

# 2025 Program and Schedule of Events



Madison, Wisconsin, June 28 - July 2, 2025

## 93rd Annual Meeting of the Mycological Society of America

The University of Wisconsin-Madison • Madison, Wisconsin

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Meeting Abstracts

Abstracts for all invited and contributed presentations will be available before the start of the meeting. Search for them on the [MSA website](#) under the Annual Meeting. They are in a PDF format.

MSA Officers, Councilors, and Meeting Leadership

MSA Officers

**Timothy James**  
President (2024-2025)  
Department of Ecology and Evolutionary Biology,  
University of Michigan, Ann Arbor, MI

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Department of Plant Pathology and Environmental  
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Department of Natural Sciences, Bowie State University,  
Bowie, MD

**Heather Hallen-Adams**  
Treasurer (2022-2025)  
Department of Food Science and Technology,  
University of Nebraska – Lincoln, Lincoln, NE

**Cathie Aime**  
Immediate Past President (2024-2025)  
Department of Botany and Plant Pathology,  
Purdue University, West Lafayette, IN

**Julia Kerrigan**  
Past President (2024-2025)  
Department of Plant and Environmental Sciences,  
Clemson University, Clemson, SC

**MSA Councilors**  
**Vinson Doyle**  
*Councilor, Symbiosis & Pathology* (2023-2025)  
Department of Plant Pathology and Crop Physiology,  
Louisiana State University, Baton Rouge, LA

**Matt Kasson**  
*Councilor, Symbiosis & Pathology* (2024-2026)  
Department of Forest Pathology and Mycology,  
West Virginia University, Morgantown, WV

**Adriana Corrales Osorio**  
*Councilor, Ecology & Conservation* (2023-2025)  
SPUN (Society for the Protection of Underground  
Networks) and Department of Natural Sciences,  
Universidad del Rosario, Bogotá, Colombia

**Posy Busby**  
*Councilor, Ecology & Conservation* (2024-2026)  
Department of Botany and Plant Pathology,  
Oregon State University, Corvallis, OR

**Sara Branco**  
*Councilor, Genetics & Cell Biology* (2023-2025)  
Department of Integrative Biology, University of  
Colorado – Denver, Denver, CO

**Sunny Liao**  
*Councilor, Genetics & Cell Biology* (2024-2026)  
Department of Soil, Water and Ecosystem Sciences,  
University of Florida, Gainesville, FL

**Alija Mujic**  
*Councilor, Systematics & Evolution* (2023-2025)  
Department of Biology, Fresno State University,  
Fresno, CA

## **Jana U'Ren**

*Councilor, Systematics & Evolution (2024-2026)*  
Department of Plant Pathology, Washington State  
University, Pullman, WA

## **Abigail Neat**

*Student and Postdoc Section Chair (2023-2024)*  
Department of Botany and Plant Pathology, Oregon  
State University, Corvallis, OR

## **MSA Meeting Leadership and Program Committee Local Arrangements Chair**

Anne Pringle  
Emile Gluck-Thaler  
Kristi Gdanetz MacCready

## **Foray Coordinator**

Michelle Jusino

## **Program Committee**

Nhu Nguyen (Chair)  
Julia Kerrigan  
Brian Perry  
Ryoko Oono  
Xiomy Pinchi-Dávila (SPS Rep)  
Ning Zhang (ex officio, Past Chair)  
Tim James (ex officio, President)  
David Geiser (ex officio, President-Elect)

## **Staff**

Kaylee Walters, Executive Director  
Kris Rockouski, Meeting Planner  
Mary Johns, Account Manager  
Josh Royle, Membership and Registrar

Special thanks to the **MSA Student & Postdoc Section**  
for engagement and vision, and to our Diversity, Equity,  
and Inclusion Committee for helping us follow best  
practices in developing an inclusive meeting.

MSA is a volunteer-run society and depends on a large  
number of individuals for the day-to-day operations  
of the society, for organizing and hosting the Annual  
Meetings, and for publishing ***Mycologia***.

The Officers and Councilors extend their gratitude to all  
our volunteers. MSA has such a dedicated membership  
and is immeasurably grateful of your time, energy, and  
service to the society.

## **MSA Code of Conduct**

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MSA values the diversity of views, expertise, opinions,  
backgrounds, and experiences reflected among MSA  
members and the broader mycology community, and  
is committed to providing a safe, productive, and  
welcoming environment for all participants of MSA  
meetings and events. MSA meetings and events can  
serve as an effective forum to consider and debate  
science- relevant viewpoints in an orderly, respectful,  
and fair manner. This Code of Conduct is important to  
promoting diversity and creating an inclusive, supportive,  
and collaborative environment for all peoples.

All MSA meetings and events participants – including,  
but not limited to, attendees, speakers, volunteers,  
exhibitors, MSA staff, members of the media, vendors,  
and service providers (hereinafter “participants”) – are  
expected to abide by this **MSA Code of Conduct** and  
by the MSA Policy for Harassment and Discrimination  
(Appendix B of the **MSA Manual of Operations**). This  
Code of Conduct applies in all venues, including ancillary  
events and social gatherings, and on-line forums and  
discussions associated with the MSA.

## **Expected Behavior**

- Treat all participants with kindness, respect, and consideration, valuing a diversity of views and opinions (including those you may not share).
- Communicate openly, with respect for other participants, critiquing ideas rather than individuals.
- Refrain from demeaning, discriminatory, or harassing behavior and speech directed toward other participants.
- Be mindful of your surroundings and of your fellow participants. Alert MSA staff if you notice a dangerous situation or someone in distress.
- Respect the rules and policies of the meeting venue, hotels, MSA-contracted facility, or any other venue.

## **Unacceptable Behavior**

Harassment, intimidation, or discrimination in any form. Harassment includes speech or behavior that is not welcome or is personally offensive. Behavior that is acceptable to one person may not be acceptable to another, so use discretion to be certain respect is communicated. Harassment intended in a joking manner still constitutes unacceptable behavior.

## **Examples of unacceptable behavior include, but are not limited to:**

- Physical or verbal abuse of any participant
- Unwelcome or offensive verbal comments or exclusionary behavior related to age, appearance or body size, employment or military status, ethnicity, gender identity and expression, individual lifestyle,

marital status, national origin, physical or cognitive ability, political affiliation, sexual orientation, race, or religion

- Inappropriate physical contact
- Unwanted sexual attention
- Use of sexual or discriminatory images in public spaces or in presentations
- Deliberate intimidation, stalking, or following
- Harassing photography or recording, including taking photographs or recording of another individual's oral presentation or poster without the explicit permission of that individual and of MSA
- Sustained disruption of talks or other events
- Bullying behavior
- Retaliation for reporting unacceptable behavior

### **Immediate Serious Threat to Public Safety**

Anyone experiencing or witnessing behavior that constitutes an immediate or serious threat to public safety at any time should contact local law enforcement (by calling 911) and immediately notifying facility security.

### **Reporting Unacceptable Behavior**

- If you are not in immediate danger but feel that you are the subject of unacceptable behavior, have witnessed any such behavior, or have other concerns, please notify an MSA staff member (as soon as possible) who can work with appropriate MSA leadership to resolve the situation. You may also feel free to contact MSA staff at 717-896-0191. All reports will be treated seriously and responded to promptly.
- If you are in immediate danger please call 911. As soon as it is safe and practical, we would ask that you notify MSA staff at the number shown above.
- To report incidents of any sort during or following an MSA event, please contact the MSA staff at [info@msafungi.org](mailto:info@msafungi.org).
- Once a report is received by MSA, our staff designee will discuss the details first with the individual filing the complaint, any victims or witnesses who have been identified, and then the alleged offender(s) before determining an appropriate course of action. Confidentiality will be maintained to the extent that it does not compromise the rights of others or the safety of other attendees or the public.

### **Consequences**

- Anyone requested to stop unacceptable behavior is expected to comply immediately.
- MSA staff (or their designee) or security may take any immediate action deemed necessary and appropriate, including removal from the meeting or event without warning or refund.
- Further consequences may include prohibition from attending future meetings and events.
- Please note that the administrative consequences defined in this policy are separate and distinct from possible actions that would be dictated by the situation. This may include referral and reporting to the appropriate law enforcement agency having jurisdiction, as well as possible reporting requirements under state and federal law, including Title IX.

By attending the 2025 Annual Meeting of the Mycological Society of America, all participants agree to abide by this Code of Conduct, whether participating online or in person. We welcome you to join, sustain, foster, and help grow our inclusive and supportive environment.

# Awards

Congratulations to all of this year's **MSA Award Winners!**

## **DISTINGUISHED MYCOLOGIST AWARD: Dr. Keith Seifert**

**The Distinguished Mycologist Award is one of the highest awards bestowed by the MSA, and it is designed to recognize individuals that have a truly distinguished career in the field of mycology in terms of either research or service.**



Keith was born in Sudbury, Ontario, Canada. He was introduced to mycology by Bryce Kendrick at the University of Waterloo and Ian D. Reid at the National Research Council in Saskatoon, then received his MSc in 1982 from the University of British Columbia with R.J. Bandoni, and his PhD in 1985 from the former Centraalbureau

voor Schimmelcultures with Rob Samson. He worked as a researcher for Forintek Canada in Ottawa from 1986–1990, and then at Agriculture & Agri-Food Canada in Ottawa from 1990–2019. His expertise is the identification and classification of microscopic fungi producing toxins in crops and foods. Keith's academic publications include >300 scientific papers and six books. He is best known for his work on the taxonomy of hyphomycetes, culminating in his 2011 book *The Genera of Hyphomycetes* (with Gareth Morgan-Jones, Walter Gams and Bryce Kendrick), his promotion of DNA barcoding in mycology, and his part in the retirement of dual nomenclature. Keith was the Chair of the International Commission of the Taxonomy of Fungi from 2000–2014, and President of the International Mycological Association from 2014–2018, and past president from 2018–2024. He served the MSA as a Councillor, as a member of the Culture Collection, Mycologia Memoirs and Nomenclature Committees, and as an Executive Editor of Mycologia from 2014–2018, where he was instrumental in negotiating the current publication arrangements for the journal. He was awarded the Alexopoulos Prize by the MSA in 1993, and was elected as a Fellow in 2013. Keith retired in 2019 and is now an adjunct professor at Ottawa's Carleton University. His book *The Hidden Kingdom of Fungi*, written for general readers, was published in 2022 and was translated into Japanese and Spanish.

