82\textsuperscript{nd} Annual Meeting of the Mycological Society of America

June 8 – 11, 2014

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http://msafungi.org/MSAconference/
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Founded in 1932

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**SATURDAY, JUNE 7TH**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 AM - 5:30 PM</td>
<td>MSA Council Meeting</td>
<td>Kellogg Room 103 AB</td>
</tr>
</tbody>
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**SUNDAY, JUNE 8TH**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30AM - 3:00 PM</td>
<td>MSA Foray</td>
<td>Meet in Front of Kellogg Central Lobby</td>
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<tr>
<td></td>
<td></td>
<td>Bus to Eddy Discovery Cntr, Waterloo State Recreation Area</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(17030 Bush Rd, Chelsea MI) Travel time 1 hr. Box lunches for registrants. Buses load at 8:15 and leave promptly at 8:30.</td>
</tr>
<tr>
<td>1:00 PM - 6:00 PM</td>
<td>Registration</td>
<td>Kellogg Central Lobby</td>
</tr>
<tr>
<td>3:30 PM - 4:30 PM</td>
<td>NSF-MICC discussion</td>
<td>Beggar’s Banquet Downtown East Lansing</td>
</tr>
<tr>
<td>6:30 PM - 10:00 PM</td>
<td>Cocktail Reception</td>
<td>Kellogg East Patio</td>
</tr>
<tr>
<td></td>
<td>Light hors d’oeuvres &amp; drinks. Bring Drink Tickets labeled ‘Reception.’ In case of rain event will be in Kellogg Big Ten C</td>
<td></td>
</tr>
</tbody>
</table>

**MONDAY, JUNE 9TH**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM - 8:30 AM</td>
<td>Continental Breakfast</td>
<td>Kellogg South Lobby</td>
</tr>
<tr>
<td>8:30 AM - 10:00 AM</td>
<td>1 Contributed Papers - Ecology/Pathology I</td>
<td>Kellogg Room 103</td>
</tr>
</tbody>
</table>

**Chair:** Donald M. Walker

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>Abstract</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30</td>
<td>1001</td>
<td>Walker, Donald M.* - Lawrence, Brandy R. - Graham, Sean P. - Wooten, Jessica</td>
<td>A metagenomics approach to the top-down effect; red-backed salamander effects on fungal communities in Midwestern upland deciduous forests</td>
</tr>
<tr>
<td>8:45</td>
<td>1002</td>
<td>Adenipekun, Dr.clementina Oyinkansola* - Ipeaiyeda, Dr Ayodele R - Egbewale, Samson O.</td>
<td>Biodegradation of Polycyclic Aromatic Hydrocarbons (PAHs) in spent and fresh cutting fluids polluted soils by a white-rot fungus Pleurotus ostreatus (Jacq.)Fr.Kumm</td>
</tr>
<tr>
<td>9:00</td>
<td>1003</td>
<td>Vandegrift, Roo* - Thomas, Daniel - Ju, Yu-Ming - Carroll, George - Roy, Bitty</td>
<td>Dispersal ecology of endophytic Xylariaceae in subtropical Taiwan: a test of the Foraging Ascomycete Hypothesis</td>
</tr>
<tr>
<td>9:15</td>
<td>1004</td>
<td>Beard, Charles E</td>
<td>Nutritional sources for the trichomycete fungus Harpella melusinae</td>
</tr>
<tr>
<td>9:30</td>
<td>1005</td>
<td>Tobias, Terri* - Sinsabaugh, Robert - Suding, Katharine - Farrer, Emily - Porras-Alfaro, Andrea</td>
<td>Seed associated fungi: mutualists and pathogens, and their potential impact on seed recruitment and community composition.</td>
</tr>
<tr>
<td>9:45</td>
<td>1006</td>
<td>Maynard, Daniel S.* - Crowther, Thomas W. - Leonard, Kenneth E. - Bradford, Mark A</td>
<td>Predicting the realized niche by modeling fungal competitive ability</td>
</tr>
</tbody>
</table>
### 8:30 AM - 10:00 AM 2 Contributed Papers - Systematics I

**Chair:** Brian P. Looney

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>8:30</td>
<td>Looney, B.P.</td>
<td>Global diversity and host evolution in a diverse clade of ectomycorrhizal fungi (Russula, Russulales)</td>
</tr>
<tr>
<td>8:45</td>
<td>Mueller, G.M.</td>
<td>Mainstreaming Fungal Conservation</td>
</tr>
<tr>
<td>9:00</td>
<td>O'Donnell, K.</td>
<td>Phylogenetic diversity and fidelity of the <em>Euwallacea</em> (Coleoptera:Xyleborini) - <em>Fusarium</em> mutualism</td>
</tr>
<tr>
<td>9:15</td>
<td>Powers, R.</td>
<td>Mating Studies and Molecular Phylogenies Reveal a Species Complex in <em>Coprinellus disseminatus</em></td>
</tr>
<tr>
<td>9:30</td>
<td>Taylor, J.W.</td>
<td>Fungal species recognition is being challenged by next-generation-sequencing and fungal generic concepts are being challenged by the new nomenclatorial code</td>
</tr>
<tr>
<td>9:45</td>
<td>Zelski, S.E.</td>
<td>A molecular evaluation of the freshwater ascomycete family <em>Annulatascaceae sensu lato</em></td>
</tr>
</tbody>
</table>

