

5<sup>th</sup> Annual Grand Junction Wastewater Conference  
March 24<sup>th</sup>, 25<sup>th</sup>, 26<sup>th</sup>

## Compliance and Operations Track

Wednesday, March 24, 2010

8:00 am to 4:30 pm

Two Rivers Convention Center, Grand Junction, Colorado

<u>TIME</u>	<u>TOPIC</u>
<b><i>PERMIT NEGOTIATIONS WORKSHOP</i></b>	
7:30 – 8:00	Registration/Networking
8:00 – 8:10	Introduction— <i>Dennis Stowe</i>
8:10 - 9:15	CWQCD - District Engineer's Perspective - <i>Tom Shaffer, Grand Junction Office, Colorado Water Quality Control Division</i> <ul style="list-style-type: none"><li>• Do You Need To Expand Your WWTP or Build A New One?</li><li>• Role of District Engineers in Site Applications, Design Reviews, Compliance Inspections, and Assisting WWTP</li><li>• Lagoons – Compliance Issues</li></ul>
9:15 - 10:15	The WQCD Permitting Perspective - <i>Andrew Neuhart, Assessment Based Permits Unit Manager, Colorado Water Quality Control Division</i> <ul style="list-style-type: none"><li>• The Complete Application</li><li>• Elements of Permitting</li><li>• The Permit and Fact Sheet</li><li>• Opening Existing Permits</li><li>• Permitting Complications and Nuances</li></ul>
10:15 – 10:30	<i>Break</i>
10:30 – 11:30	Permitting and Compliance— <i>Dennis Stowe, Plant Manager, Littleton/Englewood Wastewater Treatment Plant</i> <ul style="list-style-type: none"><li>• Some Do's and Don'ts</li><li>• Effective Negotiating</li><li>• Non-compliance Notifications</li><li>• Other Issues</li></ul>
11:30 – 12:30	Permitting Issues— <i>Jennifer Richards, Water Quality Engineer, CH2M Hill</i> <ul style="list-style-type: none"><li>• TMDLs, Watersheds, Trading, Anti-degradation, CMOM and MORE</li></ul>
12:30 – 1:15	Lunch (provided)
1:15 – 2:15	After Permitting— <i>Erin Scott, Colorado Water Quality Control Division</i> <ul style="list-style-type: none"><li>• Schedules, Modifications, Amendments, Collecting Instream Data, PQLs, Extensions, etc.</li></ul>
2:15 - 2:40	Colorado Water and Wastewater Mentoring Program, <i>Dennis Stowe, Colorado Wastewater Utility Council</i> <ul style="list-style-type: none"><li>• Elements of Program</li><li>• Case Studies</li></ul>
2:40 – 2:50	<i>Break</i>
2:50 – 4:30	<b><i>"WHAT TO DO WHEN THE NUMBERS DIFFER"</i></b> Troubleshooting online instrumentation vs. lab data, <i>Bob Dabkowski, Hach Company</i>

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## Compliance and Operations Track

Thursday, March 25, 2010

8:00 am to 4:30 pm

Two Rivers Convention Center, Grand Junction, Colorado

7:30 - 8:00	Registration/Networking
8:00 - 8:10	Introduction/Welcome
8:10 – 9:10	Colorado Environmental Crimes Task Force, <i>Investigator Troy Arnold, Colorado Attorney General's Office</i> <i>Special Agent Michael Bergin – United States EPA, Criminal Investigations</i> <i>Assistant Attorney General Michael Melito, Colorado Attorney General's Office</i> <ul style="list-style-type: none"><li>• Update on Task Force</li><li>• Colorado and Federal Environmental Law Statutes</li><li>• Case studies – the “nuts and bolts” of a criminal case</li></ul>
9:10 – 10:00	Liquid Hydrocarbon Detection, <i>Daniel C. Morgan, InterOcean Systems</i> <ul style="list-style-type: none"><li>• Plant and personnel protection</li><li>• NPDES and SPCC compliance</li></ul>
10:00 – 10:10	<i>Break</i>
10:10 – 11:15	Whole Effluent Toxicity Testing and Toxicity Identification Evaluation (WET/TIE) <i>David Pillard, Ph.D, Program Manager,</i> <i>Senior Toxicologist Environmental Toxicology, AECOM Environment</i>
11:15 – 12:15	Treatment of Toxic Constituents <i>H.C. Liang, Ph.D., Senior Engineer</i> <i>Water Chemistry and Process Technical Lead, Tetra Tech</i>
12:15 – 1:00	<i>Lunch (provided)</i>
1:00 – 2:00	NPDES and Mixing Zones, Achieving Compliance with Effluent Diffuser Systems, <i>Michael Duer, P.E., Red Valve Company</i>
2:00 – 3:00	Achieving Sufficient Mixing Energy and Oxygen Transfer w/ Diffused Aeration Systems. <i>Jeffrey T. Kelly, Aeration &amp; Mixing Systems Product manager, Tideflex Technologies</i>
3:00 – 3:10	<i>Break</i>
3:10 – 4:30	“You mean they didn’t teach you this stuff in school?” Bridging the Communication Gap Between Operators and Engineers. <i>Heidi Bauer, Wastewater Treatment Process Engineer, CH2M HILL</i> <i>and</i> <i>Candy Burbridge, ORC at Red Cliff WWTP and Wastewater Projects Specialist for the Eagle River Water &amp; Sanitation District</i>

