection of Activated Carbon for the Removal of Disinfectant Byproduct Precursors                    |
| 11:00 - 11:30   | Assessment of Electrical and Thermal Energy Needs, Requirements and Supply Options for the Ina Road WRF   | The Planning and Implementation of a Municipal Non-Potable Water System<br>So You Have an APP – Now What?  | Alluvial Filtration to Control DOC and DBP Formation – Centralized vs Decentralized<br>Desalination of Central Arizona Project Water in Tucson – Cost Comparison of Methods for Minimizing Brine Losses | When Good Instrumentation Goes Bad: Sahuarita WWTP Startup  | Water System Energy Efficiency and Electrical Rate Structures   | Balancing Treatment and Disinfection for DBP Control   |
| 11:30 - 12:00   | Energy Savings and Cost Reduction – Practical Applications for Engineers and Operators  |  |   | Gentlemen Synchronize Your Watches: Maintaining Operations in Chandler's WRF Expansion  | Money Saving Opportunities For Utilities Through Solar Energy   | Using Every Tool in the Toolbox – Phenix Lakes Its Distribution System to Gain THM LMAA Stage 2 Rule Compliance  |
| 12:00 - 1:30  | <b>LUNCHEON PROGRAM WITH AWWA NATIONAL SPEAKER / AZ WATER ANNUAL BUSINESS MEETING</b>   |  |   |   |   |  |
| 1:30 - 2:00   | <b>TRACK 1</b><br><b>Utility Management</b><br>Moderator: <i>John Getchell</i><br>Where's the Manual? An Internet-Based Solution  | <b>TRACK 2</b><br><b>RO/Salinity/Reuse</b><br>Moderator: <i>Roy Craft</i><br>It's the Salt: Evaluation of Alternatives to Mitigate Intermittent Reclaimed Water Toxicity at the Cave Creek WRP | <b>TRACK 3</b><br><b>Research</b><br>Moderator: <i>Steve Davis</i><br>Updates on Industry Research: A Summary of New Information and Reports You Need to Know About                                     | <b>TRACK 4</b><br><b>Water Distribution</b><br>Moderator: <i>Aimee Conroy</i><br>Hydraulic Modeling Yields Surprising Results                                     | <b>TRACK 5</b><br><b>Water Treatment</b><br>Moderator: <i>Dale Conover</i><br>Pilot Testing of Nitrate-Contaminated Water: Ion Exchange vs. Biological Treatment                                  | <b>TRACK 6</b><br><b>Disinfection Byproducts and Disinfection</b><br>Moderator: <i>Richard Sacks</i><br>Bench Scale Study of Chlorine Dioxide as a Pre-Treatment Option for THM Mitigation     |
| 2:00 - 2:30   | An Alternate Approach to Evaluating the Productivity of Field Crews   | Pilot Study of Reverse Osmosis for Salinity and Trichloroethane Removal in Reclaimed Water   | Assessing and Improving Water Sustainability With Water Reclamation   | Too Much Pressure? Basic Water System Design  | Uranium Removal in a Multi Containment Groundwater Source   | Using Chlorine Dioxide to Reduce THM Formation   |
| 2:30 - 3:00   | Protecting Your Water Supply and Your Bottom Line: Shifting Treatment Costs From Ratepayers to Polluters  | Expansion of Scottsdale's Water Campus Reverse Osmosis System Using Large Diameter Technology  | Emerging Contaminants in Arizona Waters – Pharmaceuticals to Nanomaterials  |   | Multiple Benefits from a Centralized Pellet Softening Project   | Startup/Commissioning Leading up to Chlorine Dioxide Demonstration Testing at DWWT   |
| 3:00 - 3:30   |   | Post RO Conditioning Using Limestone Bed Contractors for Copper Corrosion Control  | Toward Sustainable Water and Wastewater Infrastructure: Recent Initiatives and Next Steps   |   | Low Level Phosphorus Supplementation Enhances Biological Performance and Treatment Efficiency   | Batch Test Modeling of Chemical and Biological Interactions that Occur in Chlorinated Drinking Water   |
|   |   |  |   |   |   | <b>TRACK 7</b><br>Aurora A<br><i>Committee Meetings</i>  |
|   |   |  |   |   |   | <b>ANNUAL CONFERENCE PLANNING</b>  |

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