### 8:30 AM - 10:00 AM 3 Contributed Papers - Genetics/Molecular Biology I

**Chair:** Sara Branco

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30</td>
<td>Branco, S.</td>
<td>Recent divergence in fungal populations</td>
</tr>
<tr>
<td>8:45</td>
<td>Czaplicki, L.M.</td>
<td>Evaluating Fungal Ecology under Heavy Polycyclic Aromatic Hydrocarbon Soil Contamination</td>
</tr>
<tr>
<td>9:00</td>
<td>Diaz Valderrama, J.R.</td>
<td><em>Moniliophthora roreri</em> (Marasmiaceae) possesses a tetrapolar mating system but appears to reproduce clonally</td>
</tr>
<tr>
<td>9:15</td>
<td>Gazis, R.</td>
<td>Xylona heveae (Xylonomycetes) genome: a window to fungal endophytism</td>
</tr>
<tr>
<td>9:30</td>
<td>Gilbert, M.</td>
<td>RNA-Seq Analysis of an <em>nsdC</em> Mutant in <em>Aspergillus flavus</em></td>
</tr>
</tbody>
</table>

### 10:30 AM - 11:00 AM

**Coffee Break**

### 10:45 AM - 12:00 PM S1 Special Lecture - Karling Lecture

**Chair:** David Hibbett

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>10:45</td>
<td>McDonald, B.A.</td>
<td>The dark side of fungal domestication</td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Location</td>
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<tr>
<td>12:00 PM - 1:00 PM</td>
<td>Lunch</td>
<td>Kellogg Big Ten Room C and Riverside</td>
</tr>
<tr>
<td>1:00 PM - 2:30 PM</td>
<td>Contributed Papers - Genetics/Molecular Biology II</td>
<td>Kellogg Auditorium</td>
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<tr>
<td>Chair: Lisa Grubisha</td>
<td>1:00</td>
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<td>2:00</td>
<td>4005</td>
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<tr>
<td>1:00 PM - 2:30 PM</td>
<td>Contributed Papers - Ecology/Pathology II</td>
<td>Kellogg Room 103 AB</td>
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<tr>
<td>Chair: Aaron David</td>
<td>1:00</td>
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<td></td>
<td>2:00</td>
<td>5005</td>
</tr>
<tr>
<td>1:00 PM - 2:30 PM</td>
<td>Contributed Papers - Cell Biology/Physiology I</td>
<td>Kellogg Room 104 AB</td>
</tr>
<tr>
<td>Chair: Jonathan S. Schilling</td>
<td>1:00</td>
<td>6001</td>
</tr>
<tr>
<td></td>
<td>1:15</td>
<td>6002</td>
</tr>
</tbody>
</table>
1:30  6003  Lee, Samantha* - Hung, Richard - Bennett, Joan W.  
Interactions between Fungi and Plants through Volatile Signaling: The Effects of Volatile 
Organic Compounds (VOCs) Emitted by *Trichoderma* on Plants

1:45  6004  Ramírez-Del Villar, Arianna* - Callejas-Negrete, Olga A. - Riquelme, Meritxell - Mourínó-Pérez, 
Rosa R.  
The class V myosin in *Neurospora crassa*

2:00  6005  Corrales-Vargas, Isabel* - Cano-Domínguez, Nallely - Amarillas-González, Marisol - Castro- 
Longoria, Ernestina  
Phenotypic characterization of the RhoGAPs mutants Δbem-3, Δrgd-1 and Δrga-1 in 
*Neurospora crassa*

2:30 PM - 3:00 PM  Coffee Break  

3:00 PM - 6:00 PM SY1 Symposium - Fungal functional traits in a changing world  

Chair: Mia Rose Maltz

3:00  SY1001  Koide, Roger* - Fernandez, Christopher  
Determining place and process: functional traits of ectomycorrhizal fungi

3:30  SY1002  Crowther, Thomas W.* - Maynard, Daniel S. - Bradford, Mark A  
Thermal adaptation in fungi: Linking traits to biogeography

4:00  SY1003  Treseder, Kathleen - Maltz, Mia Rose* - Hawkins, Bradford - Noah, Fierer - Jason, Stajich - 
Krista, McGuire  
Evolutionary histories of fungi are reflected in their continental-scale biogeography

4:30  SY1004  Branco, Sarah  
Fungi at a small-scale: spatial zonation of fungal assemblages around single trees.

5:00  SY1005  Herr, Joshua  
Mining Metagenomes for Mycological Relevance - Finding Fungal Functions within 
Environmental Samples

5:30  SY1006  Wilson, Nathan  
Mobilizing Fungal Trait Data Using the Encyclopedia of Life

3:00 PM - 6:00 PM SY2 Symposium - Exploring the environmental side of the disease triangle in animal pathogens  

Chair: Hannah Reynolds and Andrew N. Miller

3:00  SY2001  Allender, Matthew* - Bunick, David - Maddox, Carol  
Another fungal pathogen threatening conservation: epidemiology of ophidiomyces in free- 
ranging snakes

3:30  SY2002  Cornelison, Christopher T  
Bacterially-mediated contact-independent antagonism of fungal diseases of bats and honeybees

4:00  SY2003  Hodkinson, Brendan P.* - Gardner, Sue E. - Tyldsley, Amanda S. - Boudhar, Sanaa - Margolis, 
David I. - Grice, Elizabeth A.  
The diabetic foot ulcer microbiome: association with clinical factors and outcomes
4:30 SY2004 Raudabaugh, Daniel* - Miller, Andrew N
Biotic and Abiotic Factors Influencing the Environmental Persistence and Growth of *Pseudogymnoascus destructans*

5:00 SY2005 Reynolds, Hannah T.* - Ingersoll, Tom - Barton, Hazel A
Environmental influences on bat colony persistence in White-nose Syndrome

3:00 PM - 6:00 PM SY3 Symposium - Secondary Metabolites Kellogg Room 104 AB

**Chairs: Frances Trail and Hong Luo**

3:00 SY3001 Bushley, Kathryn E.* - Stpatafora, Joseph W.
Secondary Metabolites in Fungi: Evolution of Genes and Clusters

