

ADVANCING WORKER SAFETY: INNOVATIONS AND CHALLENGES IN OCCUPATIONAL TOXICOLOGY

AGENDA:

- Meeting check-in/networking/coffee and light breakfast: 7:30 to 9:15 am
- Optional 3M Innovation Tour: 8:00 am to 9:15 am
- Meeting kick-off and overview - Nathan Pechacek, NLSOT President: 9:15-9:30 am
- Speaker - Ron Anderson, MNOSHA: 9:30-10:15 am
 - Presentation Title: *MNOSHA Updates*
- Zeke McKinney: 10:15-11:00 am
 - Presentation Title: *Overview of Clinical Environmental Medicine and Complex Occupational Exposure Cases*
- Break: 11-11:15 am
- Student presentations: 11:15-12:00 pm

Name	Academic Institution	Presentation Title
Zilin Xianyu	Mayo Clinic	When Follicular Lymphoma Turns Aggressive: Personalized Risk Prediction for Transformation
Jenn Feigin	Mayo Clinic	CAR-T cells remodeling the tumor microenvironment for the treatment of bone marrow cancers
Isaac Prah	Mayo Clinic	Targeting SERCA Activation: A Novel Strategy to mitigate Doxorubicin-induced Cardiotoxicity
Ya Li	Mayo Clinic	Development of Isoform-Specific Mitochondrial Creatine Kinase 1 (MtCK1) Inhibitors
Laurinda Nyarko	University of Minnesota	Wastewater Treatment Alters Organic Copper Composition
Gavin Salisbury	University of North Dakota	<i>CD133 expression increases gentamicin sensitivity in CD133⁺CD24⁺ renal tubular scattered cells</i>
Taylor Hoxie	University of Minnesota	Assessing Exposure to Per- and Polyfluoroalkyl Substances (PFASs) in the Indoor and Ambient Environment Utilizing Silicone Wristbands

- Lunch: 12:00 to 1:00 pm
- NLSOT Business Meeting: 1:00 to 1:15 pm
- Speaker - Andy Maier, 1:15 pm to 2:00 pm
 - Presentation Title: *The Toxic Substances Control Act - A Catalyst for Prioritizing Occupational Toxicology Methods Development*
- Speaker – Jason Lotter, Insight Exposure & Risk Sciences Group: 2:00 to 2:45 pm
 - Presentation Title - *Occupational Toxicology in Evolving Workplaces: Silica, Rare Earth Elements, Nanomaterials, and Additive Manufacturing*
- End of meeting

NLSOT 2025 Annual Meeting

Speaker Biosketches:

Ron Anderson

Ron Anderson is the Health Director with Minnesota OSHA. He is a Certified Industrial Hygienist and has been with Minnesota OSHA for over 26 years. Prior to Minnesota OSHA, Ron worked with a local environmental consulting firm for 7 years.

Zeke J. McKinney

Dr. McKinney grew up and completed all of his medical training in the Twin Cities area of Minnesota. He practices clinical occupational and environmental medicine in the Twin Cities, and serves as a Faculty Physician for the occupational and environmental medicine residency program where he trained and previously served as Program Director. Notably, he is one of few clinicians in Minnesota who evaluates work and community-related environmental toxicologic exposures, such as addressing concerns regarding PFAS exposures, uniform exposures in airline staff, and immune-mediating exposures in various settings. He additionally serves as the Medical Director for the Minnesota Firefighter Initiative (MnFIRE), where he helps to raise awareness, provide education, and advocate for improvements in the fire service to reduce their hazardous exposures that may lead to outcomes like cancer and heart disease. Dr. McKinney also works as a Research Investigator for the HealthPartners Institute, where he has conducted studies such as evaluating the changes in excretion of polycyclic aromatic hydrocarbons (PAHs) through the use of a sauna. In general, Dr. McKinney is passionate about justice for all patients, both in the clinic as well as in the community, and ensuring that healthcare outcomes and preventable hazards are equitably distributed across populations rather than disproportionately affecting some more than others.

Andrew Maier

Andrew (Andy) Maier PhD, CIH, DABT is a Principal Scientist at Integral Consulting Inc. with expertise in industrial hygiene and occupational toxicology. He is a former Associate Professor, recent lecturer, and research collaborator in occupational health risk assessment at the University of Cincinnati. He completed his M.S. in Industrial Health at the University of Michigan and Ph.D. in Toxicology at the University of Cincinnati. He is a Fellow of the American Industrial Hygiene Association (AIHA) and the Academy of Toxicological Sciences. He is active in all aspects of occupational risk assessment and has served in various leadership roles for related professional and scientific organizations. He is a prior NIOSH Fellow, prior President of the SOT Occupational and Public Health Specialty Section, Former Chair of the AIHA Occupational Exposure Limit Committee (and current stakeholder liaison), and current Chair of the AIHA TSCA Advisory Group.

Jason Lotter

Jason Lotter is a Managing Risk Assessment Scientist with Insight Exposure and Risk Sciences Group, a consulting firm focused on characterizing exposures and risks associated with multiple chemical classes, routes of exposure, and occupational and environmental scenarios. He has 13 years of experience specializing in exposure science, human health risk assessment, and occupational health and safety. He is a Certified Industrial Hygienist (CIH), an active member of the American Industrial Hygiene Association, and is based out of Chicago.