

April 8 to 10, 2027 | Las Vegas, Nevada

INTERNATIONAL RESOURCE RECOVERY CONFERENCE & EXPO

on
**WATER, WASTE MANAGEMENT,
WATER MANAGEMENT IN AGRICULTURE and ENERGY**



**WATER AND
WASTEWATER**

**SOLID WASTE
MANAGEMENT**

**WATER AND ENERGY
MANAGEMENT IN AGRICULTURE**

ENERGY

ABOUT THE Conference

Utility leaders, engineers, researchers, technology providers, policymakers and students come together to exchange practical solutions for turning water, waste and energy challenges into recoverable resources. The program features keynote addresses, sponsor presentations, four technical tracks, an expo, a technical site visit and a welcome dinner.

Organized by WWM International

with the University of Nevada, Las Vegas, the UF Institute of Food and Agriculture Sciences and the UIC Energy Resources Center.

WWM International invites you to participate in the "International Resource Recovery Conference & Expo" to be held April 8–10, 2027, in Las Vegas, Nevada, in collaboration with the Howard R. Hughes College of Engineering at the University of Nevada, Las Vegas (UNLV), the UF Institute of Food and Agricultural Sciences, and the Energy Resources Center of the University of Illinois Chicago (UIC). This international conference is a unique event focused on the challenges and opportunities in water, waste management, water and energy management in agriculture, and energy.



Water and Waste Management International (WWM-I)

WWM-I is a diverse, not-for-profit organization consisting of academia, scientists, experts, consultants, engineers, and other professionals focused on water, energy, and waste management for resource recovery. With an average of over 20 years of experience, the group offers a global platform for governments, industry, and the public to share knowledge and expertise for sustainable living and environmental development. Registered in Illinois, USA, with IRS-recognized 501(c)(3) status, WWM-I currently has over 500 members from the USA, Australia, Canada, Europe, Singapore, Thailand, and India supporting its mission.

www.wwminternational.org



Howard R. Hughes College of Engineering, University of Nevada, Las Vegas

Engineering instruction at UNLV dates to 1957, and the Howard R. Hughes College of Engineering became a stand-alone college in 1988. Today it enrolls nearly 4,000 undergraduate and more than 500 graduate students in Civil and Environmental Engineering and Construction, Computer Science, Electrical and Computer Engineering, Mechanical Engineering, and Applied and Interdisciplinary Engineering. Its research spans energy and water resources, environmental engineering, artificial intelligence, and transportation, supported by the Center for Energy Research and an interdisciplinary Ph.D. in water resources – work shaped by its setting in the arid Southwest.

www.unlv.edu/engineering



Institute of Food and Agricultural Sciences (IFAS), University of Florida

The University of Florida's Institute of Food and Agricultural Sciences (UF/IFAS) is a federal-state-county partnership dedicated to developing knowledge in agriculture, human and natural resources, and life sciences. UF/IFAS fulfills the university's land grant mission through its research facilities, Extension services offered in every Florida county, and top-ranked education at the UF College of Agricultural and Life Sciences. UF/IFAS employs more than 2,000 faculty and staff statewide, including 375 Extension agents, working from offices in each of Florida's 67 counties and the main campus in Gainesville.

<https://ifas.ufl.edu/>



Energy Resources Center, University of Illinois Chicago (UIC)

The Energy Resources Center (ERC), based in the UIC College of Engineering, is an interdisciplinary public service, applied research, and special projects organization providing solutions to today's energy and environmental challenges. The ERC provides expertise in bioenergy, energy efficiency, distributed generation and renewables, utility data analytics, sustainable landscapes, clean transportation, and workforce development. Since 1973, it has been staffed by a diverse, highly experienced group of engineers, economists, architects, computer scientists, educators, and public policy analysts.

<https://erc.uic.edu/>

01 TRACK 1
Water and Wastewater

- ◆ **Water Resource Management** for Conservation, Distribution, and Access
- ◆ **Discharge Compliance:** Aligning Industrial and Municipal Effluents with Regional Standards
- ◆ **Rainwater Harvesting and Urban Recharge:** Combating Flooding and Water Scarcity
- ◆ **Advancing Wastewater Systems:** AI and other Emerging Technologies for Centralized and Decentralized Management
- ◆ **Digital Transformation in the Water Sector:** Enhancing Efficiency and Decision-Making
- ◆ **Navigating Contaminants:** Managing PFAS and Microplastics – Biological and Thermal Treatment Frontiers
- ◆ **Water Reuse and Reclamation:** Advanced Treatment for Potable and Non-Potable Reuse
- ◆ **Bridging the Gap:** Tailored Wastewater Solutions for Small and Mid-Size Communities
- ◆ **Integrated Water Management Under Climate Change:** Mitigating Impacts and Building Resilience