3:30 SY3002 Luo, Hong* - Angelos, Evan - Li, Xuan - Sgambelluri, R. Michael - Smith, Miranda O. - Hong, Sung-Yong - Scott Craig, John S. - Walton, Jonathan D.
Biosynthesis of Cyclic Peptide *Amanita* Toxins

4:00 SY3003 Newmister, Sean A.* - Tran, Hong - Yu, Fengan - Li, Shengying - Berlinck, Roberto G. S. - Williams, Robert M. - Sherman, David H.
Biosynthetic analysis of fungal derived [2.2.2] prenylated indole alkaloids

4:30 SY3004 Pestka, James
Trichotheccenes produced by *Fusarium* species

5:00 SY3005 Wee, Josephine* - Linz, John
Transcriptional Regulation and Subcellular Localization of Aflatoxin Biosynthesis

5:30 SY3006 Wisecaver, Jennifer* - Slot, Jason - Rokas, Antonis
The evolution of fungal metabolic pathways

6:00 PM - 8:00 PM Mycological Editorial Board Meeting Kellogg Galaxy Room

6:00 PM - 8:00 PM Student Social Kellogg Corniche Room

8:00 PM - 10:00 PM POSTER SESSION Lincoln Room

P1001 Villavicencio-Aguilar, Fausto M.* - Callejas-Negrete, Olga A. - Mouriño-Pérez, Rosa R.
AMI-1 a microtubule +TIP Associated to nuclear displacement in *Neurospora crassa*

P1002 Ahrendt, Steven* - Jeong, Na - Ear, Sapphire - Stajich, Jason
Growth inhibition of *Neurospora crassa* by the chytridiomycete *Homolaphlyctis polyrhiza*

P1003 Finlayson, Timothy John
Fungal-mediated biotransformation of DHEA (didehydroepiandrosterone) by *Penicillium coprobium* is associated with increased antimicrobial activity against bacteria and fungi

P1004 Ratekin, Angela* - Taylor, Bernadette - Volk, Thomas
Survivor: Human pathogen edition. The virulence factor BAD1 expressed by *Blastomyces dermatitidis* yeast as a potential modulator of the host immune response by altering the production of neutrophil extracellular traps

P1005 Lueschow, Shiloh* - Johnson, Lynnaun - Williams, Tabitha - Porras-Alfaro, Andrea
Phylogenetic Relationship Between Human Opportunistic Pathogens and the Causative Agent of White Nose Syndrome in Bats
P1006  Wang, Qiong* - Chai, Benli - Tiedje, James M. - Cole, James R.
RDP: New tools for fungal analysis

Characterization of Novel Di-, Tri-, and Tetrancleotide Microsatellite Primers Suitable for Genotyping Various Plant Pathogenic Fungi with Special Emphasis on Fusaria and Mycosphere graminicola

P1008  Bailey, Jordan* - Karaoglu, Haydar - Wellings, Colin - Park, Robery
Development of diagnostic molecular markers for Puccinia striiformis f. sp. tritici.

P1009  Morris, Samuel D - Reboredo Segovia, Ana L - Hughes, Karen W.*
Cloning of ribosomal ITS PCR products creates numerous chimeric sequences - a test involving a hybrid between Gymnopus dichrous species I and II

P1010  Liimatainen, Kare* - Niskanen, Tuula - Ammirati, Joseph F. - Kyttovuori, Ilkka - Dima, Balint
Describing species of macrofungi using differences in DNA sequence data - a case study in Cortinarius (Agaricales)

P3001  Hann-Soden, Christopher* - Taylor, John W
Reproductive Diversity and Sympatric Species in Populations of Neurospora from Soil

P3002  Moore, Geromy
Turn on your love light: A heritability study using eGFP-transformed Aspergillus flavus

P3003  Mccotter, Sean W.* - Humann, Jodi L. - Main, Dorrie - Okubara, Patricia A. - Carris, Lori - Castlebury, Lisa A.
The bipolar-mating wheat bunt pathogen, Tilletia caries, possesses an unusual complement of mating genes

P3004  Mccotter, Sean* - Aujla, Iqbal - Garfinkel, Andrea - Jardini, Teresa - Mullahy, Sean - Xia, Chongjing - Adams, Michael - Carris, Lori - Peever, Tobin
Multiple phylogenetic species of morels (Morchella) occur in landscape settings in the Pacific Northwest

P3005  Koch, Rachel* - Wilson, Andrew - Aime, M. Catherine
The recent speciation of gasteromycete Guyanagaster necrorhiza suggests endemism

P3006  Wilson, Andrew* - Bell, Charles - Aime, M. Catherine
Deconstructing the co-evolutionary complexity of rust fungi (Puccinales) and their plant hosts

P3007  Reitman, Maxwell* - Bonito, Gm - Brenneman, T - Guevara, G - Healy, Rabern - Trappe, Jm - Smith, Me
Molecular systematics of the Tuber lyonii species complex

P3008  Ortiz-Santana, Beatriz* - Kuo, Michael
Phylogeny and species delimitation of North American Leccinoid fungi

P3009  Methven, Andrew S.* - Miller, Andrew N.
Evolutionary relationships of the clavarioid mushroom genus Lentaria

Phylogeny of Fomitopsis pinicola: A Species Complex

P3011  Diaz Contreras, Alejandro - Cappello Garcia, Silvia - Cifuentes, Joaquin*
New records of tropical Hygrophoraceae in Mexico

P3012  Lodge, D. Jean* - Hughes, Karen W.
Hygrocybe flavescens (Kauff.) Singer - connecting the dots and resurrecting the name
P5001 Kijpornyongpan, Teerat* - Aime, M. Catherine
Three new species of yeasts belonging to Exobasidiomycetes

P5002 Abercrombie, Troy D* - Riggle, Jeremy
Analysis of some nutritive and toxic elements in four species of wild edible mushrooms.

