

Second Target Station/Biological and Environmental Systems Science Workshop

June 14, 21, and 28, 2022

1-5 pm EDT, Virtual Meeting

Time (EDT)	Event/Activity	Lead
Day 1, June 14th (1-5pm EDT) Meeting Link: Click HERE		
Topic 1: Soil, rhizosphere processes; plant-soil interactions, etc. – Click HERE Topic 2: Biological systems, synthetic biology and enzyme engineering – Click HERE		
1:00pm – 1:20pm	Welcome & Introduction to STS	Eric Pierce, Ken Herwig, Shuo Qian, Alex Johs
1:20pm – 1:40pm	Plenary Talk 1 Christian Toetzke, University of Potsdam	Jeffrey Warren
1:40pm – 2:00pm	Plenary Talk 2 Mutez Ali Ahmed, University of California, Davis	Jeffrey Warren
2:00pm – 2:20pm	Plenary Talk 3 Jonathan Nickels, Univ. of Cincinnati	James Elkins
2:20pm – 2:40pm	Plenary Talk 4 Yannick Bomble, NREL	James Elkins
2:40pm – 2:50pm	Break for 10 minutes	
2:50pm – 4:50pm	Concurrent Session 1: Soil, rhizosphere processes & root water dynamics: plant-soil interactions, water uptake and transport.	Jeffrey Warren
2:50pm – 4:50pm	Concurrent Session 2: Biological systems, synthetic biology and enzyme engineering.	James Elkins
4:50pm – 5:00pm	Session chair summary	
5:00pm	Adjourn	

Time (EDT)	Event/Activity	Lead
Day 2, June 21 (1-5pm EDT) Meeting Link: Click HERE Topic 3: Plant-microbe interaction, CO₂ and temperature impacts on plant, etc. – Click HERE Topic 4: Biopreparedness – Click HERE		
1:00pm – 1:20pm	Welcome, Quick recap on Charges	Eric Pierce, Ken Herwig, Shuo Qian, Alex Johs
1:20pm – 1:40pm	Plenary Talk 1 Michelle Buchanan, ORNL	Leighton Coates
1:40pm – 2:00pm	Plenary Talk 2 Kenneth Kemner, ANL	Jennifer Morrell-Falvey
2:00pm – 2:20pm	Plenary Talk 3 Marcus Cicerone, Georgia Institute of Technology	Jennifer Morrell-Falvey
2:20pm – 2:40pm	Plenary Talk 4 Susan Tsutakawa, LBNL	Leighton Coates
2:40pm – 2:50pm	Break for 10 minutes	
2:50pm – 4:50pm	Concurrent Session 3: Plant-microbe interaction, global change biology, CO ₂ and temperature impacts on plant productivity, ...	Jennifer Morrell-Falvey
2:50pm – 4:50pm	Concurrent Session 4: Biopreparedness: Based on the National Virtual Biotechnology Laboratory during the pandemic, an initiative from DOE to prevent and respond to emerging diseases is gaining traction.	Leighton Coates
4:50pm – 5:00pm	Session chair summary	
5:00pm	Adjourn	
Day 3, June 28 (1-5pm EDT) Meeting Link: Click HERE Topic 5: Next generation bioproducts, biomaterials and bioenergy, etc. – Click HERE Topic 6: Geochemistry – Click HERE		
1:00pm – 1:20pm	Welcome, Quick Recap on Charges	Eric Pierce, Ken Herwig, Shuo Qian, Alex Johs
1:20pm – 1:40pm	Plenary Talk 1 Shishir Chundawat, Rutgers	Brian Davison
1:40pm – 2:00pm	Plenary Talk 2 Breeanna Urbanowicz, Univ. of Georgia	Brian Davison

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Time (EDT)	Event/Activity	Lead
2:00pm – 2:20pm	Plenary Talk 3 Dave Cole, OSU	Xin Gu
2:20pm – 2:40pm	Plenary Talk 4 Dan Hussey, NIST	Xin Gu
2:40pm – 2:50pm	Break for 10 minutes	
2:50pm – 4:50pm	Concurrent Session 5: Next generation bioproducts, biomaterials and bioenergy: Biofuels, cellulosic materials, hybrid and other biomass products.	Brian Davison
2:50pm – 4:50pm	Concurrent Session 6: Geochemistry: nanoscale structure of porous materials, rock formation, fracturing, weathering, biomineralization, CO ₂ sequestration and storage, etc.	Xin Gu
4:50pm – 5:00pm	Session Chair summary	
5:00pm	Adjourn	