## **DISTINGUISHED MYCOLOGIST AWARD: Dr. Karen Hughes**

**The Distinguished Mycologist Award is one of the highest awards bestowed by the MSA, and it is designed to recognize individuals that have a truly distinguished career in the field of mycology in terms of either research or service.**



Karen Hughes is a Professor in the Department of Ecology and Evolutionary Biology (EEB) at the University of Tennessee, Knoxville. She served as Head of the Botany Department from 1985–1991 (now part of EEB). She received her MS and Ph.D. at the University of Utah in Genetics with a minor in statistics. Since the mid-1980's she was predominantly involved in research involving basidiomycete fungi which focused on fungal distributions and speciation processes. More recently, she has been involved in research on post-fire fungi including those fruiting after fire and post-fire mycorrhizal and endophytic fungi. She served the MSA as a Council member (2002–2003), a member, then chair, of the development committee (2006–2013), and member, then chair of the Education Committee (2015–2019). She was Co-PI on several NSF and NBII grants to digitize the fungal collections at the University of Tennessee Herbarium and to carry out field work in the Great Smoky Mountains of Tennessee and North Carolina which included the All Taxon Biodiversity Inventory in the Smokies in conjunction with the 2004 MSA meeting in Ashville, North Carolina. She has authored 140+ peer reviewed papers. She is an MSA and AAAS fellow.

## **WILLIAM H. WESTON AWARD:**

**Dr. Amy Honan**

**The Distinguished Mycologist Award is one of the highest awards bestowed by the MSA, and it is designed to recognize individuals that have a truly distinguished career in the field of mycology in terms of either research or service.**



Amy is a mycologist interested in biodiversity, evolution, and ecology. Amy received a B.S. in Biochemistry from Western Colorado University in Gunnison, CO where she studied population genetics of the fungal root pathogen *Armillaria*. She received an M.S. in Biology from San Francisco State University where she studied the evolution of

*Tetrapyrgos* from SE Asia in Dr. Dennis Desjardin's lab. Amy earned her Ph.D. from the University of Washington where she explored the ecology, evolution and diversity of the stalked puffball *Tulostoma*. She currently teaches mycology and fungal ecology for Oregon State University. Her current research focuses on documenting fungal biodiversity and assessing fungal abundance and rarity for conservation purposes across North America.

## **CONSTANTINE J. ALEXOPOULOS PRIZE:**

**Dr. Dhanushka Udayanga**

**Awarded annually to an outstanding mycologist early in their career. The nominees are evaluated primarily on the basis of quality, originality, and quantity of their published work.**



Dhanushka Udayanga is a Professor affiliated to the Department of Applied Sciences at the Sri Lanka Institute of Information Technology. He earned his B.Sc. in Molecular Biology and Biotechnology from the University of Peradeniya, where his fascination with science first took root. Motivated by a deep interest in molecular phylogeny, fungal

diversity, and the ecological roles of phytopathogenic fungi, he pursued a Ph.D. in Biotechnology at Mae Fah Luang University, Thailand. His doctoral research focused on the taxonomy and molecular systematics of *Diaporthe*, a taxonomically complex fungal genus. He conducted extensive fieldwork and sample collection in Thailand, USA and China, in collaboration with the Chinese Academy of Sciences (Beijing) and the USDA Agricultural Research Service (USDA-ARS, Beltsville, MD), under the mentorship of Prof. Kevin D. Hyde, Prof.

Xingzhong Liu, Dr. Amy Rossman, and Dr. Lisa Castlebury. Between 2015 and 2017, during his postdoctoral research at USDA-ARS, he further explored the molecular systematics of Diaporthalean taxa, endophytic fungi, and the genomics of plant pathogens.

In 2017, Dr. Udayanga joined the University of Sri Jayewardenepura, Sri Lanka as a Senior Lecturer and later served as Head of the Department of Biosystems Technology. In 2024, he joined Sri Lanka Institute of Information Technology as a Professor. Udayanga's current research focuses on molecular systematics of plant pathogenic fungi on crops, host-pathogen interactions, mycelium-based materials, and other innovative biotechnological applications of fungi. He received the Martin Baker Research Award from the Mycological Society of America in 2018. He is also passionately engaged in science communication, popularization, networking, and capacity-building initiatives in Sri Lanka leading innovations and mentoring the next generation of fungal biologists.

## **COMMUNITY MYCOLOGIST AWARD**

**Dr. Lorin von Longo-Liebenstein**

**The Community Mycologist Award recognizes people with non-traditional academic backgrounds who have made outstanding contributions to the field of mycology, or who have widely transmitted significant scientific or aesthetic knowledge about fungi to the general public.**

With more than a decade dedicated to the field of practical fungal application, Lorin is a recognized expert whose work has spanned the full spectrum from commercial edible mushroom production—including overseeing Europe's largest outdoor farm—to applications in mycorrhizal and wood-decay fungi for environmental enhancement. He previously co-founded and served as the mycological director for a prominent biotech company, scaling novel fungal methodologies. Currently, Lorin operates as a freelance consultant, working closely with research institutes to bridge the gap between scientific studies and real-world application in conservation and other fungal technologies. His expertise also extends to advising organizations on best practices in mycological procedures, strain maintenance, and preservation. Beyond scientific and commercial ventures, Lorin is deeply committed to community engagement, regularly leading workshops that share the inspiration and broad potential of mushrooms, including their use in gardens.



## **MSA FELLOW:**

### **Dr. Julia Kerrigan**

**MSA Fellows are selected from members who have completed at least 11 years of service after their Ph.D. They are members who are outstanding mycologists on the basis of one or more criteria: a solid record of mycological research, and/or successful teaching and development of teaching materials for mycology, and/or significant service to the Society. This is meant to recognize a core group of mid-career mycological achievers and outstanding MSA volunteers.**



Julia Kerrigan is an Associate Professor in the Department of Plant and Environmental Sciences at Clemson University in South Carolina. The underlying theme in her research is elucidating the basic biology of fungi and their interactions with other organisms. Much of her research has focused on fungi associated with trees, and she

has also worked on filamentous fungal biofilms, yeasts, and smuts. While at Clemson she has worked to increase the visibility of the importance of fungi and discipline of mycology. To that end, she initiated a popular mycology course, Fungi and Civilization, that is taught every Spring, and she teaches Introductory Mycology and Mycology Practicum every Fall. Julia has also taught Integrated Forest Pest Management and Fungal Ecology and Pathology. She also oversees undergraduate research projects; our current goals are to grow alternative mycelium-based products as well as develop lesson plans that incorporate fungi in the South Carolina K-12 curriculum standards.

Julia earned a BS in Natural Resources from the University of Michigan-Ann Arbor, MS in Plant Pathology from the University of Georgia-Athens under the guidance of Charles Mims, and PhD in Plant Pathology from Washington State University-Pullman under the guidance of Jack Rogers. She was a postdoc in Jeff Stone's laboratory at Oregon State University. She values her mycological lineage and is grateful for the time her mentors spent to improve her education as well as their dedication to mycology. She has served on 31 graduate students' committees and been the major advisor for eight graduate students.

Julia enjoys service-based activities, some of her contributions to mycological organizations include the following. She is the co-founder and organizer of the South Carolina Upstate Mycological Society (SCUMS), which has been active since 2008 with regular forays and monthly meetings featuring invited speakers. She is an enthusiastic attendee of the annual Mid-Atlantic

States Mycology Conference and has hosted it twice. She is currently MSA Past President, having served as Immediate Past President, President, President Elect, and Vice President. She is also a member of the Program Committee, Nominations Committee, and Honorary Awards committee. Previously she served as MSA Councilor of Ecology/Pathology (2019-2020), *Inoculum* Editor (2014-2016), Student Awards Committee member and Chair (2012-2015), *Mycologia* Associate Editor (2007-2011). Sporadic activities include *Mycologia* manuscript reviewer and Student Awards Committee ad hoc judge. She has been an MSA member since 1993 and looks forward to serving MSA in the future!

## **MSA FELLOW:**

### **Dr. Matthew Smith**

**MSA Fellows are selected from members who have completed at least 11 years of service after their Ph.D. They are members who are outstanding mycologists on the basis of one or more criteria: a solid record of mycological research, and/or successful teaching and development of teaching materials for mycology, and/or significant service to the Society. This is meant to recognize a core group of mid-career mycological achievers and outstanding MSA volunteers.**

Matthew E. Smith is a Professor at the University of Florida Department of Plant Pathology and the curator of the Fungarium at the Florida Museum of Natural History. Smith teaches fungal biology, conducts research on fungal systematics, ecology, and evolution and is responsible for identifying fungi for a variety of Florida stakeholders (including the Florida Poison Control, the UF Plant Diagnostic Center, and the UF/IFAS Extension service). Smith is author of more than 200 scientific publications and is a fellow of the American Association for the Advancement of Science (AAAS). He has investigated fungi from several different major taxonomic lineages, but much of his research has focused on the ecology and evolution of ectomycorrhizal fungi and particularly on the evolution, ecology, and systematics of truffles. His research group has also contributed to important research on Pezizomycete systematics, the fungi associated with ambrosia beetles, systematics and ecology of 'zygomycete fungi' (particularly Zoopagomycotina and Kickxellomycotina) and broad systematics and biogeography of the fungi of South America. Along with collaborators Smith has described several new genera of fungi and more than 50 new species, including several truffles and truffle-like fungi.



## **Student Awards**

### **MSA Graduate Fellowship**

Diego Garfias Gallegos

Julius Tabin

### **NAMA Award**

C. Benton Willis

### **Myron P. Backus Award Fund**

Cecelia Stokes

### **Undergraduate Research Award**

Julian L. Marshall

## **Student Travel Awards**

### **Alma Joslyn Whiffe-Barksdale Travel Award**

Isabelle Stiver

### **Charles Kramer Travel Award**

Daniel Farthing

### **Charles Mims Travel Award**

Carolyn Cornell

### **Constantine J. Alexopoulos Travel Award**

Thomas Victor

### **Edward E. Butler Travel Award**

Julius Tabin

### **Emerson-Fuller-Whisler Travel Award**

Alex Lando

### **Emory G Simmons Travel Award**

Meredith Berdeja

### **Everett S. Luttrell Travel Award**

Jack Scherer

### **Francis A. Uecker Travel Award**

María-José Romero-Jiménez

### **Harry Morton Fitzpatrick Travel Award**

Kimberly Correll Syring

### **Harry D. Theirs Travel Award**

Alexander Rurik

### **Howard E. Bigelow Travel Award**

Jessica Loeffler

### **James M. Trappe Travel Award**

Prasanth Prakash Prabhu

### **Kenneth Wells Travel Award**

L. McKinley Nevins

### **Margret Barr Bigelow Travel Award**

Kathryn Maley

### **Orson and Hope Miller Travel Award**

Ada Fitz Axen

### **Richard P. Korf Travel Award**

Andreas Guerrero

### **Robert L. Gilbertson Travel Award**

Justin J. Loucks

### **William C. Denison Travel Award**

Emmett Bauer

## **Research Awards**

### **Clark T. Rogerson Research Award**

Polina Mironova

### **Martin-Baker Award**

Danny Healewaters

### **MSA Climate Change Research Award**

Terry Torres Cruz

### **Robert W. Lichtwardt Student Research Award**

Julius Tabin

### **Salomon Bartnicki-Garcia Research Award**

Katie King

## **SPORES Mentoring Program**

In 2023, MSA implemented SPORES (Society Prioritizes Our Recruitment of Every Scholar), a mentoring program that sends underrepresented undergraduate students to the MSA Annual Meeting. Awardees receive free meeting registration, mentoring by an established mycologist, and 1-year MSA membership. Below is a list of recipients for 2025.