P5003 Trappe, Matthew J. - Smith, Matthew E.* - Hobbie, Erik
Exploring the phylogenetic affiliations and the trophic mode of Sedecula pulvinata
(Sedeculaceae)

P5004 Kolp, Matthew* - Double, Mark - Fulbright, Dennis W - Macdonald, William - Jarosz, Andrew M
Diversity of secondary fungi inhabiting chestnut blight cankers caused by Cryphonectria parasitica in American chestnut (Castanea dentata) populations

P5005 Sánchez, Romina Magali* - Bianchinotti, María Virginia
Mitosporic fungi associated with native Nothofagus trees from the Andean-Patagonian Forests of Argentina

P5006 Gonzalez, Maria C* - Glenn, Anthony - Hanlin, Richard T - Macias-Rubalcava, Martha L - Hernandez-Bautista, Blanca E - Anaya, Ana L
Acremonium camitosporum isolated as an endophyte of Bursera simaruba from Yucatan Peninsula, Mexico

P5007 Skaltsas, Demetra* - Castlebury, Lisa A. - Chaverri, Priscila
Diversity of endophytes isolated from two tropical euphorbiaceous host genera: Hevea and Micandra

Root-associated fungi in Vanilla planifolia from plantation systems in Mexico

P7001 Lawrence, Brandy* - Walker, Donald M.
New species of fungi in the plant pathogenic family Gnomoniaceae (Ascomycota) from Japan.

P7002 Almeida, Davi Augusto Carneiro De* - Gusmão, Luis Fernando Pascholati - Miller, Andrew N.
Biodiversity of Dothideomycetes and Sordariomycetes in the Brazilian Semi-Arid region

P7003 Simmons, Rabern* - Groden, Eleanor
Hirsutella species are polyphyletic in Ophiocordycipitaceae

P7004 Bourret, Tyler* - Sitepu, Irnayuli - Schiff, Nathan - Ignatia, Laura - Kanti, Atit - Faulina, Sarah - Silaban, Sira - Nugroho, Agustinus - Chow, Elaine- Nguyen, Ngoc-Lien - Ubaiddillah, Rosichon - Rizzo, David - Boundary-Mills, Kyria
Diversity of yeasts and filamentous fungi associated with wood-feeding beetles in Indonesia

P7005 Deaver, Noland* - Porras-Alfaro, Andrea - Mccravy, Kenneth - Kuske, Cheryl R
A survey of entomopathogenic fungi from a temperate forest soil

P7006 Hamm, Paris* - Tobias, Terri - Sandona, Katrina - Belnap, Jayne - Kuske, Cheryl R - Porras-Alfaro, Andrea
A study of diversity and abundance of desert keratinophilic fungi

P7007 Belasen, Anat* - James, Timothy
Investigating the native skin mycoflora as a potential first line of defense against amphibian chytridiomycosis

- 7 -
Temporal patterns of *Batrachochytrium dendrobatidis* infection in the native amphibian community of the Edwin S. George Biological Reserve, Livingston County, Michigan

Systematics and ecology of *Syncephalis*, a genus of ubiquitous mycoparasites

Minutisphaeraceae (Dothideomycetes, Ascomycota), a new family of freshwater ascomycetes including two new species from North Carolina, USA

Mycelial production and turnover differ in temperate hardwood forests dominated by arbuscular mycorrhizal trees versus ectomycorrhizal trees

Comparative analyses of ectomycorrhizal communities associated with *Quercus* and *Carya* in the Ozarks and Central Appalachian Mountains

Horizontal versus vertical splash discharge of peridioles in bird's nest fungi
TUESDAY, JUNE 10TH

7:00 AM - 8:30 AM  Continental Breakfast  Kellogg South Lobby

8:30 AM - 10:15 AM 7 Contributed Papers - Ecology/Pathology III  Kellogg Auditorium

Chair: Linda Henderson

8:30  7001  Henderson, Linda*  - Gleason, Frank  - Lilje, Ousu  - Pilgaard, Bo
Copper (II), Lead (II) and Zinc (II) are detrimental to the growth and reproduction of four
zoosporic fungi from soils of NSW, Australia

8:45  7002  Padamsee, Mahajabeen*  - Johansen, Renee  - Bellgard, Stanley  - Burns, Bruce  - Hooker, John  -
Stuckey, Alex  - Williams, Stephen
Characterization of the arbuscular mycorrhizal fungi colonizing roots and nodules of New
Zealand kauri

9:00  7003  Jiang, Qianwei*  - Kirk, William  - Hanson, Linda
Short term elevated temperature exposure impacts growth of mycelium of Cercospora beticola

Species Richness and Lignolytic Potential of Decomposer Fungi Inhabiting Midwest
Agricultural Soils

9:30  7005  Kepler, Ryan*  - Rehner, Stephen
Assessment of Metarhizium community structure in soil ecosystems

8:30 AM - 10:15 AM 8 Contributed Papers - Systematics II  Kellogg Room 103 AB

Chair: Cathy Cripps

8:30  8001  Barge, Edward*  - Cripps, Cathy
Systematics and biogeography of Lactarius in the Rocky Mountain alpine zone

8:45  8002  Larsson, Ellen  - Cripps, Cathy*  - Vauras, Jukka
Inocybe leiocephala Stuntz, a species with an intercontinental distribution range mainly in arctic,
alpine and subalpine habitats - disentangling the I. leiocephala-subbrunnea-catalaunica complex

9:00  8003  Dee, Jaclyn M.*  - Chang, Ying  - Sekimoto, Satoshi  - Berbee, Mary L.
Hyphally Inclined: Septins and the Search for an Ancient Morphogenetic Toolkit for Hyphal
Growth

9:15  8004  Gazis, Romina*  - Rees, Jonathan  - Ree, Rick  - Smith, Stephen  - Hibbett, David
Lost in translation: challenges of transferring information from phylogenies into taxonomy

