WORLD WATER DAY

MARCH 22

What: FREE LUNCH, Educational Games, Informational Tabling
Where: Student Center (Great Hall, First Floor)
When: March 22, 2022 11 AM – 2 PM
Who: Hosted by The Alabama Water Institute

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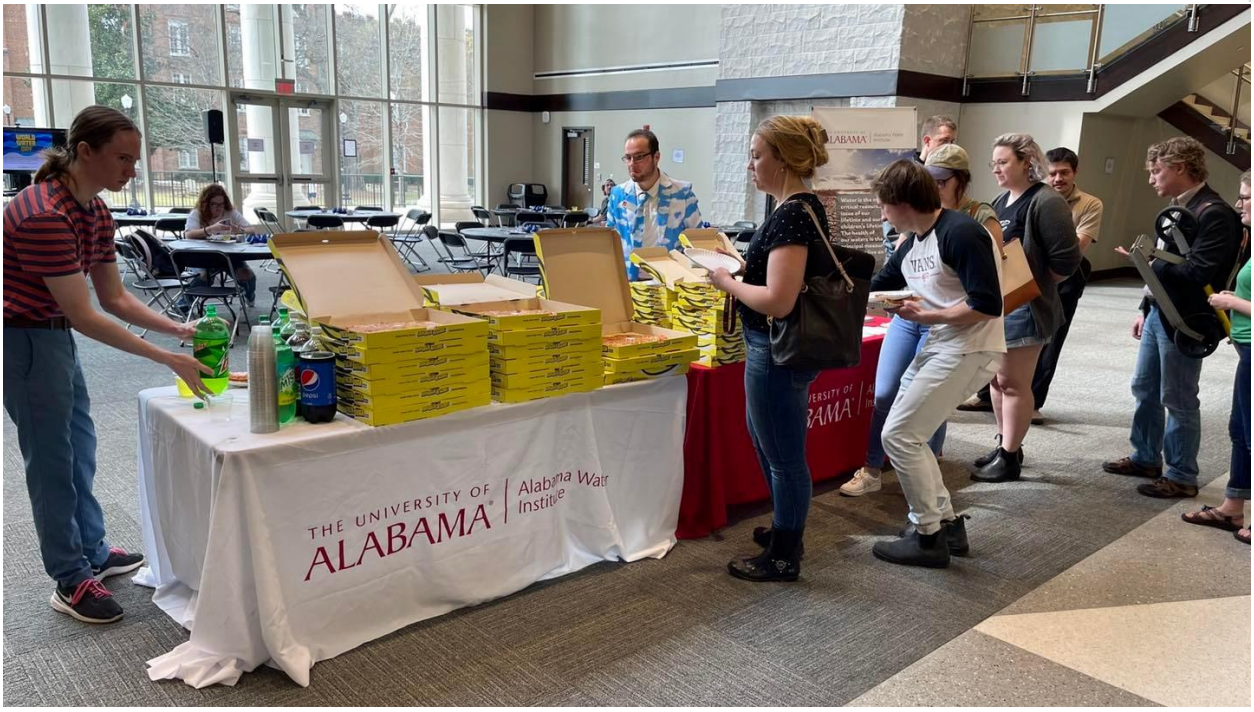

Earth Day Guest Lecture Luncheon:

Addressing Litter in Waterways through Extension, Outreach, and Research

April 22, 2022 from 12 - 1 p.m. *(CT)*

Speaker: Eric Sparks (Mississippi-Alabama Sea Grant)
Location: Bevill Building, Room 2006
FREE Lunch Available

https://masgc.org/news/article/project-puts-litter-gitters-in-mississippi-waterways

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Alabama Water Institute

We invite you to join us in Cyber Hall 1036 on July 28, from 3:30-4:30 PM when AWI will host Dr. Paola Passalacqua of University of Texas at Austin. Paola will give a talk entitled "Towards sustainable landscapes: insights from the network and connectivity". Light refreshments will be served.

WaterWorks

Conversations at the Intersection of Water, Science, and Society

Friday, August 26th 12-1 p.m. in Lloyd Hall, Room 202
Complementary lunch served

Pushing the Boundaries – How do upstream processes impact the downstream functions?

Managing water resources continues to be one of society's grand challenges. Our water resources play a critical role in human health, agriculture and energy production, and ecosystem function. In this seminar, we will focus on managing river corridors to promote ecosystem function. More specifically, we will examine how upstream processes (i.e., watershed storage and hydrologic connectivity) impact downstream function. To do this, we will use three case studies that span gradients in hydrologic connectivity: (i) headwater wetlands, (ii) non-perennial streams, and (iii) riverine floodplains. In each of these case studies, we will examine hierarchical controls on hydrologic variability and cascading ecosystem functions. Moreover, each case study will address challenges across research, regulatory, and management communities. Finally, we will end with a discussion on opportunities to further integrate catchment hydrology, ecosystem science, and water resource management.

