

Financial Assistance Grants-in-Aid Available

The Water Environment School Committee in conjunction with the Oregon Region of the PNCWA is again sponsoring "Grant-in-Aid" assistance to attend the 30th Annual School at CCC. Grants will be given up to \$250 for expenses, and the three-day registration fee will be waived. These grants are intended for individuals who have been unable to participate in organized training programs due to local training budget constraints, travel distance to training opportunities, or other support issues.

To apply for a "Grant-in-Aid" you must make a written request to the Oregon Region PNCWA Education Selection Committee postmarked no later than Friday, March 17th, 2006. Please include (on official letterhead) your wastewater treatment facility/collection system type, size, and staffing level; include your name, certification grade, and a general statement of funding need. All applications will be evaluated and support awards will be dependent on the number of applications that are received, the funding amount being requested, and the availability of funds for distribution this year. Mail your application to:

M. Steven Desmond
Operator Certification Coordinator
Water Quality Division
Oregon Department of Environmental Quality
400 East Scenic Drive, Suite 307
The Dalles, OR 97058

Oregon Toll-free: 1-800-452-4011
Phone: (541) 298-7255, ext. 35
Fax: (541) 298-7330
E-Mail: desmond.steve@deq.state.or.us

Good luck and we hope to see you at the School!

PNCWA Membership Information

The Pacific Northwest Clean Water Association (PNCWA) is one of the member associations to the Water Environment Federation (WEF). Our association promotes environmental education and issues throughout the world, yet brings needed information, assistance, and training to the local operations level. This year, you will have the opportunity to discuss the benefits of joining this most prestigious and cooperative association of wastewater professionals. For information contact John Lewis at Clackamas Community College by phone at (503) 657-6958 ext. 2206. He will mail you a WEF/PNCWA application or have one ready for you at this year's Water Environment School.



2006 Manufacturer's Representatives Exhibit

This year's manufacturer/exhibitor display will be on Wednesday, March 29, 2006 in Randall Gymnasium. There is still time to reserve a table; please call Mark Stetzel at 503-682-1231 or e-mail: stetzel@ci.wilsonville.or.us for more information.

Please plan to visit the exhibitor's display on Wednesday!!

Ag Chem Equipment

APSCO

Bainbridge Associates Inc

Beaver Equipment

Beckwith & Kuffel

BEN-KO-MATIC

Correct Equipment

Drummond American

Enviroclean

General Equipment

Goble Sampson

Inland Technology Inc

McQuire Bearings

Munnell & Sherrill Inc

NRC Services

Pacific Power Vac

Public Works Supply

Rain for Rent

Reed Electric

River City Environmental

Ryan Herco


Specialty Coating

Titus Industrial Group Inc

Trade Tool & Supply Corp

Lodging Information

This list provides you with a few motel choices. The college is located only 5 minutes south off I-205 (Park Place Exit #10), which makes access from this freeway quick and easy. When making your reservation, be sure to mention "Clackamas Community College Water Environment School" to ensure that you are quoted the rates listed here.

<p><u>Rivershore</u> 1900 Clackamette Drive Oregon City, OR 97045 1-4 people/room with 1 or 2 beds. \$65* Local Phone: (503) 655-7141 Toll Free Phone: 1-(800) 443-7777 *Add 11% city and county tax. Includes full breakfast.</p>	<p><u>Sunnyside Inn Motel</u> 12855 S.E. 97th (I-205/Sunnyside Exit 14 Clackamas, OR 97015 1-4 people/room with 1 or 2 beds: \$59* Local Phone: (503) 652-1500 Toll Free Phone: 1-(800) 547-8400 *Add a 7% county tax. Includes continental breakfast.</p>
<p><u>Days Inn</u> 9717 S.E. Sunnyside Road (I-205 at Exit #14) Clackamas, OR 97015 1-4 people/room: \$59* Phone:(503) 654-1699 or: 1-(800) 325-2525 *Add a 7% county tax. Includes continental breakfast.</p>	<p><u>Hampton Inn</u> 9040 S.E. Adams Clackamas, OR 97015 (I-205 @ Clackamas/Estacada Exit #12 from the South and Exit #12A from the North) Single/Double: \$69* All Reservations, Phone:(503) 655-7900 * Add a 7% county tax. Includes continental breakfast and free evening reception.</p>
<p><u>Oxford Suites</u> 75 82nd Drive (by Safeway Store) Gladstone, Oregon 97027 (I-205 @ Gladstone Exit # 11) 1-2 people/room: \$69* 100% Non-smoking Phone:(503)722-7777 or: 1-877-558-7710 * Add a 7% county tax Oxford Suites serves a complete breakfast and evening hors d'oeuvres & beverages</p>	

