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From Boston to Austin: One Graduate Student's Experience at MSA-APS 2013

This summer a number of peregrine mycologists gathered at the MSA-APS Joint Meeting in Austin, Texas. The local weather was more than warm - traveling outside was like walking through an overheated, humid incubator full of thermophilic *Candida*. But once inside the conference center, the air-conditioned halls could be "lichened" to a giant walk-in fridge, creating a chilled and pleasant environment for communicating all things Mycology.

It was my first time attending MSA, and from what I've been told, the joint conference was much larger than typical MSA meetings. It was impossible to attend everything of interest, such that I wished I was more fungal in nature, capable of asexual reproduction via breaking, becoming several smaller individuals and dispersing to more talks simultaneously. The following are highlights of some of the symposia and events I was able to witness in my entirety.

Early afternoon on Sunday, August 11th found me in the Technical Session on Fungal Molecular Systematics and Evolution, moderated by David Hibbett. I discovered that I *may* be able to impress people at parties by referring to wood as "lignocellulose", and that the phrase "rot plots" exists. I also learned about new techniques for examining fossil fungi, that perylene is just one of many fungal biomarkers, and soft rot is relatively common in extreme environments. That evening, two labmates and I ventured to Amy's Ice Cream, an ice cream parlor whose *shtick* is *throwing ice cream at their guests*. I successfully caught not only the small sample spoon, but also a scoop of ice cream thrown across two lanes of traffic, at night, and was awarded my ice cream free of charge.

Monday morning I attended the Technical Session on Ectomycorrhizal Community Ecology and Endophytes. There, I learned that, like diversity at human gatherings, fungal species composition can be affected by the age of the host. Notably, rarefaction curves made one of their first appearances in this session. These curves of sampled species diversity were a common sighting throughout the conference, and as the slopes rarely plateaued, indicate

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that fungal ecologists have barely begun to scratch the surface of fungal diversity. This is good news for beginning graduate students.

During lunch, I crashed the Widely Prevalent Plant-Pathogenic Fungi Working Group, to see how our compatriots in APS think about fungi. I quickly discovered that when these folk say “fungi”; they really mean “fungal plant pathogens.” Fungi are seldom ever friendly in the context of their work. Later, Barbara Howlett delivered the Karling Lecture on her work with the bootleg disease of canola. It was an inspiring lecture, uniting eco-evo theory with practical applications in agriculture to increase crop yield and avoid boom and bust cycles. In the evening, the MSA Student Mixer was a roaring success with over 100 attendees, and afterwards I ran down to a nearby bridge to watch North America’s largest urban bat colony emerge from its daytime roost. It was a chiropterologist’s dream (or a chiroptophobe’s nightmare).

Nicole Hynson moderated Tuesday morning’s Special Session, Fungal Ecology Beyond Boundaries: From Communities to the Globe. There were a lot of heavy hitters in the lineup, including John Klironomos, Tadashi Fukami, Kabir Peay and Lee Taylor. The research was extremely interesting, teaching us that AM fungi act as a sort of “insurance policy” for rough conditions, that bacteria can play an important role in plant-pollinator interactions, throwing out rare OTU’s may under-represent fungal diversity, and that it’s always appropriate to make a Robert Heinlein reference, as in Peter Kennedy’s talk, “Strangers in a New Land.”

At lunch, the Executive Board of the MSA Student Section met in a beautiful boardroom at the Hilton. While we enjoyed the free candy proffered in elegant glasses, we discussed our new role within the Society, upcoming elections, and strategies for proposing a symposium topic at East Lansing 2014. Afterwards the group sauntered back to the Convention Center to watch the charming Presidential Address given by Mary Berbee. The talk was so entertaining I failed to take my usual notes, but I did jot down a few phrases, such as “the wonders of cave moss” and, less encouraging, “publish or die”. The afternoon found me in the Technical Session Fungal Ecology 2. My personal favorite talk was that of Nicole Hynson, who discussed how fungi raise mycoheterotrophic plants, and how fungal diversity can change over the

life of the host. Finally, that evening I attended an APS Leadership Opportunity and Social, at which I learned tips for networking, and then stayed well past dark chatting with an amiable department head about pitfalls of the tenure system.

I began the final day of the conference with the Special Session on Interactions and Mechanisms of Symptomless Plant Symbioses. All the talks were interesting, but I was especially intrigued by James Lawrey’s topic: endolichenic fungi, the Russian nesting dolls of microbial symbiosis. Steve Lindow also gave a fantastic talk on *Xylella fastidiosa*, a usually harmless endophyte of blackberries gone bad. The afternoon progressed to the symposium on Responses of Plant-Symbiotic Fungi to Climate Change. There, we learned that abiotic factors are the most influential factors on endophyte diversity, that endophytes of the Great Lake sand dunes can decrease non-host plant diversity while increasing AM diversity, and that there is a threshold level of burn severity on relative abundance of ECM.

The conference wrapped to a close with the epicly fun MSA Auction and Awards ceremony. From the front table that had been hilariously freed of all other chairs, my collaborator Kristi and I watched in utmost amusement as her advisor David Geiser masterfully facilitated the auction, raking in over \$600 for a set of handcrafted, mushroom themed place-mats. Attendees young and old were amazingly enthusiastic to raise money for the organization, and to support and recognize up-and-coming mycologists. Representing the Student Section were oral presentation award winners Thomas Jenkinson and Serenella Linares and poster winners Kayla Arendt and Rosanne Healy. With a warm glow that was only partially due to fine wine, I walked with friends and lab-mates to the banquet room next door, ending the evening with tasty Southern dishes and an old-fashioned Texas hoe-down.

For anyone who missed the conference, you missed out! Fortunately, however, all the talks were recorded and are available online through APS. I’m greatly looking forward to next year’s gathering in East Lansing, Michigan, and to the International Mycological Conference in Bangkok (Thailand). I hope to see you there!

—Cat Adams

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STRAYS

National Fungus Day in the United Kingdom

Meredith Blackwell forwarded the following link to an article about National Fungus Day in the UK, complete with a video narrated by Bryn Dentinger and images of giant sculptures of fungi by artist Tom Hare, which have been on display at Kew:

http://www.bbc.co.uk/news/science-environment-24473667#story_continues_1

There are additional photos of Tom Hare's sculptures here:

<http://www.tomhare.net/portfolio/>

MSA BUSINESS

Executive Vice President's Report

As I write this column in mid-September, we have finished our fourth week of classes at Washington State University and there are rumors that chanterelles are up in the forest. The 2013 MSA/APS meeting in Austin, TX in August was a resounding success, thanks in large part to the many dedicated MSA volunteers including Kerry O'Donnell (Program Chair) and Brian Shaw (Local Organizer). Highlights of the meeting included presentations by Mary Berbee in the Presidential Address ("Fungal Diversity and Geological Time") and Barbara Howlett's Karling Annual Lecture ("Evolution of Virulence in Fungal Pathogens of Plants"), and the MSA Auction and Social. And yes—the nightly emergence of the enormous bat colony under the Congress Street Bridge in Austin was a spectacular sight.



Lori Carris,
Executive Vice President

Council Business: The MSA 2013 Council and Business Meetings were held on Saturday, August 10 and Sunday, August 11, respectively, in Austin, TX. Minutes of both meetings can be found in this issue of *Inoculum*. We welcome new officers Sharon Cantrell (Treasurer) and Kerry O'Donnell (Vice President), and new Councilors Brian Shaw, Daniel Lindner, Tim James and Andy Miller. Email polls completed by Council since August include a request by a Lifetime member to waive print subscription charges and nominations for two Associate Editors.