Speaker: Dr. Nate Jones,
Assistant Professor of Ecohydrology,
UA Biological Sciences

SPECIAL GUEST SPEAKER:

Dr. Ayad M. Fadhil Al-Quraishi

Professor of Applied Remote Sensing and GIS at the Petroleum and Mining Engineering Department, Faculty of Engineering, Tishk International University (TIU), Erbil, Iraq

"Drought, Land Degradation and the Environmental Monitoring in Iraq using Remote Sensing and GIS"

He has supervised and examined over 62 Ph.D./M.Sc. students during his 42 years of university teaching experience. He has published over 70 papers in national/international journals and conferences, has edited four volumes for Springer, and contributed 12 book chapters.

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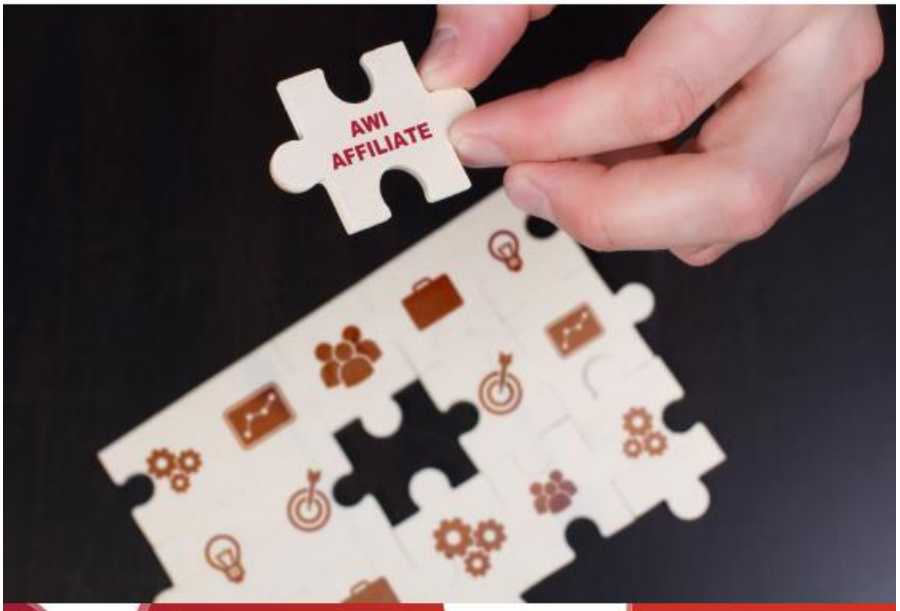
The Missing Piece to Your Research Puzzle



Alabama Water Institute Affiliate Benefits Seminar • Networking Luncheon

Tuesday, September 20th
10:30 am - 12:30 pm

Gorgas Library, Yellowhammer Rm.

To r.s.v.p., email Lanna Nations at: lnations@ua.edu

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WaterWorks

Conversations at the Intersection of Water, Science, and Society

Friday, September 30th 12-1 p.m.
in Lloyd Hall, Room 133
Complementary lunch served

Re-imagining Infrastructure for a Biodiverse Future

Existing approaches to conservation have failed to stem the global decline in biodiversity. However, large governmental investments in nature-based infrastructure and fundamental shifts within infrastructure agencies offer the promise of a new paradigm in which civil infrastructure becomes a vehicle for biodiversity enhancement rather than degradation. In this talk I'll discuss how the rapidly expanding Network for Engineering With Nature is working to bring about this transition to a more sustainable, biodiverse future.

Speaker: Dr. Seth Wenger
Director of Science, River Basin Center, University of Georgia, Odum School of Ecology

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Conversations at the Intersection of Water, Science, and Society

Friday, October 21st 12-1 p.m.
in Lloyd Hall, Room 233
Complementary lunch served

Characterization of Water Use in a Cellulosic Biofuels Plantation: Are we trading water for carbon?

To reduce the United States' dependence on foreign energy sources, the Energy Independence and Security Act mandates the use of 36 billion gallons of biofuels by 2022, 21 billion gallons of which must come from cellulosic/advanced biofuels. Cellulosic biomass includes short rotation woody crops (SRWCs) such as pine that can be grown on marginal lands. However, for these trees to be a viable source of energy, their rotation age must be further reduced by increasing their growth rates through increased physiological activity. This however can come at a cost of increased water use, which may lead to water insecurities and begs the question: Are we trading water for carbon?