DEQ Testing

Friday, March 31th, 2006

(Application Deadline: February 1, 2006)

The Oregon Department of Environmental Quality will administer the certification exams in all grades (I-IV) for both wastewater treatment and wastewater collection systems on Friday, March 31st, 2006 (8:30 am – 12:30 pm) at Clackamas Community College, Pauling Center, Room P101, in Oregon City. You must apply to the DEQ by February 1, 2006 and receive approval prior to testing in March. You will need to attach to your application proof, that you have met, or will meet within 4 months following the month of the exam, the education requirements for the certificate sought. Required documents include a copy of your High School Diploma, GED certificate or equivalent, and for all post high school claims, copies of college or university transcripts, and certificates of continuing education (CEUs or training hours). The Water Environment School will offer you the opportunity to meet a minimum of 2.0 CEUs for certificate renewal. For applications and further information, contact the DEQ Certification Program Office, at (503) 229-5622 or toll free in Oregon 1-800-452-4011, ext. 5622. **Do this immediately.**

Current application forms, certification rules, fees and exam information may also be found on the DEQ website at:

www.deq.state.or.us/wq/opcert/opcert.htm

✧ Thank You ✧

Water Environment School Committee

Chair: Bob Watson

Co-chair: Monica Anderson

Treasurer: Pam Flynn-Anderson

Registration: Brandy Bowers

Dick Parker-Resnick

Bruce Robbins

Mike Stebbins

Section 1 - Operations – McLoughlin Theater

Gary Young, Steve Yoder

Section 2 – Source Control – Pauling Center, P101

Diana Lindoff, Brad Rumbaugh, Cloudy Sears, Angie Tomlinson

Section 3 - Collections – Gregory Forum, 108A

Tom Binder, Jim Lowe

Section 4 - Maintenance – Pauling Center, P132

Buck Buckland, Mark Walter

Section 5 – Management and Supervision – Community Center, CC 127

Joel Borchers, Mark Poling, Tom Stow

Section 6 – Wastewater Basics – Pauling Center, P131

Monica Anderson, Steve Desmond

Section 7 – Biosolids Management – Pauling Center, P102

Tim Killingbeck, Bob Watson

Section 8 – Stormwater – Gregory Forum, 108 B & C

Luke Bushman, John Nagy, Shaun Rohret

Section 9 - Safety – DeJardin Hall, DJ191

Faye Lindroos

Section 10 - Laboratory – Pauling Center, P164

Victoria Boettcher, Charles Lytle, Jan Wilson

Section 11 - Technology – DeJardin Hall, DJ233

Erin Duffey, Steve Hanson, Greg Murray

Manufacturer Display – Randall Gymnasium

Mark Stetzel, Gus Wettstein

Section 1
Operations
McLoughlin Theater

Tuesday

- 8:00 **Opening Ceremony – Randall Gymnasium**
- 9:00 **Environmental Crimes: Gathering Evidence for Successful Criminal Prosecution** -- Bob Kalutkiewicz, EPA
- 10:00 **Nitrification** – Terry Dokken, OMI
- 11:00 **Filamentous Control – Lebanon Case Study** – Brian Helliwell, OMI
- 1:00 **Cannibalization Process** – William Reilly, Jr.
- 2:00 **Environmental Compliance** – John Keady, OMI
- 3:00 **Data and Information Storage – Spreadsheet vs Database** – Gary Young, OMI
- 4:00 **Anaerobic Digestions** – Mike Re, CH2M Hill