New Members: I would like to extend a warm welcome to the following new and returning members. Their membership will be formally approved at the 2014 Annual Business Meeting in East Lansing, MI.

China: Wen-Ying Zhuang (Honorary Member)

United States: Molly Rachael Bindell, Joseph Meier, Patricia Tseplaev

2014 Membership Renewal: MSA renewal notices will be sent out by email in September. Renew by December 31 to receive the early renewal discount! Membership renewal is a great time to make a donation to the Society to help support student travel and research awards. A complete list of funds can be found on the MSA Business site under <Donations>.

REMINDER: MSA Directory Update: Membership renewal is also a good time to check that your address, phone, email, and membership status are up-to-date. The Society relies on email to bring you timely information on MSA news, awards, elections, meetings and other activities. To ensure that you receive those important Society blast emails and *Inoculum*, please check the accuracy of your contact information in the online directory. This can be accessed via our website (www.msa.org)—look for the "Member Services" box in the bottom left corner of the page. If you have renewed your membership and don't find your name in the online directory, contact me for assistance. As some members discovered while trying to register for the 2013 meeting, up-to-date membership status is important. If you need assistance with updating any of your membership information, contact our new Association Manager at Allen Press, Liza Woolard (lwoolard@allenpress.com).

Feel free to contact me about MSA business, or any other questions you have about the Society. If I don't know the answer, I can generally find someone who does. And don't forget to recommend MSA to your colleagues, and particularly to students and postdoctoral associates who are interested in fungi. Remember, there is now a postdoctoral member rate!

Lori Carris (carris@wsu.edu)
MSA Executive Vice President

Minutes of the 2013 MSA Business Meeting

Austin Convention Center Room 19 Sunday, August 11, 2013

1. The 2013 Business Meeting of the Mycological Society of America was called to order by *President Mary Berbee* at 10:30 am. *President Berbee* welcomed members to the meeting, made general announcements regarding the MSA Social and Auction on Wednesday night Aug. 13 and commented on local highlights such as the colony of bats under the Congress Street Bridge. *President Berbee* introduced 2012-2013 MSA officers *President-Elect Joey Spatafora*, *Vice President Jean Lodge*, *Executive Vice President Lori Carris*, and *Treasurer Marc Cubeta*, and thanked meeting organizers *Kerry O'Donnell* (Program Chair) and *Brian Shaw* (Local Organizer) for their work in organizing the meeting and for their contributions to the Society. *President Berbee* commented on the important contributions of Society volunteers including Associate Editors, committee members, and symposium organizers, and encouraged all members to become involved in the Society.
2. *President Berbee* called for approval of the minutes of the 2012 MSA Business Meeting [Inoculum 63(4)] held in New Haven, CT on the campus of Yale University. Paper copies of the minutes had been provided by *Executive VP Carris*. The minutes were unanimously approved by the membership.
3. *President Berbee* presented the highlights of her annual report, which will be published in the October 2013 issue of *Inoculum*. *President Berbee* again acknowledged the role of volunteers and pointed out the different symposia at the Austin meeting that were organized by MSA committees. *President Berbee* noted that MSA finances are strong and the Society has reserves to carry forward over the next year; during the coming year, Council will explore options for professional management of Society finances; *Mycologia* is strong in terms of article citations and downloads, but institutional subscriptions are declining and this is cause for concern. A MSA Student Section has formed during the past year under the direction of *Mia Maltz* and *President Berbee* pointed out that bylaws changes to formalize the student section that will be on the spring election.
4. *Vice President Jean Lodge* reported on the 2013 election results and welcomed *Kerry O'Donnell*, (Vice President), *Sharon Cantrell* (Treasurer), *Brian Shaw* (Councilor—Cell Biology/Physiology), *Tim James* (Councilor—Genetics/Molecular Biology), *Andrew Miller* (Councilor—Systematics/Evolution) and *Daniel Lindner* (Councilor—Ecology/Pathology) who will be starting their terms at the conclusion of the Business Meeting and called for a round of applause.
5. *Executive Vice President Lori Carris* referred to her midyear report [Inoculum 64(2)] that summarized Council activities from August 2012 to February 2013. Highlights of the Mid-year Executive Council Meeting, held by phone conference on Sunday, February 24 included the following: a) a decision to explore the financial impact of continuing to provide print copies of *Mycologia* to Honorary and Lifetime Members; b) a report from *President-Elect Joey Spatafora* on arrangements for the 2016 MSA Meeting at University of California-Berkeley with local organizers *John Taylor* and *Tom Bruns*; c) a report by *Vice President Jean Lodge* on the Fall 2012 and Spring 2013 ballots (summarized earlier in the Business Meeting); d) a decision to hold a follow-up phone conference (held May 3, 2013) to discuss publication costs and other issues relative to financial status of the Society; e) a report from 2013 *Program Chair Kerry O'Donnell* on the Austin meeting; f) reports by *Managing Editor Karen Snelelaar* and *Editor-in-Chief Jeff Stone* on the financial outlook and status of *Mycologia*. As part of 18 email polls Council approved two new Associate Editors, bylaws changes for Fall 2012 and Spring 2013 ballots, the *Karling Lecturer*, five emeritus members, requests for discounted memberships from members in developing countries, and nominees for Honorary Member and MSA Fellow. The annual Council Meeting was held Saturday, August 10, 2013 at the Hilton Hotel in Austin from 1:30 – 6:00 pm. Issues discussed at that meeting were presented by *President Berbee* as part of her report earlier in the Business Meeting. *Executive Vice President Carris* reminded members to keep contact information, particularly emails, updated in the MSA Directory.
6. *Executive Vice President Carris* presented 112 new and returning members from 19 countries for approval. A motion to approve the new members was seconded, and the new members were unanimously approved by a vote of the membership.
7. *Executive Vice President Carris* presented the names of five Emeritus candidates for approval by the membership: *Dr. Joost Stalpers*, Centraalbureau voor Schimmelcultures, MSA member for over 40 years; *Dr. Jack Rogers*, Department of Plant Pathology, Washington State University, MSA member for 50 years; *Dr. Robert B. Peabody*, Biology Department, Stonehill College, Easton, MA, MSA member for 26 years; *Dr. Reinhard Agerer*, Institute for Systematic Botany, Munich, Germany, MSA member for 34 years; and *Dr. Jim Traquair*, Southern Crop & Food Protection, Agriculture and Agri-Food Canada, London, Ontario, MSA member for 40 years. The motion to approve Drs. Stalpers, Rogers, Peabody, Agerer and Traquair was unanimously approved by a vote of the membership.
8. *Treasurer Marc Cubeta* reported award allocations including \$6,000 for 12 Mentor Student Travel Awards at \$500 each, and \$14,200 for 11 research awards. *Treasurer Cubeta* acknowledged donors who had contributed to award funds including *Paul Stamets*, *Chun June Wang*, and *Rebecca Rader* of the North American Mycological Association. *Treasurer Cubeta* commented briefly on publication costs, the downward trend in

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membership, and the number of print requests (125) for the journal over the past year. He reported that endowments increased \$20,000 and 7 of the 17 mentor travel awards were at \$10,000 or greater this year. *Treasurer Cubeta* reported receipt of Emory Simmons' last will and testament that included a bequest of funds to MSA to establish a research and travel award in his name, and concluded his report by thanking the Society for their support during his term as MSA treasurer.

