

BIOSOLIDS & RENEWABLE ENERGY INNOVATION TECHNOLOGY SEMINAR



The biosolids and renewable energy worlds are continually evolving along with regulations governing them. At this seminar, we'll learn about new technology—both bench scale and full scale from developers and public agencies. We'll talk about regulations being developed and what is being done to inform them.

You will hear from academic and technology researchers about the resource recovery technologies and alternatives of the future. During this fast-paced workshop, hosted by CASA's Greg Kester, you can learn, share and network with experts in biosolids and renewable energy as well as your fellow attendees. New, larger venues mean we can welcome over 100 wastewater professionals.

This workshop does sell out, so please register soon.

Who should attend:

- Project managers
- Engineers
- Energy leaders
- Operations staff
- O&M leaders
- Technology providers
- Academics
- Regulators

Earn up to 6.5 CWEA Contact Hours in Environmental Compliance Inspector (ECI); Laboratory Analyst (LAB); Industrial Waste Treatment Plant Operator (OP); Biosolids Land Application Management. Wastewater Operator certificate holders can earn 1 State Water Board CEU.

Tuesday, November 14th
HS Lordships

199 Seawall Drive
Berkeley, CA 94710

Wednesday, November 15th
UC Irvine Student Center

A311 W. Peltason Drive
Irvine, CA 92697



Workshops are jointly hosted by CASA and CWEA

EARLY BIRD RATE DEADLINE FRIDAY, OCTOBER 27, 2017

Sponsored by:



BIOSOLIDS & RENEWABLE ENERGY INNOVATION TECHNOLOGY SEMINAR

November 14 Workshop Program – HS Lordships – Berkeley

8:30 a.m.	Registration/Greetings, Coffee and Pastries
9:00 - 9:05 a.m.	Welcome/Introduction Greg Kester, CASA
9:05 - 9:30 a.m.	Issue Overview – Challenges and Opportunities as the Wastewater Sector Helps California Meet its Legislative and Regulatory Objectives Greg Kester, CASA
9:30 - 9:55 a.m.	Tri-Generation of Hydrogen, Heat, and Power from Digester Gas Dr. Robert Flores, Associate Development Engineer, Advanced Power and Energy Program, University of California, Irvine
9:55 - 10:20 a.m.	Closed-Loop Coasts: Biosolids as Marsh Creation Amendment Madeline Foster-Martinez, UC Berkeley
10:20 - 10:35 a.m.	Break
10:35 - 11:00 a.m.	Deploying Artificial Intelligence at Water Treatment Plants Prateek Joshi, Pluto AI
11:00 - 11:25 a.m.	Building Healthy Soils with Organic Residuals Layne Baroldi, Synagro
11:25 - 11:50 a.m.	US Forest Service Innovation Wood Grant – Overview and High Temperature Steam Activation of Local Biochar Gerardo Diaz, UC Merced
11:50 a.m. - 12:15 p.m.	Conserving Carbon through WW Treatment for Optimizing Energy Recovery Hari Santha, NEFCO
12:15 - 1:00 p.m.	Lunch - Provided
1:00 - 1:25 p.m.	Co-digestion with Organics from MSW and Sustainable Biosolids Processing with Renewable Energy Recovery at Rialto Peter Kistenmacher, Anaergia
1:25 - 1:50 p.m.	Trust, but Verify - Odor Control with Guaranteed Performance Anders Wistrom, Centriair
1:50 - 2:15 p.m.	Beneficial Use of Digester Gas Kenneth Frisbie, BioFuels Energy
2:15 - 2:40 p.m.	Energy Positive Anaerobic Secondary Treatment for California - Lessons Learned and Perspectives for the Future Sebastien Tilmans, Codiga Resource Recovery Center, Stanford University
2:40 - 3:00 p.m.	Break
3:00 - 3:25 p.m.	HYPOWERS Hydrothermal Processing Project at Central San Jim Oyler, Genifuel Corporation & Dan Frost, Central San
3:25 - 3:50 p.m.	Evaluating Nereda Aerobic Granular Sludge as a Cost-Effective Nutrient Removal Upgrade Greg Baatrup, Fairfield-Suisun SD & Ralph Eschborn, AECOM

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.