Wednesday

- 8:00 **Spill Response: The 0 to 150 MPH in 1 Second Syndrome – Warp Speed Decision Making** – Eric Quinn, City of Riddle
- 9:00 **Big Pipe** – Bob Owen, City of Portland
- 10:00 **Nutrient Removal – Phosphorous** – Bill Leaf, CH2M Hill
- 11:00 **Nutrient Removal – Phosphorous – Continued**
- 1:00 **WWTP Temperature Compliance & the Oregon Temperature Std.** – Stuart Childs, Kennedy/Jenks
- 2:00 **Manufacturer’s Display – Randall Gym**
- 3:00 **Wastewater Collection System Odor Control** – Mark Smith, HDR
- 4:00 **Integrating O & M Staff in Asset Mgmt. Program Development** – Blair Troutman, Blue Water Counseling

Thursday

- 8:00 **Hubbard WWTP Conversion to Selector-Activated Sludge**
Preston Van Meter, Kennedy/Jenks
- 9:00 **The “Energy Star” Pump Station: Issues Contributing to Energy Efficient Operation** -- Jeremy Holland, CDM
- 10:00 **Vernonia WWTP Expansion** -- Jenny Coker, Kennedy/Jenks
- 11:00 **Introduction to Industrial Pretreatment (IPT101)** -- Kenn Carter, City of Dallas
- 1:00 **Developing Odor Control Strategy for Your Treatment Plant** -- Dale Richwine, MWH
- 2:00 **Pump Station Design and Operation** -- Wally McCullough, West Yost
- 3:00 **Biological Phosphorous Removal at Durham** -- Mike Mengelkoch
- 4:00 **No Session**

Section 2
Source Control
Pauling 101

Tuesday

- 8:00 **Opening Ceremony – Randall Gymnasium**
- 9:00 **Environmental Crimes: Gathering Evidence for Successful Criminal Prosecution** -- Bob Kalutkiewicz, EPA
- 10:00 **Environmental Crimes Case Studies** – Bob Kalutkiewicz, EPA
- 11:00 **METRO Hazardous Waste**
- 1:00 **Pretreatment 101** – Curtis Barton, Clackamas County WES
- 2:00 **Biosolids/Source Control Relationship** – Bob Watson, Consultant
- 3:00 **EPA Streamlining – DEQ Perspective** – Bruce Hammon, EPA
- 4:00 **EPA Streamlining – Panel Discussion** – Steve Anderson, CWS; Curtis Barton, Clackamas Co. WES; Tim Dean, BES

Wednesday

- 8:00 **Meth Lab Cleanup** – Jason Gates, Multnomah County Sheriff
- 9:00 **Industrial Hazardous Material Management** – Michael Eyer, ODOT
- 10:00 **Portland Business BMP Programs** – Brett Hulstrom, City of Portland
- 11:00 **Manufacturer’s Display – Randall Gym**
- 1:00 **G.R.E.A.T. Business Program** – Angie Marzano, City of Gresham
- 2:00 **Cooling Towers – A Molybdenum Source** – Eric DeBerry, City of Portland
- 3:00 **Fats, Oil & Grease** – Dotti Ramey, City of Vancouver
- 4:00 **Newly Emerging Pollutants** – Brad Rumbaugh, Clean Water Services

Thursday

- 8:00 **Environmental Interview Techniques** – Anne Sturgill, EPA CID
- 9:00 **Environmental Interview Techniques – Continued**
- 10:00 **Environmental Interview Techniques -- Continued**

Section 3
Collections
Gregory Forum 108A

Tuesday

- 8:00 **Opening Ceremony – Randall Gymnasium**
- 9:00 **Environmental Crimes: Gathering Evidence for Successful Criminal Prosecution -- Bob Kalutkiewicz, EPA**
- 10:00 **Sewer Cleaning Basics – Jim Lowe, Enviroclean Equipment; Tom Binder, Titan Sales**
- 11:00 **Sewer Cleaning Basics – Continued**
- 1:00 **Sewer Nozzle Demonstrations – Jim Lowe, Enviroclean Equipment**
- 2:00 **Pipe Pigging – Don Lauinger, Water Truck Services**
- 3:00 **Trenchless Pipe Repair – Nick Patrick, NW Trenchless Service**
- 4:00 **Trenchless Pipe Repair Demonstration – Nick Patrick, NW Trenchless Service**

