

Innovative and New Wastewater Treatment Technologies

Stories of Implementation, Startup, and Lessons Learned

Featuring keynote presentation **Policy, Politics, and Water with David Childs from Hopping, Green & Sams, PA**



David is a shareholder at Hopping Green & Sams, where he represents businesses and local governments before state and federal agencies and the Florida Legislature, with a focus on environmental and energy policy. Since joining the firm in 2005, he has helped shape and implement legislation addressing the reuse of reclaimed water, water quality standards, electric power infrastructure, and wetland permitting, among others. David holds a B.S. in biological engineering from Mississippi State University and a law degree from Florida State University. This past year, David was listed in "Best Lawyers in America" for Environmental Law, as a "Rising Star" in Florida Super Lawyers, and as an "Up & Coming Legal Elite" in Florida Trend Magazine.



October 18, 2018



Second Harvest Food Bank
411 Mercy Drive
Orlando, FL 32805



Register today - space is limited!

<https://mms.fwea.org/Calendar/moreinfo.php?event-id=49997>

*CEU/PDH applied for

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| 8:00 AM – 8:45 AM | Registration/Check-in |
| 8:45 AM – 9:00 AM | Opening Remarks |
| 9:00 AM – 9:30 AM | Saving the Planet – One Water Resource Recovery Facility at a Time - Brian Karmasin, PE (CDM Smith) |
| 9:30 AM – 10:00 AM | Granular Activated Sludge Technology Update –Manuel de los Santos (Aqua-Aerobics) |
| 10:00 AM – 10:30 AM | Implementation of a Novel Sidestream Nutrient Removal Process – Doug Hankins, PE (Wright-Pierce) |
| 10:30 AM – 10:45 AM | Networking Break |
| 10:45 AM – 11:15 AM | Ballasted Activated Sludge Process - Design, Startup and Experience – Jose Jimenez, PhD, PE (Brown and Caldwell) |
| 11:15 AM – 11:45 AM | Use of Compressed Gas for Cost-Effective Mixing and Biological Nutrient Removal – David Lauer (Enviromix), Steve Shelnett and Keith Jordan (City of Orlando) |
| 11:45 AM – 12:30 PM | Lunch Presentation: Policy, Politics and Water – David Childs (Hopping, Green & Sams, PA) |
| 12:30 AM – 1:00 PM | Completion of Lunch / Networking Break |
| 1:00 PM – 1:30 PM | Zeelung Membrane Aerated Biofilm Reactor (MABR) Technology – Niclas Astrand (Suez) |
| 1:30 PM – 2:00 PM | Utilizing Non-Methanol Carbon Sources in Deep-Bed Denitrification – Matt Tebow, PE (Kimley-Horn) |
| 2:00 PM – 2:15 PM | Networking Break |
| 2:15 PM – 2:45 PM | TBD – Rod Reardon, PE (Carollo) |
| 2:45 PM – 3:15 PM | Roundtable Discussion |
| 3:15 PM – 3:30 PM | Closing Remarks |

Registration Cost

\$125 for FWEA members and licensed wastewater operators (payment must be received by Monday, October 15)

\$150 for non-member and late FWEA members (non-members can join FWEA online before the event and qualify for the member rate)

\$175 for late non-member registrants

\$200 for sponsorship - includes logo on program, recognition on day of event (logo on slideshow during introduction and breaks)

* No refunds after Monday, October 15