02 TRACK 2
Solid Waste Management

- ◆ Zero Waste Management
- ◆ 4R Principles: Reduce, Reuse, Recycle, Recover
- ◆ Waste Regulations and Policies
- ◆ Advanced Waste Characterization
- ◆ C&D Waste Recycling and Reuse
- ◆ Natural Disaster Debris Strategies
- ◆ Landfill Design and Monitoring
- ◆ Leachate Recirculation and Bioreactors
- ◆ Landfill Gas Management and Use
- ◆ Landfill Mining and Reclamation
- ◆ Energy Recovery and Waste-to-Energy
- ◆ Data-Driven Waste Optimization

03 TRACK 3
Water and Energy Management in Agriculture

- ◆ **Agricultural Water Use:** Sustainable Practices for a Water-Secure Future
- ◆ **Efficient Irrigation:** Drip, Precision, and Smart Irrigation Systems
- ◆ **Reclaimed Water for Agriculture:** Safe Reuse of Treated Wastewater for Irrigation
- ◆ **Biosolids and Nutrient Recovery** for Soil Health and Fertilizer Replacement
- ◆ **Agricultural Runoff:** Managing Nutrients, Salinity, and Water Quality
- ◆ **Groundwater Management** and Aquifer Recharge in Arid Regions
- ◆ **Solar-Powered Pumping** and Energy-Efficient Irrigation
- ◆ **Agrivoltaics** and On-Farm Renewable Energy
- ◆ **Anaerobic Digestion** of Manure and Crop Residues: Biogas and RNG
- ◆ **The Water-Energy-Food Nexus:** Planning for Drought and Climate Resilience
- ◆ **Rural Water Access** and Livelihoods in Farming Communities

04 TRACK 4
Energy

- ◆ Developing Decarbonization and Sustainable Energy
- ◆ Pathways for Setting and Achieving Net-Zero Goals
- ◆ Lowering Energy Costs Through Strategic Energy Management
- ◆ Energy Efficiency Success Stories
- ◆ Enhancing Energy Resiliency
- ◆ Advancing Innovative Energy Technology Solutions
- ◆ Integrating Onsite Energy, Renewables, and Combined Heat and Power
- ◆ Analyzing Pollution Prevention Strategies
- ◆ Data Center Boom and Effect on Global Energy Demand
- ◆ Case Studies

Call for presentations: share your work in a technical track.

wwminternational.org | info@wwminternational.org

Conference Program

April 8–10, 2027
Las Vegas, Nevada

THURSDAY

April 8

Site Visit & Welcome
Dinner

1:00 – 4:00 PM

Visit to Water Reclamation Facility

6:00 PM – 9:00 PM

Networking & Welcome Dinner of the conference, Las Vegas

FRIDAY

April 9

Keynotes, Sponsors &
Breakout Sessions

8:00 – 9:00 AM

Breakfast & networking

9:00 – 9:30 AM

Inaugural Session

9:30 – 11:00 AM

Keynote speakers

11:00 AM – 12:00 PM

Presentations by Platinum and Gold sponsors

12:00 – 1:00 PM

Lunch

1:00 – 5:00 PM

Breakout sessions (Tracks 1–4)

SATURDAY

April 10

Breakout Sessions &
Closing

8:00 – 9:00 AM

Breakfast & networking

9:00 AM – 12:30 PM

Breakout sessions (Tracks 1–4)

12:30 – 1:00 PM

Concluding Session

1:00 – 2:00 PM

Lunch

TECHNICAL TRACKS (BREAKOUT SESSIONS)

TRACK 1

Water and Wastewater

TRACK 2

Solid Waste
Management

TRACK 3

Water and Energy
Management in
Agriculture

TRACK 4

Energy

GET INVOLVED

ATTEND

Utilities, engineers,
researchers, regulators
and students.

PRESENT

Share your work in a
technical track.

SPONSOR

Platinum and Gold
sponsors present on
Friday.

EXHIBIT

Showcase technologies at
the Expo.



WWM International
The Resource Recovery People

UNLV
HOWARD R. HUGHES
COLLEGE OF
ENGINEERING



Registration and inquiries: wwminternational.org | info@wwminternational.org

Program is subject to change. WWM International is a 501(c)(3) organization.