Wednesday

- 8:00 **Confined Space and PPE – Greg McDonald, Public Works Supply**
- 9:00 **Confined Space and PPE – Continued**
- 10:00 **Manufacturer's Display – Randall Gym**
- 11:00 **PACP for Television Inspection – Jeff Burks, Peninsula Technologies**
- 1:00 **Sewer Root Control – Tom Edwards, Duke's Sales and Service**
- 2:00 **Hydrogen Sulfide Damage and Control – Kim Ashmore, City of Centralia**
- 3:00 **FOG (Fats, Oils, Grease) Control and Pretreatment – Mark Stetzel and Randy Watson, City of Wilsonville**
- 4:00 **Television Inspection Equipment and Innovations – Sheldon Teeple, Aries Industries**

Thursday

- 8:00 **Traffic Safety and Flagging – Dave White, Oregon Tech. Transfer Center**
- 9:00 **Traffic Safety and Flagging – Continued**
- 10:00 **Traffic Safety and Flagging – Continued**
- 11:00 **Traffic Safety and Flagging – Continued**
- 1:00 **Preventative Sewer and Storm Line Maintenance – Steve Tilson, Tilson and Associates**
- 2:00 **Preventative Sewer and Storm Line Maintenance – Continued**
- 3:00 **Preventative Sewer and Storm Line Maintenance – Continued**
- 4:00 **Sewer Combination Cleaners/Vacuum Systems – Tom Binder, Titan Sales Group**

Section 4
Maintenance
Pauling 132

Tuesday

- 8:00 **Opening Ceremony – Randall Gymnasium**
- 9:00 **Environmental Crimes: Gathering Evidence for Successful Criminal Prosecution -- Bob Kalutkiewicz, EPA**
- 10:00 **Computerized Maintenance Management Systems -- Ron Moller, Kennedy Jenks**
- 11:00 **Computerized Maintenance Management Systems: Setting Up Critically & Priority Systems -- TBA**
- 1:00 **Computerized Maintenance Management Systems: Setting Up Performance Measures -- TBA**
- 2:00 **Boiler Maintenance -- TBA**
- 3:00 **Infrared Monitoring Techniques -- Ken Navidi, Bainbridge Associates**
- 4:00 **No Session**

Wednesday

- 8:00 **Motor Maintenance -- U.S. Motor**
- 9:00 **Manufacturer's Display – Randall Gym**
- 10:00 **Submersible Pump O & M -- Roy Voskuil, ITT Flygt**
- 11:00 **Centrifugal Pump O & M -- Roy Voskuil, ITT Flygt**
- 1:00 **Positive Displacement Pump O & M -- TBA**
- 2:00 **Portable Pump Station Systems -- Joe Kernkamp, Godwin Pumps**
- 3:00 **How to Read Pump Curves -- Connie Boag, APSCO**
- 4:00 **No Session**

Thursday

- 8:00 **Lubrication -- Curt Floid**
- 9:00 **Options for Replacing Drive Chains -- Walt Aguire, Gates Belt**
- 10:00 **Bearing Maintenance (Part 1 of 4) -- Bill Deber, FAG Bearing**
- 11:00 **Bearing Maintenance (Part 2 of 4)**
- 1:00 **Bearing Maintenance (Part 3 of 4)**
- 2:00 **Bearing Maintenance (Part 4 of 4)**
- 3:00 **No Session**
- 4:00 **No Session**

Section 5
Management & Supervision
Community Center 127

Tuesday

- 8:00 **Opening Ceremony – Randall Gymnasium**
- 9:00 **Environmental Crimes: Gathering Evidence for Successful Criminal Prosecution** -- Bob Kalutkiewicz, EPA
- 10:00 **Disaster Planning and Preparation** -- J. Michael Reed
- 11:00 **Recruitment at Clean Water Services: Navigating Into the Future** -- Tina Powers & Ann-Marie Ramsey, Clean Water Svcs
- 1:00 **Creating a Learning Community at Your Workplace** -- Robert Reynolds, Clean Water Services
- 2:00 **Why Do you Need A Community Emergency Response Team and Why are Ham Radios an Important Tool in Disaster Preparedness?** -- Sharon Kennedy, City of Hillsboro
- 3:00 **Creating a “Safety Always” Culture** -- Dan Miller
- 4:00 **No Session**

