

# SP&H planned events for 2022 SSSA meeting in Baltimore

## Business and social program

### **Sunday, November 6, 2022**

Soil Physics Mentoring Program - Social

Time: **7 pm**

Location: *David and Dad's Café* 115 N Charles St., Baltimore

Organized by: *Salini Sasidharan*, Environmental Science, Oregon State University, Corvallis, OR, US *Manoj K. Shukla*, PES, NMSU, New Mexico State University, Las Cruces, NM, US.

### **Wednesday, November 9, 2022**

SSSA Business Meeting--Soil Physics and Hydrology

Time: **12:00 PM - 1:30 PM**

Location: **Convention center Room 307**

Organized by: *Alexandra Kravchenko*, Department of Plant, Soil and Microbial Sciences, Michigan State University, East Lansing, MI

## Scientific program

- **Sunday, November 6, 2022**

1:15 PM - 4:55 PM

Soil Physics and Hydrology Oral I

*Alexandra Kravchenko*, Plant and Soil Science Bldg Room A376, Michigan State University, East Lansing, MI, US and *Matthew T Amato*, Environmental Sciences,

- **Monday, November 7, 2022**

9:30 AM - 10:50 AM

Poster and 5 Minute Rapid--Soil Physics and Hydrology Oral (includes Society-wide student competition selection)

*Alexandra Kravchenko*, Plant and Soil Science Bldg Room A376, Michigan State University, East Lansing, MI, US and *James B. O'Sullivan*, Michigan State University, East Lansing, MI, US

10:00 AM - 11:40 AM

Assessing Soil Pore Structure and Linking It to Microscale Processes Oral

I

*Andrey Guber, Plant, Soil, and Microbial Sciences, Michigan State University, East Lansing, MI, US, Sandeep Kumar, USDA-NIFA, Kansas City, MO, Stephen H. Anderson, 302 Anheuser-Busch Natural Resources Bldg, University of Missouri-Columbia, Columbia, MO, US, Daniel R Hirmas, 2228A Geology Building, University of California-Riverside, Riverside, CA, US and James Moran, Pacific Northwest National Laboratory, Richland, WA*

1:30 PM - 3:25 PM

Assessing Soil Pore Structure and Linking It to Microscale Processes Oral

II

*Andrey Guber, Plant, Soil, and Microbial Sciences, Michigan State University, East Lansing, MI, US, Sandeep Kumar, USDA-NIFA, Kansas City, MO, Stephen H. Anderson, 302 Anheuser-Busch Natural Resources Bldg, University of Missouri-Columbia, Columbia, MO, US, Daniel R Hirmas, 2228A Geology Building, University of California-Riverside, Riverside, CA, US and James Moran, Pacific Northwest National Laboratory, Richland, WA*

4:00 PM - 6:00 PM

Soil Physics and Hydrology Poster I

*Alexandra Kravchenko, Department of Plant, Soil and Microbial Sciences, Michigan State University, East Lansing, MI*

▪ **Tuesday, November 8, 2022**

9:00 AM - 11:00 AM

Symposium--CrossDiv--Interactions between Physics and (Micro)Biology: Water, Pores, and Biota across Scales

*Alexandra Kravchenko, Plant and Soil Science Bldg Room A376, Michigan State University, East Lansing, MI, US, Vanessa L. Bailey, MSIN #J4-18, Battelle for the USDOE, Richland, WA, US and Daniel R Hirmas, 2228A Geology Building, University of California-Riverside, Riverside, CA, US*

10:00 AM - 11:25 AM

Symposium--CrossDiv--Advances in Wetland Soils Research - Techniques for Measuring Environment Health

*Laura Moley, Kansas State University, Manhattan, KS, US*

11:05 AM - 12:00 PM

Panel Discussion: Interactions between Physics and (Micro)Biology: Water, Pores, and Biota

*Alexandra Kravchenko, Plant and Soil Science Bldg Room A376, Michigan State University, East Lansing, MI, US, Daniel R Hirmas, 2228A Geology Building, University of California-Riverside, Riverside, CA, US and Vanessa L. Bailey, MSIN #J4-18, Battelle for the USDOE, Richland, WA, US*

1:30 PM - 3:30 PM

Symposium--CrossDiv--a National "Earthshot": Can We Increase the Amount and Persistence of Carbon in Soils to Reduce Atmospheric CO<sub>2</sub>?

*Vanessa L. Bailey, MSIN #J4-18, Battelle for the USDOE, Richland, WA, US, Kirsten Hofmockel, Earth and Biological Sciences Directorate, Pacific Northwest National*

Laboratory, Richland, WA and **Stephanie Yarwood**, University of Maryland, Bowie, MD, US

1:30 PM - 3:55 PM

Soil Physics and Hydrology Oral II

**Alexandra Kravchenko**, Plant and Soil Science Bldg Room A376, Michigan State University, East Lansing, MI, US, **Kyungmin Kim**, Plant, Soil and Microbial Sciences, Cornell University-Crop & Soil Sciences, Ithaca, NY, US and **Ekrem Ozlu**, WI, Michigan State University, Hickory Corners, MI, US

1:30 PM - 4:00 PM

Applications of Machine Learning in Soil Physics and Hydrological Studies across Scales Oral

**Jingyi Huang<sup>1</sup>**, **Jingyi Huang<sup>1</sup>** and **Nan Li<sup>2</sup>**, (1)University of Wisconsin-Madison, Madison, WI, US(2)Department of Crop Sciences, University of Illinois Urbana-Champaign, Urbana, IL, US

4:00 PM - 6:00 PM

Soil Physics and Hydrology Poster II

**Alexandra Kravchenko**, Department of Plant, Soil and Microbial Sciences, Michigan State University, East Lansing, MI

▪ **Wednesday, November 9, 2022**

7:45 AM - 9:45 AM

Symposium--Critical Analysis of the Contribution of Soil Physics to the "Soil Health Movement"

**Eugenia M. Pena-Yewtukhiw**, 1194 Evansdale Drive, West Virginia University, Morgantown, WV, US

9:45 AM - 12:00 PM

Soil Physics and Soil Health Oral

**Navdeep Singh**, Jungquist Road, Washington State University, Mount Vernon, WA, US and **Poulamee Chakraborty**, Department of Agriculture and Food Engineering, Poulamee Chakraborty, Okemos, MI, US

1:30 PM - 3:25 PM

Water Quality Issues in Agricultural Watersheds Oral: Opportunities and Challenges

**Gurpal S Toor**, University of Florida, University of Maryland, College Park, MD, US, **Manoj K. Shukla**, PES, NMSU, New Mexico State University, Las Cruces, NM, US and **Charles R. Burgis**, 0113 H.J. Patterson Hall, University of MD014304782, College Park, MD, US

2:30 PM - 4:30 PM

Soil Physics and Hydrology Poster III

**Alexandra Kravchenko**, Department of Plant, Soil and Microbial Sciences, Michigan State University, East Lansing, MI