9:30  8005  White, Merlin
Recent advances in and current opportunities for Gut Fungi research with reflections on the
Trichomycetes

9:45  8006  Demers, Mara B.*  - Healy, Rosanne A.  - Mclaughlin, David J.
Uncovering Cortinarius Diversity in Midcontinental North America
8:30 AM - 10:15 AM 9 Contributed Papers - Ecology/Pathology IV

Chair: Ryoko Oono

8:30  9001  Oono, Ryoko* - Lef-Vre, Emilie - Simha, Anita - Lutzoni, François
  Community species richness of foliar fungal endophytes decrease from seedling to adult pine needles

8:45  9002  Annis, Seanna* - Hopkins, Kathy - Calder, Beth - Perkins, Brian
  Fungi contaminating bottled maple syrup

9:00  9003  Brown, Shawn* - Olson, Bradley - Jumpponen, Ari
  Snow Algae Occurrence Elicits an Enrichment of Saprobioc and Pathogenic Fungi

9:15  9004  Davis, William J.* - Edmonds, Jennifer W. - Longcore, Joyce E. - Antonetti, Jonathan - Letcher, Peter M. - Powell, Martha J.
  Diversity of Early-diverging Fungal Lineages in Temporary Ponds

9:30  9005  Dean, Sarah* - Warnock, Daniel - Litvak, Marcy - Sinsabaugh, Robert
  Drought Effects on Abiotic and Biotic Fungal Assembly Mechanisms in Root Associated Fungi

10:00 AM - 10:30 AM Coffee Break

10:30 AM - 12:00 PM 10 Contributed Papers - Systematics III

Chair: Huzefa A. Raja

10:30  10001  Raja, Huzefa A.; Shearer, Carol A.; Miller, Andrew N; Tanaka, Kazuaki; Fournier, Jacques; El-Elimat, Tamam; Oberlies, Nicholas H.
  Minutisphaeraceae (Dothideomycetes, Ascomycota), a new family of freshwater ascomycetes including two new species from North Carolina, USA.

10:45  10002  Schoch, Conrad L.* - Barbara, Robbertse
  Remember my (fungal) name: Tying names to sequences and specimen data in GenBank

11:00  10003  Seelan, Jaya Seelan Sathiyaa* - Justo, Alfredo - Nagy, Laszlo - Hibbett, David - Hughes, Karen
  Phylogenetic relationships and morphological evolution in Lentinus, Polyporellus and Neofavolus, emphasizing Southeast Asian taxa

11:15  10004  Spiegel, Frederick W.
  Rethinking the origin of Eukaryotes

10:30 AM - 12:00 PM 11 Contributed Papers Ecology/Pathology V

Chair: Lotus A. Lofgren

10:30  11001  Lofgren, Lotus A.* - Lasin, Praphapan - Roelfs, Alan - Corby Kistler, H.
  Fusarium Inhabitants of Asymptomatic Wild Grasses

10:45  11002  Osmundson, Todd* - Bergemann, Sarah - Garbelotto, Matteo
  Biogeography and biodiversity assessment of macrofungi of Moorea, French Polynesia

11:00  11003  Malcolm, Katalin* - Dighton, John - Barkay, Tamar
  The effects of mercury on fungal phylloplane communities

11:15  11004  Nguyen, Nhu H.* - Williams, Laura - Cavender-Bares, Jeannine - Gravel, Dominique - Meisser, Christian - Paquette, Alain - Reiche, Peter - Kennedy, Peter G.
  Host tree diversity as drivers of ectomycorrhizal richness
Conifers and Chemistry: fungal endophytes of Canada's Acadian forest

10:30 AM - 12:00 PM 12 Contributed Papers - Genetics/Molecular Biology III  Kellogg Room 104 AB

Chair: Melissa McCormick

10:30 12001  McCormick, Melissa* - Hauser, Wesley - Whigham, Dennis
Effects of bacteria within fungal hyphae on the function of orchid mycorrhizae

10:45 12002  Herr, Joshua* - Geib, Scott - Scully, Erin - Tien, Ming - Geiser, David M. - Hoover, Kelli - Carlson, John E.
The genome sequence of a Fusarium solani isolate from the gut of the Asian Longhorned Beetle provides insight into fungal-insect associations, supernumerary chromosomes, and the breakdown of lignocellulose

11:00 12003  Wang, Jie* - Jacobs, Janette - Rojas, Alejandro - Chilvers, Martin
Population genetic analysis indicates genetic diversity of Fusarium virguliforme within and between sampling locations

11:15 12004  Bunyard, Britt A
Amanita mycophagy among the “true flies” (Insecta: Diptera)

11:30 12005  Miller, Megan E. - Burchhardt, Kathleen M. - Cubeta, Marc A.*
Genetic diversity of Monilinia vaccinii-corymbosi sampled from apothecia and infected blueberry fruit

12:00 PM - 1:00 PM Lunch  Big Ten Room C and Riverside

1:00 PM - 5:00 PM SY4 Symposium -  Kellogg Auditorium

Ecological Consequences and Mechanisms of Fungal-Fungal Interactions

Chair: Peter G. Kennedy

1:00  SY4001  Bell-Dereske, Lukas* - Emery, Sarah
Interactions in the dunes: synergisms between foliar endophytes and arbuscular mycorrhizal fungi in an ecosystem engineering dune grass

1:30  SY4002  Boddy, Lynne
Fungal Wars: a primer of interspecific fungal interactions

2:00  SY4003  Kennedy, Peter G.* - Nguyen, Nhu - Cohen, Hannah
Missing checkerboards: an absence of competitive signal in Alnus-associated ectomycorrhizal fungal assemblages

2:30  SY4004  May, Georgiana* - Nelson, Paul
Fungal-fungal interactions structure populations and communities

