CENTER FOR A COMPETITIVE WORKFORCE

WATER & WASTEWATER TREATMENT & DISTRIBUTION

REGIONAL PROGRAM ADVISORY MEETING

Powered by LAEDC

Los Angeles Community College Program Look Book

POWERED BY California Community Colleges

Energy Construction & Utilities
California Community Colleges
Workforce & Economic Development
Engage. Enroll. Employ.

LAEDC LOS ANGELES COUNTY ECONOMIC DEVELOPMENT CORPORATION
Collectively Advancing Opportunity and Prosperity for All

In partnership with the Center for a Competitive Workforce, the Regional Directors of Employer Engagement, and the Los Angeles County Economic Development Corporation

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MEETING AGENDA

Date and Time	May 28, 2020 from 10-11:30am
Occupation	Water and Wastewater Treatment and Distribution
Opening Remarks	Welcome and Introductions | Isabel Duran, LAEDC Center for a Competitive Workforce Overview | Richard Verches, CCW Sector Overview | Bruce Noble, Regional Director of Employer Engagement
Discussion Moderated by Jessica Ku Kim	Topics: - Industry workforce trends - Technology, automation and equipment - Opportunities to bridge knowledge, talent and certification gaps - Industry trends used to access entry-level talent
Curriculum Review	Colleges represented include: - Citrus College - Glendale Community College - Los Angeles Trade Technical College - Mt. San Antonio College - Rio Hondo College
Closing Remarks	Next Steps and Adjournment | Claire Anderson, LAEDC

CENTER FOR A COMPETITIVE WORKFORCE

Mission

Center for a Competitive Workforce (CCW) was established in 2017 as a Strong Workforce Program regional project of the 19 community colleges in the Los Angeles region in collaboration with the LA/OC Center of Excellence for Labor Market Research (COE) hosted at Mt. San Antonio College and the Los Angeles County Economic Development Corporation (LAEDC).

In partnership with the COE and LAEDC Institute for Applied Economics, CCW has published multiple labor market reports that analyze labor supply and demand data for middle-skill occupations in high-growth industries to inform and influence the development of new or modified career education and workforce development programs and curricula. CCW supports quarterly convenings with education, workforce, nonprofit, government and industry leaders in three of the LA region's most highly concentrated and fastest growing industry sectors of advanced transportation, bioscience and digital media/entertainment, with the co-equal goals to strengthen industry engagement with community college faculty and to connect more community college students to meaningful work-based learning opportunities, as one of the best ways to constructively prepare them for the 21st century jobs and careers in the fast-emerging and rapidly-changing knowledge-intensive industries that will drive our regional economy today and tomorrow.

CCW, in partnership with the regional directors for employer engagement, is piloting seven regional advisory committees to further strengthen regional alignment of and ongoing connections between faculty and industry. CCW has developed two online platforms: a biosciences industry portal and a regional Workforce and Education Partner Portal that employs technology to increase the speed and richness of industry-college connections, to seamlessly access and deploy the economic intelligence gleaned through industry engagement, and to rapidly expand and scale the number of work-based learning and employment opportunities for career education students and graduates with certificates and degrees.

Learn more at www.CompetitiveWorkforce.LA.

California Community Colleges

LAEDC LOS ANGELES COUNTY ECONOMIC DEVELOPMENT CORPORATION

Funded by the California Community Colleges Chancellor's Office under the Strong Workforce Program (SWP) as a Los Angeles Regional Project.

The Los Angeles County Economic Development Corporation (LAEDC) was founded in 1981 as a nonprofit, public-benefit organization to harness the power of private sector in collaboration with L.A. County, to guide economic development and create more widely shared prosperity. LAEDC collaborates with all stakeholders in the region including education, business, and government. Learn more at www.LAEDC.org.

Contact Information

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Claire Anderson, Workforce Development Program Manager, LAEDC
Claire.Anderson@LAEDC.org

Isabel Duran, Administrative Manager, LAEDC
Isabel.Duran@LAEDC.org

REGIONAL DIRECTORS OF EMPLOYER ENGAGEMENT

Regional Directors play a key role in implementing activities and achieving outcomes for their designated sector by working with community colleges in the designated region to strengthen connections between career education and business and industry.