9. Awards presentations:

- a. *Honorary Awards Committee Chair John Taylor* called for member approval of Honorary Members Jens C. Frisvad and Wenying Zhuang. Dr. Frisvad's award was formally presented at the MSA Social and Awards Reception on Wednesday, August 14, 2013; Dr. Zhuang was unable to attend the Austin meeting.
- b. *Awards Coordinator Andy Methven* acknowledged Student Awards Committee members Imke Schmitt (Chair), Antonio Izzo, Julia Kerrigan, and Tim James and announced the following recipients of the 2013 MSA Fellowships—Alisha Owensby, Oregon State University, and Andrew Vandegrift, University of Oregon. Cesar Herrera, University of Maryland, was the 2013 recipient of the NAMA Award, and Aaron David, University of Minnesota, was the 2013 recipient of the Backus Award.
- c. *Research Awards Committee representative Ning Zhang* acknowledged committee members Teresa Pawlowska (chair), Betty Strack, David Geiser and Peter Kennedy, and presented the following awards: **Salomon Bartnicki-Garcia Award** to Alexis Carlson (Clark University); **Alexander H. and Helen V. Smith Research Award** to Nicholas Dowie (University of Wyoming); **Clark T. Rogerson Student Research Award** to Stephen Miller (Rutgers University); **Forest Fungal Ecology Research Award** to Sydney Glassman (University of California-Berkeley); **John W. Rippon Research Award** to Lucy Xie (University of Toronto); and the **Martin-Baker Award** to Carrie Andrew (The Field Museum, Chicago).
- d. *Mentor Student Travel Awards chair Heather Hallen-Adams* acknowledged committee members Melissa McCormick, Matia Cafaro and Brian Perry, and noted that 30 applications for travel awards were received. The following students received travel awards to attend the 2013 annual meeting in Austin: Justin Shaffer (E. Butler Travel Fund), Ko-Hsuan Chen (W.C. Denison Travel Fund), Jorge Diaz (Alma Whiffen Barksdale/John P. Raper Trav-

el Fund), Nicholas Dowie (H.D. Thiers Travel Fund), Dustin Sandberg (M.S. Fuller Travel Fund), Aaron David (K. Wells Travel Fund), Lisa Beirn (R. P. Korf Travel Fund), Alisha Owensby (C. J. Alexopoulos Travel Fund), Catalina Salgado (M. Barr Bigelow Travel Fund), Dimuthu Manamgoda (E.S. Luttrell Travel Fund), and Rachel Koch (O. K. Miller Travel Fund).

- e. *President-Elect Joey Spatafora* presented **Certificates of Appreciation** to Society members in recognition of exceptional service. These included outgoing *President Mary Berbee*, outgoing *Treasurer Marc Cubeta*, outgoing *Councilors Robert Blanchette, Terry Henkel, Ignacio Carbone and Ning Zhang*, *Program Chair Kerry O'Donnell*, *Local Organizer Brian Shaw*, *Inoculum Editor Don Natvig*, *Webmaster Kathie Hodge*, and *MSA Foray Coordinator Harold Keller*. *President-Elect Spatafora* also presented Certificates of Appreciation to, and noted the outstanding contributions of, *Managing Editor Karen Snetselaar* and *Editor-in-Chief Jeff Stone*, whose terms of office conclude at the end of 2013.

Photographs of award recipients were taken by *MSA member David Lewis*, and *President Berbee* congratulated all of the awardees.

10. Final Business

- a. *President Berbee* reminded members of IMC10 in Thailand (2014), and announced the locations of future MSA meetings: 2014 at Michigan State University in East Lansing; 2015 in Edmonton, Alberta, Canada with the Botanical Society of America; 2016 at the University of California-Berkeley; and 2017 at the University of Georgia, Athens. *Vice President Lodge* encouraged members to bring their students to the upcoming meetings, and announced a \$500 donation to support the travel of undergraduate students to enable them to present their research at annual meetings.
 - b. *President Berbee* announced the loss of members who passed away since the last meeting—Professor Lennart Holm (July 28, 2012), Professor Charles Bracker (November 4, 2012), Professor Larry Grand (March 14, 2013), Dr. Alan Taylor (March 18, 2013), and Dr. Emory Simmons (June 3, 2013)—and called for 30 seconds of remembrance.
11. *President Berbee* introduced the new President of the Mycology Society of America for 2013-2014, Joey Spatafora, who thanked members and, with the official chestnut gavel, officially adjourned the 2013 Business Meeting at 11:10 am.

Minutes of the 2013 MSA Council Meeting

**August 10, 2013
Hilton Hotel, Austin TX**

Call to Order and Approval of Minutes

The 2013 MSA General Council meeting was called to order at 1:38 pm on Saturday, August 10 in room 404 of the Hilton Hotel in Austin, TX. Attending were President Mary Berbee, President-Elect Joey Spatafora, Vice President Jean Lodge, Treasurer Marc Cubeta, Executive Vice President Lori Carris, Past-President David Hibbitt, Councilors Sarah Bergemann, Robert Blanchette, Terry Henkel, Peter Kennedy, Andy Methven, Rosa Mourino Perez, and Ning Zhang. Invited guests included Editor-in-Chief Jeff Stone, Managing Editor Karen Snetselaar; incoming officers Kerry O'Donnell and Sharon Cantrell; incoming councilors Tim James, Daniel Lindner, Andy Miller and Brian Shaw; and proposed MSA Student Section representative Mia Maltz. Executive Vice President Carris had distributed electronic copies of the annual meeting packet by email on Wednesday, August 7 and annual reports not available at that time were distributed individually and posted at an online site. The annual meeting packet included the meeting agenda, the 2013 annual reports, minutes of the 2012 Council meeting held in New Haven, CT, [Inoculum 63(4)], minutes of the 2013 Executive Council meeting held by teleconference [Inoculum 64(2)], the 2012-2013 Official Roster, and copies of the MSA Constitution and Bylaws. The Appendix included the IMC11 pre-proposal and a list of MSA members who had not renewed membership for 2013 that had been provided by Allen Press. The 2012 General Council Meeting minutes were approved by council vote without change. President Berbee thanked Program Chair Kerry O'Donnell, Brian Shaw (Local Arrangements), Editor-in-Chief Stone, and Managing Editor Snetselaar.

Approval of minutes – Executive Vice President Carris referred to the electronic version of the 2012 minutes in the Council packet and asked if there were any corrections.

Motion 1: Minutes of the MSA 2012 Annual Council Meeting approved by Council vote.

Officers' Reports

1. President's Report: President Berbee commented on Mycologia's declining institutional subscriptions, and the need for the Society to think creatively about ways to bring the journal to financial stability. Steps towards financial stability that were taken in 2013 included separating print copies of the journal from membership (approved by member vote in the Fall 2012 ballot), and Council approval to end automatically providing Honorary and Lifetime members with print copies. President Berbee commented on the activities of the proposed MSA Student Section including draft bylaws, and acknowledged the efforts of Mia Maltz. President Berbee referred to a poll sent out to Council on MSA committees on which student representatives could serve. Based on Council response, these include Honorary, Education, Membership, Endowment, Karling Lecture, ro-

tating expertise and annual meeting committees. President Berbee recommended that the Student Section, when approved, provide input to the MSA president on student representatives for the approved committees. President Berbee referred Council to draft text in the President's Annual Report on recommended bylaws changes required for the formation of Sections, including a Student Section, that will need to go before membership on the Fall 2013 Ballot, and called for Council vote on these changes.