Varshini Balaji

Cleo Baldoumas

Julia Boyko

Alison Davis

Iván Delgado

Wylee Kayne Lee Dodge

Ryland Edwards

Aaliyah Golden-Whitehead

Myles Donahvon Gosha

Sophia Jordan

Kit Mount

Walter Price

Rosemary Randall

Katie Taylor

Chenoa Webster

Sophie Shand

## General Information

### Registration Desk

The registration desk is located in the Main Lounge on the second floor of the Memorial Union. MSA Staff will help participants check-in to the conference, answer questions, and assist with on-site registration during the following hours:

|                   |                   |
|-------------------|-------------------|
| Sunday, June 29   | 3:00 PM - 6:30 PM |
| Monday, June 30   | 7:30 AM - 6:00 PM |
| Tuesday, July 1   | 7:30 AM - 6:00 PM |
| Wednesday, July 2 | 7:15 AM - 2:00 PM |

### Badges

Each registered participant will receive a name badge upon check-in to the conference. The badge grants access to all conference activities and should be worn at all times during conference functions.

### Cell Phones, Mobile, Tablet Devices

Please mute your cell phones, laptops, tablets, and mobile devices while in all meeting rooms. Please respect presenters' wishes not to share certain sensitive data on social media.

The official hashtag for our 2025 meeting: **#MSAfungi25**

### Internet Access

Complimentary wireless internet is available in the Memorial Union. Select UWNET WIFI which will direct you to the login page where you will click "**Create a Guest Account**", fill in name and email address, and click "accept terms of use." Click "**Create Guest Account**" again and you are all set.

### Parking

Parking is available on a first-come, first-served basis with the closest lot being Lot 6 (Helen C White). **Parking passes can be pre-purchased online.**

## Health Care Resources

The closest hospital to the **Memorial Union is UW Hospital**, which is located 2.2 miles from the Memorial Union at 600 Highland Ave, Madison, WI 53792 (+1-608-263-6400).

**Union Corners Clinic Urgent Care** is located 3.4 miles from the Memorial Union at 2402 Winnebago St, Madison, WI 53704 (+1-608-828-7603). Urgent Care is open 8:00 AM - 8:00 PM Monday through Friday, and 8:00 AM - 5:00 PM Saturday and Sunday.

**Walgreens Pharmacy** is located 0.2 miles from the Memorial Union at 676 State St, Madison, WI 53703 (+1-608-257-2556). The store is open 8:00 AM-5:00 PM daily; pharmacy hours may vary.

## Refreshments & Receptions

Refreshment breaks will be provided throughout the conference and available in the Sunset Lounge unless otherwise noted. Open events for all participants at which refreshments will be served for registered participants include the MSA Opening Reception (Sunday, June 29), refreshment breaks, and if MSA provides lunch during the conference.

Pre-registered events include the MSA Foray, MSA Banquet & Auction, and Student Presentation Awards.

## Special Lectures

Join your colleagues and friends for the following two lectures during this year's Annual Meeting!

### MSA 2025 Presidential Address

Monday, June 30, 2025  
8:30 a.m. - 9:30 a.m.  
Shannon Hall  
**The Quest for Origins in Fungi**  
Timothy James  
University of Michigan



### MSA 2025 Karling Lecture

Tuesday, July 1, 2025  
8:30 a.m. - 9:30 a.m.  
Shannon Hall  
**Carnivorous Fungi: From Molecules to Ecosystems**  
Yen Ping Hsueh  
Max Planck Institute



## **MSA Business Meeting and Student Awards Breakfast**

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The annual business meeting includes a summary of the Executive Council's reports and passing of the gavel. The awards ceremony is an important part of this meeting, which involves presenting the Distinctions, Honorary, Research, DEI, Student, and Travel Awards. Certificates of appreciation are given in recognition of service for committee members.

A hot breakfast is provided. This year's business meeting will take place on Wednesday, June 2 from 7:30 AM - 9:15 AM in the Great Hall.

## **Special Meetings**

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During the main conference several special meetings will occur, typically over lunch.

### **IP Lunch Meeting**

*Box Lunch Provided on a first-come, first-served basis*  
Old Madison East & West  
Monday, June 30th • 12:30 PM - 1:45 PM

### **NSF Lunch Meeting**

*Box Lunch Provided on a first-come, first-served basis*  
Multicultural Greek Council  
Monday June 30 • 12:30 PM - 1:45 PM

### **Mycologia Editors Lunch Meeting**

Old Madison East & West  
Tuesday, July 1st • 12:30 PM - 1:45 PM

### **DEI Lunch Meeting**

*Box Lunch Provided on a first-come, first-served basis*  
Multicultural Greek Council  
Tuesday, July 1st • 12:30 PM - 1:45 PM

### **JGI Lunch Meeting**

*Box Lunch Provided on a first-come, first-served basis*  
Old Madison East & West  
Wednesday, July 2nd • 11:45 AM - 12:45 PM

### **Getting Involved with MSA**

*Box Lunch Provided on a first-come, first-served basis*  
Multicultural Greek Council  
Wednesday, July 2nd • 11:45 AM - 12:45 PM

### **Student and Postdoc Section Board Meeting**

Old Madison East & West  
Sunday, June 29 • 5:30 PM - 6:30 PM

## **Mycology & Musings**

Old Madison East & West

Monday, June 30 & Tuesday, July 1 • 7:45 AM - 8:15 AM

## **Banquet and Awards Ceremony**

Great Hall

Wednesday, July 2 • 6:15 PM - 8:00 PM

## **Auction Event**

Great Hall

Wednesday, July 2 • 7:00 PM - 9:00 PM

## **The Mycological Society of America, Student and Postdoc Section Welcomes You to MSA 2025 in Madison, Wisconsin!**

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The Mycological Society of America (MSA) Student and Postdoc Section is a student and postdoc led group within MSA, which aims to (1) facilitate communication among all students and postdocs (SPS) of the Society, (2) provide opportunities for SPS to network with other individuals in their own research fields and beyond, and (3) connect SPS members of MSA with scientists performing cutting edge mycological research. Thus, the SPS has the potential to inspire future collaborations. For this year's annual meeting in Madison, WI, the SPS organized the morning coffee hours "Mycologists & Musings," a series of informal coffee half-hour meetings around mycologists. This informal setup will help students and other early career individuals be comfortable approaching their mycological heroes! Along with this main event, members are welcome to join us at the annual MSA SPS meeting and at our annual MSA SPS social. Our monthly newsletters, "Inoculum," have helped to keep student and postdoc members up to date with our events and MSA deadlines, including reminders for abstracts, award submissions, and spotlights. The SPS is an open and inclusive group which welcomes all graduate students, postdoctoral researchers, and faculty participation. We hope you can join us at future events!

## **Student and Postdoc Section Board Meeting**

Old Madison East & West

Sunday, June 29 • 5:30 PM-6:30 PM

## **Mycologists & Musings**

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This event is sponsored by the Student and Post Doc Section of MSA. It is scheduled from 7:45 AM - 8:15 AM on Monday and Tuesday in Old Madison East & West. Members will be interviewing and listening to mycologists on their struggles and successes of their career paths.

## Auction Events

The 2025 MSA Auction will be held on Wednesday, July 2 from 7:00 PM - 9:00 PM in the Great Hall in conjunction with the Annual Banquet and Social. It will be in person, and have both a live and silent component and is hosted by our renowned auctioneer and esteemed mycologist, David Geiser.

The evening consists of:

- Our action-packed live auction
- Our colorful silent auction

Did you bring an auction item with you to the Annual Meeting? Drop off your item on Monday or Tuesday at the MSA registration desk located in the Langdon and Capital View room, located on the fourth floor.

Plan to join the fun! Bid high, bid often!

## Madison, Wisconsin

The weather during the event will be in the 75-85 degree range Fahrenheit and lows in the lower 60 degree range. We recommend bringing a jacket or sweater to the conference each day, as the meeting rooms might get chilly. The same attire will be applicable in the evening when it is cooler. Be sure to check your favorite weather app for the most up to date weather information. Visit the [Destination Madison website](#) for information about Madison and things to do while you're at the conference!

## Share Your Photos

As you are at the events and are taking photos, we would love for you to share moments that you capture! You can upload photos you take during the event to our event photo sharing site. Remember our hashtag, **#MSAfungi25!**

MSA has created an upload directory for anyone wishing to share their **#MSAfungi25** photos. You can upload your photos to the site through [this link](#).

You can also use this QR code for uploading your photos and viewing others photos in the album:



Please note that by uploading your photos, you are giving MSA permission to share those photos with our attendees.

## Poster Presentation Guidelines

Poster presenters, please review the following guidelines and schedule:

- Posters will be presented on boards that are 4' high X 4' wide (1.22 X 1.22 meters). One poster will be displayed on each side of the poster board. **The size of your poster should not exceed 48" high X 48" wide (117 X 117 centimeters).**
- The boards will be numbered and MSA will provide push pins to hang your poster.
- Each presenter will also be assigned a number so you can hang up your poster on the corresponding board.
- You will need to make sure to hang up your poster prior to the session starting and take your poster down after the session ends. Please refer to the schedule below.
- Any posters that are left hanging on the boards will be taken down by a conference team member.