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.

BIOSOLIDS & RENEWABLE ENERGY INNOVATION TECHNOLOGY SEMINAR

November 15 Workshop Program – UC Irvine Student Center

8:30 a.m.	Registration/Greetings, Coffee and Pastries
9:00 - 9:05 a.m.	Welcome/Introduction Greg Kester, CASA
9:05 - 9:30 a.m.	Issue Overview – Challenges and Opportunities as the Wastewater Sector Helps California Meet its Legislative and Regulatory Objectives Greg Kester, CASA
9:30 - 9:55 a.m.	Trust, but Verify - Odor Control with Guaranteed Performance Anders Wistrom, Centriair
9:55 - 10:20 a.m.	Tri-Generation of Hydrogen, Heat, and Power from Digester Gas Professor Jack Brouwer, Associate Director, Advanced Power and Energy Program, University of California, Irvine
10:20 - 10:35 a.m.	Break
10:35 - 11:00 a.m.	Beneficial Use of Digester Gas Kenneth Frisbie, BioFuels Energy
11:00 - 11:25 a.m.	Building Healthy Soils with Organic Residuals Layne Baroldi, Synagro
11:25 - 11:50 a.m.	US Forest Service Innovation Wood Grant – Overview and High Temperature Steam Activation of Local Biochar Andres Munoz-Hernandez, UC Merced
11:50 a.m. - 12:15 p.m.	Conserving Carbon through WW Treatment for Optimizing Energy Recovery Hari Santha, NEFCO
12:15 - 1:00 p.m.	Lunch - Provided
1:00 - 1:25 p.m.	Co-digestion with Organics from MSW and Sustainable Biosolids Processing with Renewable Energy Recovery at Rialto Yaniv Scherson, Anaergia
1:25 - 1:50 p.m.	Closed-Loop Coasts: Biosolids as Marsh Creation Amendment Madeline Foster-Martinez, UC Berkeley
1:50 - 2:15 p.m.	HYPOWERS Hydrothermal Processing Project at Central San Jim Oyler, Genifuel Corporation & Dan Frost, Central San
2:15 - 2:40 p.m.	LIFT Resources for Identification and Implementation of Innovative Biosolids and Renewable Energy Technologies Jeff Moeller, Director of Water Technologies, Water Research & Reuse Foundation (WE&RF)
2:40 - 3:00 p.m.	Break
3:00 - 3:25 p.m.	New Gas & Power Technologies for Landfills and POTW Biogas Use Subra Iyer, NrgTEK
3:25 - 3:50 p.m.	Evaluating Nereda Aerobic Granular Sludge as a Cost-effective Nutrient Removal Upgrade Greg Baatrup, Fairfield-Suisun SD & Ralph Eschborn, AECOM

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Registration Form

Since workshops sell out, please register early. Registration includes lunch.

Early Bird (due 10/27/17)

\$195

Regular (after 10/28/17)

\$215

Speaker

\$117

Select Location

Berkeley 11/14/2017

Irvine 11/15/2017

Full-Time Student - No Cost (Provide proof of college attendance w/minimum of 9 units.)

Name of School: _____

PLEASE PRINT OR TYPE INFORMATION (attach form with additional attendees)

NAME FOR BADGE: _____

FIRST NAME: _____ LAST NAME: _____

TITLE: _____

AGENCY/COMPANY: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ E-MAIL: _____

EMERGENCY CONTACT: _____ EMERGENCY PHONE: _____

CWEA MEMBER WEF MEMBER CA-NV AWWA MEMBER CASA MEMBER



Special Services: Please check here if you require special accommodations to fully participate. Attach a written description of your needs and return it to CWEA 30 days before the conference.

