Training + Innovation = Excellence

2014 Annual Conference
April 29 – May 2, 2014
Santa Clara Convention Center
5001 Great America Parkway, Santa Clara, CA 95054
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Public Health on contact hours. We’re also working with the California Department of how many Continuing Education Units will be available. The State Water Resources Control Board to determine can earn up to

Tours totaling 245.7 contact hours. CWEA is working with the State Water Resources Control Board to determine how many Continuing Education Units will be available. We’re also working with the California Department of Public Health on contact hours.

CWEA Staff
Executive Director .................. Elizabeth Allan, CAE, ABC
Director of Education & Training ........ Julie Taylor, CAE
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Bob Gillette
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Registration
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Gayle Tupper, Retired

Signage
Meg Herston, Fairfield-Suisun Sewer District

Sludge Trudge
Allen Grayson, Lawrence Livermore National Laboratory
Sandie Dudley, CDM Smith

Sponsorship
Alec Mackie, JWC Environmental
Marco Palilla, HDR Engineering, Inc.

Students & Young Professionals
Saurabh Shekhar, Metropolitan Water District of Southern California

Technical Program
Kevin Calderwood, HDR Engineering, Inc.
Nick Klumpp, East Bay Municipal Utility District

Technical Tours
John Mukhar, City of San Jose
Joe Ziemann, Water Works Engineers

Transportation
Meg Herston, Fairfield-Suisun Sewer District
2014 Sponsorship Opportunities

Sponsor California’s Finest Water Conference

If you would like to contribute to the 2014 Annual Conference success by supporting some outstanding events and want to give attendees an easy way to learn more about you and your projects and products — become a Conference Sponsor!

5 Great Reasons to Sponsor CWEA’s Annual Conference:

1. Reinforce your image with more than 1,500 wastewater professionals.
2. Differentiate your products and services from your competitors.
3. As a Titanium or Diamond Sponsor, your company benefits from an integrated marketing and promotion campaign.
4. There are many options to choose from, all of which benefit your company through the distinction of supporting a specific event or participating at a level of sponsorship.
5. Your contributions support activities and functions that AC14 cannot fund alone.

Help Make AC14 a Success.
Become a Conference Sponsor!

Sponsorship categories come with significant recognition and benefits for your company. Download the Sponsorship Opportunities Brochure from the CWEA website at www.cwea.org/conferences

Sponsorship Chairs
Marco Palilla, HDR Engineering, Inc.
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Alec Mackie, JWC Environmental
alecm@jwce.com • 714.428.4614

AC14 Sponsors

Deadlines
To be included in the Conference Guide, the Sponsorship Agreement and payment must be received by 2/5/2014. For Sole Sponsorships, production deadline is 2/5/2014. Sponsorships are available at several levels, each of which supports key activities and provides your company with attention-getting visibility.
Let’s Get Innovative!

On behalf of the CWEA 2014 Annual Conference Committee and the CWEA Board of Directors, I would like to personally invite you to attend our 86th Annual Conference, April 29 – May 2, 2014.

For the first time in many years, we are returning to the City of Santa Clara, located in Silicon Valley, the capitol of U.S. technology and innovation. What better place to embrace this year’s conference theme, **Training + Innovation = Excellence**. We are very excited to be holding this year’s conference at the Santa Clara Convention Center, which is right next door to California’s Great America theme park and Levi’s Stadium – the future home of the San Francisco 49ers.

The conference will provide something appealing for all attendees, whether you are a front-line worker, a new or seasoned supervisor, or someone moving up the management ranks. All of your favorite elements of the annual conference will return along with some innovative improvements. Just to name a few…

- **Opening General Session.** Don’t miss this enhanced kickoff event that will feature a professional facilitator, which will provide greater audience engagement.

- **Mobile App.** Download the FREE “Guidebook” app to help manage your time wisely. Features include searchable exhibitor directory and speaker profiles, interactive venue and floor maps, messaging, and attendee feedback, as well as an easy way to stay connected with the social buzz surrounding the event.

- **Technical Sessions.** Extended breaks between sessions will be added to allow more time to reflect, digest, discuss and think about what you just learned.

- **Speaker Support.** Presenters will be provided speaker training and resources to learn new techniques to sharpen their skills for delivering top-notch sessions.

- **Operations Challenge.** Get ready for a great California wastewater professionals event, which has been expanded to include international teams that will compete for the title, *Best in the West*.

I hope these improvements will add even more value to your conference experience, and I look forward to seeing you in the spring. Make sure to register soon!

Sincerely,

Christoph Dobson
Sacramento Area Sewer District and Sacramento Regional County Sanitation District
CWEA President, 2013-2014
Conference Chairs’ Message

Not Your Ordinary Annual Conference

The Annual Conference Committee has been working diligently over the past year to make your 2014 conference experience the best yet. In keeping with CWEA’s mission – to enhance the education and effectiveness of California’s wastewater professionals – as well as embrace this year’s conference theme, Training + Innovation = Excellence, the committee has made several innovative improvements to this traditional event.

Below are just a few of the enhancements that are being implemented to support the 2014 Annual Conference theme.

Training + Innovation = Excellence

• Improved technical sessions through leadership and speaker training, which will provide attendees more engaging learning opportunities and interactive participation.
• Re-invented Opening General Session focusing on how innovation can lead to excellence both personally and professionally.
• Expanded Operations Challenge to include international teams and create a friendly competition for the title, Best in the West!
• New mobile app for effective communication with attendees, adding to a more successful conference. Attendees will get the information they need right from their phones and tablets, without weighing them down with pounds of paper.

Check out what’s in store:
✓ Create personal itineraries and bookmark favorite exhibitors
✓ Search for sessions by keyword and browse by time or type
✓ Find out how to get to a session or event with the click of a button
✓ Learn about presenters and where to find them
✓ Receive important conference messages
✓ Provide instant feedback about your conference experience
✓ Get social and post Tweets, Facebook updates or share photos right from the app

Don’t miss out on this great opportunity to be part of a newly recharged Annual Conference. Register soon!

We look forward to seeing you in Santa Clara.

Use these tips, hints, and suggestions to get approval to attend the CWEA 2014 Annual Conference

Identify benefits of attending:
• Highlight sessions you will attend and how they will impact your work.
• Visit exhibitors that can help your organization identify solutions for processes/problem areas.
• Attend sessions that offer CWEA, CADPH and SWRCB contact hours.

Share what you learn:
• Take notes during the sessions you attend and summarize key learning points.
• Pass on key learning points to colleagues – share how they will impact your organization – new policies or regulations, new technologies...
• Continue your learning by using the online conference proceedings including speaker contact information and presentations for future reference.

Save time and money for your organization:
• Register at the Early Bird discounted rate by April 7, 2014.
• Book your hotel room with one of the CWEA host hotels at a discounted rate.
• Earn valuable CWEA, SWRCB, and CADPH contact hours for your water and wastewater certification in ONE week.

Visit cwea.org/conferences to register online or to get more information about the CWEA Annual Conference

Questions? Call us at 510.382.7800 x 107
Workshops At-A-Glance

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Workshop W1

Laboratory 202

8:30 AM – 4:30 PM • Tuesday, April 29, 2014
Earn 8.4 contact hours

Small and medium sized laboratories operated by permitted dischargers constitute the majority of publicly-owned laboratories in California and provide a significant fraction of the analytical data submitted to the State and Regional Boards. Although they are staffed by trained individuals, their training focuses on the method procedures that they conduct in their in-house laboratory. Because their focus is on in-house work, additional training to understand and review the results received from contract laboratories is needed. Without additional training for subcontracted testing, quality issues or initiating changes in analytical strategies based on in-house needs may not be recognized.

This one-day course will cover some of the analytical methods, issues raised when these methods are used, LIMS basics, how to seek contract lab services, and how to understand reports issues by contract laboratories. The first half of the session will cover methods for nutrients, cyanide, and isotope-dilution techniques used for congener analyses. The afternoon will cover LIMS, contracting for services, understanding reports, analytical method limit concepts for detection and quantitation, and the ATP process.

The speakers for this training have over 60 years of experience between them ranging from actual bench analyses to auditing and assessing laboratory operations. They have combined in past efforts to explain and demystify quality systems and have provided training in preparation for U.S. Environmental Protection Agency’s proposed 12 essential quality control elements.

Speakers: Diane Lawver, Quality Assurance Solutions; Bill Ray, William Ray Consulting
Workshop W3
Training the Trainer
8:30 AM – 4:30 PM • Tuesday, April 29, 2014
Earn 8.4 contact hours

This Pre-Conference workshop was created to train Technical Certification Preparation Study Session Trainers-Moderators in the subject matter and presentation techniques to best accommodate the different learning styles of adults as they prepare for CWEA Technical Certification Testing. If you hold certification in Grades II, III or IV of your vocation, CWEA needs your help with providing Certification Preparation Study Sessions and now is your chance to learn how to help your fellow wastewater professionals earn their Certification through CWEA’s Technical Certification Program. In addition to understanding adult learning styles, training, and presentation techniques, you will also be provided with access to other valuable tools and study session curriculum materials including vocation specific presentations, sample questions, and test preparation techniques. You will also be introduced to other trainers-moderators who will help you become a trainer capable of effectively assisting others as they strive to obtain CWEA certification in their vocation.

The workshop will be taught by experienced study session moderators and trainers and will be followed up with a mentor supervised teaching session at a live CWEA study session. Best of all, you will be able to apply your new trainer skills at work for any training that you might conduct—and you can help others at your agency prepare for their certification exams. In return, we ask that you commit to leading a CWEA study session for CWEA at some point in the near future.

Upon completion of this training you’ll receive contact hours. PLUS, your commitment to become a Trainer will allow you access to standardized training material from the State’s finest Trainers, relevant to your vocation.

Speakers: Joanna De Sa, City of San Jose; Gina Cloutier, Victor Valley Wastewater Reclamation Authority; Marjorie Boone, ehs International, Inc.

Workshop W4
Source Control System Toolbox – Educating Collection System Workers
8:30 AM – 4:30 PM • Tuesday, April 29, 2014
Earn 8.4 contact hours

This workshop has been designed to further educate collection system workers and source control staff on the importance of an effective Fats, Oil, and Grease (FOG) program and clear communication in order to reduce FOG related sanitary sewer overflows (SSOs). Topics will include:

• Establishing/improving your FOG program with shrinking resources
Workshop W6

Using Design-Build to Improve and Accelerate the Construction of Water and Wastewater Infrastructure
8:30 AM – 4:30 PM • Tuesday, April 29, 2014
Earn 8.4 contact hours

The use of design-build project delivery continues to gain popularity throughout the construction industry as an alternative to the traditional "low-bid" approach that often puts owners, designers, and contractors at odds. However, owners within the public water/wastewater sector have been relatively slow to adopt this innovative and collaborative process. This exciting and informative workshop will provide attendees an overview of the design-build process and an understanding of its benefits. Case studies will be provided to show the benefits of design-build on a wide variety of project types from repair and maintenance to major facility construction, upgrades, or renovation. Attendees will learn about the ways to procure and perform projects utilizing design-build contract delivery method and the additional educational resources available. Presenters will also discuss how they use design-build to facilitate contracting, reduce risk, and increase innovation in their projects. Practitioners from the design and construction fields will present case studies and discuss best practices for design, procurement, and construction.