## Poster Schedule

### Poster Session 1

Monday, June 30, 2025 in the Great Hall  
Poster Setup Time: 3:30 PM – 5:30 PM  
Poster Viewing: 5:30 PM – 7:00 PM  
Author Present: 5:30 PM – 7:00 PM  
Poster Tear Down Time: 7:00 PM – 7:30 PM

### Poster Session 2

Tuesday, July 1, 2025 in the Great Hall  
Poster Setup Time: 3:30 PM - 5:30 PM  
Poster Viewing: 5:30 PM - 7:00 PM  
Author Present: 5:30 PM - 7:00 PM  
Poster Tear Down Time: 7:00 PM - 7:30 PM

## Oral Presentation Guidelines

Presenters, please make note of the following guidelines:

- Bring two copies of your presentation, in case of storage or media failure. Bring your file on a thumb drive as the AV team onsite will be prepared to accept a thumb drive and there will be adapters provided. Copy your presentation to the computer in the Session Room where you are presenting. There may be a thumb drive in the presentation room if you forgot yours, but there is no guarantee that there will be one.
- If you are presenting in the morning, you must load your talk prior to the start of the 8:00 AM morning presentations or during the morning breaks.
- If you are presenting in the afternoon, you must load your talk before the end of the lunch break.
- Check-in with the session chair so that she/he knows you are present.
- Oral presentations are preferred in Microsoft PowerPoint in a 16:9 standard format. If you choose,

you may use the MSA 2025 PowerPoint Template located on the MSA website.

- Only Mac computers will be used in each session room.
- If you must use your own PC or Mac because of movie files, software demonstrations, or other situations that would prevent you from using the in-room Mac, please let us know before the start of the meeting. Be prepared to change computers quickly.
  - » Please note that connection time will be subtracted from your allotted speaking time.
  - » You must provide any needed converters or adapters.
  - » You are advised to bring your own laser pointer (and remote if using your own laptop).
- Do not plan to use internet service for any portion of your presentation; do not rely on internet service to download your presentation.

## Special Facilities and Important Resources

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We have established a lactation room and quiet room as well as a gender-neutral restroom, for the duration of the meeting. If interested in using the lactation room or quiet room, please stop by the MSA registration desk to obtain a key.

Please reach out to any MSA staff person or volunteer on-site for more information. MSA celebrates and aspires to grow our diversity, and to offer an inclusive, safe, and welcoming meeting environment.

## Stay Healthy!

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Nothing is worse than getting sick while traveling! Here are some tips that you can do to reduce your chances of catching anything while at the meeting, and to help prevent the spread of illness.

- Wash your hands often with soap and water! This is one of the most effective ways to stop the spread of germs. You should vigorously wash with soap and hot water for at least 20 seconds.
- If water and soap are not available, use an alcohol based hand sanitizer.
- Wave, don't shake! During cold and flu season, it is perfectly OK to forgo handshaking and hugs in favor of a wave or even a "fist-bump".
- Avoid touching your eyes, nose and mouth. This is one of the most common ways that germs are spread. This is especially important if you have come into contact with someone who might be ill or is displaying cold or flu symptoms.
- Do not cough or sneeze into your bare hands. Use a tissue then dispose of it! If you don't have a tissue, cough or sneeze into your elbow. Always wash or sanitize your hands after coughing, sneezing or

blowing your nose!

- Avoid close contact with people who are sick (have a fever or cough). If you think that you might be sick, limit your contact with others to keep from spreading illness. Please stay in your hotel room. If you have a sustained fever, cough, or shortness of breath, please contact the hotel or our staff to obtain medical treatment.
- It is OK to use Disinfecting Wipes to clean the surfaces in your hotel room. Portable packs are available at local pharmacies and stores in the area of the hotel.
- If you are traveling from outside of the United States, please consider purchasing a travelers' medical insurance policy.
- Please note that our meeting will follow the applicable health and safety guidelines and mandates from the CDC.

## Stay Safe!

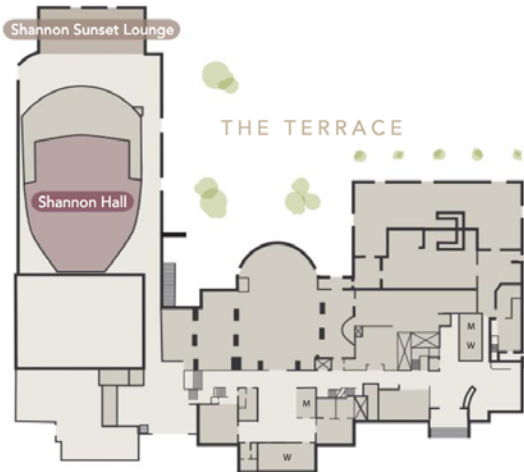
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To ensure the safety and security of our attendees and guests, we have composed the following list of safety tips and guidelines for this conference.

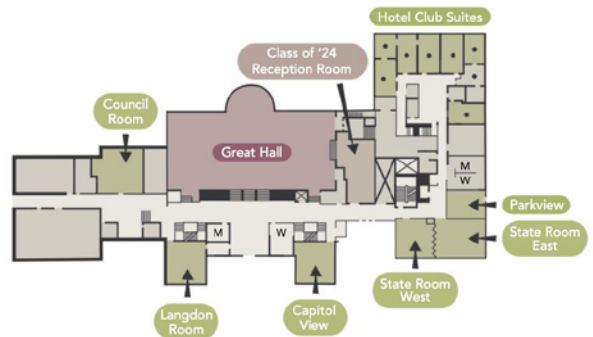
- When inside the conference venue, name tags should be worn and visibly displayed at all times. (Access to the conference is strictly for members and registered conference guests.)
- For security reasons, we recommend that you DO NOT wear your badge outside of the conference venue. If you lose your badge, please notify the MSA staff at the registration desk in the hotel lobby.
- Never give your hotel room information to someone you don't know. Do not open your hotel room door to anyone you don't know or recognize.
- Store your electronics, passport, and personal valuable items in your room safe or a hotel lock box when you are not in your room.
- If you are exploring, let someone know where you are going, who you will be with, and what time you expect to return. Avoid walking alone to and from the conference venue, especially at night.
- Please do not leave any bags or articles unsecured in any meeting room, or hotel public areas. Unattended items may be removed and secured by our security team.
- Access to the conference is strictly for members and registered conference guests.
- Attendees at this conference are expected to maintain a level of decorum appropriate to the nature and purpose of our meeting. While exchange and debate is welcome where appropriate, any person who is disruptive or abusive in language or manner will be removed and barred from further conference proceedings.

# UW-Madison Memorial Union Maps

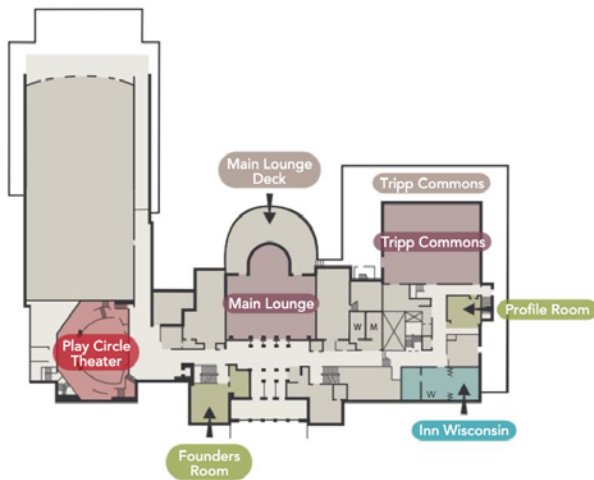
## First Floor



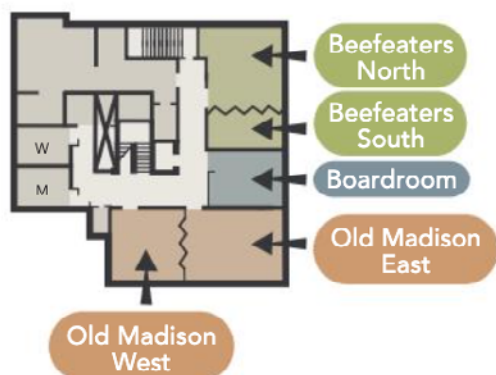
## Fourth Floor



## Second Floor



## Third Floor



## Map to Wisconsin Historical Society



# Schedule of Events

## Saturday, June 28, 2025

8:00 AM-4:00 PM

### **Pre-Conference Session: SuilluCamp**

*Pre-registration and payment required. Morning and afternoon refreshments and lunch will be provided.*

Old Madison East & West

9:00 AM-4:00 PM

### **MSA Council Meeting**

Beefeaters North & South

## Sunday, June 29, 2025

7:30 AM-4:00 PM

### **MSA Annual Foray**

*Pre-Registration is required. Attendees are encouraged to be at the bus pickup location at 7:30 AM for an 8:00 AM departure. Lunch will be provided. All participants must complete a waiver, [downloadable here](#).*

Black Hawk Ridge (Foray Site)

3:00 PM-6:30 PM

### **Registration**

### **Badge Pickup and On-Site Registration**

Main Lounge

3:00 PM-6:30 PM

### **Auction Item Drop-Off**

Langdon & Capital View

4:30 PM-5:30 PM

### **SPORES Meeting**

*All SPORES mentors and mentees are encouraged to attend this session. This networking event will go over the SPORES program, allow mentors and mentees to interact.*

Beefeaters North & South

5:30 PM-6:30 PM

### **Student and PostDoc Session Board Meeting**

Old Madison East & West

5:30 PM-7:30 PM

### **MSA Welcome Reception**

Tripp Commons

## Monday, June 30, 2025

7:30 AM-6:00 PM

### **Registration**

### **Badge Pickup and On-Site Registration**

Main Lounge

7:30 AM-6:00 PM

### **Auction Items Drop Off**

Langdon & Capital View

7:45 AM-8:15 AM

### **Mycologists & Musings**

Old Madison East & West

8:15 AM-8:30 AM

### **MSA Opening Session: Welcome and Opening Remarks**

Shannon Hall

8:30 AM-9:30 AM

### **MSA 2025 Presidential Address**

### **The Quest for Origins in Fungi;**

### **Timothy James, University of Michigan**

Shannon Hall

9:30 AM-10:00 AM

### **Morning Break**

Sunset Lounge

10:00 AM-12:00 PM

### **Symposium 1: Future Fungaria: Re-envisioning the Roles and Curation of Biological Collections in an Age of Increasing Need and Decreasing Resources**

*Chair: Todd Osmundson, University of Wisconsin, LaCrosse*

Shannon Hall

*"Curated decay, or the decay of curation?"*

Caitlin DeSilvey, University of Exeter

*"Too big to fail: new directions and old specimens at the University of Michigan Fungarium"*

Timothy James, University of Michigan

*"Data is not the destination: culture and community science"*

Christian Schwarz, Norris Center for Natural History, UC Santa Cruz

"Evaluating the future of fungaria: What are the opportunities for future success?"

Andrew Wilson, Denver Botanic Gardens

"A strategic approach to protecting fungal collections and associated data"

Barbara Thiers, The New York Botanical Garden

10:00 AM-12:00 PM

## **Symposium 2: Mobile Genetic Elements and Their Role in Fungal Diversity and Evolution**

Chair: Emile Gluck-Thaler, University of Wisconsin, Madison; Co-Chair: Alexandra Weisberg, Oregon State University

Historical Society Auditorium

"Mobile genetic elements in the evolution of the fungal pathogen *Sphaerulina musiva*"

Alex Zaccaron, Oregon State University

"Horizontal transfer of accessory chromosomes in fungi – a regulated process for exchange of genetic material?"