3:00 PM - 3:30 PM Coffee Break  Kellogg South Lobby
3:30 SY4006  Mujic, Alija Bajo* - Kennedy, Peter G. - Durall, Daniel M. - Spatafora, Joseph W.
On living with family: Factors affecting the vertical distribution of the ectomycorrhizal sister species Rhizopogon vinicolor and Rhizopogon vesiculosus in soil

4:00 SY4007  Song, Zewei* - Vail, Andrew - Sadowsky, Michael - Liew, Fengjin - Schilling, Jonathan
Fungal competition for wood in the face of endophytes: Glory and consequence

4:30 SY4008  Branco, Sara* - Bruns, Thomas D. - Singleton, Ian
Fungi at a small-scale: spatial zonation of fungal assemblages around single trees

1:00 PM - 4:30 PM SY5 Symposium -
Kellogg Room 103 AB

Molecular mechanisms of adaptation to host and environment

Chair: Richard Wilson

1:00 SY5001  Ridenour, John* - Smith, Jonathon - Hirsch, Robert - Horevaj, Peter - Kim, Hun - Sharma, Sandeep - Bluhm, Burton
UBL1 of Fusarium verticillioides links the N-end rule pathway to extracellular sensing and plant pathogenesis

1:30 SY5002  Marroquin-Guzman, Margarita R.* - Wilson, Richard
GATA-dependent glutaminolysis drives appressorium formation by the blast fungus Magnaporthe oryzae

2:00 SY5003  Liang, Xiaofei* - Liberti, Daniele - Li, Moyi - Kim, Young-Tae - Hutchens, Andrew - Wilson, Ron - Rollins, Jeffrey
Genetic Regulation of Oxalate Metabolism in Sclerotinia sclerotiorum

2:30 PM - 3:00 PM Coffee Break
Kellogg South Lobby

3:00 SY5005  Giraldo, Martha C.* - Dagdas, Yasin - Gupta, Yogesh - Mentlak, Thomas - Yi, Mihwa - Martínez-Rocha, Ana Lilia - Saitoh, Hiromasa - Terauchi, Ryohei - Talbot, Nicholas J. - Valent, Barbara
Two distinct mechanisms of Magnaporthe oryzae effector secretion for biotrophic invasion of rice

3:30 SY5006  Downes, Damien* - Davis, Meryl - Wong, Koon Ho - Hynes, Michael - Todd, Richard
Transcriptional regulation of NADP-GDH in Aspergillus nidulans: A key step in the nitrogen assimilation pathway

1:00 PM - 4:30 PM SY6 Symposium -
Kellogg Room 104 AB

Evolution of Hyphal Function and Development

Chair: Rosa Mouriño Perez and Brian D Shaw

1:00 SY6001  Trail, Frances* - Fellows, Kayla - Cubba, Caitlyn - Hoffman, Tiana - Wang, Zheng - Townsend, Jeffrey
Evolution of peritheciom morphology through transcriptomics

1:30 SY6002  Lara-Rojas, F.* - Bartnicki-Garcia, S. - Mouriño-Pérez, Rosa R.
Proteins involved in early stages of endocytosis in Neurospora crassa

2:00 SY6003  Luo, Yongping - Xu, Jinhong*
The FgKin1 kinase localizes to the septal pore and differentially regulates the localization of two beta-tubulins in Fusarium graminearum
2:30 PM - 3:00 PM Coffee Break
Kellogg South Lobby

3:00 SY6005 Schultzhaus, Zachary
Membrane Trafficking and Hyphal Tip Growth in Aspergillus nidulans

3:30 SY6006 Castro-Longoria, Ernestina
The architecture and function of cell polarity components in filamentous fungi

6:00 PM - PM MSA Volunteer's Social
Kellogg Corniche Room

8:00-10:00 PM POSTER SESSION
Lincoln Room

P2001 Balkan, Mehmet A.* - Eppley, Sarah M. - Kennedy, Peter G. - Rosenstiel, Todd N.
Sex-specific fungal communities associated with the cosmopolitan dioecious moss, Ceratodon purpureus

P2002 Vandorp, Carrie* - Beiler, Kevin - Durall, Daniel M.
Rhizopogon Sister Species Dominance Correlates to Forest Age Structure

P2003 Rollins, Jeff* - Benny, Ulla - Chamuscho, Karen - Veluchamy, Selva
Photoreponses of apothecial stipes and photomorphogenesis of apothecial discs in Sclerotinia sclerotiorum

P2004 Smith, Matthew E.* - Rollins, Jeffrey
How many fungi make sclerotia?

P2005 Obase, Keisuke* - Douhan, Greg W. - Yosuke, Matsuda - Smith, Matthew E.
Culturable fungal biota growing on Cenococcum sclerotia in forest soil

Evolutionary history of Ascomyceteous Yeasts

P2007 Stewart, Jane* - Brewer, Marin
Drivers of divergence and host range expansion in a fungal species complex pathogenic to cucurbits and papaya

P2008 Scharnagl, Klara* - Prather, Alan
Do Lichens follow the Latitudinal Diversity Gradient? A Review

P2009 Romero-Olivares, Adriana Lucia* - Taylor, John W - Treseder, Kathleen
Can fungi adapt to global warming? Neurospora discreta holds the answer

P2010 Robinson, Aaron J* - Hutchinson, Miriam - Natvig, Donald O.
A Genetic Analysis of Differences in Optimal and Maximal Growth Temperatures among Mesophilic and Thermophilic Members of the Sordariales

P2011 Hutchinson, Miriam* - Powell, Amy J. - Tsang, Adrian - Berka, Randy M. - Grigoriev, Igor - Barry, Kerrie - Natvig, Donald O.
What genome sequences from members of the Chaetomiaceae tell us about the evolution of reproductive systems and thermophily