**Speakers:**
Norbert Shultz, J.R. Filanc Construction Company, Inc.;
John Cannon, City of San Jose Public Works; Michael Lindquist, City of Davis Public Works Department; Daniel L. Hutton, CDM Constructors West; Jay Hardison, Colorado Springs Utilities; Tony Heinrichs, City of San Diego; David Kiess, J.R. Filanc Construction Company, Inc.

**Moderator:** Steve Agor, Skanska
Workshop W7
Wastewater Treatment Regulations 101
8:30 AM – 3:30 PM • Tuesday, April 29, 2014
Earn 7.2 contact hours

Start with the basics! This full-day introductory seminar will provide an overview of NPDES regulations, technology- and water quality-based effluent limitations, biosolids regulations and compliance, wastewater reuse guidelines, and current and upcoming air regulations. Topics will include:

• Introduction to wastewater treatment regulations
• Water quality-based effluent limitations
• Case studies on modeling of effluent and receiving waters for evaluation of dilution credits
• Biosolids compliance
• Methylmercury TMDL, nutrients, and bacteria limits for San Francisco Bay
• Wastewater reuse guidelines
• Current and upcoming air regulations applicable to publicly owned treatment works

Speakers: Greg Arthur, Environmental Engineering & Contracting, Inc.; Kati Bell, CDM Smith; Amy Chastain, AECOM; Rita Cheng, and Randy Schmidt, Central Contra Costa Sanitary District; Betsy Elzufon, Larry Walker Associates; Lauren Fondahl, U.S. Environmental Protection Agency; Dave Wilson, CH2M Hill

Session Chair and Moderator: Linda Leong, San Francisco Public Utilities Commission

Workshop W8
Professional Savvy for the Developed and Developing Professional: Skills and Tools for Professional Growth and Success
8:30 AM – 4:30 PM • Tuesday, April 29, 2014
Earn 8.4 contact hours

Possessing years of technical experience and knowledge is important for professional growth; however, complementing technical skills with professional savvy is critical for ultimate professional development. This engaging and highly interactive full-day workshop features highly motivated and successful leaders in the water and wastewater profession. These leaders will guide attendees as they explore several key topics and areas related to professional growth and development, including:

• Building relationships vs. simple networking
• Understanding professional etiquette
• Utilizing social media as a tool for success
• Exercising time management principles
• Realizing the importance of communication
• Overcoming generational differences and adapting to the present (reverse mentoring)
• and more!

The entire workshop will include networking components, breakout sessions, and opportunities to interact with the speakers and other attendees while developing and practicing firsthand the tips and tools provided by our distinguished speakers. Learn to put your best foot forward and provide a great first impression with colleagues and/or clients by exemplifying proper professional etiquette. Realize the importance of building relationships as opposed to simply networking with others at meetings and conferences. Hear about how to maximize your time and social media presence, and find out how you can become a more effective communicator with your peers and colleagues. After a full day of learning, if you still have questions, you will also have the opportunity to ask any and all questions during a comprehensive panel discussion period. Our mentors are here to help you grow and succeed through their lessons learned!

Speakers: Varouj Abkian, City of Los Angeles; Nick Arhontes, Orange County Sanitation District; Jim Clark, Black & Veatch; Jim Langley, City of Simi Valley; Denis Pollak, V&A Consulting Engineers; Heidi Oriol, East Bay Municipal Utilities District; Suzanne Gautier, San Francisco Public Utilities Commission; and Megan Yoo Schneider, Tetra Tech.
New, Improved Opening General Session

Wednesday, April 30
Santa Clara Convention Center

The Innovator’s DNA

Innovation and Excellence. It’s the heartbeat of today’s economy. It’s also where you as a water quality professional need to focus your attention, time, and resources to compete in today’s marketplace.

Is innovation a talent from birth or something that can be learned and acquired? Good news...you can be more innovative and creative. You can change your behaviors and adopt critical innovative strategies.

Innovators think and act differently. They don’t follow the status quo.

What are the traits of today’s innovative professionals? How do they think and behave? Why don’t they let traditional rules and the status quo stand in the way of their vision? What questions do they constantly use to benchmark their thinking? What are the skills needed for innovative thinking and behaviors?

This is not your traditional CWEA opening general session. Come and participate as you actively explore how you can be more innovative personally and professionally. You’ll also hear from other successful water quality professionals about how they’ve embraced innovative ideas and solutions to create excellence and a sustainable future.

Innovators:

George S. Hawkins
General Manager,
DC Water

“Hand Over Fist – The Crisis and Opportunity of Running a Water Utility in America”

Emily Bettencourt
Stockholm Junior Water Prize Winner,
Northgate High School, Walnut Creek

“Water Desalination Using Capacitive Ionization with Graphene Electrodes”

Vernon Wetzell
Stockholm Junior Water Prize Winner,
De La Salle High School, Concord

“Water Desalination Using Capacitive Ionization with Graphene Electrodes”

Chelsea Rochman
Postdoctoral Scholar,
National Oceanic and Atmospheric Administration’s Marine Debris Program in the U.C. Davis Aquatic Health Program

“Consequences of Our Plastic Age”

Saskia Van Gendt
Captain Planet,
Method

“Role Models In Bottles”

Jeff Hurt
Executive Vice President of Education & Engagement,
Velvet Chainsaw Consulting

“The Innovator’s DNA”
Technical Tours

Tour T1

City of Santa Cruz – Wastewater Treatment Facility
8:00 AM – 12:00 PM - Wednesday, April 30
Earn 4.8 contact hours

The City of Santa Cruz Wastewater Treatment Facility (WWTF) treats up to 17 mgd of average dry weather flow and up to 81 mgd of wet weather flow from the City as well as from Capitola, Live Oak, Soquel, Aptos, and the University of California Santa Cruz. The treatment process includes aerated grit separation, primary clarification, trickling filters, solids contact/aeration, secondary clarification, and UV disinfection. Solids are thickened and then anaerobically digested. The WWTF’s cogeneration system burns methane gas produced by the digesters blended with purchased natural gas. The City recently completed a cogeneration system upgrade project to increase the system’s capacity and can now generate up to 1,300 kW. In combination with its 50-kW photovoltaic system, the WWTF generates approximately 58% of its annual power consumption needs.

The facility tour will include a visit to the County of Santa Cruz’s wastewater pumping station, which delivers wastewater from the County Sanitation District’s system to the WWTF. In addition to the facility tour, you will learn about the Facility Staff’s current efforts to optimize the carbon adsorption odor control system, increase plant energy efficiency, implement a new maintenance work order system, and evaluate additional options for biosolids processing and disposal. Learn why this treatment facility and its staff earned the Monterey Bay Section’s 2012 Overall Plant of the Year award and how they are continuing to look for ways to improve delivery of their services to the community.
Tour T2
Santa Clara Valley Water District and City of San Jose – Silicon Valley Advanced Water Purification Center
1:00 PM – 5:00 PM • Wednesday, April 30
Earn 4.8 contact hours

The Advanced Water Purification Center is an 8-mgd treatment plant that began construction in 2010; operations are expected to commence in the spring of 2014. The facility represents a partnership between the Santa Clara Valley Water District and the City of San Jose. The Advanced Water Purification Center further treats tertiary effluent from the San Jose-Santa Clara Regional Wastewater Facility via microfiltration, reverse osmosis, and ultraviolet light. The resultant purified water is expected to match California primary drinking water standards and will be blended with the existing recycled water supply produced at the neighboring San Jose-Santa Clara Regional Wastewater Facility to enhance non-potable recycled water quality and expand its usage.

The City of San Jose and the Santa Clara Valley Water District saw a huge opportunity to expand recycled water use with improved water quality and have the goal of providing a more secure and dependable water supply to the region. The enhanced blend of recycled water will help industrial users reduce operating costs, and it can be used on a wider variety of landscapes, due to a much lower level of salinity. As a result, it is expected that more customers will tap into the recycled water system. The Water District is also investigating the possibility of using purified recycled water for replenishment of groundwater basins to meet future potable water demands. Additionally, a high-tech data center in Santa Clara will soon begin using recycled water for cooling, the first data center to do so in the Bay Area. Come see the cutting edge of recycled water development in northern California.

Tour T3
Gordon Biersch Brewery – Wastewater Pre-Treatment System
9:00 AM – 12:00 PM • Thursday, May 1
Earn 3.6 contact hours

In 1997, Gordon Biersch opened a state-of-the-art brewery and bottling facility in San Jose, California, to begin bottling and distributing its famed German-style beers. The microbrew trend continues to grow, and the company is actively expanding its distribution nationwide. Since 1998, Gordon Biersch Brewing Company’s 114,000-square-foot facility with a 25,000-square-foot warehouse has more than doubled its production, increasing its capacity to 3.1 million gallons of beer annually, making Gordon Biersch Brewing Company the largest brewery in the San Francisco Bay Area.

This technical tour will include an overview of both the brewing and bottling process.

The Gordon Biersch Brewery is fully automated and is run by WinBrew, a special software program developed by Nerb Engineering in Freising, Germany. The technology allows brewers to better control the brewing environment and monitor the brewing process to ensure consistent high quality. The tour will highlight the on-site wastewater pre-treatment process and how it is integrated with the brewing process. Facility operators will discuss the facility’s interaction with the City of San Jose and its industrial wastewater pretreatment program.
Tour T5
City of San Jose & City of Santa Clara – San Jose/Santa Clara Regional Wastewater Facility
8:00 AM – 12:00 PM • Friday, May 2
Earn 4.8 contact hours

The San Jose-Santa Clara Regional Wastewater Facility is the largest advanced wastewater treatment facility in the western United States, treating an average of 110 mgd with a capacity of up to 167 mgd and serving eight cities with over 1.4 million residents. The facility’s treatment process includes screening, primary sedimentation, aeration (BNR), secondary clarification, filtration, disinfection, dechlorination, anaerobic digestion, sludge drying, and cogeneration. Wastewater is discharged to the San Francisco Bay, but efforts are being made continuously to expand the delivery and use of recycled water in the region. An overview of the South Bay Water Recycling infrastructure and operations will be given in addition to the treatment facility tour. The City of San Jose has set a goal to recycle or beneficially reuse 100% of its wastewater by 2022. The City’s vision for further developing recycled water use to meet this goal will be discussed.