Wednesday

- 8:00 **No Session**
- 9:00 **Basics of an Apprenticeship Program** -- Bruce Wilde, Manager Apprenticeship Operations, State of Oregon
- 10:00 **Emergency Response Plans** -- Bill Renfro, Kennedy Jenks
- 11:00 **Why Do a Vulnerability Assessment on your Facility?** -- Glenn Collins, Protective Security Advisory, State of Oregon
- 1:00 **Manufacturer’s Display – Randall Gym**
- 2:00 **How to Do a Vulnerability Assessment on Your Facility** -- Bill Renfro, Kennedy Jenks
- 3:00 **Managing in Large and Small Facilities** -- Sue Lawrence, Clean Water Services Operations Supervisor
- 4:00 **No Session**

Thursday

- 8:00 **No Session**
- 9:00 **Incident Command System** -- Scott Porter, Washing County Coordinator
- 10:00 **Incident Command System – Continued**
- 11:00 **The Architect’s Process** -- Jack McKinney, Architects Associative
- 1:00 **LEED by Design** -- Karen Black & Nicole Wolters
- 2:00 **Building the Foundation for a Safe Workplace** -- Owen Smith & Don Berg, Oregon OSHA
- 3:00 **DEQ Update** -- Lauri Anan, Water Quality Administration, DEQ
- 4:00 **No Session**



**Mail-in Registration Form: 30th Annual Water Environment School
 March 28, 29, and 30, 2006**

Date of Application:

SS# (last four digits):

Name:

Home Address:

Work Address:

Last:	First:	Initial:	Date of birth: (month/day/year)		
Street address	State:	Zip:	City:	Home phone:	
Organization/Agency:	Street address	State:	City:	Work phone:	

Program code:
KWSS

Course-Sec. #	Course name	Cred. Time	M	T	W	Th	F	S	Su	Room	Start date
WQT-009-01	Water Environment School	2.3 CEU 8-5	X	X	X					Comm Ctr	3/28-3/30/06

Your pre-registration form must be received by March 15, 2006.

Preregistration: Full Reg \$150 2 Day Reg \$120 1 Day Reg \$75 Students \$0
On-Site Registration: Full Reg \$160 2 Day Reg \$130 1 Day Reg \$85 (Proof required) Amount enclosed \$ _____

No Visa/Mastercard Accepted
Make checks or purchase orders payable to: **PNCWA Continuing Education Fund.**

Please return form and payment to:
Water Environment School
c/o **PNCWA Continuing Education Fund**
Attn: Mike Stebbins
Columbia Blvd. WWTP • 5001 No. Columbia Blvd., Portland, OR 97203
FAX: 503-823-2409 • Phone: 503-823-2653

DO NOT send registration to Clackamas Community College. One registration per person!
You may duplicate this form for multiple registration

Clackamas Community College's Affirmative Action Policy ensures that discrimination based on race, color, religion, sex, marital status, age, disability, and family relations does not exist in any area, curriculum activity, or operation of the college.