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## Maintenance and Collection System Track

Wednesday, March 24, 2010

8:00 am to 4:30 pm

Two Rivers Convention Center, Grand Junction, Colorado

7:30 - 8:00	Registration/Networking
8:00 - 8:10	Introduction/Welcome
8:10 – 10:20	Machinery Vibration Monitoring, <i>Amitabh Khosla, Western Region Manager, Metrix Instruments Co.</i> <ul style="list-style-type: none"><li>• Basics and Best Practices of Machinery Vibration Monitoring</li><li>• Protection &amp; Fault-diagnostics</li></ul>
10:20 – 10:30	<i>Break</i>
10:30 – 12:00	Name that Sound, <i>Mike Pierce, Regional Manager, UE Systems</i> - Using Ultrasound (high frequency emissions) monitoring for Predictive Maintenance for: Air Leaks <b>Mechanical Inspection:</b> bearing faults (all speeds), lack of lubrication, prevent over lubrication, compressors, pumps, motors, gears/gear boxes, hydraulic systems, fans, couplings. Electrical
12:00 – 12:45	<i>Lunch</i>
12:45 – 2:00	Lift Station Design (Part 1), <i>Rob Demis, P.E., Richard P. Arber Associates</i> Basic Pump Types, Reading Pump Curves, Basic Hydraulics, System Curves
2:00 – 2:10	<i>Break</i>
2:10 – 3:00	Lift Station Design (Part 2), <i>Rob Demis, P.E., Richard P. Arber Associates</i> Design Regulations, Common Lift Station Types, Redundancy and some examples of what NOT to do.
3:00 – 3:10	<i>Break</i>
3:10 – 4:15	Vacuum Sewer Collection Systems, <i>Mike Moss, AIRVAC, INC</i> When are they advantageous Design Considerations
4:15 – 4:30	Rocky Mountain Section American Water Works Association / RMWEA Joint Young Professionals Committee, <i>Heidi Bauer, Co-Chair of Rocky Mountain Young Professionals Committee</i>

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## Maintenance and Collection System Track

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7:30 - 8:00	Registration/Networking
8:00 – 10:00	Workzone Safety with Flagger Certification
10:00 – 10:10	<i>Break</i>
10:10 – 11:00	Workzone Safety with Flagger Certification, (Continued) <i>Tim Longbrook, CIRSA</i>
11:00 – 12:30	Seals and Gaskets, <i>Phil Boltz, Territory Manager, Garlock Sealing Technology</i> <ul style="list-style-type: none"><li>• Types, styles and applications</li><li>• Materials compatibility</li><li>• Installation and replacement practices</li><li>• Importance of bolt torque</li></ul>
12:30 – 1:15	<i>Lunch (Provided)</i>
1:15 – 2:15	Managing H2S Odors and Corrosion Control, <i>Rick Allen, BioLynceus, llc.</i>
2:15 – 2:25	<i>Break</i>
2:25 – 3:35	Mitigating Grease and other Pollutants
3:35 – 3:45	<i>Break</i>
3:45 – 4:30	Types and application of Sewer Jetting Nozzles, <i>Alan Lloyd, Stoneage Tools</i>

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## Combined Operations, Maintenance, and Collection System Track

Friday, March 26<sup>th</sup>, 2010

8:00 am to 11:45 pm

Held at

### Persigo Wastewater Treatment Plant

7:30 - 8:00	Registration/Networking
8:00 – 9:00	Spill Response. Regulations and Coordination. <i>Brandi Manuppella, Firefighter/Haz Mat Technician &amp; John Hall, Captain, Fire Unit Supervisor, Grand Junction Fire Department</i>
9:00 – 10:20	Atmospheric Monitoring and Respiratory Protection Considerations, <i>Doug Herman, Oilind Safety inc &amp; Terry Gray, Sr. Process Safety Advisor, Oilind Safety</i>
10:20 – 10:30	<i>Break</i>
10:30 – 11:45	Confined Space Rescue and Fall Protection Equipment, <i>Matt Schmidt, Shur- Sales</i>