Tour attendees will also learn about the facility’s upcoming rehabilitation projects. The plant was initially constructed in 1956. The cities of San Jose and Santa Clara approved a Facility Master Plan in 2011 that outlines extensive improvements needed to keep pace with population growth in the area and improve water quality in the San Francisco Bay. Tour attendees will gain insight into the multi-year master planning process and the next steps that are being taken as the transition to improvement project design and construction is being made.

Tour T4
Union Sanitary District – Collection System Operations and Maintenance
1:00 PM – 5:00 PM • Thursday, May 1
Earn 4.8 contact hours

The Union Sanitary District (USD) provides sewer collection and treatment services to over 330,000 residents in the cities of Fremont, Newark, and Union City. This technical tour will focus on USD’s sewer collection system operation and maintenance programs and includes a visit to the District’s state-of-the-art O&M training facility. USD staff will delve into the details and strategies of their preventive maintenance programs, computerized maintenance management system, capital improvement program development process, FOG control program, and much more. Some of USD’s recent and ongoing collection system rehabilitation and replacement projects will be discussed in detail, sharing lessons learned.

Attendees of this tour will get a chance to see what one of the industry-leading agencies is doing to continuously improve the effectiveness and efficiency of its sewer collection system operations. Additionally, USD staff will discuss their recent efforts and experiences conducting Sewer System Management Plan Audits and how they have been able to effectively analyze key metrics of their operations to guide ongoing optimization of their work flow. This technical tour will facilitate attendee discussion and feedback to allow for the sharing of ideas and recent experiences around the latest developments in collection systems operations and maintenance.
See the Latest Innovations in Water Quality Solutions

- Learn from the experts about the latest in water and wastewater technology, equipment, and services.
- See the newest instruments, SCADA, sewer cameras, and collection systems and process equipment.
- This is your chance to touch, see, and discuss what is new in our industry.
- Participate in the Students & Young Professionals Sludgy Scavenger Hunt at the Exhibitor Reception on Wednesday. See page 16 for details.
- Free lunch for attendees at noon on Thursday.
- Free drink ticket and hors d’oeuvres at the Exhibitor Reception on Wednesday and Thursday.
- Watch the Ops Challenge right inside the Exhibit Hall.

Door prizes during breaks and at each evening reception!
Ice Breaker Reception
6:00 PM – 8:00 PM • Tuesday, April 29
Location: Santa Clara Convention Center
Visit with old friends and make new friends! Swap old stories and make up new ones! In the tradition of previous conferences, an Ice Breaker Reception will be held on Tuesday, April 29, after the pre-conference workshops and the night before the main conference begins. Conference pre-registration packets, hors d’oeuvres, and drinks will be available. All conference attendees are welcome to attend!

5S Installation Ceremony
7:00 PM • Tuesday, April 29
Location: Santa Clara Convention Center, during the Ice Breaker Reception
5S members are nominated and selected by their peers based on their extraordinary commitment to CWEA through volunteer activities. Any CWEA member can nominate another member to be selected for this prestigious award, so be sure to submit your nominations by March 1, 2014. Nomination forms are on the CWEA website.

The 5S Installation Ceremony is truly a “dignified” event that is always lots of fun, so be sure to come and be a part of it – who knows, you may be one of the inductees!

Golf Tournament
11:30 AM (check in), 12:30 PM (start) • Tuesday, April 29
Location: Santa Clara Golf and Tennis Club
Spend the afternoon golfing with your fellow CWEA friends and colleagues at the Santa Clara Golf and Tennis Club conveniently located adjacent to the Santa Clara Convention Center. The format is a 4-person scramble and you can sign up as a team or an individual. Immediately following will be a BBQ dinner and awards presentation.

Please see the Conference Registration Form on page 35 to pre-register for this event. If desired, Golfers can sign up for “golf only” by registering by mail or faxing 510.382.7810.

Sludge Trudge 5k Fun Run/Walk
4:00 PM • Thursday, May 1
Location: San Tomas Aquino Creek Trail
Take a break from the inside activities and get some fresh air at the 31st Annual Sludge Trudge 5k on Thursday May 1st, at 4 PM! Back by popular demand, in addition to running and walking categories, participants will have the opportunity to enter the “School of Fish” team category. A prize will be awarded to the team of 3+ employees from the same firm or agency with the fastest average time (runners and walkers included). “School of Fish” teams will be determined based on registration. Any firm or agency with 3 or more employees registered for the Sludge Trudge will be automatically entered, and team members will still be eligible for individual prizes. So gather your coworkers together at San Tomas Aquino Creek Trail (adjacent to the Convention Center!) to run, walk, or just cheer on participants in the 31st Annual Sludge Trudge 5k!

Please see the Sludge Trudge Registration Form on page 40 for more information and to pre-register for this event. Hope to see you there!

Multi-Vocational Round Table on Flushable Wipes
7:45-11:50 AM • Friday, May 2
This unique, interactive session will bring you up to date on disposable products that are labeled flushable. Round table discussions will cover all aspects of this hot topic. Wastewater staff in Collection Systems, Source Control, Public Affairs, Operations & Maintenance, Government Affairs, etc. will benefit as each function deals with disposable products flushed into the collection system and the challenges they present.
This year, Ops Challenge will expand to include a West Coast Invitational! Not only will teams within the state of California be competing for “Best of the State”, but out-of-state teams will join the California teams to see who is the “Best in the West”!

Santa Clara Convention Center will be the site of the 2014 CWEA Operations Challenge West Coast Invitational. The event tests the knowledge and skills of wastewater professional teams from not only agencies in the State of California, but out-of-state teams as well. The teams compete in five events including Process Control, Laboratory Procedures, Collection System Repair, Safety, and Mechanical Pump Maintenance. The competition pushes team members to the edge as they skillfully perform the necessary tasks as fast and flawlessly as possible.

The California teams will be competing for one of the coveted spots to represent YOU and CWEA at “WEFTEC 2014” in New Orleans. All teams will be competing for the coveted “Best in the West” designation.

All agencies are invited to compete in this event. Don’t have a team? Form one with other agencies and create a CWEA Section Team!

Please sign up for conference meals on your registration form on page 34. Spouses, guests, and exhibitors are all welcome to attend any breakfast, lunch, or banquet.

**Noon**
**Free Exhibit Hall Luncheon**
Check out over 200 manufacturers and service exhibitors while enjoying a free lunch. The Exhibit Hall opens at noon.

**Noon**
**Awards Luncheon and Annual CWEA Business Meeting, Santa Clara Convention Center**
Approximately 20 CWEA awards will be given out to individuals and agencies by the CWEA President. Be there to congratulate your colleagues on their accomplishments. Seating sells out for this lunch, so reserve your tickets early (see page 34)! Lunch is served at noon.

Exercise your member rights by voting for the slate of officers during the Annual Business Meeting portion of the luncheon.
Students & Young Professionals Activities

Sludgy Scavenger Hunt!
A Unique One-on-One Mentoring Experience
When: Wednesday, April 30, 5:30 – 7:00 PM
Calling all students and young professionals! Sign up to “buddy up” with a seasoned professional during the Wednesday Exhibit or Reception. Listen to their personal stories and experiences and tour the exhibit hall while participating in a fun and informative wastewater-themed scavenger hunt. Make new contacts and meaningful connections with industry veterans while exploring the wonders of the wastewater world. Attractive prizes awarded to winners. Great networking event! Everyone, young and seasoned, is invited!

Speed Mentoring at the Sweet Treats Social
When: Friday, May 2, 3:40 – 4:00 PM
Come take part in a fun and exhilarating activity at the Sweet Treats Social! Sign up to meet and greet potential mentors and mentees, and build your professional network fast! Participants will have the opportunity to talk to industry members of all backgrounds. Our goal is to connect students and young professionals with industry insiders who will share their knowledge, experience and advice with the next generation of leaders so our industry continues to grow stronger! Another great networking event!

Please see page 38 to sign up for both events.

Industry Partner Tables
When: Wednesday, April 30 – Friday, May 1
Want to find out what’s going on in the water environment world? Come join our partners in the industry and learn about the exciting opportunities and resources they have to share! Take a break between sessions and talk to representatives from a variety of organizations. Hear about different training and volunteer programs and find out how you can make a difference!

Are you part of a water environment-related group and want to share your group’s story? Contact Megan today to reserve your FREE industry partner table! Display tables are located in a high traffic area with great exposure to our diverse conference attendees. Subject to approval.

Industry Partner Tables Contact
Megan Yoo Schneider, Tetra Tech
Phone: 949.809.5163 • megan.schneider@tetratech.com

Sweet Treats Social
When: Friday, May 2, 3:40 – 4:00 PM
With over 150 Technical Presentations, eight Pre-Conference Workshops, and five Technical Tours, the CWEA 2014 Annual Conference is jam-packed with learning opportunities. What better way to take a break from training than to kick back with your friends and colleagues and enjoy a scrumptious sweet treat?! Be sure to join us for the FREE Sweet Treats Social on Friday afternoon at 3:40. This fun event will provide a quick energy boost, offer the conference organizers and sponsors an opportunity to thank attendees, and, most importantly, provide you with another great opportunity to network with your colleagues and new acquaintances.
A Night of Fairytales and Magic

When: Friday, May 2, 6:00 – 11:00 PM

Do you believe in magic? You will after experiencing A Night of Fairytales and Magic. Join us as we transform the Annual Banquet into a mystical night filled with illusions that will baffle and amaze as well as witness incredible feats of strength and agility by the talented performers of the Vespertine Circus.

Celebrate with us as we recognize friends and colleagues with honors and awards. What’s more, a new board will be sworn in and thanks bestowed on volunteers and board members.

Enjoy this special closing event with your CWEA friends and family and let the magical night inspire innovation within you. Register Now!

Banquet wine is provided by Wente Vineyards.
Film Festival

Lights, Camera, Action!

The Public Education Committee is pleased to bring you the Annual Conference Film Festival!
Start planning your entry now for the 2014 CWEA Film Festival and Awards. Held every three years, the Film Festival is your opportunity to showcase training and public education videos that your agency has produced relating to water and wastewater in California.

Awards will be given in three categories:
1. Amateur
2. Semi-professional
3. Professional

Winning films will be showcased at the Annual Conference in Santa Clara, and it could be you and your agency!

The Public Education Committee encourages you to start thinking about your entry now—it’s not too early. Use the form below to submit your video today!

Entry deadline in March 1, 2014.

RELEASE: I acknowledge that all entries become the property of CWEA and may be used by CWEA at its discretion.

Signature: ____________________________ Date: ____________________________

Name:

Email:

Employer/Organization:

Address:

City: ____________________________ State: ____________________________ Zip: ____________________________

Work Phone: ____________________________ Cell Phone: ____________________________


Video Description:

Mail form and video to: CWEA, 7677 Oakport Street, Suite 600, Oakland, CA 94621-1935

Film Festival Chair
Rupam Soni, Los Angeles County Sanitation District
Phone: 562.908.4288 x2303 • rsoni@lacsd.org
CWEA invites all amateur photographers to enter the AC14 Photo Contest. The contest is open to all CWEA members.