Motion 2: Proposed changes to MSA Bylaws Articles 6 & 10 to allow establishment of Sections on ballot for Membership vote approved by Council vote.

Action Item: An announcement on establishment of MSA Student Section will be placed in Inoculum.

2. Treasurer's Report: Twelve mentor travel awards of \$500 each, and \$14,000 in research awards were given out by the Society in 2013. Treasurer Cubeta acknowledged the generous contribution of donors to these award funds. He also commented that none of the Rotating Committees utilized the \$500 that was authorized by Council to support symposia at annual meetings. Treasurer Cubeta expressed optimism regarding the financial outcome from the 2013 meeting. He noted a slight decrease in membership for 2013, as well as a change in membership structure that resulted in a net loss in income. In 2013, 125 members opted for a print subscription and endowment funds increased slightly. Discussion is needed on investment of endowment funds, with close communication between incoming Treasurer Cantrell and Finance Chair Lisa Castlebury, and Treasurer Cubeta suggested that in some cases, the original donors of endowment funds be contacted to confirm their intent. The death of longtime MSA member Emory Simmons and arrangements for MSA made as part of Dr. Simmons' will were noted.

Action Item: Outgoing Treasurer Cubeta will update Treasurer's section of the Manual of Operation and send to Council for input, and will conduct an audit as required for outgoing Society treasurer.

3. President-Elect's Report: President-Elect Spatafora reported that new appointments were needed for 28 committees; 21 have been filled, 7 listed as TBD but individuals were contacted and he anticipates having all appointments filled shortly. The 2016 meeting at Berkeley will be held August 7-11 with John Taylor and Tom Bruns as the local organizing committee. The contract will be signed by Aug. 31, 2013. Georgianna May has requested that Univ. of Minnesota be considered for the next open meeting slot—2019 would be welcome if 2018 is a conflict with IMC according to Councilor Peter Kennedy. P-E Spatafora thanked Managing Editor Karen Snetselaar for her work and reported that Cathie Aime had agreed to take over as Managing Editor starting in 2014. Editor-in-Chief Jeff Stone's out-

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standing service was also acknowledged. P-E Spatafora reported on progress in identifying individuals willing to serve as editors under an Executive Editor structure, and noted that proposed changes to MOP and Bylaws (in President-Elect's Annual Report) were drafted to provide flexibility to the Society in the editorship model implemented. PE Spatafora addressed questions from Council on the composition and responsibilities under an Executive Editor model.

Motion 3: Amendment to MSA Bylaws and Manual of Operation to allow for Executive Editor model approved by Council vote.

- 4. Vice President's Report:** Vice President Lodge reported that MSA members approved online access to Mycologia and a postdoctoral member category as part of the 2012 Fall Ballot. Explanatory text inadvertently included in the 2012 Fall Ballot was corrected by member vote, and change to electronic communication with members, were both approved in the 2013 Spring Ballot. VP Lodge welcomed new Executive and General Council members Kerry O'Donnell (Vice President), Sharon Cantrell (Treasurer), Brian Shaw (Councilor, Cell Biology/Physiology), Tim James (Councilor, Genetics/Molecular Biology), Andy Miller (Councilor, Systematics/Evolution), and Daniel Lindner (Councilor, Ecology/Pathology). VP Lodge outlined the rationale for selecting the University of Georgia as the location for the 2017 MSA meeting, including venue, transportation, and ties to the Latin American Mycological Society.
- 5. Executive Vice President's Report:** Executive Vice President Carris referred to the annual report provided as part of the packet, which included Council activities since the midyear report [published in *Inoculum* 64 (2)]. Council was referred to the list of 112 new members representing 19 countries; new members will be presented to members at the 2013 Business Meeting (Sunday, August 11) for approval. Five members—Joost Stalpers, Jack Rogers, Robert B. Peabody, Reinhard Aegerer, and Jim Traquair—were previously approved by Council via email poll for Emeritus status and will be presented for member vote at the Business Meeting. The deaths of MSA members Lennart Holm, Charles Bracker, Larry Grand, Alan Taylor and Emory Simmons were reported.

President Berbee called for a 15-minute Council break at 3:15 pm.

- 6. Mycologia Editor-In-Chief's Report:** Editor-in-Chief Jeff Stone reported receiving a steady stream of manuscripts over the past year that resulted in larger issues, decreased acceptance rate (now 40%) with approximately 20% of manuscripts rejected without review, and no backlog of manuscripts. EIC Stone announced the pending publication of Barbara Valent's 2012 Karling Lecture, which will be the third Karling Lecture in a row to be published. Prior to 2012, none of Karling Lectures had been published. The quality of papers published in *Mycologia* is excellent, and EIC Stone noted the manuscripts edited by David Hibbett and Jason Stajich as part

of the upcoming fungal genome issue. He expressed appreciation to all of the Associate Editors and to Managing Editor Karen Snetselaar. EIC Stone referred to several action items from the Executive Council Midterm Meeting:

- Changes to forms for page charges and the ongoing discussion on page charge policy; the difficult balance between financially supporting journal and losing good papers because authors object or are unable to pay page charges. EIC deferred this issue to the next Editor-in-Chief.
- The decision was made to go to a slightly lighter weight paper for 2014, which will result in a modest amount of savings in printing and mailing.

EIC Stone reported that EBSCO is interested in including *Mycologia* in their academic search international database. EBSCO wants full text of *Mycologia* and in return the Society would receive a small royalty; this arrangement is similar to JSTOR, but would not include as much of the past content.

Action Item: EIC Stone will share a list of other societies that are included as part of EBSCO database as part of a separate report to Council.

EIC Stone advised Council to consider working with a publishing professional on marketing *Mycologia* and offered to provide a list of names of individuals to consider. The cost of this type of service would depend on the Society's needs. EIC Stone recommended that MSA consider joining a professional publishing organization comprised of academic publishers facing issues similar to MSA, and noted some of the benefits of this type of association. President Berbee recommended that Council start with a self-assessment before we go to a professional publishing consultant and referred to a questionnaire provided by Allen Press. EIC Stone recommended that the responsibility for handling early online articles be assigned to the Assistant Editor. The Managing Editor has been handling early online articles. He reported that the Nomenclature FAQ has been helpful and far fewer nomenclatural errors have shown up in submitted manuscripts. EIC Stone referred to impact factor data in Table 1 in his annual report and data available on the Reuter's website that are favorable for *Mycologia*—papers published 10-20 years ago continue to be cited, underscoring the longevity of individual articles, one of the strengths of the journal. He also referred to online statistics which are steadily increasing for *Mycologia*. As a final note, EIC Stone noted he has been contacted by other publishers expressing interest in *Mycologia*, another indication of the quality of the journal.

Action Item: EIC Stone will explore the costs associated with hiring a professional publishing consultant, will obtain more information on EBSCO and different options (for example, paper view only).