The Regional Directors develop partnerships with business and industry, working closely with key talent including Regional Chairs, Centers of Excellence, Technical Assistance Providers, Pathway Coordinators, Statewide Directors, and other Regional Directors of Employer Engagement.

For more information regarding Regional Directors and their industry sectors, use the following link:

www.laocrc.org/member-resources/rdee

Los Angeles County Regional Directors

Bruce Noble, Energy, Construction and Utilities
Bruce.noble@riohondo.edu

Charlotte Augenstein, Information and Communication Technology (ICT) and Digital Media
Caugenstein@hotmail.com

Judy Fox, Business and Entrepreneurship
Jfox@cerritos.edu

Katie Mishler, Advanced Transportation and Logistics
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Ozzie Lopez, Health
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Ruth Amanuel, Global Trade
Ramanuel@lbcc.edu

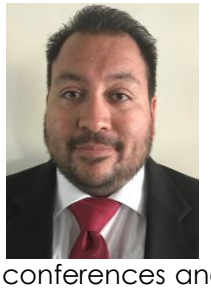
Shari Herzfeld, Health
Sherzfeld@riohondo.edu

INDUSTRY REPRESENTATION

Adrian Hightower, Education Unit Manager at the Metropolitan Water District of Southern California

Adrian is an experienced manager, educator and consultant with expertise in renewable energy and water treatment technologies that address the Water-Energy Nexus. He is the Education Manager for the Metropolitan Water District of Southern California and leads a unit dedicated to promoting water education for 19 million people in Metropolitan's service area. Adrian and his unit work closely with students and educators from Pre-K to college as well as utilities, state and county Offices of Education, school districts, informal educators and guardians to conduct water related education programming throughout the counties of Los Angeles, Orange, Riverside, San Bernardino, San Diego and Ventura. Most recently Adrian has worked to promote a Southern California Water Energy Education Alliance with the goal of strengthening Career Technical Education pathways to jobs in the water industry. He has also held roles such as: Energy Storage Consultant at Chemvoltaics, Boardmember for Aid Africa and Ten Strands, Assistant Professor of Engineering at Harvey Mudd College, Assistant Professor of Physics with Occidental College,and Senior Consultant at Contour Energy Systems, Inc., among others. He received his B.S., M.S. and Ph.D. from the California Institute of Technology.

Eric Gonzales, Project Manager at Perc Water Corporation



Eric is a dedicated operations supervisor and brings experience in operating, supervising, and managing treatment systems. As Project Manager at Perc Water, he oversees the operations and maintenance of the Water Replenishment District's Albert Robles Center and Leo J Vander Lans advanced water treatment facilities. His expertise is in diagnosing equipment problems, troubleshooting basic equipment, and taking corrective action within policy and procedures. As a disciplined professional with top priorities in safety and plant performance, Eric is a licensed Grade V Wastewater Treatment Plant Operator. He has spoken at conferences and been featured in the Treatment Plant Operator Magazine. Eric's diligent work has been recognized by many in the industry, including the Southwest Membrane Operator Association who awarded him their 2016 Operator of the Year Award.

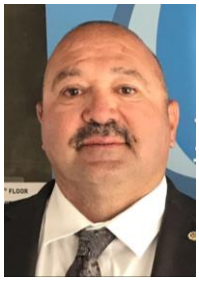
Heidi HK Hiraoka, Chief of Staff of the Water System at the Los Angeles Department of Water and Power

Ms. Hiraoka was named Chief of Staff of the Water System in November 2019 and is responsible for overseeing financial matters, technology and innovation for the Water System. She has over 27 years of experience in water utility planning, project and program management, legislative affairs, distribution engineering and operations. Prior to her current appointment, Ms. Hiraoka served as a Manager in the Customer Services Division, where she was responsible for looking at customer insights and segmentation. Prior to this appointment, as the Property Manager of Water Operations, she was responsible for ensuring the security and maintenance of water facilities in the Los Angeles Basin "Metro" area, which includes the pumping and treatment plants, tanks and reservoirs, aqueduct facilities, and control systems. She has also held positions in the Project Management Section, Legislative and Grants Group, and Distribution Engineering.