Photos may depict anything related to the wastewater profession. For example, they may depict resource management/recycling/recovery, energy conservation, green practice, or sustainable solutions for wastewater-related facilities.

Photos may be either black and white or color and need to be in both print and electronic formats. Entries will be displayed in the conference gathering area throughout the conference event.

Judging will be based on originality, educational value, and relevance to AC14 conference theme “Training + Innovation = Excellence”.

We will have three categories for judging:

• Process/Infrastructure
• People at Work
• Connections to the Environment

Each category will have a first and second place winner. The first place winner will receive $100 and the second place winner will receive $50.

Entry deadline is March 14, 2014.

RELEASE: I acknowledge that all entries become the property of CWEA and may be used by CWEA at its discretion.

Signature: ____________________________ Date: ____________________________

Name:

Email:

Employer/Organization:

Address:

City: ___________ State: ________ Zip: ________

Work Phone: ___________ Cell Phone: ___________

Photo Category:

- [ ] Process/Infrastructure
- [ ] People at Work
- [ ] Connections to the Environment

Photo Title:

Photo Description:

Mail form and prints to: Maura Bonnarens, c/o EBMUD, 2020 Wake Avenue, Oakland, CA 94607. Also submit an electronic copy of each photo with its title and description to Maura Bonnarens at mbonnare@ebmud.com.
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<thead>
<tr>
<th>Wednesday, April 30 PM</th>
<th>Session 1</th>
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<tbody>
<tr>
<td>Session Title</td>
<td>Innovative Biosolids Technology</td>
<td>Rehobbing &amp; Improving the Collection System</td>
<td>BNR &amp; Side-Stream Treatment</td>
<td>Water Reuse &amp; Advanced Treatment</td>
<td>Cogeneration &amp; Renewable Energy</td>
<td>Funding Success Stories</td>
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<tr>
<td>Session Chair</td>
<td>Dave Bachtel, Lee &amp; Ro</td>
<td>John Hough, Sacramento Area Sewer District</td>
<td>Vijay Sundaram, Stantec</td>
<td>Vijay Sundaram, Stantec</td>
<td>Vijay Sundaram, Stantec</td>
<td>Dindo A. Carrillo, Orange County Sanitation District</td>
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<tr>
<td>Presentation Title</td>
<td>Fats, Oils &amp; Grease (FOG) Facility Expansion at Hyperion Treatment Plant – Alternatives Analysis</td>
<td>Jefferson Street Manhole Rehabilitation Case Study</td>
<td>Optimization of Existing Treatment Facilities for Interim Ammonia Removal</td>
<td>Optimized Design of Granular Medium Filtration Systems</td>
<td>Maximizing Energy Efficiency by Cogeneration System Upgrades</td>
<td>Clean Water State Revolving Fund Loan Program</td>
</tr>
<tr>
<td>Speaker Name, Organization</td>
<td>Michael Sarullo, Los Angeles Bureau of Engineering</td>
<td>Mark Chamberlin, Eastern Municipal Water District</td>
<td>Ron Appleton, Carollo Engineers</td>
<td>Onder Caliskaner, Kennedy/Jenks Consultants</td>
<td>Peter Kistenmacher, South Bayside System Authority</td>
<td>Christopher Stevens, State Water Resources Control Board</td>
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<table>
<thead>
<tr>
<th>1:40 to 2:30</th>
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<tr>
<td>Presentation Title</td>
<td>Recycling Water &amp; Reclaiming Materials</td>
<td>Sewer Rehab in Popular Park Keeps Festival of Lights True to Name</td>
<td>Split Treatment Strategies – Meeting Changing Nutrient Limits Over Time</td>
<td>Low-Energy Unconventional Modular Wastewater Treatment to Produce Reuse Water for Irrigation</td>
<td>Energy Benchmarking &amp; Energy Modeling at Wastewater Treatment Plants</td>
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<tr>
<td>Speaker Name, Organization</td>
<td>Riggs Eckelberry, Origin Oil</td>
<td>Christopher Peters, Brown and Caldwell</td>
<td>John Fraser, Carollo Engineers, Inc.</td>
<td>Andrew Salveson, Carollo Engineers</td>
<td>Justin Rundle, Honeywell</td>
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<tbody>
<tr>
<td>Presentation Title</td>
<td>Innovative Technology – Deepwell Placement of Biosolids</td>
<td>Consolidating the Santa Cruz County Sanitation District Collection System</td>
<td>Benefits of a Site-Specific Nitrification Rate Study for Plant Process Design</td>
<td>Virus Removal Capabilities of MBR System in a Full-Scale Water Reclamation Facility</td>
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The technical program can change. Please visit www.cwea.org/conferences for the most up-to-date information.
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<tr>
<td>Lab Quality</td>
<td>Operator Regulation Update</td>
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<td>Safety for Off-Site Workers</td>
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<tr>
<td>Gina Cloutier, Victor Valley Wastewater Reclamation Authority</td>
<td>Rick Staggs, City of Fresno</td>
<td>Rick Staggs, City of Fresno</td>
<td>Gayle Tupper</td>
<td>Matt Wheeler, Matt Wheeler Engineering</td>
<td>Steve Dominguez, Delta Diablo Sanitation District</td>
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<td>1:40 to 2:30</td>
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<td>3:50 to 4:45</td>
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<tr>
<td>Preparing Your Wastewater Laboratory for the Next CDPH ELAP Audit – Part I Diane Lawver, Quality Assurance Solutions</td>
<td>Model-Based Operators’ Training Alex Ekster, Ekster &amp; Associates</td>
<td>Chemical Metering Pumps &amp; Accessories Richard Hopkins, Hopkins Technical Products</td>
<td>Practical Approaches to Working With Commercial &amp; Small Industrial Dischargers Betsy Elzufon, Larry Walker Associates</td>
<td>Top 10 OSHA Violations Jerry Bach, Safety Center</td>
<td>Applying for SRF Funding for Your Master Plan CIP Program Kathryn Rogers, Carollo Engineers</td>
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<tr>
<td>Organization</td>
<td>Name, Speaker</td>
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<td>Authority Wastewater</td>
<td>Eric Have/Encina Learn &amp; Lessons Marketing</td>
<td>Biosolids</td>
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<td>Irvine Ranch Water District</td>
<td>Steve Malloy, Billy Stewart</td>
<td>Utilizing Water Districts</td>
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<td>Energy Coalition Area Biosolids to Energy – Perspectives from WRRF &amp; Big Spring, TX</td>
<td>Eva Steinle-Darling</td>
<td>Pilot-Scale Testing of the ANITA Mox Process for Centrate Deammonification</td>
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<td>IRWD Builds World Class Biosolids &amp; Energy Recovery Facilities at the Michelson WRP</td>
<td>Paul Kelley, Bay Area Biosolids to Energy Coalition</td>
<td>Biosolids to Energy – Implementing Resource Recovery</td>
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<td>Battling Scale in a Collection System</td>
<td>Robin Morishita and Jeffery Stecker, Leucadia Wastewater District</td>
<td>Force Main Pipe Wall Corrosion Assessment Using Inline Inspection Tools</td>
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<td>Nutrient Removal for All Budgets</td>
<td>Bruce Mansel, Los Angeles County Sanitation Districts</td>
<td>Evaluation of Four Pilot-Scale Treatment Trains Based for Chloride Removal</td>
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<td>Sequential Chlorination to Disinfect Tertiary Recycled Water: Regulatory Approval &amp; Implementation at the San Jose Creek East WRP</td>
<td>Naoko Munakata, Los Angeles County Sanitation Districts</td>
<td>On-Line Spectrometry &amp; Use in ANAMMOX Process</td>
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The technical program can change. Please visit www.cwea.org/conferences for the most up-to-date information.
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<th>Session</th>
<th>Laboratory</th>
<th>Operations &amp; Maintenance</th>
<th>Operations &amp; Maintenance</th>
<th>Pretreatment, Pollution Prevention, &amp; Stormwater</th>
<th>Public Education</th>
<th>Safety</th>
<th>Supergroup</th>
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<td>IT Tools</td>
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<td>New Views on Pollutants of Concern</td>
<td>Overcoming Public Education Challenges to Meet Your Goals</td>
<td>Innovative Safety</td>
<td>Maximizing Asset Performance</td>
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<td>Consider attending the Laboratory Committee Breakfast Meeting at 7:00 AM</td>
<td>NO PRESENTATION</td>
<td>NO PRESENTATION</td>
<td>NO PRESENTATION</td>
<td>New Views on Pollutants of Concern</td>
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<td>Consider attending the Operations and Maintenance Committee Breakfast Meeting at 7:00 AM</td>
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**7:45 to 8:35**

**8:50 to 9:40**

**9:55 to 10:45**

**11:00 to 11:50**

**11:50 to 12:45**

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**www.cwea.org/conferences • AC14 • Training + Innovation = Excellence**