For Office Use Only
CEU

Fed. Tax I.D. 93-0972032

Section 6 Wastewater Basics Pauling 131

- Tuesday**
- 8:00 **Opening Ceremony – Randall Gymnasium**
 - 9:00 **Environmental Crimes: Gathering Evidence for Successful Criminal Prosecution -- Bob Kalutkiewicz, EPA**
 - 10:00 **Odor: If It Stinks, It Corrodes -- Doug Kelly, Inland Environmental**
 - 11:00 **History of Waste Water -- Noah Harvey, Veolia Gresham**
 - 1:00 **Sewer System Overflow's: Reporting and Compliance -- Debra Gorman, Clean Water Services**
 - 2:00 **Operator Certification -- Steve Desmond, DEQ Water Quality Division**
 - 3:00 **Collections Math -- Paul Eckley, City of Salem**
 - 4:00 **Source Control: An Overview -- John McGregor, City of Portland BES**
- Wednesday**
- 8:00 **Solids Digestion -- Mark Kennedy, Portland State University**
 - 9:00 **Interviewing Techniques -- George & Carol Austen**
 - 10:00 **Basic Wastewater Math -- Brian Casey, Carollo Engineers**
 - 11:00 **Manufacturer's Display – Randall Gym**
 - 1:00 **Blood Borne Pathogens -- Laura Herring, City of Portland Risk Management**
 - 2:00 **Activated Sludge Basics -- Dale Richwine, MWH**
 - 3:00 **Activated Sludge Basics – Continued**
 - 4:00 **Disinfection -- Dale Richwine, MWH**
- Thursday**
- 8:00 **Collection Systems -- Mark Mitchell, City of Portland – Bureau of Maintenance**
 - 9:00 **Water Reuse -- Kevin Crane, City of Portland BES**
 - 10:00 **Preliminary and Primary Treatment -- Pat Curran, Curran-McLeod, Inc.**
 - 11:00 **Biosolids Overview and Compliance -- Judy Johndohl, DEQ Water Quality Division**
 - 1:00 **Membrane Bioreactors -- Bob Bucher, King County**
 - 2:00 **Wastewater Characteristics -- Pat Curran, Curran-McLeod, Inc.**
 - 3:00 **Compliance Monitoring & Quality Assurance -- Chris Redman, DEQ Laboratory Division**
 - 4:00 **DEQ Permit Compliance, Records and Reports -- Beth Moore, DEQ Water Quality Division**

Section 7
Biosolids
Pauling 102

Tuesday

- 8:00 **Opening Ceremony – Randall Gymnasium**
- 9:00 **Environmental Crimes: Gathering Evidence for Successful Criminal Prosecution** -- Bob Kalutkiewicz, EPA
- 10:00 **Soil Testing for Biosolids Management** -- Craig Cogger, WSU
- 11:00 **Biosolids Nutrient and Agronomic Loading Rate Calculations** -- Andy Bary, WSU
- 1:00 **Compliance State & Federal** -- Judy Johndohl, DEQ
- 2:00 **Biosolids Management Plans** -- Judy Johndohl, DEQ
- 3:00 **Mapping a Site with GIS & Database Recordkeeping** -- Carol Murdock & Tim Killingbeck, Clackamas County WES
- 4:00 **Wrap Up**

Wednesday

- 8:00 **Dealing with the Media Session #1** -- Joe Krum, North Clackamas School District & Ron Oberg, Clackamas County PRG
- 9:00 **Dealing with the Media Session #2** -- Joe Krum, North Clackamas School District & Rob Oberg, Clackamas County PRG
- 10:00 **Spill Response Plans** -- Tim Killingbeck, Clackamas County WES
- 11:00 **Lime Stabilization of Biosolids** -- Dale Richwine, Montgomery Watson
- 1:00 **Biosolids Sampling & Testing** -- Dan Strong, Kristina Franklin, Ron Myers, Clackamas County WES
- 2:00 **Manufacturer's Display – Randall Gym**
- 3:00 **Site Authorizations** -- Bob Watson, Independent
- 4:00 **Wrap Up**

Thursday

- 8:00 **Biosolids Videos**
- 9:00 **What is the NBMA** -- Tim Killingbeck, Clackamas County WES
- 10:00 **Team Tagro** -- Dan Thompson, City of Tacoma
- 11:00 **City of Eugene's Reclaimed Water & Popular Project** -- Ken Vanderford, City of Eugene
- 1:00 **Biosolids & Nursery Stock** -- Eric Smith, Schmidt Nurseries
- 2:00 **New Application Equipment & Technology** -- Chuck DeWolf, Ag/Co, Ag/Chem
- 3:00 **Permit and Vehicle Restrictions** -- Cynthia Fox-Course
- 4:00 **Wrap Up**

Section 8
Stormwater
Gregory Forum 108B & 108C

Tuesday

- 8:00 **Opening Ceremony – Randall Gymnasium**
- 9:00 **Environmental Crimes: Gathering Evidence for Successful Criminal Prosecution** -- Bob Kalutkiewicz, EPA
- 10:00 **Construction Site BMPs** -- Dennis Jurries, DEQ
- 11:00 **Industrial Stormwater BMPs** -- Dennis Jurries, DEQ
- 1:00 **Human or Animal? – DNA Fingerprinting of Bacteria Sources** -- Jan Miller, Clean Water Services
- 2:00 **Columbia River Channel Navigability** -- Dave Hunt, Columbia River Channel Coalition
- 3:00 **Doggie Don't Program** -- Keri Handaly, Gresham
- 4:00 **No Session**