Rob Beste, Assistant General Manager and Chief Operating Officer at the Water Replenishment District

Rob has worked in the field of water resources engineering, water operations, and planning for nearly 25 years. He has wide ranging experience with water supply and distribution infrastructure. Rob is the Assistant General Manager of the Water Replenishment District of Southern California (WRD). WRD is a regional groundwater agency that manages and provides half of the total demand for water to nearly four million residents in 43 cities within southern Los Angeles County. Prior to his time at WRD, Rob was the Public Works Director for the City of Torrance and the City of Beverly Hills and was in charge of the municipal water systems for each city. Rob received a B.S. in Civil Engineering from the University of California at Davis. He is also a registered Professional Engineer in the state of California.

Steve Torres, Water Utility Superintendent with the Los Angeles Department of Water and Power at the Los Angeles Aqueduct Filtration Plant



Steve began his water treatment career in the City of Santa Barbara CA, Cater Water Treatment Plant as a water treatment operator trainee in 1982. He worked his way up the ladder to the role of water treatment operator then to lead water treatment operator. His passion for water treatment operations is to ensure the general public receives clean and safe drinking water. In 1987, he began his career with the Los Angeles Department of Water and Power as a water treatment trainee and after 6 months was promoted to journey level water treatment operator. After several years he was promoted to Lead Water Treatment Operator, Water Treatment Supervisor, Assistant Superintendent and then into Water Utility Superintendent. In 2014, he accepted a position as Water System Safety Manager for 5 years where he learned all aspects of safety. His passion continued for water treatment as he returned to the Los Angeles Aqueduct Filtration Plant to manage the Water Treatment Operations Group which consists of 65 employees. Steve has learned, exchanged and shared with many in his various positions, giving him the necessary experience to excel in his career. As a Los Angeles native, he really enjoys his job; it fulfills his passion to provide high quality water to his community.

Thomas Wong, Board President of the San Gabriel Valley Municipal Water District

Thomas is Board President of the San Gabriel Valley Municipal Water District, a wholesale water agency that imports water into the region. He was first elected to the water board in November 2012, where he is leading efforts to ensure a clean, sustainable and affordable water supply for current and future generations, and has championed efforts to better engage the community on water issues. Thomas also serves on the boards of Climate Resolve, the San Gabriel Valley Economic Partnership, and Nature for All. He is also a co-chair of the LA Area Chamber's Energy, Water and Environmental Sustainability Council. He received his Bachelor's degree in Economics with a minor in Geography/Environmental Studies from UCLA and his Master of Public Administration degree from USC's Price School of Public Policy.

COMMUNITY COLLEGE REPRESENTATION

- Citrus College
- Glendale Community College
- Los Angeles Trade Technical College
- Mt. San Antonio College
- Rio Hondo College

Citrus College

Program Name(s)	Water Technology Program
Website	www.citruscollege.edu/academics/programs/watertech
Competencies Focus	The Water Technology Program is designed to prepare students who seek employment in the public drinking water industry or to qualify for advancement within the industry. The program's courses prepare students to take all levels of the water distribution operator examination (D1-D5) and all levels of the water treatment operator examination (T1-T5) which are required and administered by the California State Water Resources Control Board for employment in the potable water industry. Coursework also provides contact hours for the operator certification renewal that is required every three years. Additionally, students may complete an associate degree or certificate within one year and receive field experience credits from the State. Citrus College has strong name recognition in the local industry and a robust advisory committee.
Cohort Size	20+ students

For more information, contact Gary Gramling, Lead Instructor at (626) 857-4005 or ggramling@citruscollege.edu.

Glendale Community College

At this time, Glendale Community College does not offer a Water Program.

To review Glendale Community College's course catalog, click here: https://www.glendale.edu/academics/degree-certificate-programs.