- 7. Managing Editor's Report:** ME Snetselaar explained to Council some of the challenges in interpreting data

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used in preparing her annual report. The Society uses an accounting system where expenses are entered when they are paid—and that may not be in the same year that the issue that incurred the expenses is published. ME Snetselaar reminded Council that prior to 1999, *Mycologia* was published in a cooperative publishing arrangement with the New York Botanical Garden and to consider this in exploring publishing options for the future. Referring to a chart in her annual report showing expenses to income, ME Snetselaar said that in general, the journal finances are in reasonable shape, but cautioned against continuing to publish issues with increased numbers of pages. The cost of color is going down but a major cost is the paper used for color. The journal is including more color figures, more features online, and publishing more pages, but at the present time, it is still coming in under budget. Referring again to a figure in her annual report showing subscriptions, ME Snetselaar remarked on the long-term erosion of the subscription base; subscriptions are declining but subscription rates are increasing annually at 3-5%. Libraries are flagging journal subscriptions that go up 10% or more annually. In reference to the separation of print from membership, the Society has a net loss compared to where we would be had the membership structure not changed. Additionally, many members (e.g., Lifetime and Honorary) do not pay annual dues. The journal income/member for 2013 was \$65 compared to \$70 in 2012. ME Snetselaar recommended that the Society offer a special membership plus registration for future annual meetings, and also consider selling memberships at the annual meetings. She also recommended to Council that members be given an option of paying the actual cost of the print subscription (\$250). This would essentially be a Sustaining Membership. Referring to a bar graph in her annual report showing what the Society carries forward each year, ME Snetselaar pointed out that the end of the fiscal year (July) is the Society's financial low point. The carry-over has gone over \$300,000 and this is an improvement to where we were financially in 2004. A general guideline for nonprofit organizations is carry-over equal one year of operating costs—MSA is at that level—so this would be a good time for the Society to consider non-incremental rather than minor changes. ME Snetselaar recommended, as an example, that Council could hire a professional to develop templates for the Treasurer's reports. ME Snetselaar requested Executive Council ensure that the membership renewal information include language indicating that we do not guarantee back copies of print for late renewal. ME Snetselaar cautioned Council to carefully consider what unintended consequences could occur when approving changes to subscription rates.

Action Item: Designate one member of the Membership Committee to focus solely on Sustaining Members.

Motion 4: Invite chairs of the Finance and Endowment Committees to meet with Council and have access to QuickBooks for generating reports approved by Council vote.

Annual Meetings Reports:

MSA 2014—East Lansing, MI
MSA 2015—Edmonton, Alberta, Canada
MSA 2016—Berkeley, CA
MSA 2017—Athens, GA

Executive Vice President Carris referred to the 2014 Annual Meeting Report in the Council Packet. President Berbee, referring to the 2015 Annual Meeting in Edmonton, noted that she had been unable to find a local organizer and volunteered to take on this responsibility. President-Elect Spatafora and Vice President Lodge provided updates on the 2016 and 2017 meetings, respectively, as part of their annual reports.

IMC11 Proposal: Sharon Cantrell referred to a copy of the IMC11 pre-proposal in the Council Packet. A full proposal, if invited, will be due in February 2014. No major changes are anticipated from the proposal submitted for IMC10 except for identifying a theme. Estimated costs are \$285,000 including all facilities (meeting room costs are waived), and opening ceremony, coffee breaks, hors d'oeuvres for poster session, and closing ceremony. Registration of \$500-600/registrant is recommended; IMC gives reduced rates for participants from developing countries. MSA may be able to negotiate a deal to include lunch in registration costs. Hotel estimates provided in the Council Packet include several different hotels in which blocks of rooms could be reserved. The Sheraton is designated as the Congress headquarters. VP Lodge recommended that if the IMC11 bid is accepted, MSA add an extra day to the meeting schedule to accommodate MSA business, and President-Elect Spatafora recommended that a student speaker be added to each symposium as part of the IMC11 proposal.

Action Item: Incoming President Spatafora will write a letter of support for IMC11 pre-proposal immediately after the MSA Austin meeting.

Motion 5: Submission of the IMC11 pre-proposal approved by Council vote.

New Business

8. Discussion on general services needed from publisher: Services needed from Allen Press include Financial Advisor (e.g., tracking CDs), Accountant (preparing taxes) and stream-lined electronic transaction process. Finance Committee Chair Lisa Castlebury has recommended that MSA move to a professionally managed account structure; this would involve paying Wells Fargo to manage the Society's account, which is now just over \$1 million. Council discussed the advantages and disadvantages of having a professionally managed account and how to get advice on proceeding in this direction. This was left as unfinished business.

Action Item: Incoming VP Lodge and incoming President Spatafora will develop a flow chart illustrating desired MSA Business website navigation.

Action Item: Allen Press Association Manager will be invited to attend the 2014 Council Meeting.

Continued on following page

9. Report on Student Section and role within MSA: President Berbee asked Student Section representative Mia Maltz to provide Council with an update on the activities of the Student Section. Activities reported included development of a meeting proposal to NSF, use of online tools to conduct polls and develop bylaws, a board meeting planned for Wednesday, August 14 to ratify bylaws, a student mixer to be held during the MSA meeting, sale of merchandise, and development of a newsletter. A detailed report of activities is provided in the Annual Report of the Student Section.

10. Undergraduate Student Awards: As part of the discussion on undergraduate student awards Councilor Bergemann indicated that some potential donors to the undergraduate research fund have requested information, for example, on whether the Society requires an award fund reach the \$10,000 level before awards can be made. The \$10,000 amount is a guideline based on interest generated by the funds, and Council can vote to give out awards before that level is reached. Recommendations that were made by Council included award levels, a MSA matching donation, and a requirement that award recipients provide a report to be made available to donors. Action items relating to the undergraduate award are as follows:

Action Item: Peter Kennedy will modify wording to MOP to indicate that the recipient of the Martin-Baker Award will serve on the Awards Committee.

Action Item: The MSA treasurer will look favorably upon awarding \$500 to undergraduates even the fund is not at the full endowment amount. Award will be given out starting in 2014.

Action Item: Sarah Bergemann will develop criteria for the Undergraduate Award.

11. International Committee Request for Travel Support: Executive VP Carris briefly presented a list of in-

ternational meetings including the Congreso Latinoamericano de Micología (November 4-7, 2014 in Medellín, Colombia) identified for MSA travel support by International Committee member Maria Alice Neves. The request will be presented for Council approval as an email poll.

Action Item: Executive VP Carris will send out a list of international meetings proposed for travel support for Council approval as an email poll.

12. Summary of submitted committee reports: Executive VP Carris referred Council to committee reports provided as part of the Council Packet, including a recommendation by the Honorary Committee that Council consider increasing the number of MSA fellows.

Action Item: Discussion on the change in the number of MSA fellows proposed by the Honorary Committee will be handled by email poll of Council.

13. Summary of Action Items from 2013 Executive Council Meeting: Presented to Council as information.

Other action items generated by Council are as follows:

Action Item: Incoming Treasurer Sharon Cantrell will organize a conference call with the Financial and Endowment Committee chairs to discuss financial aspects of the society.

Action Item: President Berbee will thank committees that made an effort to organize symposia.

President Berbee summarized the Council Meeting motions, action items and discussion, and thanked Council and guests for their participation. Executive Vice President Carris will provide Council members and guests with a list of approved motions and action items. Meeting adjourned at 6:00 pm.

MYCOLOGICAL NEWS

Undergraduate Research Award: Announcement and Call for Contributions

Dear Fellow Mycologists,

We are soliciting your financial assistance and student applications for the MSA Undergraduate Research award. Each year, the Mycological Society of America awards several graduate fellowships to support the research and professional development of young scientists that show promise in the field of mycology. These annual awards are made possible by the generous support of MSA benefactors and society members and are an important component of the society's mission to promote opportunities for young mycologists.

This year, the MSA Education and Endowment Committees have initiated the Undergraduate Research Award to enhance opportunities for undergraduate students pursuing

research projects in mycology. We anticipate that this award will be an important tool in supporting young scientists as they explore their interest in fungal biology. We hope that all MSA members will encourage excellent undergraduate mycologists to apply for this award. We also ask that all society members consider contributing funds to support this important new award.

