

CCEE Summer 2023 News

A Newsletter of the Department of Civil, Construction, and Environmental Engineering



CCEE sustainability research highlighted on White House science advisor campus visit

Director of the White House Office of Science and Technology Policy Arati Prabhakar visited the NSF Science and Technology Center – also known as Science and Technologies for Phosphorus Sustainability – a joint effort between NC State and eight partner institutions focused on phosphorus sustainability. She met with Associate Professor [Doug Call](#), who explained how his team of researchers are studying how to improve the biological removal of phosphorus from wastewater.

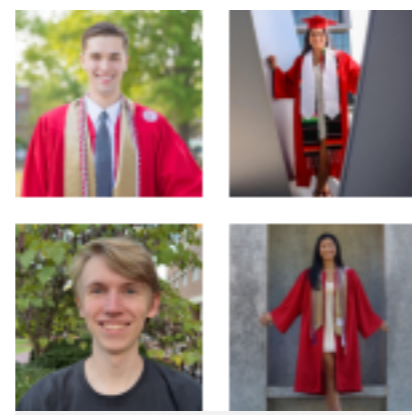
[See how CCEE researchers are working toward sustainability →](#)



CCEE receives a record 283 gifts totaling \$100,327 on Day of Giving

NC State held its fifth annual Day of Giving on March 22. Alumni, friends, parents, faculty, staff and students showed up strong to #GivePack. CCEE won the College of Engineering Leaderboard challenge with 283 gifts totaling \$100,327, and the department received \$19,950 from the CCEE Advisory Board for completing a match challenge of 100 gifts. These contributions help fund student extracurricular activities, student scholarships, faculty and staff salaries, and recruitment of outstanding new faculty to enrich CCEE's programs.

[Read about the day's highlights →](#)



Four CCEE graduates win 2023 Outstanding Senior Awards

Each spring, the department recognizes exceptional undergraduate students with four Outstanding Senior Awards. This year, the awards went to: Matthew Mottesheard for Humanities, Cecilia Sanchez for Leadership, Elias Zauscher for Citizenship and Service, and Ting Ting Lin for Scholarly Achievement.

[Learn about this year's winners →](#)



Six graduate students face off in CCEE's 6th Annual Three Minute Thesis Competition

Six CCEE Ph.D. students competed in the department's 6th Annual Three Minute Thesis Competition on April 10, presenting their research to an audience of judges and colleagues. Each student had three minutes and one static visual slide to make a compelling and concise statement about their thesis topic and its significance to society.

[Explore the competitors' research →](#)



Detlef Knappe receives A.P. Black Research Award from AWWA

James Ellen Distinguished Professor Detlef Knappe received the Borchardt-Glysson Water Treatment Innovation Prize from University of Michigan, where he delivered an award lecture and received recognition in May. The prize recognizes accomplishments in the water or wastewater treatment fields that have been nationally and internationally recognized.

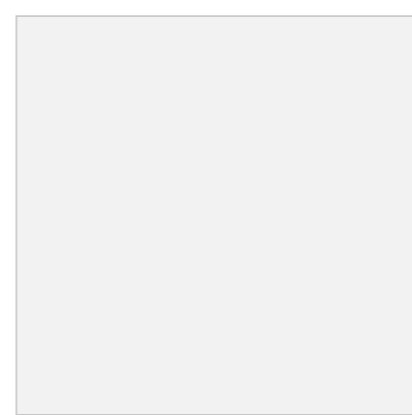
[Learn about Knappe's research →](#)



CCEE researchers propose fourth light on traffic signals for self-driving cars

At a traffic light, red means stop and green means go. But CCEE researchers are now proposing a "white light," which would enable autonomous vehicles to help control traffic flow – and let human drivers know what's going on. In computational simulations, the new approach significantly improves travel time through intersections and reduces fuel consumption.

[Explore the details of the study →](#)



Rhett and Link discuss commencement speeches on Ear Biscuits podcast

LA-based comedy duo and founders of entertainment company Mythical Rhett McLaughlin (BSCE 2000) and Link Neal discussed the daunting task of giving commencement speeches for their alma maters, NC State's CCEE and Industrial and Systems Engineering (ISE) departments, respectively, on the latest edition of their popular Ear Biscuits podcast.

[Hear highlights from this year's speeches →](#)

CCEE Enhancement Fund

Your contribution to the CCEE Enhancement Fund will make an immediate impact and provide critical support for our department.

[Click here to give](#)

Sep
5

CCEE Career
Connections Job
Fair

Sep
25

22nd Annual Paul Zia
Distinguished
Lecture

CCEE IN THE NEWS

[Katherine Anarde's research was featured in Coastal Review](#)

[Ali Hajbabaie was interviewed on CTV News about recent traffic light research](#)

[Morton Barlaz appeared on NPR's Weekend Edition Saturday](#)

[Greg Lucier went on CBS 17 to discuss research testing the structural safety of parking garages](#)

[Detlef Knappe was cited in a New York Times article on drinking water filtration →](#)