For more information, contact Christopher Herwerth, Associate Professor of Engineering at cherwerth@glendale.edu.

Los Angeles Trade Technical College

Program Name(s)	Water Supply Technology, Wastewater Technology and Solid Waste Management Technology
Website	Water Supply Technology and Wastewater Technology - http://www.lattc.edu/academics/pathways/cmu/certificates-degrees/supply-water-systems-technology Solid Waste Management Technology - http://www.lattc.edu/academics/pathways/cmu/certificates-degrees/solid-waste-management-technology
Competencies Focus	Water Supply Technology - Offers courses focused on the operation and design of water systems, wells, pumps and meters; water treatment for potable water; and technical phases of automatic controls, including power and code considerations Wastewater Technology - Offers courses focusing on preliminary, primary, secondary, and tertiary treatment systems as well as disinfection methods, solids treatment, and solids and effluent disposal practices. Solid Waste Management Technology - Offers courses for any interested learning the most updated information in recycling and solid waste management. The program addresses environmental, technological, political, legal, planning and economic aspects of recycling and solid waste management policies. By fulfilling the program requirements, students are prepared and advance in the Solid Waste Management industry to work as a Solid Waste Operator, Solid Waste Technician, Solid Waste Supervisor, Hazardous Waste Operator, or Environmental Specialist.
Cohort Size	30 students
Hiring Timeframe	1-12 months

For more information, contact William Elarton-Selig, Department Chair at (213) 763-3700 or elartowd@lattc.edu, or John Kallo, Water Supply Technology Instructor at (818) 469-8854 or kallojs@lattc.edu.

Mt. San Antonio College

Program Name(s)	Water Technology Program
Website	https://www.mtsac.edu/feeclasses/water-technology.html
Competencies Focus	The Water Technology Program is an accredited and comprehensive water education program offering courses in water treatment, water distribution and cross-connection control. The program is fully recognized by the State Water Resources Control Board (SWRCB). Program courses provide the training required for employment at a municipal water district, private water utility or city water department. Upon completion of the program, students will have gained the knowledge necessary to successfully pass the CDHP Water Treatment Operator Certification exams (T1-T3), Water Distribution Operator Certification exams (D1-D3), and Cross-Connection Control Certified Specialist and Tester exams offered by the American Water Works Association (AWWA) and various County Health Departments. The 40-hour courses satisfy the educational requirements of the CDHP for both specialized training and continuing education training. Additionally, 8-hour exam review courses are offered several weeks prior to the CDHP and AWWA certification exams. Program courses include: - Introduction to Water Systems - Water Treatment - Water Distribution I - Water Distribution II (Hydraulics and Instrumentation) - Backflow Prevention Assembly Tester - Cross Connection Control Program Specialist

For more information, contact Mt. San Antonio College Continuing Education Division at (909) 274-4220.

Rio Hondo College

Program Name(s)	Environmental Technology and Water Management
Website	https://www.riohondo.edu/mathematics-and-sciences/mathematics-and-sciences-homepage/environmental-technology/water-resources/
Competencies Focus	The Environmental Technology Water Management Certificate is designed to prepare students to enter the environmental health and safety field or to upgrade working individuals with environmental health and safety technician skills. Students will gain the skills and knowledge that allow a person to work in the environmental field in compliance with governmental regulations and at the same time protect human health and the environment. Students will apply environmental science concepts and analytical procedures in various fields. Students will have the ability to apply economic principles to analyze environmental problems. Students will have the ability to work as a member of an interdisciplinary team to solve environmental problems. Courses include: Safety and Emergency Response, Environmental Sampling and Analysis, Wastewater Treatment Plant Operations, Advanced Wastewater Treatment, Stormwater Management, Treatment and Controls, Industrial Wastewater Treatment Advisory, Water Treatment, Water Distribution
Cohort Size	12 students
Hiring Timeframe	Immediate

For more information, contact Vann Priest, Dean of Mathematics, Sciences, and Engineering at (562) 463-7500 or vpriest@riohondo.edu.