The Undergraduate Research Award will be offered for student research covering any topic related to fungal biology (and organisms traditionally studied by mycologists) including: medical mycology, cell biology, physiology, systematics, evolution, genomics, and ecology. The undergraduate

Continued on following page

student awardee will conduct independent or directed research under the guidance of a research mentor. This award is open to all undergraduate students with sophomore, junior, or senior standing. The selection of award recipients will be based on the merit of the proposed research with special attention given to the potential of the student to contribute to existing knowledge of fungal biology. Award decisions will be based on the quality of the application and the qualifications of the individual undergraduate student who is applying. Special consideration will not be given to a student based on the specific nature of the academic institution from which they are applying. The fellowships will be selected based on scholastic achievements (with a copy of transcripts), a research proposal outlining the planned project and timeline (limited to 2 pages including references cited)

and a letter of recommendation from the research mentor. The Student Award committee will select the recipient each year.

In 2014, the award will be given. As with other MSA awards applications and nominations are invited near the end of each calendar year, with a submission deadline of February 15. The MSA awards are publicly announced at the annual MSA meeting, which typically takes place in July or August. For application information, please see the MSA website.

To contribute to this endowment, simply go to the website (<http://psfebus.allenpress.com/eBusMYSA/DONATIONS.aspx>), select the page for "Undergraduate Award," and then enter information on the amount you would like to donate and the method of donation.

MYCOLOGICAL CLASSIFIEDS

Biological Control, Biotechnology and Regulatory Services

Center for Regulatory Research, LLC specializes in regulatory permit application services for biological control and biotechnology organisms/products. Let us evaluate your research discoveries for commercial potential and environmental impacts. We also offer assistance with writing pro-

posals for SBIR grant programs (Small Business Innovation Research) that fund new commercial ventures. Contact Dr. Sue Cohen by email (sdcohen@regresearch.com) or by phone (612-246-3838). For more information about our company, visit our website at www.regresearch.com.

Mold and Fungus Testing and Identification Services

Biochallenge tests for ink, microfluidic materials; testing for resistance of materials to fungal invasion. Identification of fungal contaminants in manufactured products. Epifluorescent microbial detection in deionized water systems, microfluidic devices, medical fluids, manufactured goods.

Identification of fungi from buildings, animal and plant diseases. 10% discount for regular and sustaining MSA members. Email info@pacificanalytical.com. For more information see www.pacificanalytical.com

Mycology Books For Sale — Harris

Please send email offers for specific items to jandcharis@sbcglobal.net

- Common Mushrooms of the United States. Louis C. C. Krieger. National Geographic Magazine. May 1920.
- Marvels of the Mycetoza. William Crowder. National Geographic Magazine. April 1926.
- Bizarre World of the Fungi. Paul A. Zahl. National Geographic Magazine. October 1965.
- Introductory Mycology. C. W. Alexopoulos and C. W. Mims. 3rd edition. 1979
- Ainsworth & Bisby's Dictionary of the Fungi. G. C. Ainsworth. 6th edition. 1971
- Fungal Dimorphism With Emphasis on Fungi Pathogenic for Humans. Edited by P. J. Szanislo. 1985.
- Laboratory Methods in Medical Mycology. L. D. Haley and C. S. Callaway 4th Edition. 1978.
- The Genera of Fungi Sporulating in Pure Culture. J. A. von Arx. 1970.
- Lower Fungi in the Laboratory. Edited by M. S. Fuller. 1978.

- Mycology An Outline for Science and Medical Students. E. Muller and W. Loeffler. Translated by Bryce Kendrick and Felix Barlocher. 1976.
- Fungi. L. E. Hawker. 1966.
- Genera of Hyphomycetes. J. W. Carmichael et al. 1980.
- Zoospore Fungi in Teaching and Research. Edited by M. S. Fuller and A. Jaworski. 1987.
- Zygomycetes in Culture. K. L. O'Donnell. 1979.
- A Monograph of the World Species of Hypoxylon. J. H. Miller. 1961.
- The Genus Tilletia. R. Duran and G. W. Fischer. 1961.
- The Role of Culture Collections in the Era of Molecular Biology. Edited by R. R. Colwell. 1976
- The Genera of Hyphomycetes from Soil. G. L. Barron. 1968.
- Laboratory Manual for Introductory Mycology. C. J. Alexopoulos and E. S. Beneke. Third Printing, 1965.
- The Whole Fungus. Vol 1 and 2. Edited by B. Kendrick. 1979.
- Mushrooms of North America. O. K. Miller, Jr. 1972.

Continued on following page

- Principles of Microbial Ecology. T. D. Brock. 1966.
- Laboratory Guide for Introductory Mycology. R. T. Hanlin. 1975.
- Food & Beverage Mycology. L. R. Beuchat. 1978.
- Medical Mycology. The Pathogenic Fungi and The Pathogenic Actinomycetes. J. W. Rippon. 1974.
- The Gilled Mushrooms of Michigan and the Great Lakes Region. C. H. Kauffman. Vol 1&2. 1974.
- Handbook of Plant and Fungal Toxicants. Edited by J. P. F. D'Mello. 1997.
- Medical Mycology A Self-Instructional Text. 2nd Edition. M. E. Kern and K. S. Blevins. 1997.

Mycology Books For Sale — Parker

I have been a MSA member since 1971, retired from UW-Waukesha in May 2011, and wish to sell some technical mycology books. I have a number of monographs from the 1900s-1970s, and bound reprints by Micheli (1729/1976), Schweinitz (1832/1967), and Tulasne & Tulasne (1869/1931). Among the other books are Bourdot & Galzin (1928), Cunningham (1963) New Zealand and Australia Thelephoraceae, Snell & Dick (1970) Boleti, Cokers & Beers (1943) Boletaceae, Munk (1957) Danish Pyreno-

mycetes, Ainsworth & Sussman (1967-1973) Fungi Vols I-IVB, Martin & Alexopoulos (1969) Myxomycetes, Kauffman (1918) Agaricaceae of Michigan Vols I-II, Wasson & Wasson (1957) Mushrooms, Russia, and History Vols I-II, slipcase, excellent condition, will sell \$800 less than any internet dealers. Also have about 50 other books.

For the complete list with prices, please email Alan Parker at: alananddiana@att.net. For specific information I can also be reached at 262-542-7688.

Mycology Books For Sale — Setliff

Please email best offers to e.d.setliff@gmail.com. S & H will be actual costs. A portion of the proceeds will be given to the MSA general fund and the R.L. Gilbertson Travel Fund.