Dietary restrictions: Please check here to indicate dietary restrictions _____

Please indicate payment method: CHECK PURCHASE ORDER (attached)

VISA MASTERCARD DISCOVER AMEX

Name of Account holder: _____

Account number: _____

Expiration date: _____ Billing zip code: _____

SIGNATURE: _____

Registration Options:

1. Register online at mycwea.org
2. Send registration form and payments to:

CWEA Workshops

7677 Oakport Street, Suite 600, Oakland, CA 94621-1935

Fax (510) 382-7810

Please make checks payable to: CWEA 2017 BIOSOLIDS

REGISTRATION QUESTIONS?

Contact MEMBER SERVICES: 510.382.7800 x160

Full payment or purchase order is required to process registrations. If you have to cancel, written cancellation notice is required and must be received at least 15 days prior to the workshop date. A 25% service fee shall be retained on all cancellations. No refunds shall be given for cancellations made less than 15 days prior to the event. A written special service request is required 30 days in advance.

Need help?
We're here for you!
Contact:
Member Services
510.382.7800 x160
memberservices@cwea.org

Questions about content?
Contact: Greg Kester
Dir. of Renewable Resources
916-844-5262
gkester@casaweb.org

Sponsorship questions?
Contact: Alec Mackie
Dir. of Communications
510-382-7800 x114
amackie@cwea.org



Workshops are jointly hosted by CASA and CWEA

REGISTER ONLINE AT MYCWEA.ORG

Sponsored by:



BIOSOLIDS WORKSHOPS

Two CASA-CWEA Workshops in Berkeley (Nov 14th) and Irvine (Nov 15th)

Sponsorship Form

Order soon,
spots will sell out.

1) Gold sponsor
4 passes & meals included
Exclusive, 1 per site

\$1,500

2) Silver Sponsors
2 passes & meals included
Per location, 2 per site

\$750

Sponsorship Location

Berkeley
Nov 14

Irvine
Nov 15

Share passes w/customers and please turn in attendee list by 10/1.
Includes: logo on the flyer, on-site posters and on website; free passes and lunches. Sorry venues do not have space for displays.
Gold Sponsors receive a FREE 30 minute CWEA hosted webinar.

PLEASE PRINT OR TYPE YOUR INFORMATION (attach form w/addtl attendees)

NAME: _____

TITLE: _____

COMPANY: _____

ADDRESS: _____

CITY: _____

STATE: _____ ZIP: _____

PHONE NUMBER: _____ FAX: _____

E-MAIL: _____

Please indicate payment method: PLEASE SEND US AN INVOICE

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Account number: _____

Expiration date: _____ Billing zip code: _____

SIGNATURE: _____

Please make checks payable to: CWEA Sponsorship 2017 Biosolids

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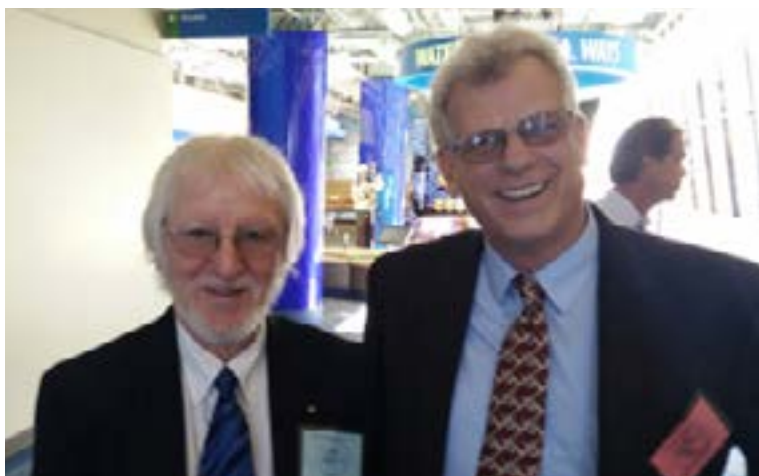
amackie@cwea.org or fax to (510) 382-7810

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Sponsorship questions, please contact:

Alec Mackie, CWEA Director of Communication
510-382-7800 x114 or amackie@cwea.org



HELP SUPPORT CALIFORNIA'S BIOSOLIDS COMMUNITY



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