

**79th ANNUAL NORTH CENTRAL BRANCH MEETING OF
THE AMERICAN SOCIETY FOR MICROBIOLOGY**

University of Minnesota Duluth (UMD)
Duluth, MN

Friday, October 25 and Saturday, October 26
2019

Hotel: Radisson

Friday, October 25, 2019

WHEN	WHERE	WHAT	NOTES
8 – 10: 30 AM	SSB 115	Registration	Coffee and light refreshments in MWAH 195
8:30 – 9 AM	MWAH 195	Welcome Asst Dean Hinderliter	Coffee and light refreshments in MWAH 195
9 – 9:30 AM	MWAH 195	Satoshi Ishii- Keynote speaker	Direct Multi-Pathogen Quantification to Assess Water Safety
9:30 – 10 AM	MWAH 195	Coffee Break	Coffee and light refreshments in MWAH 195
10:45 AM – 12:45 PM	Life Sci 175 and 185	Concurrent oral presentations	See schedule below
12:45 – 1:45 PM	Kirby Ballroom	Lunch	Career panel discussion
2 – 2:30 PM	Life Sci 175 and 185	Concurrent oral presentations	See schedule below
2:30-3:00 PM	MWAH 195	Amanda Beaudoin	One Health Antibiotic Stewardship: Combatting the Resistance Threat Together
3:00 – 4:00 PM	MWAH 195	Marilyn Roberts- ASM Distinguished Lecturer	One Health Approach for Identification of Sources/Reservoirs of Multidrug Resistant Potential Pathogens in Wild Animals and their Environment
4:00 – 5:30 PM	Kirby Rafters	Poster session 4:00 – 4:45: Odd #s 4:45 – 5:30: Even #s	Coffee and light refreshments

5:30 – 6:00 PM	BREAK		
6:00 – 9 PM	Clyde Iron Works	Dinner	2920 W Michigan St, Duluth, MN 55806

Saturday, October 26, 2019

WHEN	WHERE	WHAT	NOTES
8:15 AM	MWAH 195	Elect 2019 NCB Officers and Host of 2020 Meeting	
8:45 AM	MWAH 195	Morning gathering	Coffee and light refreshments in MWAH 195
9 – 10:15 AM	MWAH 195	Oral presentations	See schedule below
10:15- 10:45		Peter Bergholz	Genomic diversity and ecological phenotypes of E. coli after passage through soil
10:45 AM	MWAH 195	Coffee Break	Coffee and light refreshments in MWAH 195
11 AM	MWAH 195	Student Presentation Awards	
11:30 AM	MWAH 195	Adjourn	

Friday Concurrent Talk schedule

LSI 175	Speaker		Title
10:45- 11:15	Bridget Ulrich	Researcher	Effects of Biochar and Carbon Source on Community Development and Biodegradation of Trace Organic Contaminants in Stormwater Biofilters: Microcosm and Column Studies
11:15- 11:30	Nouf Aldossari	Graduate Scientist	Cold-Adapted Denitrifying Fungi for Nitrate Removal
11:30- 11:45	Bikram Kumar Das	Graduate Scientist	Nitrogen cycle gene expression in a prairie soil remain unchanged across a growing season but suggests free- living nitrogen fixation

11:45-12	Amrit Koirala	Graduate Scientist	Phylogenetic analysis of nifHDKENB proteins from whole genomes of cultured isolates.
12-12:15	Xuewei Liang	Graduate Scientist	Changes in microcystin-degrading potentials within natural lake samples throughout the harmful cyanobacterial bloom season
12:15-12:30	Andrea Zavadil	Graduate Scientist	Effect of Sucrose Concentration on the Growth Kinetics of <i>Aureobasidium pullulans</i> Y2311
12:30-12:45	Keegan Brighton	Undergraduate Scientist	Hand Dryers or Paper Towels? Investigation of the Bacteria Emitted from Dyson Airblade V Hand Dryers
2-2:15	Adelle Keppers	Graduate Scientist	A surveillance study of antibiotic resistance genes in municipal wastewater in two characteristic communities

LSI 185	Speaker		Title
10:45-11:15	Bradley Bearson	USDA scientist	Multidrug-resistant <i>Salmonella enterica</i> serovar I 4,[5],12:i:- Isolate USDA15WA-1 Associated with a 2015 Foodborne Outbreak from Pork: Genomic and Phenotypic Characterization
11:15-11:30	Allison Land	Assistant Professor	MicroRNA Regulation of the Antiviral, Cancer-Associated APOBEC3 Enzymes
11:30-11:45	Heather Deter	Graduate Scientist	Antibiotic tolerance increases upon proteolytic queue formation at ClpXP
11:45-12	Hina Durrani	Graduate Scientist	Parsing the utility of a unique organelle of an unusual protist group.

12-12:15	Xianyi Xiong	Undergraduate Scientist	Predicting synergistic drug targets with trimethoprim in the folate biosynthesis pathway in <i>Mycobacteria</i> using a CRISPR interference system
12:15-12:30	Lucy Kwiatkowski	Undergraduate Scientist	The role of the <i>epa</i> operon in biofilm associated antibiotic resistance
12:30-12:45	Zachary Hying	Graduate Scientist	How two adaptor proteins affect signaling of the Chp chemosensory system in <i>Pseudomonas aeruginosa</i>
2-2:30	John D Chan	Assistant Professor.	Novel chemotherapies to treat the neglected tropical disease schistosomiasis

Saturday Oral Presentation Schedule

9-9:15	Prajakta Jadhav	Graduate Scientist	Construction of AND logic gate synthetic circuit using ribosome recovery system in <i>E. coli</i>
9:15-9:30	Kate Gentry	Undergraduate Scientist	Mining Phage Genomes for Novel Antibiotics
9:30-9:45	Miranda Galey	Graduate Scientist	Bugs Inside and Out of Minnesota Bats
9:45-10	Taylor Crooks	Post-bach researcher	Gut Microbial Products as a Tumor Growth Inhibitors in Ovarian Cancer