- A Field Guide to Southern Mushrooms. 1985. Nancy Smith Weber and A.H. Smith. ISBN 0-472-85615-4. - Excellent Condition.
- All Color Book of Mushrooms and Fungi: 104 illustrations in Color. 1973. Moira Savonius. ISBN 0 7064 0192 1. - Like New
- A Morel Hunter's Companion: A Guide to True and False Morels. 1995. Nancy Smith Weber. ISBN 1-882376-16-1. - Like New.
- Collins Guide to Mushrooms & Toadstools. 1963. M. Lange & F.B. Hora. - Good Condition.
- Fungi of Britain and Europe. 1989. S. Buczacki. Paper back ISBN 0 00 219448. - Excellent Condition
- Mushrooms: the Visual Guide to more than 500 species of mushroom from around the world. 1998. T. Læssøe. ISBN 0-7894-3335-4. - Flexibinding, Like New.
- Mushrooms: A Quick Reference Guide to Mushrooms of North America. 1987. A. Bessette & W. J. Sundberg. ISBN 0-02-063690-3. - Excellent Condition.
- Mushrooms of North America. O.K. Miller, Jr. ISBN 0-525-16165-1. - Good Condition
- Mushrooms of the Boreal Forest. 1997. E.F. Bossenmaier. ISBN 0-88880-355-9. - Like New.
- Mushrooms in Color: How to know them . . . Where to find them . . . What to Avoid. 1980. O.K. Miller, Jr. & Hope H. Miller. ISBN 0-525-93190-0. - Excellent condition.
- Mushrooms and Toadstools in Colour. 1961. Else & H. Hvass. - Good Condition.
- Mushrooms of Western Canada. Helene M.E. Schalkwijk-Barendsen. 1991. ISBN 0-919433-47-2. - Excellent Condition
- Simon & Schuster's Guide to Mushrooms: with Over 400 Full-Color Illustrations of Mushrooms and Other Fungi. 1981. G. Pacioni, edited by G.H. Lincoff. ISBN 0-671-42849-7. - 2 copies, Like New
- The New Savory Wild Mushroom. 1962. Margaret McKenny and D.E. Stuntz. Revised and enlarged by J.F. Ammirati. ISBN 0-295-96480-4. - Excellent Condition
- The Field Guide to Mushrooms. Revised, Updated, and with Photographs & Drawings by Marie F. Heerkens. 2003. ISBN 1-4027-0696-0. - Excellent Condition
- The Mushroom Hunter's Field Guide: Revised and Enlarged. 1964. A.H. Smith. - Fair Condition
- Toxic and Hallucinogenic Mushroom Poisoning: A Handbook for Physicians and Mushroom Hunters. 1977. G. Lincoff & D.H. Mitchel, M.D. ISBN 0-442-24580-7 - Good Condition.
- Mycotoxins in Human Health. 1971. Edited by I.F.H. Purchase. ISBN 333 13146 0. - Good Condition

MYCOLOGICAL JOBS

Postdoctoral Position in France

The biophysics of growth and morphogenesis of the human pathogenic opportunistic fungus *Candida albicans*, iBV, Institute of Biology Valrose, Nice, France

LPMC, Condensed Matter Physics Lab.

http://msafungi.org/wp-content/uploads/post-doc_nice_biophysicsraas.pdf

MYCOLOGIST'S BOOKSHELF

We have no reviews for this issue. The updated list of books available for review includes three new books that have recently come available. If you are interested in reviewing a book, contact me (robert.marra@ct.gov) and I will have the book “drop-shipped” directly from the publisher; this will streamline the process at my end and will save our Society from racking up considerable shipping expenses. A book goes to the first person requesting it, and I ask that you get your reviews to me in a reasonably timely manner. Also, if you know of a newly published book that might be of interest to mycologists, please let me know so I can request it from the publisher.

—Bob Marra

Books in Need of Reviewers

- **Cultivation and Diseases of Proteaceae: Leucadendron, Leucospermum and Protea.** 2013. Pedro Crous, Sandra Denman, Joanne E. Taylor, Lizeth Swart, Carolien M. Bezuidenhout, Lynn Hoffman, Mary E. Palm, and Johannes Z. Groenewald. CBS Biodiversity Series 13. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-95-3. 360 pp, fully illustrated with color pictures. A4 format. Price: € 75 (hardcover, bound).
- **The Genus Tricholoma.** 2013. Fungi of Northern Europe, v.4. Morten Christensen and Jacob Heilmann-Claassen. Koeltz Scientific Books, Koenigstein, Germany. www.koeltz.com. ISBN: 978-8-798-35818-3. 228 pp, with color illustrations. € 56 (hardcover).
- **Rosellinia – a world monograph.** 2013. Liliane E. Petrini. Bibliotheca Mycologica, Band 205. www.schweizerbart.de/. ISBN: 978-3-443-59107-6. 410 pp, 72 photograph plates and line drawings. € 119 (paperback).
- **Fusarium: Genomics, Molecular and Cellular Biology.** 2013. Daren W. Brown and Robert H. Proctor, eds. Caister Academic Press, Norfolk, UK. www.caister.com. ISBN: 978-1-908230-25-6. 182 pp plus color plates. \$319 (hardcover).
- **Tricholomas of North America.** 2013. *The Corrie Herring Hooks Series No. 68.* Alan Bessette, Arleen Bessette, William Roody, Steven Trudell. University of Texas Press. <http://www.utexas.edu/utpress/>. ISBN 978-0-292-74233-8. 220 pp, 186 color photos. Price \$29.95 (softcover).
- **Development of Aspergillus niger.** 2013. J. Dijksterhuis, H. Wosten (Eds.). CBS Studies in Mycology No. 74. CBS Fungal Biodiversity Centre. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-93-9. 85 pp, fully illustrated with color pictures (A4 format). Price: € 40 (softcover).
- **Microbial Carotenoids from Fungi: Methods and Protocols.** 2012. Jose-Luis Barredo (Ed.). Humana Press (Springer). www.springer.com. ISBN: 978-1-61779-917-4. 290 pp, 51 illus., 9 in color. Price: \$119 (hardcover); \$94.99 (e-book).
- **Plant Fungal Pathogens: Methods and Protocols.** 2012. Melvin D Bolton, Bart PHJ Thomma (Eds.). Part of the “Methods in Molecular Biology” series, v.835. Springer-Verlag, Berlin. www.springer.com. ISBN: 978-1-61779-500-8. 769 pp, 138 illus., 74 in color. Price: \$159.00 (hardcover).

** New this issue

Books with Reviewers Assigned

- **The Mycota, Vol. 10: Industrial Applications, 2nd ed.** 2011. Martin Hofrichter (Ed.). Karl Esser (Series Ed.). Springer. www.springer.com. ISBN: 978-3-642-11457-1. 485 pp, 152 illus. Price: \$269.00 (hardcover).
- **Edible Ectomycorrhizal Mushrooms: Current Knowledge and Future Prospects.** 2012. Alessandra Zambonelli and Gregory Bonito (Eds.). Springer. www.springer.com. ISBN 978-3-642-33822-9. 409 pp, 35 illus (16 in color). Price: \$209 (hardcover); also available as eBook pdf download, ISBN 978-3-642-33823-6, \$159.
- **Taxonomic Manual of the Erysiphales (Powdery Mildews).** 2012. Uwe Braun and R.T.A. Cook. CBS Biodiversity Series 11. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-89-2. 707 pp, 853 figures. Price: € 80 (hardcover).
- **Biodiversity in Dead Wood.** 2012. Juha Siitonen, Bengt Gunnar Jonsson. Cambridge University Press, Cambridge, UK. www.cambridge.org. ISBN: 9780521717038. 524 pp, 92 b/w illus. 21 tables. Price: £38.00 (paperback).
- **Pollination Biology.** 2012. D. P. Abrol. Biodiversity, Conservation, and Agricultural Production. Springer-Verlag, Berlin. www.springer.com. ISBN: 978-94-007-1941-5. 792pp, 23 illus., 18 in color. Price: \$209.00 (hardcover).
- **Fungal Plant Pathogens (Principles and Protocols Series).** March 2012. CR Lane, P Beales, KJK Hughes (Eds.). CABI, Oxfordshire, UK. www.cabi.org. 978-1-8459-3668-6. 324 pp. Price: \$75.
- **Practical Guide to Turfgrass Fungicides.** 2011. Richard Latin. APS Press, St. Paul, MN. www.apsnet.org. ISBN: 978-0-89054-392-4. 280 pp, 115 images, 29 chemical structures. Price: \$139.95 (hardcover).
- **Coalescent Theory: An Introduction.** 2009. John Wakely. Roberts & Company Publishers, Greenwood Village, CO. www.roberts-publishers.com/. ISBN: 978-0-9747-0775-4. 352 pp, b&w. Price: \$48 (softcover).

