

Argonne Oral and Poster Presentations at AGU 2015 Fall Meeting:

MONDAY, DEC 14

11:10 – 11:20, Moscone West 3014

- GC12B-07 **The Contribution of Soils to North America's Current and Future Climate**
Melanie A Mayes, Sasha Reed, Peter E Thornton, Kate Lajtha, Vanessa L Bailey, Gyami Shrestha, Julie D Jastrow and Margaret S Torn

TUESDAY, DEC 15

2:25 – 2:40, Moscone West 2010

- B23J-04 **Interactions Between Soil Organic Carbon Concentration and Soil Thermal and Hydraulic Dynamics and Its Impact on Soil Carbon Storage in Northern High-latitudes**
Shijie Shu, Umakant Mishra, Forrest M. Hoffman, and Atul K Jain

Afternoon Posters (1:40 – 6:00) Moscone South Poster Hall

- B23E-0640 **Identifying microbial habitats in soil using quantum dots and x-ray fluorescence microtomography**
Sarah L O'Brien

WEDNESDAY, DEC 16

9:45 – 10:00, Moscone West 2008

- B31F-08 **Using Multiple Soil Carbon Maps Facilitates Better Comparisons with Large Scale Modeled Outputs**
Kristofer D Johnson, David V D'Amore, Neal J. Pastick, Helene Genet, Umakant Mishra, Bruce K Wylie, and Norman B Bliss

11:20 – 11:35, Moscone West 2008

- B32C-05 **Reading the Molecular Code in Soils**
Nancy J Hess, Malak M Tfaily, Sarah L O'Brien, Nikola Tolic, Julie D Jastrow and James E Amonette

Morning Posters (8:00 – 12:20) Moscone South Poster Hall

- B31D-0618 **Bioavailable Carbon and the Relative Degradation State of Organic Matter in Active Layer and Permafrost Soils**
Julie D Jastrow, Victoria J Burke, Timothy W Vugteveen, Zhaosheng Fan, Scott M Hofmann, Jeremy S Lederhouse, Roser Matamala, Gary J Michaelson, Umakant Mishra and Chien-Lu Ping
- B31D-0597 **Characterizing organic matter lability in Alaskan tundra soils using mid-infrared spectroscopy**
Zhaosheng Fan, Roser Matamala, Julie D Jastrow, Chao Liang, Francisco Calderon, Gary J Michaelson, Chien-Lu Ping, Umakant Mishra and Scott M Hofmann
- B31C-0573 **Long-term Nutrient Fertilization Increases CO₂ Loss in Arctic Tundra**
Laura M Graham, Susan Natali, Edward B Rastetter, David A Risk, Julie D Jastrow and Gaius R Shaver
- B31C-0556 **Carbon and nutrient responses to fire and climate warming in Alaskan arctic tundra**
Yueyang Jiang, Edward B Rastetter, Gaius R Shaver, Adrian V Rocha, Bonnie Kwiatkowski, Andrea Pearce, Qianlai Zhuang and Umakant Mishra

THURSDAY, DEC 17

2:55 – 3:10, Moscone West 2008

- B43L-06 [Recent advances in modeling depth distribution of soil carbon storage](#)
Umakant Mishra and Shijie Shu

Afternoon Posters (1:40 – 6:00) Moscone South Poster Hall

- B43I-0671 [Capturing spatial heterogeneity of soil organic carbon under changing climate](#)
Umakant Mishra, Zhaosheng Fan, Julie D Jastrow, Roser Matamala and Udaya Vitharana

FRIDAY, DEC 18

Afternoon Posters (1:40 – 6:00) Moscone South Poster Hall

- B53D-0607 [The Impact of Switchgrass Cultivar Diversity on Nitrogen Use Efficiency](#)
Aislinn C Johns, Julie D Jastrow, Johan Six, Geoffrey Morris, and Marie-Anne De Graaff