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<tr>
<td>Session Title</td>
<td>Eliminating SSOs</td>
<td>Water Resource Recovery Facility Optimization</td>
<td>WRRF Construction &amp; Project Delivery</td>
<td>BNR &amp; Side-Stream Treatment</td>
<td>Lab Support</td>
</tr>
<tr>
<td>Session Chair</td>
<td>John Hough, Sacramento Area Sewer District</td>
<td>Vijay Sundaram, Stantec</td>
<td>Vijay Sundaram, Stantec</td>
<td>Vijay Sundaram, Stantec</td>
<td>Gina Cloutier, Victor Valley Wastewater Reclamation Authority</td>
</tr>
<tr>
<td>Presentation Title</td>
<td>Design &amp; Construction of TBM Pipe-Jacking through Fault Creeping Ice-Age Deposits</td>
<td>Secondary System Improvements at El Estero Wastewater Treatment Plant, Santa Barbara, CA</td>
<td>Design-Build Procurement for Davis’s Wastewater Treatment Plant Secondary &amp; Tertiary Improvements</td>
<td>Optimizing Nitrification Efficiency of Trickling Filters</td>
<td>Alum Profile in a Wastewater Plant</td>
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<tr>
<td>Speaker Name, Organization</td>
<td>John Goodwin, West Yost Associates</td>
<td>Vamsi Seeta, Brown and Caldwell</td>
<td>Bhavani Yerrapotu, City of Sunnyvale</td>
<td>Jennie Munster, City of Santa Cruz</td>
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<tr>
<td>Speaker Name, Organization</td>
<td>Xiangquan Li, HDR Engineering</td>
<td>Maliika Ramanathan, HDR Engineering</td>
<td>George Chin, Carollo Engineers</td>
<td>Coenraad Pretorius, Carollo Engineers</td>
<td>Walter Hsieh, Eurofins Eaton Analytical, Inc.</td>
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<tr>
<td>Presentation Title</td>
<td>Successfully Implementing a 5-Year Sewer System Pipe Cleaning Program to Mitigate SSOs</td>
<td>Fluid Dynamic Modeling for Optimization of Rectangular Secondary Clarifier Operations</td>
<td>Some Common Sense Approaches to Change Orders &amp; Claims Mitigation</td>
<td>Nitrification in a Low-pH Trickling Filter/Activated Sludge Process</td>
<td>Laboratory’s Role In SSO Response</td>
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<tr>
<td>Speaker Name, Organization</td>
<td>Steven Gunsch, HDR Engineering</td>
<td>Edward Wicklein, Carollo Engineers</td>
<td>Madan Arora, Parsons</td>
<td>Andre Gharagozian, Carollo Engineers</td>
<td>Dr. Matthew Buffleben, State Water Resources Control Board</td>
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<td>Infrastructure Rehabilitation</td>
<td>Talking Trash</td>
<td>Overcoming Public Education Challenges to Meet Your Goals – Water Quality, Rate, &amp; Infrastructure</td>
<td>Innovation</td>
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<tr>
<td>Rick Staggs, City of Fresno</td>
<td>Rick Staggs, City of Fresno</td>
<td>Elisa Wilfong, City of Hayward</td>
<td>Dianne Lee, West Yost Associates</td>
<td>Steve Dominguez, Delta Diablo Sanitation District</td>
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<tr>
<td><strong>Eat Away Your Overhead with a Healthier, Stronger Microbial Population</strong></td>
<td><strong>The Down &amp; Dirty Details of Secondary Clarifier Rehabilitation</strong></td>
<td><strong>The Future of Trash Reduction</strong></td>
<td><strong>Everyone's a Kid at Heart</strong></td>
<td><strong>Relative Performance of Grit Removal Devices</strong></td>
</tr>
<tr>
<td>Joseph Bonaccorso, Prodex, a Division of JSH International</td>
<td>Joseph Ziemann and Scott Bueker, Water Works Engineers</td>
<td>Chris Sommers, EOA</td>
<td>Jackie Davison, City of Sunnyvale</td>
<td>Patrick Herrick, Hydro International</td>
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<tr>
<td><strong>Achieving Stellar Effluent Results While Operating Outside the “Textbook” Values</strong></td>
<td><strong>Condition Assessment of Power &amp; Air System</strong></td>
<td><strong>Plastic Bag Ban – Is It Effective?</strong></td>
<td><strong>Three Pitfalls of Outreach &amp; How to Avoid Them</strong></td>
<td><strong>Operating a Mini-WWTP in the Heart of San Francisco – Living Machine’s First Year</strong></td>
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<tr>
<td>Steve Tamburini, Tetra Tech</td>
<td>Arvind Akela, CDM Smith; Joanna De Sa, San Jose/Santa Clara Regional Wastewater Facility</td>
<td>Napp Fukuda, City of San Jose</td>
<td>Stephen Groner, S. Groner Associates</td>
<td>John Scarpulla, San Francisco Public Utilities Commission</td>
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<tr>
<td><strong>Biological Dredging</strong></td>
<td><strong>Challenges of Upgrading Electrical Infrastructure at a 50+ Year Old Treatment Facility</strong></td>
<td><strong>Clean Creeks, Healthy Communities</strong></td>
<td><strong>Making Wastewater &amp; Storm Water “Sexy”</strong></td>
<td><strong>EnvisionTM: Sustainability in Wastewater Infrastructure</strong></td>
</tr>
<tr>
<td>Chip Bettle, Absolute Aeration</td>
<td>Rob Hunt, Carollo Engineers</td>
<td>Sharon Newton, City of San Jose</td>
<td>John Gross, Goldstreet Designs</td>
<td>Kathryn Gies, West Yost Associates</td>
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<td>Managing the Collection System</td>
<td>WERF Nutrients Study: Friend or Foe</td>
<td>Water Reuse &amp; Advanced Treatment</td>
<td>Water Resource Recovery Facility Optimization</td>
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<tr>
<td><strong>Session Chair</strong></td>
<td>John Hough, Sacramento Area Sewer District</td>
<td>Vijay Sundaram, Stantec</td>
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<td>Vijay Sundaram, Stantec</td>
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<tr>
<td><strong>Presentation Title</strong></td>
<td>Constructing, Updating, &amp; Auditing Sewer System Management Plans to Reduce SSOs</td>
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<td><strong>Speaker Name, Organization</strong></td>
<td>Heather Billing, Wallace Group</td>
<td>Consider attending the Engineering and Research Committee Breakfast Meeting at 7:00 AM</td>
<td>Consider attending the Engineering and Research Committee Breakfast Meeting at 7:00 AM</td>
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<tr>
<td><strong>Presentation Title</strong></td>
<td>Creating Procedures for Your Sewer System Management Plan</td>
<td>Practical Lessons Learned from Five BNR Plants</td>
<td>Evaluation of a New Cloth Filter Performance in a Short SRT Activated Sludge Plant</td>
<td>City of Roseville Secondary Clarifier &amp; RAS Pump Station Rehabilitation</td>
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<tr>
<td><strong>Speaker Name, Organization</strong></td>
<td>Bill Callahan, Wallace Group</td>
<td>WERF Study Team</td>
<td>WERF Study Team</td>
<td>Scott Buecker, Water Works Engineer</td>
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<tr>
<td><strong>Presentation Title</strong></td>
<td>What Does a Successful Fats, Oils, &amp; Grease Program Look Like?</td>
<td>Troubleshooting the Growth of Filamentous Organization in BNR WRRFs</td>
<td>Validation Testing of a Continuous Backwash Filter in an Intermittent Mode of Operation</td>
<td>Effluent Channel Bypass Surgery at EBMUD’s Main Wastewater Treatment Plant</td>
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<tr>
<td><strong>Speaker Name, Organization</strong></td>
<td>Jasmine Diaz, Wallace Group</td>
<td>WERF Study Team</td>
<td>Keith Bourgeois, Carollo Engineers</td>
<td>Eric Fieberling, East Bay Municipal Utility District</td>
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<tr>
<td><strong>Presentation Title</strong></td>
<td>Improving SSS WDR Compliance &amp; SSMP Implementation through an Effective Internal Audit Process</td>
<td>Experience with Side-Stream Deammonification</td>
<td>The North Valley Regional Recycled Water Program (NVRRWP): Technical Analyses of Recycled Water Delivery</td>
<td>Lessons Learned from IRWD – Setting Boundary Conditions When Estimating GHG Emissions for a Sustainability Evaluation</td>
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<tr>
<td><strong>Speaker Name, Organization</strong></td>
<td>Michael Flores, RMC Water and Environment</td>
<td>WERF Study Team</td>
<td>Ryan Doyle, RMC Water and Environment</td>
<td>Stephanie Shamblin Gray, HDR Engineering</td>
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<th>Operations &amp; Maintenance</th>
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<th>Students &amp; Young Professionals</th>
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<td><strong>Session 40</strong></td>
<td><strong>Session 41</strong></td>
<td><strong>Session 42</strong></td>
<td><strong>Session 43</strong></td>
<td><strong>Session 44</strong></td>
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<tr>
<td>Flushable? Dispersible? Disposable?</td>
<td>Beyond Secondary Treatment</td>
<td>O&amp;M Potpourri</td>
<td>Management</td>
<td>Innovation from the New Wave</td>
<td></td>
</tr>
<tr>
<td>Gayle Tupper</td>
<td>Rick Staggs, City of Fresno</td>
<td>Rick Staggs, City of Fresno</td>
<td>Steve Dominguez, Delta Diablo Sanitation District</td>
<td>Beth Field</td>
<td></td>
</tr>
<tr>
<td><strong>Overview</strong></td>
<td><strong>Challenges, Successes, &amp; Lessons Learned from the Retrofit of a Conventional Activated Sludge Water Reclamation Facility for Nitrogen Reduction</strong></td>
<td><strong>Turbo Blowers – Built to Last or Built too Fast?</strong> Andrea Turriciano and Bill Schilling, CDM Smith</td>
<td>NO PRESENTATION</td>
<td>NO PRESENTATION</td>
<td></td>
</tr>
<tr>
<td>Aubrey Strauss, Verdant Water and Maine Wastewater Association</td>
<td>Lisa Coburn-Boyd and Gene Palop, Otay Water District</td>
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<tr>
<td><strong>What Products are Really Considered Flushable?</strong> Steve Ogle, INDA (Association of Nonwoven Fabrics Industry)</td>
<td><strong>Use of Supplemental Carbon to Lower Nitrate Discharge Levels at the El Dorado Hills WTF</strong> Matthew Schowengerdt, Environmental Operating Solutions; Vickie Caulfield, El Dorado Irrigation District</td>
<td><strong>Trickling Filters – Design, Operation, Maintenance, &amp; Future</strong> Bryan Rothermel, Brentwood Industries</td>
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<tr>
<td><strong>Collection Systems</strong> Justin Waples, Central Contra Costa Sanitary District</td>
<td><strong>Sludge Settling Improvements at the 18-MGD BNR Facility</strong> Alex Ekster, Ekster &amp; Associates</td>
<td><strong>Automated Dredge for Large Pond – Considering Aerators, Land Application, &amp; Belt Presses</strong> Greg Chung, GHD</td>
<td>Innovating the Operator</td>
<td>A Case Study of Ammonia Breakthrough Using Statistical Analysis</td>
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<td></td>
<td><strong>Introduction to Ozonation</strong> Robert Moncrief, H2O Engineering</td>
<td><strong>Small Facility, Big Problems, Creative Solutions</strong> Linda Garcia, Western Municipal Water District</td>
<td>Keon D. Nelson, City of Garden Grove</td>
<td>Brittany Liu, University of California Irvine</td>
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<tr>
<td><strong>Pretreatment/Source ID</strong> Colleen Henry, Central Contra Costa Sanitary District</td>
<td><strong>Energy Generation + Sustainable Disinfection with Title 22-Certified Pasteurization Technology: Results of System Operations in Graton, CA</strong> Greg Ryan, Pasteurization Technology Group</td>
<td><strong>H2S Impacts on Wastewater Treatment Facilities</strong> Dan Cravins, City of Fresno</td>
<td>Evaluation Bids – Developing Specs with Your Best Interest in Mind</td>
<td>Optimization of Volatile Fatty Acid Production from Food Waste for Bioplastic Production</td>
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<td>Cristina Ahmadpour, APG Neuros</td>
<td>Rameshwor Kaphle, California State University, Fresno</td>
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<td>Small Water System Economic Analysis of Brine Residual Disposal</td>
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<td>Vivian B. Jensen, University of California Davis</td>
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<td>Modeling Sacramento River Winter-Run Chinook Population Changes Due to Climate Change</td>
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<td>Rosemarie Dimacali, CH2M Hill</td>
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<tr>
<td><strong>Outreach/Education</strong> Melody LaBella, Central Contra Costa Sanitary District</td>
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</tbody>
</table>
## Technical Sessions (cont’d)