Michael Habig, Kiel University

"Diversity, evolution regulation of transposable elements in *Glomeromycotina*"

Nicolas Corradi, University of Ottawa

"Dispensable mini-chromosomes in blast pathogens"

Sanzhen Liu, Kansas State University

"Giant transposons as a crucible of evolution"

Aaron Vogan, Uppsala University

"New computational toolkits for exploring Starship biology"

Samuel O'Donnell, Department of Plant Pathology, University of Wisconsin-Madison

12:00 PM-2:00 PM

## **Lunch Break (On Your Own)**

12:30 PM-1:45 PM

## **Lunch Time Session 1: Fungi and Intellectual Property**

Gain practical guidance to navigate the Intellectual Property landscape, including procurement, enforcement, and capitalization of patents, trademarks, copyright, and build a legally enforceable portfolio.

Old Madison East & West

12:30 PM-1:45 PM

## **Lunch Time Session 2: NSF Information Session**

As space is limited, we encourage only PIs or those who will be applying to NSF in the near future to attend.

Multicultural Greek Council

2:00 PM-3:30 PM

## **Parallel Session 1-1: Fungal and Global Change**

Session Chair: Joshua Fowler, University of Colorado Boulder

Shannon Hall

2:00 PM-2:15 PM

"Increasing prevalence of plant-fungal symbiosis across two centuries of environmental change"

Joshua Fowler, University of Colorado Boulder

2:15 PM-2:30 PM

"Warming and reduced rainfall alter fungal necromass decomposition rates and associated microbial community composition and functioning at a temperate-boreal forest ecotone"

Anahi Cantoran, University of Minnesota

2:30 PM-2:45 PM

"Annual grass invasion is associated with differences in the community structure and abundance of biocrusts and arbuscular mycorrhizal fungi"

Rachel Berner, Washington State University

2:45 PM-3:00 PM

"Ectomycorrhizal fungal communities influencing long-term tree growth in the Alaskan Boreal"

Peter Pellitier, Stanford University

3:00 PM-3:15 PM

"Glaciers as natural biobanks: cultivable fungal diversity in Styx Glacier and their genomic insights"

Ji Seon Kim, Seoul National University

3:15 PM-3:30 PM

"Invasive golden oyster mushrooms are disrupting native fungal communities and expanding their North American range"

University of Wisconsin, Madison



2:00 PM-3:30 PM

**Parallel Session 1-2: From Genes to Metabolites**

Session Chair: Justin Eagan, University of Wisconsin, Madison

Play Circle Theater

2:00 PM-2:15 PM

"Environmental impacts on differential gene expression and metabolite production in the amphibian gut fungus *Basidiobolus*"

Kimberly Syring, Oregon State University

2:15 PM-2:30 PM

"Comparative metabolomics of *Pseudogymnoascus*"

Abigail Ireland, University of Tennessee, Knoxville

2:30 PM-2:45 PM

"Heavy metal tolerance in the ectomycorrhizal fungus *Suillus tomentosus*"

Jessica Fletcher, University of Colorado, Denver

2:45 PM-3:00 PM

"A survey of fungal small secreted protein expression in the aspen soil microbiome"

Keaton Tremble, Duke University

3:00 PM-3:15 PM

"Addition by subtraction: genetic dereplication of *Penicillium expansum* reveals production of a cryptic cyclopeptide"

Justin Eagan, University of Wisconsin, Madison

3:15 PM-3:30 PM

"Genetic and evolutionary mechanisms of context-dependency in an ancient plant-fungal symbiosis"

Gwendolyn Pohlmann, University of California, Santa Barbara

2:00 PM-3:30 PM

**Parallel Session 1-3: Latest Methodologies for Fungal Studies**

Session Chair: Haihua Wang, University of Florida, Gainesville

Historical Society Auditorium

2:00 PM-2:15 PM

"Towards a stable, whole-genome-based digital taxonomy of fungi using life identification numbers"

Hayden Johnson, Oregon State University

2:15 PM-2:30 PM

"MicroFisher: Fungal taxonomic classification for metatranscriptomic and metagenomic data using hypervariable markers"

Haihua Wang, Department of Soil, Water, and Ecosystem Sciences, University of Florida, Gainesville, FL, USA.

2:30 PM-2:45 PM

"Dspikein highlights the bridging and indirectly stabilizing role of *Basidiobolus* in gut microbiomes"

Mitra Ghotbi, Department of Biology, Middle Tennessee State University

2:45 PM-3:00 PM

"Synthetic spike-in metabarcoding for plant pathogen diagnostics results in precise quantification of copy number within the genus *Fusarium*"

Peter Oppenheimer, North Carolina State University

3:00 PM-3:15 PM

"Using AI to systematically review fungal endophyte literature: do all plants really host fungi?"

Beatrice Bock, Northern Arizona University

2:00 PM-3:30 PM

**Parallel Session 1-4: Beyond species: Ecological Properties that Shape Mycorrhizal Fungal Communities**

Session Chair: Laura Nevins, Washington State University Old Madison East & West

2:00 PM-2:15 PM

"From disruption comes order: plant-mycorrhizal fungal networks show stability with allelopathic invasion"

Sean O'Gorman, University of Tennessee Knoxville

2:15 PM-2:30 PM

"Novel Bayesian network models to characterize host-microbe-environment interactions"

Claudia Solis-Lemus, University of Wisconsin-Madison

2:30 PM-2:45 PM

"Rooted in richness: Unraveling the role of neighborhood effects on mycorrhizal fungal communities in eastern North American white oaks (section *Quercus*)"

Kathleen Thompson, University of Minnesota-Twin Cities

2:45 PM-3:00 PM

"Shifting our focus to belowground phenology: high frequency community analysis of ectomycorrhizas associated with two temperate tree species"  
Kelsey Patrick, University of Illinois Chicago

3:00 PM-3:15 PM

"Stochastic vs. deterministic – ectomycorrhizal fungal diversity tracks Goldilocks effect theory for stochastic variability in soil moisture"  
M. Dylan Taylor, University of New Mexico

3:15 PM-3:30 PM

"The impact of trait variation and mycorrhizal fungal associations on native tree performance in a Washington old growth forest"  
Laura Nevins, Washington State University

3:30 PM-5:30 PM

### **Afternoon Break**

Sunset Lounge

4:00 PM-5:30 PM

### **Poster Setup**

Great Hall

4:00 PM-5:30 PM

### **Parallel Session 2-1: Fungal Evolutionary Processes**

Session Chair: Noha Youssef, Oklahoma State University  
Shannon Hall

4:00 PM-4:15 PM

"Tracing the evolutionary history behind the emergence of two pandemic plant diseases: Wheat Blast and Gray Leaf Spot"  
Mostafa Rahnama, Tennessee Tech University

4:15 PM-4:30 PM

"Elucidating the evolutionary history of *Neocallimastigomycota*"  
Noha Youssef, Oklahoma State University

4:30 PM-4:45 PM

"Evolutionary processes driving chemodiversity in *Psilocybe*"  
Matthew Meyer, The Ohio State University

4:45 PM-5:00 PM

"Pigment loss and melanin mutations are associated with the unintentional domestication of a cheese-associated *Penicillium*"  
Nicolas Louw, Tufts

5:00 PM-5:15 PM

"The ecological diversification of lichen symbioses"  
Matthew Nelsen, The Field Museum, Negaunee Integrative Research Center

5:15 PM-5:30 PM

"The evolution of *Thecaphora frezzii*, causal agent of peanut smut, in response to host selection pressure"  
Rachel Koch Bach, USDA-ARS, Foreign Disease Weed Science Research Unit

4:00 PM-5:30 PM

### **Parallel Session 2-2: Systematics: Ascomycota**

Session Chair: Chase Mayers, Cornell University  
Play Circle Theater

4:00 PM-4:15 PM

"Dramatic expansion of a cluster of extracellular phospholipase genes may ecologically define the genus *Ceratocystis*"  
Chase Mayers, Cornell University

4:15 PM-4:30 PM

"New insights into molecular phylogeny of emerging foliar pathogenic fungi associated with anthracnose, brown blight, and gray blight of tea in Sri Lanka"  
Dhanushka Udayanga, Sri Lanka Institute of Information Technology

4:30 PM-4:45 PM

"Sequencing of global *Penicillium* isolates recaptures speciation in Fleming's fungus and related species"  
Anne Hatmaker, University of Minnesota

4:45 PM-5:00 PM

"The biogeography and systematics of xylariaceous fungi on Polynesian Islands"  
Michael Malone, University of Wisconsin- La Crosse

5:00 PM-5:15 PM

"Where do we belong? enigmatic phylogenomic placement of *Laboulbeniomycetes* within *Pezizomycotina*"  
Alisha Quandt, The University of Colorado Boulder

5:15 PM-5:30 PM

"Sniffing for fungi: use of a conservation dog uncovers high regional truffle diversity"  
Heather Dawson, University of Oregon

4:00 PM-5:30 PM

### **Parallel Session 2-3: Patterns and Mechanisms of Fungal Community Assembly**

Session Chair: Abigail Neat, Oregon State University  
Historical Society Auditorium

4:00 PM-4:15 PM

"The interplay of drought stress and plant age in *Sorghum* root mycobiome assembly"  
Xiomy Pinchi Davila, University of Georgia

4:15 PM-4:30 PM

"Testing the stress gradient hypothesis with plant-microbial interactions across a temperate elevation gradient"  
Abigail Neat, Oregon State University

4:30 PM-4:45 PM

"Mean annual precipitation primarily structures leaf, root, and soil fungal communities in remnant and post-agricultural prairies along a steep Midwest precipitation gradient"  
Hannah Dea, Kansas State University

4:45 PM-5:00 PM

"Host genetic control shapes niche-specific arbuscular mycorrhizal fungal assembly in *Sorghum* field"  
Busayo Babalola, Department of Plant Biology and Plant Pathology, University of Georgia

5:00 PM-5:15 PM

"Common mycorrhizal networks mediate intraspecific and interspecific interactions of invasive Canada thistle (*Cirsium arvense*) and native pasture thistle (*Cirsium discolor*)"  
Joanna Weremijewicz, North Central College

5:15 PM-5:30 PM

"Symbiont-mediated mechanisms of *Pinus taeda* and its root mycobiome in response to soil heavy metal contamination"  
Haihua Wang, Department of Soil, Water, and Ecosystem Sciences, University of Florida