Wednesday

- 8:00 **Toxic Blue-green Algae** -- Shannon Levitt, M.A.
- 9:00 **Hurricane Katrina Impacts** -- Sandee Flint, FBI
- 10:00 **Centex's New Project Standards** -- Fred Wright, CPESC, Environmentally Wright
- 11:00 **Effective Catchbasin Protection** -- Fred Wright, CPESC, Environmentally Wright
- 1:00 **Manufacturer's Display – Randall Gym**
- 2:00 **Portland CSO Tunnel Program** -- Paul Gribbon, P.E., BES
- 3:00 **Nature in the Neighborhoods** -- Lori Hennings, METRO
- 4:00 **No Session**

Thursday

- 8:00 **Improving Stormwater Design Standards** -- Eric Strecker, GeoSyntec
- 9:00 **West Nile Virus** -- Jill Townzen, OSU; Bob Storer, WES
- 10:00 **Roadside Ditch Maintenance & Detention Basin Program** -- Elizabeth Sagmiller, Angel Garcia & Brandon Clarke, City of Salem
- 11:00 **Preventing Dogbites** -- Kurt Von Steiger, City of Salem
- 1:00 **Innovative Stormwater Outreach** -- Elizabeth Sagmiller, Kat Conley & Deborah Topp, City of Salem
- 2:00 **Missoula Floods** -- Oregon Field Guide, OPB
- 3:00 **Willamette River 1938** -- Clackamas Community College
- 4:00 **No Session**

Section 9
Safety
DeJardin 191

Tuesday

- 8:00 **Opening Ceremony – Randall Gymnasium**
- 9:00 **Environmental Crimes: Gathering Evidence for Successful Criminal Prosecution --** Bob Kalutkiewicz, EPA
- 10:00 **Below the Hook, Lifting Device Safety --** Art Stanley, West Coast Wire Rope & Rigging, Inc.
- 11:00 **Below the Hook, Lifting Device Safety – Continued**
- 1:00 **Dig Safely --** Anita Floyd, Western Region Damage Prevention, Sr. Project Analyst, Qwest
- 2:00 **Dig Safely – Continued**
- 3:00 **Before Disaster Strikes: Be Aware and Prepare --** American Red Cross
- 4:00 **Overconfidence is a Killer --** Ron Anderson, Vice President Emeritus, Overton Safety Training Inc.

Wednesday

- 8:00 **Trench Safety --** Scott Ray, United Rentals
- 9:00 **Trench Safety – Continued**
- 10:00 **Manufacturer’s Display – Randall Gym**
- 11:00 **Sleep Deprivation --** Bill Kolzow, Oregon Technology Transfer Center (ODOT)
- 1:00 **Conducting Job Hazard Analysis (JHA) --** Steven Geigle, Senior Safety education Specialist, Oregon OSHA
- 2:00 **Conducting Job Hazard Analysis (JHA) – Continued**
- 3:00 **Conducting Job Hazard Analysis (JHA) – Continued**
- 4:00 **Conducting Job Hazard Analysis (JHA) – Continued**

Thursday

- 8:00 **Traffic Safety and Flagging --** Dave White, Oregon Technology Transfer Center
Combined with Collections in Gregory Forum “A”
- 9:00 **Traffic Safety and Flagging – Continued**
- 10:00 **Traffic Safety and Flagging – Continued**
- 11:00 **Traffic Safety and Flagging – Continued**
- 1:00 **Confined Space Safety --** Kathryn Jernstedt, Safety Analyst, Clackamas County
- 2:00 **Confined Space Safety – Continued**
- 3:00 **Control of Hazardous Energy and It’s Meaning to You --** DeEtta Burrows, Wise Steps, Inc.
- 4:00 **Control of Hazardous Energy and It’s Meaning to You – Continued**