Speaker: Dr. Gregory Starr
Professor, UA Biological Sciences
starrlab.ua.edu

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Change Ecology Lab
geochemical cycles in terrestrial and aquatic ecosystems
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WaterWorks

Conversations at the Intersection of Water, Science, and Society

Friday, December 2nd 12-1 p.m.
in Lloyd Hall, Room 233
Complementary lunch served

Challenges and Opportunities for Compound Coastal Hazard Modeling in a Changing Climate

Modulated freshwater influx to low-lying coastal regions and altered coastal water level dynamics are expected in the following decades due to in-/direct impacts of human activities (i.e. emissions, urbanization and flood management). The resulting terrestrial and coastal hazard drivers synergize to produce compound floods through nonlinear interactions that yield a level of risk not expected from each driver in isolation. In this presentation, I review the challenges and opportunities for appropriate assessment and modeling of compound coastal floods. I will review the methods and tools for analyzing the extent to which non-stationarity in individual flooding drivers (rainfall, river flow and sea level) and in their inter-dependency affect the accuracy of design flood hazard estimates.

Speaker: Dr. Hamed Moftakhari
Assistant Professor, Center for Complex Hydrosystems Research
https://cchr.eng.ua.edu/

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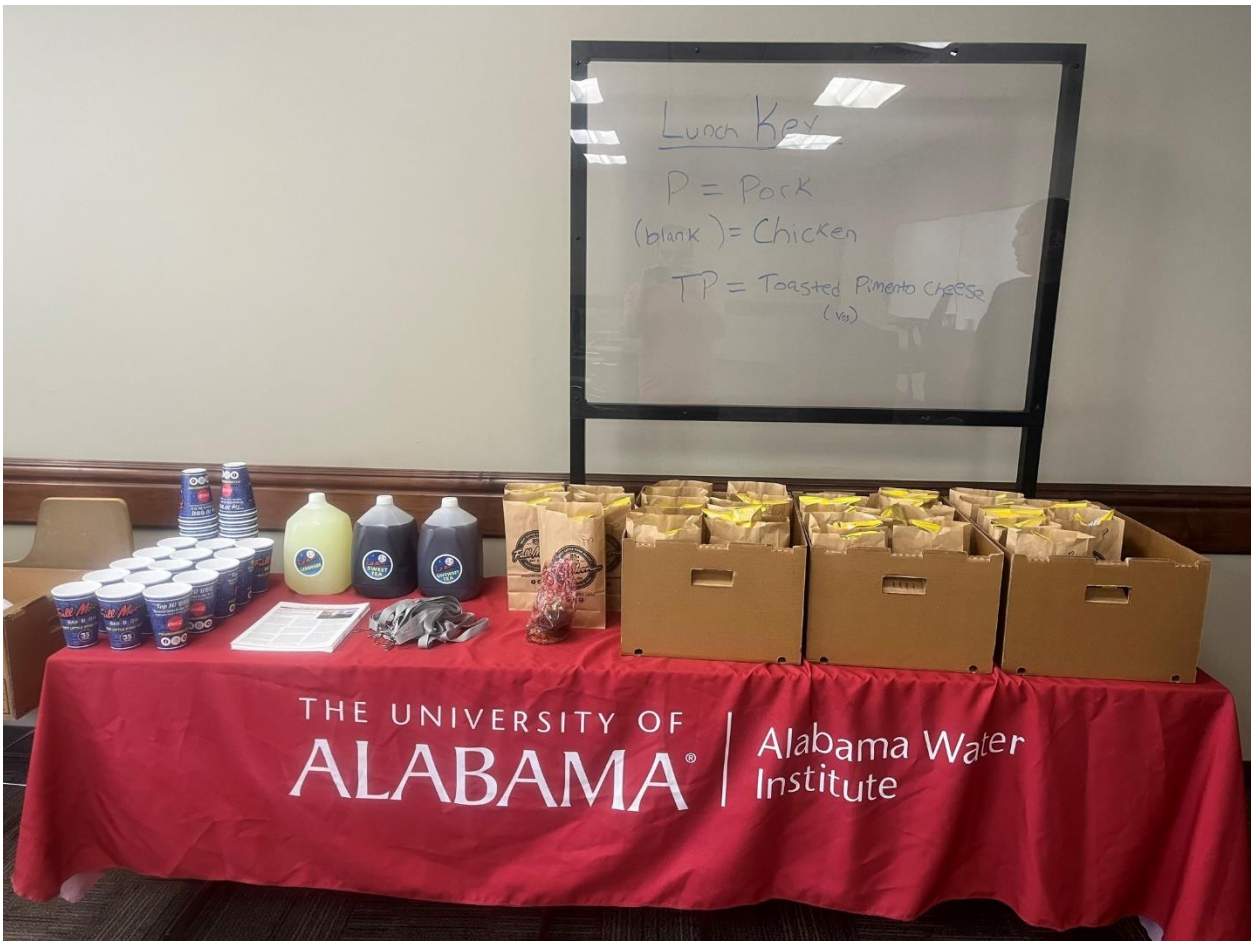
Lunch Key
P = Pork
(blank) = Chicken
TP = Toasted Pimento Cheese
(Veg)
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