4:00 PM-5:30 PM

### **Parallel Session 2-4: Fungi in Agroecosystems**

Session Chair: Hayley Richardson, Oregon State University  
Old Madison East & West

4:00 PM-4:15 PM

"Friends in low places: exploring the impact of rhizospheric fungi on disease suppression in winter wheat"  
Hayley Richardson, Oregon State University

4:15 PM-4:30 PM

"Field test of novel 3D-printed mycorrhizal reduction cores with *Pseudotsuga menziesii* seedlings in the Pacific Northwest"  
Joseph Gagne, Oregon State University

4:30 PM-4:45 PM

"Insights into the diversity of the bean root rot complex"  
Irene Blanco Casallas, Michigan State University

4:45 PM-5:00 PM

"Pathogenic and non-pathogenic fungi associated with cultivated and wild cacao in the Peruvian Amazon – the revenge"  
Jorge Ronny Diaz Valderrama, Universidad Nacional Toribio Rodríguez de Mendoza de Amazonas

5:00 PM-5:15 PM

"Rewilding of palm oil plantations leads to soil fungal diversification"  
Geoffrey Zahn, College of William & Mary

5:30 PM-7:00 PM

### **Poster Session 1**

Great Hall

7:00 PM-8:30 PM

### **Student and Post Doc Section Social**

Tripp Commons



7:30 AM-6:00 PM

**Registration**

**Badge Pickup and On-Site Registration**

Main Lounge

7:30 AM-6:00 PM

**Auction Item Drop-Off**

Langdon & Capital View

7:45 AM-8:15 AM

**Mycologists & Musings**

Old Madison East & West

8:15 AM-8:30 AM

**Daily Announcements**

Shannon Hall

8:30 AM-9:30 AM

**MSA 2025 Karling Lecture**

**Carnivorous Fungi: From Molecules to Ecosystems;**

**Yen Ping Hsueh, Max Planck Institute**

Shannon Hall

9:30 AM-10:00 AM

**Morning Break**

Sunset Lounge

10:00 AM-12:00 PM

**Symposium 3: Fungal bacterial frenemies: interaction biology, evolution, and applications**

*Chair: Jesse Uehling, Oregon State University;*

*Co-Chair: Nhu Nguyen, University of Hawaii at Manoa;*

*Co-Chair: Nancy Keller, University of Wisconsin, Madison*

Shannon Hall

"Understanding *Basidiobolus*-bacterial interactions using a stabilized microbiome model"

Daniel Farthing, Department of Botany and Plant Pathology, Oregon State University

"Evaluating the role of bacterial endosymbionts in evolution and diversity of plant-associated *Mucoromycota* fungal communities"

Daniyal Gohar, Oregon State University

"Tracking mycorrhizal carbon flow into hyphosphere microbial communities using stable isotope probing"

Erin Nuccio, Lawrence Livermore National Lab

"Fungal lactone interference of bacterial quorum sensing: a driving force in microbiome community dynamics?"

Ben Haefner, University of Wisconsin - Madison

"Quantitative stable isotope probing (qSIP) and cross-domain networks reveal fungal-bacterial interactions in the hyphosphere"

Giovana Slanzon, University of Hawai'i at Mānoa

"The fate of bacteria-fungi-plant symbioses in a changing world: why it matters and what we can do about it"

Louis Berrios, Stanford University

10:00 AM-12:00 PM

**Symposium 4: Underground Explorers: Supporting Mycorrhizal Researchers Working in the Most Underexplored Ecoregions Around the World**

*Chair: Adriana Corrales, Co-chair: Candice Y. Lumibao*

Historical Society Auditorium

"Underground explorers: supporting mycorrhizal researchers working in the most underexplored ecoregions around the world"

Adriana Corrales, SPUN

"Demystifying underground mycobiome in the Gulf Coast prairie dunes in barrier islands through science and educational outreach"

Candice Y. Lumibao, Texas A&M University, Corpus Christi

"Exploring fungal diversity in agricultural and wild landscapes: Implications for ecosystem health in Honduras"

Evelin Yulisa Reyes Mendez, Louisiana State University

"Drought drives differential legacy effects of altered soil fungal communities across a grassland precipitation gradient"

Jordan "Alex" Siggers, Colorado State University

"Do local arbuscular mycorrhizal fungi benefit endangered nānū trees?"

Allie Hall, University of Hawaii at Manoa

12:00 PM-2:00 PM

**Lunch Break (On Your Own)**

12:30 PM-1:45 PM

**Lunch Session 3: Mycologia Editors Meeting**

Old Madison East & West

12:30 PM-1:45 PM

#### **Lunch Session 4: DEI**

*The DEI committee will report on efforts from 2024-2025. The event will have a panel and keynote discussion on mental health challenges across all stages of academic life in STEM, aiming to raise awareness of burnout and psychological distress, provide tools for recognition and support, and foster a culture of care within the MSA community.*

Multicultural Greek Council

2:00 PM-3:00 PM

#### **University Lectureship by Dr. Cobus Visagie, University of Pretoria**

Multicultural Greek Council

2:00 PM-3:30 PM

#### **Parallel Session 3-1: Mechanisms of Fungal-Bacterial Interactions**

*Session Chair: Ben Haefner, University of Wisconsin, Madison*

Shannon Hall

2:00 PM-2:15 PM

"The fungal microbiome: discovering and investigating novel endohyphal inhabitants"  
Julia Kelliher, Los Alamos National Laboratory

2:15 PM-2:30 PM

"Dissecting rhizosphere bacterial-fungal interactions using metabolic phenotyping"  
Buck Hanson, Los Alamos National Laboratory

2:30 PM-2:45 PM

"Form, function, or family: What drives bacterial community assembly in *Pezizales* ascomata?"  
Judson Van Wyk, Department of Plant, Soil and Microbial Sciences, Michigan State University

2:45 PM-3:00 PM

"A fungal innate immune response in *Neurospora crassa* revealed upon bacterial co-culture with *Pseudomonas syringae*"  
Frances Stark, University of California at Berkeley

3:00 PM-3:15 PM

"Characterizing the pathobiome of *Fusarium oxysporum* f. sp. *vasinfectum* race 4: effects of microbial interactions on disease severity"  
Vanessa Thomas, Texas A&M Department of Plant Pathology and Microbiology

3:15 PM-3:30 PM

"*Mortierellaceae* transcriptomic and metabolic pathways involved in maintaining populations of endohyphal bacteria"  
Megan Korne, Department of Microbiology, Genetics, and Immunology, Michigan State University

2:00 PM-3:30 PM

#### **Parallel Session 3-2: Genomic Variation in Fungi**

*Session Chair: Carolina Piña Páez, University of California, Riverside*

Play Circle Theater

2:00 PM-2:15 PM

"Genomic variation and accessory gene dynamics in *Aspergillus fumigatus*"  
Carolina Piña Páez, University of California Riverside

2:15 PM-2:30 PM

"Comparative mitochondrial genomics of endophytic, saprotrophic, and pathogenic xylarialean fungi: How does trophic mode influence mitogenome evolution?"  
Ray Van Court, Washington State University

2:30 PM-2:45 PM

"Defining gene networks active during fungal-animal mutualism"  
Ross Joseph, University of Illinois, Chicago

2:45 PM-3:00 PM

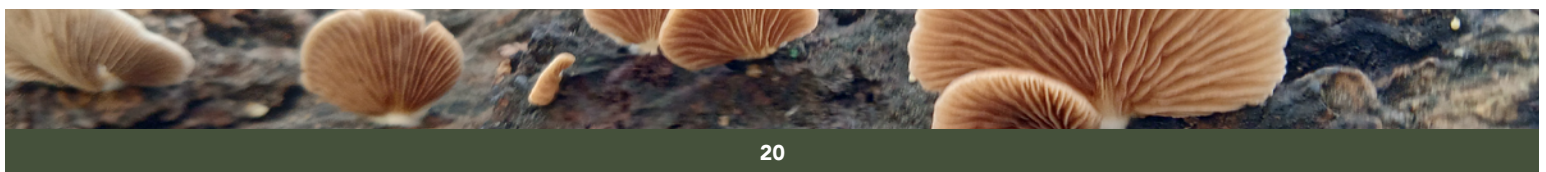
"Genome-wide analyses to delimit the *Smittium culicis* complex, a globally distributed group of insect gut fungi"  
Eric Wilson, Department of Ecology and Evolutionary Biology, University of Toronto, Canada

3:00 PM-3:15 PM

"Phylo- and pan-genomics of the *Laccaria bicolor* species complex reveal surprising conservation of the mycorrhizal toolkit"  
Keaton Tremble, Duke University

3:15 PM-3:30 PM

"Unraveling the *Basidiobolus* genome: cryptic genome organization and horizontal gene transfer"  
Lluvia Vargas Gastelum, Oregon State University



2:00 PM-3:30 PM

**Parallel Session 3-3: Fungi in the Phyllosphere**

Session Chair: *María-José Romero-Jiménez, Oregon*

*State University*

Historical Society Auditorium

2:00 PM-2:15 PM

"Quantifying the 'hyperdiversity' of foliar fungal endophytes in the tropics"

Ryoko Oono, University of California, Santa Barbara

2:15 PM-2:30 PM

"Foliar microbial community trends reveal potential symbionts, competitors, and opportunists in the beech leaf disease pathosystem"

Allison Humbert, State University of New York College of Environmental Science and Forestry

2:30 PM-2:45 PM

"Fungal endophyte communities in galled oak leaves: Stability in leaves, divergence in galls"

Christopher Bivins, University of California, Merced

2:45 PM-3:00 PM

"Using knockouts to test the role of leaf waxes in fungal establishment of leaf surfaces"

María-José Romero-Jiménez, Department of Botany and Plant Pathology, Oregon State University

3:00 PM-3:15 PM

"Hemp microbiome composition and function under developing pest management solutions"

Natalie Christian, University of Louisville

3:15 PM-3:30 PM

"How fungal endophyte communities colonize and alter plant host chemistry in the wildflower white snakeroot"

Noelle Visser, University of Louisville

2:00 PM-3:30 PM

**Parallel Session 3-4: Mechanism and Consequences of Fungal Sex**

Session Chair: *Yi-Hong Ke, University of Michigan*

Old Madison East & West

2:00 PM-2:15 PM

"Can sex maintain an addictive virus in yeast populations?"