<table>
<thead>
<tr>
<th>Friday, May 2 PM</th>
<th>Session 45</th>
<th>Session 46</th>
<th>Session 47</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Session Title</strong></td>
<td>Collection System Asset Management</td>
<td>Advancements in Water Resource Recovery</td>
<td>Advancements in Water Resource Recovery</td>
</tr>
<tr>
<td><strong>Session Chair</strong></td>
<td>John Hough, Sacramento Area Sewer District</td>
<td>Vijay Sundaram, Stantec</td>
<td>Vijay Sundaram, Stantec</td>
</tr>
<tr>
<td><strong>Presentation</strong></td>
<td>Building a Lean &amp; Mean Collection System Asset Management System from the Ground Up</td>
<td>Single Pass Process Intensified MBR Design Producing Excellent Effluent Quality</td>
<td>Water Reuse Without Membranes?</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>Jon Wells, West Yost Associates</td>
<td>Rahul Thukral, OVIVO USA</td>
<td>Val S. Frenkel, ARCADIS</td>
</tr>
<tr>
<td><strong>Speaker</strong></td>
<td></td>
<td>Fixed Film Technology Advancements – Structured Sheet Media System Applications</td>
<td></td>
</tr>
<tr>
<td><strong>Name, Organization</strong></td>
<td></td>
<td>Bryan Rothermel, Brentwood Industries</td>
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<tr>
<td><strong>1:40 to 2:30</strong></td>
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<tr>
<td><strong>Presentation</strong></td>
<td>Info What? Using InfoMaster to Develop a Rehabilitation &amp; Replacement Plan</td>
<td>Primary Effluent Filtration as an Intermediary Treatment Step for Energy &amp; Capital Savings</td>
<td>Low Energy Alternatives for Activated Sludge – Anaerobic Membrane Bioreactor Treatment</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>Alexander Palmatier, HDR Engineering</td>
<td>Onder Caliskaner, Kennedy/Jenks Consultants</td>
<td>Tanja Rauch-Williams, Carollo Engineers</td>
</tr>
<tr>
<td><strong>Speaker</strong></td>
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<tr>
<td><strong>Name, Organization</strong></td>
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<tr>
<td><strong>2:45 to 3:35</strong></td>
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</table>

The technical program can change. Please visit www.cwea.org/conferences for the most up-to-date information.
## Session 48
### Water Resource Recovery
- **Facility Optimization**
  - **Vijay Sundaram,** Stantec

## Session 49
### Collections Operations
- **Low Cost Conversion of Chemical Mist Odor Control Scrubbers to Biological Scrubbers**
  - **Paul Cockrell,** EDEA
- **Hayward’s 27” Sewer Force Main Inspection to Determine Extent of Damage**
  - **Robert Gerena,** City of Hayward
- **Chicago Successfully Tackles Aging Brick & Mortar Manhole Rehabilitation Effort & Other Exciting No-Dig Projects**
  - **Donald Sims,** Diversified Mineral Source

## Session 50
### Instrumentation
- **Introduction to Online Process Instrumentation for Activated Sludge Monitoring**
  - **Robert Smith,** YSI, A Xylem Brand
- **Undervalued Rainfall – Gauging Considerations for Sewer Evaluation**
  - **Paul Mitchell,** ADS Environmental Services

## Session 51
### Time Management
- **Finally! A Cost-Effective, Reliable Flow Meter for Digesters & Landfills**
  - **Bruce Burton,** Kuzz Instruments

---

In 80 years, a lot has changed. Our single-minded passion for water has not. This concentrated focus delivers powerful benefits to you, including access to the very best talent in the industry, superior water solutions, unparalleled client service, and above all, a collaborative culture that makes us a great partner for all who work with us. In fact, Carollo’s core commitment to our clients remains as meaningful today as it was eight decades ago. And that will never change.

1.800.523.5826 | carollo.com
Registration Instructions

To ensure accuracy, please photocopy the Conference Registration Form for each attendee registering if you are submitting multiple attendee registrations. Read all instructions prior to filling out the Registration Form and all other necessary forms. Discrepancies may result in delays when you pick up your registration materials at the conference. All conference attendees, including speakers, are required to register.

Early Bird Registration

Early Bird Registration entitles you to a reduced conference registration rate, and your entire registration package will be prepared and ready for you to pick up when you arrive at the Ice Breaker Reception or the Conference Registration Desk at the Convention Center. You will avoid the wait time that is necessary for all on-site registrations, and you or your employer will save money! Early Bird Registration must be accompanied with the appropriate fee in order to be processed.

Ice Breaker Reception

In addition to picking up your packet at the Main Registration Desk at the Santa Clara Convention Center, registration packets may also be picked up at the Ice Breaker Reception on Tuesday after 6:00 PM at the Santa Clara Convention Center.

Online Registration

Conference attendees can also register online by visiting CWEA’s secure website at: www.cwea.org/conferences. This registration process requires a credit card payment and member ID.

Member-Discounted Rates

You must include your current, valid membership number to receive the member-discounted rate. All membership numbers will be verified. Only CWEA, WEF, or CA-NV AWWA membership qualifies for member-discounted rate. The additional cost of the Regular Registration rate will be applied toward one year of CWEA membership.

Retired Members

Retired Members are eligible for a special registration rate of $250. CWEA Bylaws state that a retired member is any person retired from and not currently affiliated professionally or technically with the water quality field.

Student Members

Full-time students are eligible for free registration. This special registration rate does not include meals, which can be purchased separately. Students must provide proof of full-time status (9 or more units per semester) to receive this special registration rate.

Exhibits Only Pass

Special passes are available for those wishing to tour the exhibit hall exclusively at a rate of $150 for the full conference or $85 for one day. Complete and submit the Conference Registration Form, selecting either Full Conference “Exhibits Only” or One-Day “Exhibits Only”, with your payment and pick up your pass at the registration desk.

Spouse/Guest Registration

Spouse/Guest Registration includes participation in the Ice Breaker Reception on Tuesday night, entrance into the Exhibit Hall on both days, a drink ticket for each of the Exhibit Hall receptions, Thursday lunch in the Exhibit Hall, and Friday’s Sweet Treats Social. Since you must be registered for the conference as an attendee to earn contact hours, spouses/guests are not eligible for contact hours.

Pre-Conference Workshops

Cost includes lunch for all workshops. Registration and workshops will be in the Santa Clara Convention Center.

Exhibitor Registration

Exhibitors are encouraged to participate in social events. Exhibitors must register spouses and/or guests. All exhibitor meals and spouse/guest meals must be paid for on the Conference Registration Form. Exhibitor registration will be handled through the CWEA office. Please pick up your company’s packet at the Ice Breaker Reception on Tuesday evening after 6:00 PM or on Wednesday morning at the Registration Desk. Exhibitors are assigned booth spaces in the order of receipt of paid registration.

Golf Tournament and Sludge Trudge Registrations

Competitive activities registration forms are included in the conference brochure along with a description of each event. The appropriate form for the activity must be included with your conference registration form. If you are registering for these by personal check and the registration is paid by your agency, please enclose all forms and payments together. This will allow us to better coordinate all of your activities and process a complete registration packet for you. See the Golf Tournament and Sludge Trudge Registration Forms for further details.

Activities Hosted by Students & Young Professionals

A registration form is included in the conference brochure for the networking and mentoring activities hosted by the CWEA Students & Young Professionals Committee. If you are interested in participating as a Young Professional or as a Seasoned Professional, please include the completed form with your conference registration. These activities are FREE, however your advance registration will allow us to better coordinate the activities. See the following registration pages for details.
Conference Meals
Please indicate which conference meals you and your spouse/guest will be attending by checking the appropriate box on the Conference Registration Form. Note the number attending plus the cost in the space provided.

Hotel Registration
To book your hotel rooms, please go to www.cwea.org/conferences and click on the “Book Rooms” button under AC2014 or use the Hotel Information links on the following page.

Operations Challenge Registration
Use the Ops Challenge Registration Form included in this brochure to sign up your team. Pay the team fee in addition to each participant’s conference registration. If participants are sending separate conference registration, make sure the Operations Challenge fee and form are sent with the team captain’s registration.

Registration Hours
The Registration Desk will be located at the Santa Clara Convention Center (see map on inside of back cover). Registration hours are as follows:

- **Tuesday, April 29**
  - Workshop registration only, 8:00 AM – 1:00 PM
  - Ice Breaker Reception, 6:00 – 8:00 PM
- **Wednesday & Thursday, April 30 – May 1,**
  - 7:00 AM – 5:00 PM
- **Friday, May 2,**
  - 7:00 AM – 12:00 PM

Registration Payment
Payment can be made by check or money order payable to: CWEA 2014 Annual Conference. Credit card payments are also accepted using the enclosed registration form or through CWEA’s secure website (www.cwea.org/conferences).

**Early Bird Registration MUST be post-marked by April 7, 2014.** Those who submit payments with an Early Bird Registration fee after April 7, 2014, will be billed for the difference.

All fees for conference registration shall be paid in full at the time of Early Bird Registration or on-site registration. Full payment may be made by credit card, personal check, or company/agency check. Purchase orders are also acceptable. **Registrations received by CWEA without full payment or purchase order will not be processed.**

You must be registered for the conference as an attendee to receive contact hours. Guests/spouses and exhibits only registrations are not eligible for contact hours.

Registration Questions
Registration questions may be referred to CWEA’s office at 510.382.7800 x107.

Hospitality Suites
While CWEA welcomes “Hospitality Occasions” provided for our members, they must not open until after all regularly scheduled conference events or exhibits have closed. Hospitality suites are available. **All hospitality events (both on-site and off-site) must be arranged/approved through the Conference Chairs, Julie Taylor and Amber Schalansky.** Please send an email request to jtaylor@cwea.org or schalansky@SacSewer.com indicating hosting organization, details of proposed event, preferred evening (Wednesday or Thursday), and coordinator’s name and contact information.

Refund Policy
Written cancellation notice is required and must be received at least 30 days prior to the conference date. A 25% service fee shall be retained on all cancellations. No refunds will be given for cancellations made less than 30 days prior to the conference.
CWEA has negotiated discounted hotel rates for CWEA attendees at the Hyatt Santa Clara, our headquarter hotel, and the Avatar Hotel. The links below are also available online at www.cwea.org/conferences. Hotel reservations are taken on a first-come, first-served, space available basis. Submit your reservation as soon as possible for the best opportunity of receiving your hotel choice.

Book Today
Please book your hotel reservation through each hotel’s link at www.cwea.org/conferences.

Deadline
All reservations must be received by April 7, 2014, to guarantee availability and conference rates. After this date, reservations will be made based on availability, and hotels may charge higher rates.

Deposit
All reservation requests must be accompanied by a credit card guarantee or a check equaling the amount of one night’s room and tax for each room reserved.