P2012 Martin, W Wallace* - Warren, Alyssa M.
A New Basal Oomycete with Isogamous Sexual Reproduction
P4001 Uehling, Jessie K* - Lee, Samantha - Adams, Catharine - Maltz, Mia Rose - Haelewaters, Danny
MSA Student Section 2014 - Fungal functional traits

P4002 Presley, Gerald * - Schilling, Jonathan S.
Probing the Postia placenta secretome in early stages of wood decay

P4003 Zhang, Jiwei* - Presley, Gerald - Song, Zewei - Oliver, Jason P. - Schilling, Jonathan S.
Partitioning transcriptions of the oxidative enzymes and cellulase reveals the spatially control
mechanisms of fungi during wood degradation

P4004 Morgan, Benjamin* - Egerton-Warburton, Louise
High-throughput sequencing reveals diverse fungal communities associated with lignin
decomposition in seasonally dry forests of the Yucatan Peninsula

P4005 Mickelson, Emily
Investigating the Relationships between Varying Filter Media and Microbial Populations in
Biofiltration Processes

P4006 Mougharbel, Lina* - Ostadjoo, Saghayegh - Lagu, Sonali - Martin, Vincent - Powlowski, Justin -
Storms, Reginald
Developing Consolidated Bioprocessing Competent Saccharomyces cerevisiae through the
Optimized Expression of Fungal Cellulases

P4007 Oliver, Jason P* - Janni, Kevin A. - Schilling, Jonathan S.
Developing a qPCR approach to monitor fungal dominance in biofilms colonizing wood chip
biofilters

P4008 Kennedy, Zachary* - Volk, Thomas
Mycolological Applications to Combat Deforestation in the Amazon

P6001 Bokati, Deepak* - Herrera, Jose - Poudel, Ravin
Characterization of root fungal endophyte community of cereal grains using 454 pyrosequencing techniques.

P6002 Gdanetz Maccready, Kristi* - Trail, Frances
The distribution of microbes on wheat plants and their impacts on the life cycle of Fusarium
graminearum

P6003 Johannsen, Aleshia G* - Almatruk, Maryam A - Belnap, Jayne - Kuske, Cheryl R - Porras-Alfaro, Andrea
Diversity and Distribution of Yeasts in Arid Grassland Soils

P6004 Sandona, Katrina* - Tobias, Terri - Kuske, Cheryl R - Belnap, Jayne - Porras-Alfaro, Andrea
Distribution of Dark Septate Fungi in Different Desert Soil Microenvironments

P6005 Thomas, Daniel* - Vandegrift, Roo - Ludden, Ashley - Carroll, George - Roy, Bitty
Fungal Foliar Endophyte Dispersal: Testing the Foraging Ascomycete Hypothesis

P6006 Shymonovich, Tatsiana* - Saari, Susanna - Charlton, Nikki D. - Young, Carolyn A. - Cech, Nadja -
Faeth, Stanley H.
Alkaloid variation among epichloid endophytes of sleepygrass (Achnatherum robustum):
Consequences insect herbivore resistance

P6007 Springer, Joshua* - Trail, Frances
Identification of natural compounds that limit aflatoxin production in Aspergillus parasiticus

P6008 Tournas, V.h.* - Niazi, N.s. - Katsoudas, E.j.
Fungal profiles of selected grains and grain products from U.S. retail.
P6009  Imboden, Lori* - Afton, Drew - Trail, Frances

Fusarium graminearum ingress of the barley palea via phytoliths

P6010  Habibi, Azadeh - Frederick, Zachary - Koberstein, Staci - Liu, Lu - Nazarov, Taras - Salamone, Amy - Wheeler, David - Carris, Lori* - Peever, Tobin

How many species of Ascochyta cause Ascochyta blights of cultivated legumes and their wild relatives?

P6011  McTavish, Christine Kay* - Fulbright, Dennis W - Jarosz, Andrew M

Emerging epidemic: correlation of Phomopsis spp. with spruce decline in the Lower Peninsula of Michigan
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<td>9:00 AM - 10:00 AM</td>
<td>S2 Special Lecture - MSA Presidential Address</td>
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<td>10:00 AM - 10:30 AM</td>
<td>Coffee Break</td>
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<td>10:30 AM - 12:00 PM</td>
<td>13 Contributed Papers - Ecology/Pathology VII</td>
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<td>Chair: Daniel Durall</td>
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<td>10:30</td>
<td>0001  Scholl, Chrysal - Stone, Morgan - Tantikachornkiat, Mansak - Neuner, Marissa - Morgan, Sydney-Durall, Daniel M.*</td>
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<td>Yeast diversity and composition in spontaneous fermentations of two varietals at multiple Canadian wineries</td>
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<td>0002  Oliver, Alena* - Callaham Jr., Mac - Brown, Shawn - Jumpponen, Ari</td>
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<td>Soil community responses to recurring prescribed fires in yellow pine forests: effects of fire intervals and season</td>
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<td>11:00</td>
<td>0003  Nagy, Laszlo* - Hibbett, David</td>
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<td>Convergent regulatory evolution underlies the repeated appearance of yeast-like fungi</td>
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<td>0004  Adongbede, Erute Magdalene* - Akinyeke, Oluwanifemi</td>
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<td>A study of the degradative potential of moulds isolated from the rhizosphere of three weeds (Commelina diffusa, Aspilia africana and Vernonia cinerea)</td>
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<td>0005  Demmers, Jill* - Crouch, Jo Anne - Castlebury, Lisa A.</td>
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<td>Real-time PCR as a tool for identification of rust specimens</td>
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<td>0006  Vandegrift, Roo* - Blaser, Wilma - Campos-Cerda, Felipe - Heneghan, Allison - Carroll, George - Roy, Bitty</td>
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<td>Mixed fitness effects of grass endophytes modulate impact of enemy release and rapid evolution in an invasive grass</td>
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<td>10:30 AM - 12:00 PM</td>
<td>14 Contributed Papers - Systematics IV</td>
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<td>Chair: Yuuri Hirooka</td>
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<td>10:30</td>
<td>14001 Hirooka, Yuuri* - Tanney, Joey - Nguyen, Hai - Seifert, Keith</td>
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<td>A proposal for a new family in the Onygenales for the genus Spiromastix</td>
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<td>10:45</td>
<td>14002 Hustad, Vincent Patrick* - Miller, Andrew N</td>
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<td>Molecular systematics of Geoglossomycetes: genus and species concepts</td>
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11:00 14003 Justo, Alfredo* - Hibbett, David
   The genus *Pluteus* (Agaricales, Basidiomycota) in North America, how close are we to a continental Mycoflora?