Primrose Boynton, Wheaton College

2:15 PM-2:30 PM

"Fitness consequences of loss of heterozygosity in *Saccharomyces cerevisiae*"

Yi-Hong Ke, University of Michigan

2:30 PM-2:45 PM

"Non-coding sequence conservation negatively correlates to the rates of gene expression evolution and sheds light on the evolution of *Sordariomycetes*"

Yen-Wen Wang, Yale School of Public Health

2:45 PM-3:00 PM

"Population genetic structure, mating and admixture in *Rhizoctonia solani* AG1-1B"

Jackson Cooper, Center for Integrated Fungal Research, Department of Entomology and Plant Pathology, North Carolina State University

3:00 PM-3:15 PM

"Sex differences during spore-mediated infections in a mouse model of cryptococcosis"

Sehrish Afsheen, University of Wisconsin, Madison

3:15 PM-3:30 PM

"The (mis)use of sex categories in fungi"

Soleil Young, University of Wisconsin, Madison

3:30 PM-4:00 PM

**Afternoon Break**

Sunset Lounge

3:30 PM-5:30 PM

**Poster Setup**

Great Hall

4:00 PM-5:30 PM

**Parallel Session 4-1: MycoFlash: Advances in Fungal-Animal Associations**

Session Chair: *Gregory Biddle, West Virginia University*

Shannon Hall

4:00 PM-4:10 PM

"A novel protocol for screening environmental fungi as possible human pathogens"

Gregory Biddle, West Virginia University

4:10 PM-4:20 PM

"Anaerobic gut fungal communities in ostriches (*Struthio camelus*)"

Julia Vinzelj, Oklahoma State University

4:20 PM-4:30 PM

"Assessment of sea turtle egg fusariosis (STEF) in olive ridley (*Lepidochelys olivacea*) nests at Abacoa" Beach, Arecibo, Puerto Rico

Yahir Cuevas Soto, University of Puerto Rico

4:30 PM-4:40 PM

"Characterization of the reptile and amphibian gut bacteriome and mycobiome; discovery of undescribed *Basidiobolus* diversity"  
Alexander J. Rurik, Department of Biology, Middle Tennessee State University

4:40 PM-4:50 PM

"Fungal furry friends: Understanding the usage of detection dogs in mycological research"  
Claire Yager, Cornell University

4:50 PM-5:00 PM

"Investigating fly behavioral manipulation by *Entomophthora muscae* through proteomics"  
Julius Tabin, Harvard University

5:00 PM-5:10 PM

"Microbiome of North American ash for biocontrol of emerald ash borer"  
Claire Yager, Cornell University

5:10 PM-5:20 PM

"The influence of *Basidiobolus* on the gut microbiome of an amphibian in a live animal inoculation experiment"  
Jason Dallas, Middle Tennessee State University

5:20 PM-5:30 PM

"Uncovering seed-handling and nest benefits in an eastern North American ant-plant seed dispersal mutualism"  
Julian Marshall, Binghamton University

4:00 PM-5:30 PM

#### **Parallel Session 4-2: MycoFlash: Advances in Fungal Community Ecology**

Session Chair: Connor Morozumi, University of Louisville  
Play Circle Theater

4:00 PM-4:10 PM

"Fungal communities within *Ammophila breviligulata* respond to *Epichloë* inoculation and nitrogen fertilization"  
Connor Morozumi, University of Louisville

4:10 PM-4:20 PM

"Arbuscular mycorrhizal fungal nitrogen patch use choice"  
Xin Lin, The Ohio State University

4:20 PM-4:30 PM

"Differences in ectomycorrhizal community guilds between co-occurring *Pinus* and *Quercus* species in Sierra Nevada foothills"  
Kanchan Gautam, California State University, Fresno

4:30 PM-4:40 PM

"Effect of prescribed fire on post-wildfire diversity of soil fungi"  
Kathryn Anderson, California State University, Chico

4:40 PM-4:50 PM

"Identifying the symbiotic fungi of the endangered ram's-head lady slipper orchid in Nova Scotia, Canada"  
Katie King, Acadia University

4:50 PM-5:00 PM

"Inoculation with native mycorrhizal fungi improves native plant establishment and reduces non-native encroachment in a grassland restoration"  
Tanya Cheeke, Washington State University

5:00 PM-5:10 PM

"On-going studies of the ectomycorrhizal fungi of coastal Maine and its islands"  
Peter G Avis, University of Maine

5:10 PM-5:20 PM

"Prevalence of dual mycorrhizal associations in temperate hardwood trees of a Midwestern forest"  
Kathryn Maley, Department of Botany and Plant Pathology, Purdue University

5:20 PM-5:30 PM

"Recent advances in fungal diversity, distribution, and adaptations in Antarctic soils"  
Alisha Quandt, The University of Colorado, Boulder

4:00 PM-5:30 PM

#### **Parallel Session 4-3: MycoFlash: Advances in Fungal Biology**

Session Chair: Nicole Reynolds, California State Polytechnic University  
Historical Society Auditorium

4:00 PM-4:10 PM

"Structure of *Mucoromycota* fungal communities and their associated endosymbiotic bacteria across two different biomes in the U.S. and Israel"  
Nicole Reynolds, California State Polytechnic University, Pomona

4:10 PM-4:20 PM

"Beyond the reference strain: A fresh look at *Candida albicans* adhesion"

Liza Loza, University of Wisconsin, Madison

4:20 PM-4:30 PM

"Scaling DNA barcoding of historical macrofungal collections: From Michigan to California"

Stephen Russell, Mycota Lab

4:30 PM-4:40 PM

"Fungal culture versus DNA metabarcoding in the search for fungal symbioses: what should you do?"

James Skelton, College of William and Mary

4:40 PM-4:50 PM

"Non-destructive Raman spectroscopy imaging of the arbuscular mycorrhizal fungal-plant interaction"

Alison Bennett, Department of Evolution, Ecology, and Organismal Biology

4:50 PM-5:00 PM

"Predicting wheat grain mycotoxin contamination using mycobiome colonization patterns"

Briana Whitaker, USDA-ARS

5:00 PM-5:10 PM

"Shifts in *Sphagnum* fungal communities and metabolomes with senescence elucidate the impact of host chemistry on fungal-mediated decomposition"

Megan Nickerson, Washington State University

5:10 PM-5:20 PM

"The *Dictyostelium* host-pathogen model enables high-throughput screening of virulence traits in pathogenic *Mucorales*"

Andreas Guerrero, Oregon State University

5:20 PM-5:30 PM

"Zoospore fungi contain large DNA viruses"

Jillian Myers, University of Michigan

4:00 PM-5:30 PM

#### **Parallel Session 4-4: MycoFlash: Advances in Fungal Functional Genomics**

Session Chairs: Aaron Robinson, Los Alamos National Laboratory

Old Madison East & West

4:00 PM-4:10 PM

"Genome-wide association studies and transcriptome analysis reveal the genetic mechanisms contributing to thermotolerance in *Neurospora discreta*"

Aaron Robinson, Los Alamos National Laboratory

4:10 PM-4:20 PM

"Aneuploidy-induced defects in ribosome quality control disrupt quiescence and aging in wild *S. cerevisiae*"

Leah Escalante, University of Wisconsin, Madison

4:20 PM-4:30 PM

"Characterization of gene expression patterns in the nematode-trapping mushroom *Hohenbuehelia mastrucata* in the presence of different nitrogen sources"

Prasanth P Prabhu, Department of Biology, Clark University

4:30 PM-4:40 PM

"Discovering the effect of *Basidiobolus* on gene functions and abundance in the *Lithobates sylvaticus* gut microbiome"

Leila Shadmani, UCR

4:40 PM-4:50 PM

"Function and conservation of fungal inhibitor of apoptosis proteins"

Miette Hennessy, University of Wisconsin, Madison

4:50 PM-5:00 PM

"Genomic insights into secondary metabolism and assembly improvement in nineteen *Basidiobolus* isolates"

Liam Cleary, Clark University

5:00 PM-5:10 PM

"Targeting polarized growth in conidial germination of fungal species: a comparative genomics approach to antifungal drug discovery"

Viola Halder, Yale University

5:10 PM-5:20 PM

"What makes bioluminescent fungi glow?"

Xianfa Xie, Virginia State University

5:20 PM-5:30 PM

"Insights into the cryptic mating behaviour of chaga (*Inonotus obliquus*)"

Benjamin Bohemier, Lakehead University

5:30 PM-7:00 PM

#### **Poster Session 2**

Great Hall

7:00 PM-8:30 PM

#### **Volunteer Social**

Tripp Commons

7:15 AM-2:00 PM

**Registration**

Main Lounge

7:30 AM-2:00 PM

**Auction Item Drop-Off**

Langdon & Capital View

7:30 AM-9:15 AM

**Business Meeting & Student Awards Breakfast**

Great Hall

9:30 AM-11:30 AM

**Symposium 5: Growing the Mycology Network Through Education**

*Chair: Alejandro Rojas, Michigan State University;*

*Co-chair: Geoffrey Zahn, College of William and Mary*  
Shannon Hall

"Teaching mycology in Colombia and making fungi transversal in ecological research"

Adriana Corrales, SPUN

"Mycological education and outreach focused on zygomycete fungal biology"

Nicole Reynolds, California State Polytechnic University

"Research, education and outreach at an R2 liberal arts university: Expanding mycology to different scales of education"

Javier Tabima, Clark University

"The power of expanding fungal networks through mentorship and outreach"

Xiomy Janiria Pinchi Davila, University of Georgia

"Integrating 4DEE and the FEW Nexus into mycology education: scalable approaches for teaching soil fungal diversity in conservation science"

Danielle Sublett, College of the Sequoias

9:30 AM-11:30 AM

**Symposium 6: Fungal Futures, Indeed: Climate Change and the Threats of Mycotoxigenic Fungi**

*Chair: Joan Bennett, Rutgers University*

Historical Society Auditorium

"Primary, secondary, and tertiary metabolites"

Joan Bennett, Rutgers University

"Unraveling the mycotoxin cocktail: *Fusarium* diversity and contamination in Eastern Cape Maize"  
Neriman Yilmaz Visagie, University of Pretoria, South Africa

"Ecological and evolutionary dynamics associated with mycotoxin variation in a pathogenic fungus"

Anne Hatmaker, University of Minnesota

"Climate change-induced volatilome alterations in *Penicillium* species: implications for mycotoxin threats and fungal ecological adaptation"

Guohua Yin, Qilu Institute of Technology

11:30 AM-1:00 PM

**Lunch Break (On Your Own)**

11:45 AM-12:45 PM

**Lunch Session 5: Navigating MycoCosm (Joint Genome Institute)**

*This workshop will highlight recent advancements, capabilities, and funding opportunities within the JGI Fungal & Algal Program, featuring a research presentation from a successful CSP project and a walkthrough of analytical tools in MycoCosm.*