Acknowledgments
The hotels will send reservation acknowledgements within 24 hours via email when booked online. If you do not receive your acknowledgement in this time frame, contact the hotel at the numbers below.

Cancellations/Changes/Refunds
No-shows or cancellations within 72 hours of arrival date will be charged the first night’s room rate and tax.

Questions or Special Requests?
Please contact the hotels directly.

Hyatt Santa Clara - Headquarter Hotel
5101 Great America Parkway, Santa Clara, CA 95054
$179 per night (single or double occupancy) plus taxes
Book Online or call 408.200.1234

Avatar Hotel
4200 Great America Parkway, Santa Clara, CA 95054
$119 per night (single or double occupancy) plus taxes
Book Avatar Hotel for CWEA or call 408.235.8900

Help make this meeting a success. Book early and with our preferred hotels.
## Conference Registration Form

Register online at [www.cwea.org/conferences](http://www.cwea.org/conferences)

### Please print or type all information

<table>
<thead>
<tr>
<th>First Name:</th>
<th>Name for Badge:</th>
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<tr>
<td>Agency/Company:</td>
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<td>Address:</td>
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<td>City:</td>
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<td>Zip:</td>
<td>Country:</td>
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<td>Phone:</td>
<td>Fax:</td>
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<tr>
<td>Email (required to receive confirmation):</td>
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<tr>
<td>Emergency Contact:</td>
<td>Phone:</td>
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</tbody>
</table>

- [ ] CWEA Member
- [ ] WEF Member
- [ ] CA-NV AWWA Member

Regular rate includes 1 year membership in CWEA. Please check here if you do **not** wish to take advantage of CWEA membership [x]

**Special Services:** Please check here if you require special accommodations to fully participate. Attach a written description of your needs.

### FULL CONFERENCE ATTENDANCE: Wednesday, April 30 – Friday, May 2

<table>
<thead>
<tr>
<th>Early Bird (Deadline: 4/7/14)</th>
<th>Regular Registration (After 4/7/14)</th>
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<tr>
<td>Member-Discounted Rate</td>
<td>$450</td>
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<tr>
<td>Regular Rate</td>
<td>$598</td>
</tr>
<tr>
<td>Retired Member (Same fee for Early Bird or Regular Registration)</td>
<td>$250</td>
</tr>
<tr>
<td>Full-Time Student (Must provide proof of attendance at a college or university with a minimum of 9 units)</td>
<td>No cost</td>
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Name of School: ____________________________

Exhibits Only (Same fee for Early Bird or Regular Registration for both days) | $150

**FEE SUBTOTAL**

### ONE-DAY CONFERENCE ATTENDANCE: (Please check the day you would like to attend)

Day of attendance: [ ] WED (4/30) [ ] THU (5/1) [ ] FRI (5/2)

<table>
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<tr>
<th>Early Bird (Deadline: 4/7/14)</th>
<th>Regular Registration (After 4/7/14)</th>
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<tr>
<td>Member-Discounted Rate</td>
<td>$275</td>
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<tr>
<td>Regular Rate</td>
<td>$423</td>
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<tr>
<td>Full-Time Student (Must provide proof of attendance at a college or university with a minimum of 9 units)</td>
<td>No cost</td>
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Name of School: ____________________________

Exhibits Only (Same fee for Early Bird or Regular Registration for both days) | $85

Select the day you would like to attend: [ ] WED (4/30) [ ] THU (5/1) (No Exhibits on Friday)

**FEE SUBTOTAL**

### PRE-CONFERENCE WORKSHOPS: Tuesday, April 29 (See Workshop pages for session descriptions.) All workshops include lunch!

(ONLY IF you are registering for Full Conference Attendance as a member or non-member above, then use Member-Discounted Rate for Pre-Conference Workshops.)

<table>
<thead>
<tr>
<th>Workshops</th>
<th>Member-Discounted Rate</th>
<th>Regular Rate</th>
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</thead>
<tbody>
<tr>
<td>W1. Laboratory 202</td>
<td>$165</td>
<td>$313</td>
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<tr>
<td>W2. Collection System Asset Management</td>
<td>$165</td>
<td>$313</td>
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<tr>
<td>W3. Training the Trainer</td>
<td>Free</td>
<td>Free</td>
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<tr>
<td>W4. Source Control System Toolbox – Educating Collection System Workers</td>
<td>Free</td>
<td>Free</td>
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<tr>
<td>W5. Leadership Training – Sizzle and Substance: Creating Brain-Friendly Presentations</td>
<td>$165</td>
<td>$313</td>
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<tr>
<td>W6. Using Design Build to Improve and Accelerate the Construction of Water and Wastewater Infrastructure</td>
<td>$165</td>
<td>$313</td>
</tr>
<tr>
<td>W7. Wastewater Treatment Regulations 101</td>
<td>$165</td>
<td>$313</td>
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**FEE SUBTOTAL**

FORM CONTINUES ON THE NEXT PAGE...
CONFERENCE MEALS (Unless otherwise noted, meals are not included with registration. Meals noted as free are not automatically included.)

M1. Ice Breaker Reception and SS Installation (TUE, 4/29), Santa Clara Convention Center ......................... @  Free with Registration
M2. Exhibit Hall Luncheon (THU, 5/1), Santa Clara Convention Center Exhibit Hall ........................................... @  Free with Registration
M3. Awards Luncheon and Annual CWEA Business Meeting (FRI, 5/2), Santa Clara Convention Center .................. @  $42
M4. Sweet Treats Social (FRI, 5/2), Santa Clara Convention Center .............................................................. @  Free with Registration
M5. CWEA Annual Banquet – A Night of Fairies and Magic (FRI, 5/2), Santa Clara Convention Center ............... @  $60

COMMITTEE BREAKFAST MEETINGS (Only one may be attended per day.)

Thursday, 5/1, 7:00 – 8:30 AM
Collection Systems ......................... @  $30
Laboratory ........................................... @  $30
P3S .................................................. @  $30
Operator & Maintenance Training.............. @  $30

Friday, 5/2, 7:00 – 8:30 AM
Engineering & Research ......................... @  $30
Safety ............................................. @  $30
Students & Young Professionals ................. @  $30
Supergroup ........................................ $30

TECHNICAL TOURS (Busses for all Tours will depart from the Convention Center entrance. See Technical Tours pages for tour descriptions.)

Tour registration may only be purchased in conjunction with a one-day or full conference registration.
T1. City of Santa Cruz – Wastewater Treatment Facility (WED, 4/30) ......................................................... @  $30
T2. City of San Jose/Santa Clara Valley Water District – Silicon Valley Advanced Water Purification Facility (WED, 4/30) ......................................................... @  $30
T3. Gordon Biersch Brewery – Wastewater Pre-Treatment System (THU, 5/1) ............................................. @  $30
T4. Union Sanitary District – Collection System Operations and Maintenance (THU, 5/1) ......................... @  $30
T5. City of San Jose/City of Santa Clara – San Jose/Santa Clara Regional Wastewater Facility (FRI, 5/2) ................ @  $30

SPECIAL EVENTS, ETC. (See Activities and Networking pages for full descriptions.)

Early Bird (Deadline: 4/7/14)  Regular Registration (After 4/7/14)
GT. Golf Tournament (TUE, 4/29). Registration for sports events MUST be accompanied by the appropriate form, including the signed waiver. (See page 39) ....... @  $90

ST. Sludge Trudge 5K Fun Run/Walk (THU, 5/1). Registration for sports events MUST be accompanied by the appropriate form, including the signed waiver. (See page 40) ......................... @  $25 (Pre-Race)  $35 (Race Site)  $15 (T-Shirt Only)

T-Shirt Size:  S  M  L  XL  XXL ......................................................... @  $15 (T-Shirt Only)

SG. Spouse/Guest Registration. (See page 34 for more information.) ................................................................. @  $50

Mail registration payments and forms to CWEA, 7677 Oakport Street, Suite 600, Oakland, CA 94621-1935
For payments by check or money order, make payable to CWEA 2014 Annual Conference

Credit card payments may be mailed to the address above or faxed to CWEA at 510.382.7810.
Disclaimer: “CWEA is not responsible for theft of or damage to personal or agency/company property whether intended to be used for CWEA purposes or not.”

You may also register online at www.cwea.org/conferences

REFUND POLICY • See page 31
**WHEN:** Tuesday, April 29, 2014
11:30 AM check-in and 12:30 PM shotgun start

**WHERE:** Santa Clara Golf and Tennis Club
5155 Stars and Stripes Drive
Santa Clara, CA 95054
For directions call 408.980.9515

**FORMAT:** 4-Person Scramble

**FEE:** $90 per player. Includes golf, cart, BBQ dinner, and prizes.

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**Contact**

**John Goodwin,** West Yost Associates
Phone: 530.792.3294 • jgoodwin@westyost.com

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**Golf Tournament Registration Form**

Please complete the following information:

Each golfer must submit a signed form.

**WAIVER:** In consideration of the acceptance of my entry, I, the undersigned, intending to be legally bound to myself, my executors, administrators, and assignees, do hereby waive and release the California Water Environment Association and all persons and agencies connected with the CWEA Golf Tournament from all claims for damages arising from my participation in and travel to and from this event. I also certify that I am physically fit and adequately trained to participate in this event.

Signature: ___________________________________________ Date: ____________________________

**Please enter me in the CWEA Golf Tournament**

<table>
<thead>
<tr>
<th>Name:</th>
<th>Email:</th>
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<tbody>
<tr>
<td>Employer:</td>
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<tr>
<td>Address:</td>
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<tr>
<td>City:</td>
<td>State:</td>
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<tr>
<td>Work Phone:</td>
<td>Cell Phone:</td>
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</table>

**Foursome Preferences (Optional)**

<table>
<thead>
<tr>
<th>Name:</th>
<th>Phone:</th>
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**PLEASE INCLUDE THIS FORM WITH YOUR COMPLETED CONFERENCE REGISTRATION FORM**

“Golf Only” registrations are accepted by mail or fax (510.382.7810)
# Sludge Trudge Registration Form

## 31st Annual Sludge Trudge
### 5K Fun Run/Walk

**WHEN:** Thursday, May 1, 4:00 PM Start  
**WHERE:** San Tomas Aquino Creek Trail (Adjacent to the Convention Center)  
**FORMAT:** Run or walk  
**FEE:**  
- $25 Pre-race (includes t-shirt)  
- $35 Race day (includes t-shirt)  
- $15 T-shirt only

There will be one grand prize man and woman winner, as well as winners for the first place man and woman in each of the runner categories. There will be one prize drawing each for all men and women’s walker categories.

**Back by popular demand - the School of Fish category!**  
In addition to individual categories, a prize will be awarded to the team of 3+ employees from the same firm or agency with the fastest AVERAGE time. **School of Fish** teams will be determined based on registration. Any firm or agency with 3 or more employees registered for the race will be automatically entered. Team members will still be eligible for individual prizes.