11:15 14004 Knudson, Alicia* - Hibbett, David
   Fruiting Body Shape in Gomphales and Clarification of *Ramaria*

11:30 14005 Harrower, Emma* - Matheny, Brandon.
   Evolution and phylogeography of the Cortinarius violaceus group in Australasia and the Americas.

10:30 AM - 12:00 PM 15 Contributed Papers - Ecology/Pathology VI
   Chair: Cedar Hesse

10:30 15001 Hesse, Cedar N.* - Vuyisich, Momochillo - Gallegos-Graves, La Verne - Challacombe, Jean F. - Ticknor, Lawerence O. - Zak, Donald R. - Kuske, Cheryl R.
   Metatranscriptomes from maple forest leaf litter reveal decreased community expression of fungal lignocellulolytic enzymes under elevated atmospheric N deposition

10:45 15002 Jusino, Michelle Alice* - Lindner, Daniel L. - Skelton, James - Banik, Mark T. - Walters, Jeffrey R.
   A successional partnership: the fungal communities associated with a cavity-excavating woodpecker

11:00 15003 Hiscox, Jennifer* - Savoury, M - Rogers, H - Muller, C - Boddy, Lynne
   What is present affects what is to come: fungal community dynamics in decaying wood

11:15 15004 Kennedy, Peter G.
   Unlocking environmental keys to host specificity: differential tolerance of acidity and nitrate by *Alnus*-associated ectomycorrhizal fungi

1:00 PM - 4:30 PM SY7 Symposium - Emerging infectious diseases by zoosporic parasites
   Chair: Frank Gleason; Gerard Adams

1:00 SY7001 Natvig, Don
   The Cantino and Emerson Legacies in Experimental Mycology

1:30 SY7002 Chang, Ying* - Sekimoto, Satoshi - Wang, Sishuo - Spatafora, Joseph W. - Berbee, Mary L.
   Early diverging fungi and evolutionary origins of enzymes for breakdown of the pectins in plant cell walls

2:00 SY7003 James, Timothy
   Deciphering the current amphibian chytridiomycosis panzootic using genomics

2:30 PM - 3:00 PM Coffee Break

3:00 SY7005 Sain, Divya - Melida, Hugo - Bulone, Vincent - Stajich, Jason*
   Fungal cell wall evolution reconstructed from genomes of early diverging fungi

3:30 SY7006 Gleason, Frank
   Resource seeking strategies of zoosporic true fungi
### 1:00 PM - 4:30 PM SY8 Symposium - Sequence-based Identification of Fungi

**Chair:** David M. Geiser; Andrea Porras-Alfaro  
*(Check announcement board or on-line for time changes!)*

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| 1:00 | SY8001 | Hibbett, David S.  
Challenges and opportunities in sequence-based identification and classification of fungi |
| 1:30 | SY8002 | Geiser, David M.  
Practice makes… progress. Successes and challenges in sequence-based species recognition, taxonomy and identification in *Fusarium* |
| 2:00 | SY8003 | Kõljalg, Urmas* - Abarenkov, Kessy - Nilsson, R. Henrik - Larsson, Henrik  
At species crossroads |

### 2:30 PM - 3:00 PM Coffee Break

**Kellogg South Lobby**

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| 3:00 | SY8005 | Porras-Alfaro, Andrea* - Liu, Kuan-Liang - Xie, Gary - Cole, James R. - Kuske, Cheryl R  
RDP Classifier: ITS and LSU Automated Fungal Identification |
| 3:30 | SY8006 | Õpik, Maarja  
MaarjAM Database: Sequence-based identification of arbuscular mycorrhizal fungi |

### 1:00 PM - 4:30 PM SY9 Symposium - Lignocellulose Deconstruction by Fungi

**Chair:** Jonathan Walton

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| 1:00 | SY9001 | Baker, Scott  
Molecular tools for understanding biomass degradation |
| 1:30 | SY9002 | Cullen, Daniel  
Mechanisms of lignocellulose degradation inferred from recent genome investigations of wood decay fungi |
Extensive sampling of basidiomycete genomes demonstrates inadequacy of the white rot/brown rot paradigm for wood decay fungi |

### 2:30 PM - 3:00 PM Coffee Break

**Kellogg South Lobby**

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| 3:00 | SY9005 | Xiong, Yi* - Glass, Louise  
Exploring plant cell wall degradation using *Neurospora crassa* |
| 3:30 | SY9006 | Walton, Jonathan* - Ye, Zhuoliang - Zheng, Yun - Jabbour, Dina - Storms, Reginald - Borrusch, Melissa  
Mining fungal genomic diversity for novel enzymes for biomass deconstruction |

### 6:00 PM - 10:00 PM

**MSA Banquet & Student Presentation Awards & Auction**

**Kellogg Big Ten Room C**

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**THURSDAY, JUNE 12TH**

### 8:00 AM - 5:00 PM WS1 Workshop - NSF - Sequence-based Identification of Fungi

**Chair:** David M. Geiser; Andrea Porras-Alfaro

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