Old Madison East & West

11:45 AM-12:45 PM

**Lunch Session 6: Getting Involved with MSA**

*Learn how you can directly participate and shape the future of MSA.*

Multicultural Greek Council



1:00 PM-2:30 PM

**Parallel Session 5-1: Systematics: Basidiomycota**

Session Chair: Cecilia Stokes, University of Wisconsin,

Madison

Shannon Hall

1:00 PM-1:15 PM

"Re-evaluation of *Hemileia coffeicola*, a pathogen of *Coffea* species"

Ana Perez Lopez, Universidad de los Andes

1:15 PM-1:30 PM

"What a mushroom leaves behind: The biodiversity and chemical ecology of native and invasive *Amanita phalloides*"

Cecelia Stokes, University of Wisconsin, Madison

1:30 PM-1:45 PM

"A contribution to the taxonomy and phylogeny of the genus *Pisolithus* (Boletales: *Sclerodermataceae*) in Mexico"

Miguel Iván Sandoval Islas, Instituto de Biología, UNAM

1:45 PM-2:00 PM

"Phylogenomic insights to the genus *Lentinus* and species recognition criteria in the allopatric lineage, *Lentinus tigrinus*"

Alexander Bradshaw

2:00 PM-2:15 PM

"The big enigma of *Laccaria laccata*"

Francesco Dovana, Università di Bari

2:15 PM-2:30 PM

"Global population genomics of *Psilocybe cubensis* reveal cryptic diversity and insights into its geographic origin"

Alexander Bradshaw

1:00 PM-2:30 PM

**Parallel Session 5-2: Fungi from the Deep: New Insights into Aquatic Fungi**

Session Chair: Yvonne Boesch, Stanford University

Play Circle Theater

1:00 PM-1:15 PM

"Seasonal dynamics and genomic insights into a novel planktonic *Cryptomycota* species"

Yvonne Boesch, Stanford University

1:15 PM-1:30 PM

"Coastal forested wetland soils are microbially primed for shrub growth"

Aeran Coughlin, Duke University

1:30 PM-1:45 PM

"Expanded genetic and functional diversity of oceanic fungi"

Xuefeng Peng, University of South Carolina

1:45 PM-2:00 PM

"First latitudinal profiling of PUFA and carotenoids in stramenopile organisms along the Chilean coast: influence of temperature and pH gradients"

Patricia Arancibia-Ávila, Universidad del Bío-Bío

2:00 PM-2:15 PM

"Functional genomics of seasonal wet meadow restoration in coastal California"

Itzel Lopez

2:15 PM-2:30 PM

"Fungal diversity across a depth and salinity gradient in the deep subsurface biosphere"

Quinn Moon, University of Michigan

1:00 PM-2:30 PM

**Parallel Session 5-3: Priority and Legacy of Fungal Community Succession**

Session Chair: Jeffrey Lackmann, North Dakota State University

Historical Society Auditorium

1:00 PM-1:15 PM

"Legacy effects in soil fungal communities 30 years after foundational plant removal in semiarid ecosystems"

Logan Novak, University of Georgia

1:15 PM-1:30 PM

"Legacy of repeated cultivation differentially drives fungal and bacterial community development in a tropical *Oxisol* soil"

Nhu Nguyen, University of Hawaii at Manoa

1:30 PM-1:45 PM

"Management regime and shade trees shaped decomposer fungal communities and impacted litter decomposition in an experimental coffee agroecosystem"

Jeffrey Lackmann, North Dakota State University

1:45 PM-2:00 PM

"Testing the generality of assembly order 'rules' during the decomposition of fungal necromass"

Eduardo Perez-Pazos, Department of Botany and Plant Pathology, Oregon State University

2:00 PM-2:15 PM

"Priority effects of foliar fungal endophytes in leaf litter decomposition"

Tawny Aerial Bolinas, California State University, Chico

1:00 PM-2:30 PM

**Parallel Session 5-4: Translational Mycology**

Session Chair: Jiwei Zhang, University of Minnesota  
Old Madison East & West

1:00 PM-1:15 PM

"Biomass-fungi composite materials and the future of sustainable 3D printing: challenges and opportunities"

Caleb Oliver Bedsole, Texas A&M University Plant Pathology & Microbiology

1:15 PM-1:30 PM

"Discovering the untapped fungal mechanisms in response to PFAS chemicals to tackle the "forever chemical" issue"

Jiwei Zhang, University of Minnesota

1:30 PM-1:45 PM

"Bioremediation potential of fungi in heavy metal-contaminated drylands"

Abigail Granath, University of New Mexico

1:45 PM-2:00 PM

"Designing communities of ectomycorrhizal fungi to understand phosphorus nutrition in loblolly pine"

Maria Higuera Aguirre, Department of Forestry and Environmental Resources, North Carolina State University

2:00 PM-2:15 PM

"Fungi, bacteria, and biochars walk into a hydrogel bead: how biodegradable microbial-char hydrogels impact soil health and plant growth in common wheat"

Korena Mafune, University of Washington

2:15 PM-2:30 PM

"Spectral dynamics in fungi: a novel biomarker for fungal electronics"

Michael Preston, University of California, San Diego

2:30 PM-3:00 PM

**Afternoon Break**

Sunset Lounge

3:00 PM-4:30 PM

**Parallel Session 6-1: Fungal Biogeography and the Spores that Make Them So**

Session Chair: Andrew Ratz, University of Minnesota  
Shannon Hall

3:00 PM-3:15 PM

"A story of spores across scales: how airborne fungi shape mushroom forecasting across the United States"

Andrew Ratz, University of Minnesota, Department of Plant and Microbial Biology

3:15 PM-3:30 PM

"Does spore shape predict ecological niches in *Amanita*?"

Jason Raiti, University of Wisconsin, Madison

3:30 PM-3:45 PM

"Exploring the conservation of asymmetric adhesion in *Colletotrichum*: Implications for spore dispersal"

Caleb Oliver Bedsole, Texas A&M University Plant Pathology & Microbiology

3:45 PM-4:00 PM

"Exploring the stress gradient hypothesis through fungal biofilm genes across US soils"

Eduardo Choreño, University of California, Irvine

4:00 PM-4:15 PM

"Fungal biogeography in homes: a global survey of house dust communities"

Jane Oja, University of Tartu

4:15 PM-4:30 PM

"Role and regulation of dispersal in an opportunistic pathogen, *Candida albicans*"

Eli Cytrynbaum, University of Wisconsin, Madison

3:00 PM-4:30 PM

**Parallel Session 6-2: From the Ashes: Post-Fire Dynamics of the Phoenicoid Fungi**

Session Chair: Haley Burrill, University of Oregon  
Play Circle Theater

3:00 PM-3:15 PM

"Litter decomposition in Oregon prairies depends on fire, with differential responses of saprotrophic and pyrophilous fungi and unexpected autoclave effects"

Haley Burrill, University of Oregon

3:15 PM-3:30 PM

"Changes in the relative abundance of fungal mutualists and plant pathogens after high severity wildfire affect seedling growth and coexistence in coast redwood forests"

Caroline Daws, Outer Coast

3:30 PM-3:45 PM

"Fuel buildup shapes post-fire fungal communities and their relative importance to subsequent fuel decomposition"

Benjamin Sikes, Department of Ecology and Evolutionary Biology

3:45 PM-4:00 PM

"Linking microbial resilience and ecosystem recovery: a five-year study following a California chaparral wildfire"

M. Fabiola Pulido Barriga, University of California-Irvine

4:00 PM-4:15 PM

"Soil fungal responses to short fire return intervals in Southern California's chamise-chaparral ecosystems"

Esbeiry Cordova-Ortiz, University of California, Riverside

4:15 PM-4:30 PM

"Unraveling the traits that enable fungi to thrive post-fire"

Sydney Glassman, University of California, Riverside

3:00 PM-4:30 PM

### **Parallel Session 6.3: Frontiers in Genetics and Genomics of Fungi**

*Session Chair: Jess Fletcher*

Historical Society Auditorium

3:00 PM-3:15 PM

"Comparative codon optimization patterns in endophytic and non-endophytic xylarialean fungi"

Roxanne Bantay, University of Arizona

3:15 PM-3:30 PM

"Comparative genomics and transcriptomics of the boxwood blight pathogens *Calonectria henricotiae* and *C. pseudonaviculata* reveals putative species-specific virulence genes"

John Dobbs, Colorado State University

3:30 PM-3:45 PM

"Determining the individual function and effect of structural variation among the TLO gene family members of *Candida albicans*"

Philip Hendricks, University of Wisconsin, Madison, Center for Genomic Science Innovation

3:45 PM-4:00 PM

"Galactose growth in *Saccharomycotina* yeasts lacking the canonical GAL pathway"

Emily Ubbelohde, University of Wisconsin, Madison

4:00 PM-4:15 PM

"Rediscovery of the tardigrade pathogen *Sorochytrium milnesiophthora*, a blastoclad boasting the longest known rDNA internal transcribed spacer"

Alden Dirks, University of Michigan

3:00 PM-4:30 PM

### **Parallel Session 6-4: Fungal Futures: Tools, Policy, and Education for a Changing World**

*Session Chair: Abigail Granath, University of New Mexico*

Old Madison East & West

3:00 PM-3:15 PM

"Developing a strategy to facilitate having fungi included in global, regional, and national policies and conservation plans and actions"

Gregory M. Mueller, Chicago Botanic Garden

3:15 PM-3:30 PM

"Resilience Solutions Incubators: A new model for community-engaged, transdisciplinary learning experiences"

Abigail Granath, University of New Mexico

3:30 PM-3:45 PM

"Mechanics in mycology: Cultivating mycology-minded engineers"

Debora Lyn Porter, University of California Merced

3:45 PM-4:00 PM

"Myco-Ed: mycological curriculum for education and discovery"

Stephen Mondo, DOE Joint Genome Institute, Lawrence Berkeley National Laboratory

4:00 PM-4:15 PM

"Integrating crowdsourced and automated species identifications in a traditional taxonomy activity to teach the scientific method"

Emily Cantonwine, Valdosta State University

4:15 PM-4:30 PM

"Many hands make light work: an academic and community partnership for research, education, and outreach"

Anita Davelos, University of Wisconsin, La Crosse

4:30 PM-5:30 PM

**SPORES Wrap-Up Session**

Beefeaters North & South

6:15 PM-8:00 PM

**Banquet and Awards Ceremony**

Great Hall

7:00 PM-9:00 PM

**Live and Silent Auction**

Great Hall

## Questions?

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Please reach out to our meeting team.

**MSA Meeting Planner:** Kris Rockouski  
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Kristi Gdanetz MacCready

**MSA President**

Timothy James

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Nhu Nguyen

**Foray Coordinator**

Michelle Jusino