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### Committee Chair:

**Al Grayson,** Lawrence Livermore National Laboratory  
Phone: 925.422.2300 • grayson2@llnl.gov

Please complete the following information:

**WAIVER:** In consideration of the acceptance of my entry, I, the undersigned, intending to be legally bound to myself, my executors, administrators, and assigns, do hereby waive and release the California Water Environment Association and all persons and agencies connected with the CWEA Sludge Trudge from all claims for damages arising from my participation in and travel to and from this event. I also certify that I am physically fit and adequately trained to participate in this event.

Signature: ___________________________________________ Date: _______________

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**Please enter me in the 31st Annual CWEA Sludge Trudge**

**Name:**  
**Email:**  
**Employer:**  
**Address:**  

**City:** __________________________  
**State:** __________  
**Zip:** __________

**Work Phone:**  
**Home/Cell Phone:**

**Age Group:** **Runners:**  
- Under 30  
- 30-39  
- 40-49  
- 50-59  
- 60 and over (check one)

**Age Group:** **Walkers:**  
- Under 30  
- 30-39  
- 40-49  
- 50-59  
- 60 and over (check one)

**Gender:**  
- M  
- F (check one)

**T-Shirt Size:**  
- S  
- M  
- L  
- XL  
- XXL (check one)

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**PLEASE INCLUDE THIS FORM WITH YOUR COMPLETED CONFERENCE REGISTRATION FORM**
Operations Challenge will once again pit teams against one another as they vie to represent California at 2014 WEFTEC Conference in New Orleans and for the coveted title of “Best in the West”. Teams compete in five events including Process Control, Laboratory Procedures, Collection System Repair, Safety, and Mechanical Pump Maintenance. Competition is fast and furious as each team races against the clock to finish penalty-free with the fastest time. Come cheer them on as they battle for bragging rights. The Process Control and Laboratory Events will take place on April 30th after the Team Meeting. The physical events of Operations Challenge will be held in the Exhibit Hall of the Convention Center on Thursday, May 1, from 12:00 noon to 5:00 PM.

Don’t miss this opportunity to showcase the expertise of your agency’s wastewater professionals! Entry Fee is $200.00 per team.

**Entry deadline is March 9, 2014.**

**WAIVER:** In consideration of the acceptance of my entry, I, the undersigned, intending to be legally bound to myself, my executors, administrators, and assignees, do hereby waive and release the California Water Environment Association and all persons and agencies connected with the CWEA Operations Challenge 2014 from all claims for damages arising from my participation in and travel to and from this event. I also certify that I am physically fit and adequately trained to participate in this event.

<table>
<thead>
<tr>
<th>Team Name:</th>
<th>Agency:</th>
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<tbody>
<tr>
<td>Contact Name:</td>
<td>Phone Number:</td>
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<tr>
<td>Team Members:</td>
<td>Signatures:</td>
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<td>1./Captain</td>
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<td>Alt.</td>
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<tr>
<td>Coach.</td>
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</tbody>
</table>

Submit with registration fee (payable to CWEA 2014 Annual Conference) to:

CWEA  
7677 Oakport Street, Suite 600  
Oakland, CA 94621

**Ops Challenge Chairs**

**Zoeanne Tafolla,** Vallejo Sanitation and Flood Control District  
Phone: 707.333.7359 • ztafolla@vsfcd.com

**Stephen Johnson, Jr.,** Sanitation Districts of Los Angeles County  
Phone: 310.830.2401 x5311 • sjohnson@lacsd.org
Everyone is welcome... members, students, and young professionals alike!

Students & Young Professionals (SYP) events:

1. **Sludgy Scavenger Hunt & Networking Opportunity**, Wednesday, April 30, 5:30 – 7:00 PM
   - Meet in the Santa Clara Convention Center’s Main Lobby at the entrance to the Exhibit Hall
   - [ ] Yes I will participate as an SYP
   - or -
   - [ ] Yes I will volunteer as a professional mentor

2. **Speed Mentoring at the Sweet Treats Social**, Friday, May 2, 3:40 – 4:00 PM
   - [ ] Yes I will participate as an SYP
   - or -
   - [ ] Yes I will volunteer as a professional mentor

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RSVPing will result in CWEA purchasing transportation and/or food for you. Please be sure to attend. If you need to cancel, please call the CWEA office at 510.382.7800 x107.

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Please enter me in the Students & Young Professionals activities checked above.

<table>
<thead>
<tr>
<th>Name:</th>
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<tbody>
<tr>
<td>Email:</td>
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<td>School/Employer:</td>
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<td>Address:</td>
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<td>City:</td>
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<tr>
<td>Work Phone:</td>
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</table>

PLEASE INCLUDE THIS FORM WITH YOUR COMPLETED CONFERENCE REGISTRATION FORM OR FAX TO CWEA AT 510.382.7810
“The key to success is to always strive for something better. This means reaching out to our colleagues, learning how they address challenges, and then applying this new knowledge to our own situations. Come to AC14 and return to your workplace with the tools for small successes and game-changing innovation.”

**Christoph Dobson**
CWEA President, Sacramento Area Sewer District and Sacramento Regional County Sanitation District

“Turbine at Sunset”
Steve Ray, AC13 Photo Contest 2nd Place Winner
About CWEA

The California Water Environment Association (CWEA) is a 9,200+ member educational and professional association that supports the environmental and water quality industries. Founded in 1928, CWEA provides training and certification in six technical areas of municipal and industrial water quality and pollution control:

- Collection Systems Maintenance Technology
- Laboratory Analysis
- Plant Maintenance Technology
- Environmental Compliance Inspection
- Industrial Waste Treatment Plant Operator
- Biosolids Land Application Management

CWEA members include engineers, biologists, chemists, governmental officials at all levels, municipal and industrial wastewater operations staff and managers, consultants, pollution control equipment manufacturers, academicians, and students interested in clean water vocations.

CWEA is the largest Member Association of the 37,000-member Water Environment Federation (WEF), and CWEA has seventeen active local sections throughout California. For more information about CWEA or its technical certification program, please contact CWEA at:

CWEA
7677 Oakport St., Suite 600
Oakland, CA 94621
510.382.7800
www.cwea.org

Disclaimer. CWEA and its Board, members and volunteers are not responsible for the actions of speakers or the contents of their papers, and no endorsement is implied or given of any persons or their philosophies, ideas, or statements; nor of any products or processes; nor of any organizations or companies who volunteer to serve as speakers at the conference or exhibitors who purchase display space in the exhibit hall.

Exhibitors

The exhibits and equipment displays (exhibition) will have over 200 exhibitors. Below is a partial list of exhibitors (as registered at time of brochure preparation). For an up-to-date listing, see www.cwea.org/conferences and follow links to the Exhibitors/Virtual Trade Show page. The company listed may represent several other companies, not listed, that will exhibit at the show.)

Aquadyne Associates
California Laboratory Services
Control Systems West Inc.
Coombs-Hopkins Company
Duke’s Root Control, Inc.
Emerson Process Management
Environmental Operating Solutions
Gierlich-Mitchell, Inc.
Goble Sampson Associates Inc.
H & R Plumbing and Drain Cleaning, Inc.
Haaker Equipment Company/Owen Equipment
Hobas Pipe USA
Hopkins Technical Products, Inc.
Insituform Technologies, LLC
JBI Water & Wastewater Equipment
Kemira

Koffler Electrical Mechanical
Mazzei Injector Company, LLC
MISCOwater
Netzsch Pumps North America, LLC
Nor-Cal Pipeline Services
Pasteurization Technology Group (PTG)
PipeLogix, Inc.
Raven Lining Systems
Rockwell Engineering and Equipment Company
Sage Designs
See Water, Inc.
ShinMaywa (America), Ltd.
Skalar, Inc.
Smart Cover By Hadronex
US Peroxide
<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>29 Thu</td>
<td>8:00 AM – 1:00 PM</td>
<td>CWEA Board Meeting</td>
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<tr>
<td></td>
<td>8:30 AM – 4:30 PM</td>
<td>Pre-Conference Workshops</td>
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<td></td>
<td>11:30 AM – 6:00 PM</td>
<td>Golf Tournament &amp; Dinner</td>
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<td>6:00 – 8:00 PM</td>
<td>Ice Breaker Reception and SS Installation</td>
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<tr>
<td>30 Wed</td>
<td>8:00 AM – Noon</td>
<td>Tour T1: City of Santa Cruz – Wastewater Treatment Facility</td>
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<td></td>
<td>9:00 AM – 12:00 PM</td>
<td>Opening General Session – The Innovator’s DNA</td>
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<tr>
<td></td>
<td>1:00 – 5:00 PM</td>
<td>Tour T2: Santa Clara Valley Water District and City of San Jose – Silicon Valley Advanced Water Purification Center</td>
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<td></td>
<td>1:00 – 5:00 PM</td>
<td>Ops Challenge Team Meeting, Process &amp; Lab</td>
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<td></td>
<td>1:40 – 4:50 PM</td>
<td>Technical Sessions</td>
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<tr>
<td></td>
<td>2:00 – 6:30 PM</td>
<td>Exhibits Open</td>
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<td></td>
<td>4:30 – 6:30 PM</td>
<td>Free Exhibitors’ Reception</td>
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<tr>
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<td>5:30 – 7:00 PM</td>
<td>SYP Slurry Scavenger Hunt</td>
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<tr>
<td>1 Thu</td>
<td>8:00 – Noon</td>
<td>Tour T3: Gordon Biersch Brewery – Wastewater Pre-Treatment System</td>
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<td>7:30 AM – 4:50 PM</td>
<td>Technical Sessions</td>
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<td></td>
<td>11:00 AM – 5:00 PM</td>
<td>Exhibits Open and Free Lunch in Exhibit Hall</td>
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<td>Noon – 6:00 PM</td>
<td>Tour T4: Union Sanitary District – Collection System Operations and Maintenance</td>
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<td>1:00 – 5:00 PM</td>
<td>Sludge Trudge 5K Fun Run/Walk</td>
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<td>4:00 PM</td>
<td>Free Exhibitors’ Reception</td>
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<tr>
<td>2 Fri</td>
<td>8:00 AM – Noon</td>
<td>Tour T5: San Jose/Santa Clara Regional Wastewater Facility</td>
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<td>7:30 AM – 3:40 PM</td>
<td>Technical Sessions</td>
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<td></td>
<td>Noon – 1:30 PM</td>
<td>Awards Luncheon &amp; Business Meeting</td>
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<td>3:40 – 4:00 PM</td>
<td>Sweet Treats Social &amp; SYP Speed Mentoring</td>
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<td>6:00 – 11:00 PM</td>
<td>AC14 Banquet and Volunteer Recognition Reception</td>
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</tbody>
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- Recycled Water
- Water
- Integrated Planning
- Environmental

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