Section 10
Laboratory
Pauling 164

Tuesday

- 8:00 **Opening Ceremony – Randall Gymnasium**
- 9:00 **Environmental Crimes: Gathering Evidence for Successful Criminal Prosecution --** Bob Kalutkiewicz, EPA
- 10:00 **Wastewater Indicator Organisms: Microbiology**
Dan Laycock, CPI Int.
- 11:00 **Inorganic Chemistry of Wastewater**
Dan Laycock, CPI Int.
- 1:00 **Hazardous Materials ID and Handling**
METRO
- 2:00 **Hazardous Materials ID and Handling – Continued**
- 3:00 **Hazardous Materials ID and Handling – Continued**
- 4:00 **Hazardous Materials ID and Handling – Continued**

Wednesday

- 8:00 **Tri City Field Trip of the Plant and the Water Quality Lab --** Staff
- 9:00 **Tri City Field Trip of the Plant and the Water Quality Lab – Continued**
- 10:00 **Tri City Field Trip of the Plant and the Water Quality Lab – Continued**
- 11:00 **Tri City Field Trip of the Plant and the Water Quality Lab – Continued**
- 1:00 **Bureau of Environmental Services --** Charles Lytle, Ph. D.
- 2:00 **Bureau of Environmental Services – Continued**
- 3:00 **Bureau of Environmental Services – Continued**
- 4:00 **Bureau of Environmental Services – Continued**

Thursday

No Sessions

Section 11
Technology
DeJardin 233

Tuesday

- 8:00 **Opening Ceremony – Randall Gymnasium**
9:00 **Environmental Crimes: Gathering Evidence for Successful Criminal Prosecution** -- Bob Kalutkiewicz, EPA
10:00 **Emerging Technologies Applied to Wastewater** -- Tom Stroebel, Sensor Network Operations, Market Strategy and Business Development Manager Intel Research
11:00 **Challenges Facing Oregon Wastewater Utilities** -- Janet Gillaspie, Executive Director, Oregon Association of Clean Water Agencies (ACWA)
1:00 **Energy Monitoring & Tracking** -- Rick Durst, PGE
2:00 **Emerging Monitoring Technology** -- Rob Peacock, P.E., Curan & McLeod Consulting
3:00 **Membrane Bioreactor** -- Pat Curan, P.E., Curan & McLeod Consulting
4:00 **GIS for Public Utilities/Wastewater** -- John Sharrad, ESRI Software

Wednesday

- 8:00 **PLC Advancements** -- Shawn Davison, Pacific Control Supply, Inc.
9:00 **PLC Advancements** -- Shawn Davison, Pacific Control Supply, Inc.
10:00 **City of Hillsboro's GIS Utilities** -- Maria Schlangen, GIS Analyst, City of Hillsboro
11:00 **Innovative Collection System Technologies** -- Lewis Titus, Titus Industrial Group
1:00 **Manufacturer's Display – Randall Gym**
2:00 **Innovative Storm Water Technologies** -- Lewis Titus, Titus Industrial Group
3:00 **Wireless Control Technologies** -- Jeff Johnson, Rockwell Automation
4:00 **PLC Control Technologies** -- Jeff Johnson, Rockwell Automation

Thursday

- 8:00 **DNP 3.0 Protocol** -- Mark Rusick, C.B. Engineering
9:00 **Plant Data Collection and Reporting** -- Larry Claussen, ISS Wonderware
10:00 **Benefits of a Computerized Maintenance Management System (CMMS)** -- Gert Clarke, Invensys
11:00 **Data Warehousing: An Approach to Integrating Environmental Data from a Variety of Data Sources** -- Steve Rosenberger – Windsor Solutions
1:00 **WES Works – A GIS Map and Querying Tool** -- Marshall – GeoNorth
2:00 **Mapping Impervious Surfaces with LiDAR Data** -- Carol Murdock, Water Environment Services
3:00 **Cannibal Exchange Reactor** -- Shawn Clark, CH2MHill
4:00 **No Session**

Directions to Clackamas Community College

19600 S. Molalla Avenue
Oregon City, Oregon
503-657-6958

Take Exit 10 off I-205 (north or south);
stay on Highway 213 south toward
Molalla to the 4th stop light; turn left into
the college.

Registration is located in the Community
Center, Fireside Lounge.