Continued on following page

- **Biology of Marine Fungi.** 2012. Chandralata Raghukumar (Ed). Part of the "Progress in Molecular and Subcellular Biology" series, v.53. Springer-Verlag, Berlin. www.springer.com. ISBN: 978-3-642-23341-8. 354 pp, 83 illus., 27 in color. Price: \$209.00 (hardcover).
- **Tree Thinking: An Introduction to Phylogenetic Biology.** Available July 2012. David Baum and Stacey Smith. Roberts & Company Publishers, Greenwood Village, CO. www.roberts-publishers.com/. ISBN: 978-1-9362-2116-5. 400 pp, b&w. Price: \$60 (hardback).
- **Forest Health: An Integrated Perspective.** 2011. John D. Castello, Stephen A. Teale (eds.). Cambridge University Press, Cambridge, UK. www.cambridge.org. ISBN: 9780521766692. 404 pp, 80 b/w illus. 7 tables. Price: £65.00 (hardcover).
- **Yeast Research: An Historical Overview.** 2011. James A. Barnett, Linda Barnett. ASM Press, Washington, DC. www.asmpress.org. ISBN: 978-1-55581-516-5. 392 pp, illus. Price: \$159.95 (hardcover).
- **Medically Important Fungi: A Guide to Identification, 5th ed.** 2011. Davise H. Larone. ASM Press, Washington, DC. www.asmpress.org. ISBN: 978-1-55581-660-5. 508 pp, illus, color plates. Price \$109.95 (hardcover).
- **Microbial Biofilms: Current Research and Applications.** 2012. Gavin Lear, Gillian D. Lewis (Eds.). Caister Academic Press, Norfolk, UK. www.caister.com. 228 pp. Price: GB £159, US \$310 (hardcover).
- **Atlas of Soil Ascomycetes.** 2012. J. Guarro, J. Gene, A.M. Stchigel and M.J. Figueras. CBS Biodiversity Series 10. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-88-5. 486 pp, 322 figures. Price: € 70 (hardcover).
- **Texas Mushrooms: A Field Guide.** 1992 (new preface 2013). *The Corrie Herring Hooks Series No. 18*. Susan Metzler and Van Metzler (Orson K. Miller, Jr., Scientific Adviser). University of Texas Press. <http://www.utexas.edu/utpress/>. ISBN 978-0-292-75126-2. 360 pp, 249 illustrations, 2 figures, 1 map, 11 tables. Price: \$39.95 (softcover).
- **Fungal Biology in the Origin and Emergence of Life.** 2013. David Moore. Cambridge University Press. www.cambridge.org. ISBN: 978-11-07652-77-4. 236 pp, 28 b/2 illus, 2 tables. Price: \$42.99 (softcover).
- **Fascinated by Fungi: exploring the majesty and mystery, facts and fantasy of the quirkiest kingdom on earth.** 2011. Pat O'Reilly. First Nature. www.first-nature.com. ISBN 978-0-095-60544-3-2. 450 pp, over 1000 color photos. Price: £24.95.
- **The Mycota, v.IX: Fungal Associations.** 2012. Bertold Hock (Ed.). Springer. www.springer.com. ISBN 978-3-642-30825-3. 406 pp, 84 illus (62 in color). Price: \$269 (hardcover). Also available as eBook (pdf download), price: \$209.
- **Funga Nordica, 2nd ed. 2012. H. Knudsen and J. Vesterholt (Eds.).** Nordsvamp, Copenhagen. ISBN: 9788798396130. 1083 pp (2 volumes). Price £95, €111.15.
- **The Analysis of Biological Data.** 2009. Michael Whitlock and Dolph Schluter. Roberts & Company Publishers, Greenwood Village, CO. www.roberts-publishers.com/. ISBN: 978-0-9815-1940-1. 704 pp, full color. Price: \$80 (hardback).
- **Ophiostomatoid Fungi: Expanding Frontiers.** 2013. K. Seifert, Z. Wilhelm de Beer, M. J. Wingfield (Eds.). CBS Biodiversity Series 12. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-94-6. 337 pp, fully illustrated. Price: € 75 (hardcover).
- **Neurospora: Genomics and Molecular Biology.** January 2013. D. P. Kasbekar and K McCluskey (Eds.). Horizon Press. <http://www.horizonpress.com>. ISBN: 978-1-908230-12-6. 294 pp, w/illus. Price: \$319 (hardback).
- **Cold-Adapted Microorganisms.** 2013. I. Yumoto, ed. Caister Academic Press, Norfolk, UK. www.caister.com. ISBN: 978-1-908230-26-3. 226 pp plus color plates. \$319 (hardcover).
- **Indian Coelomycetes.** 2012. J. Muthumary. MJP Publishers, New Delhi, Indian. <http://www.mjppublishers.com/index.html>. ISBN: 978-81-8094-162-7. 366 pp, illustrations and photomicrographs. \$50 (hardcover).
- **The Kingdom of Fungi.** 2013. Jens H. Petersen. Princeton University Press. <http://press.princeton.edu/>. ISBN: 978-06-91157-54-2. 256 pp, 800+ color photos. \$29.95 (cloth). Also available as eBook.
- **A Primer of Botanical Latin with Vocabulary.** Available March 2013. Emma Short & Alex George. Cambridge University Press. www.cambridge.org. ISBN 978-11-07693-75-3. 102 tables, 21 exercises. Price £24.99 (paperback).
- **Key For Identification of Common *Phytophthora* Species.** 2011. Jean Beagle Ristaino. APS Press, St. Paul, MN. www.apsnet.org. ISBN: 978-0-89054-397-9. CD-ROM. Price: \$269.00 (single user).
- **Laboratory Protocols in Fungal Biology: Current Methods in Fungal Biology.** Avail June 2012. Vijai Kumar Gupta, Maria Tuohy, Eds. Springer-Verlag, Berlin. www.springer.com. ISBN: 978-1-4614-2355-3. 802 pp, 105 illus., 40 in color. Price: \$279.00 (hardcover). *Review Copy online only; hardcover copy provided following receipt of published review.*

MYCOLOGY ON-LINE

Below is an alphabetical list of websites featured in *Inoculum*. Those wishing to add sites to this directory or to edit addresses should email dnavtig@gmail.com. **Unless otherwise notified**, listings will be automatically deleted after one year (at the editors discretion).

In depth information about the genus *Amanita*

www.amanitaceae.org

A New Web Page About Tropical Fungi, Hongos Del Parque "El Haya" (58-5)
hongosdelhaya.blogspot.com/

ASCOFrance.com, a very useful site for illustrations of ascomycetes including anamorphs (accessible in both French and English)
ascofrance.com/?lang=us

Ascomycota of Sweden

www.umu.se/myconet/asco/indexASCO.html

Basidiomycete Research Group (University of Helsinki, Finland) studies systematics, ecology and evolution of fungi in forest environment.

www.basidio.fi

Bibliography of Systematic Mycology

www.speciesfungorum.org/BSM/bsm.htm

Cold Spring Harbor Laboratory; Meetings & Courses Programs (58-2)
meetings.cshl.edu

Collection of 800 Pictures of Macro- and Micro-fungi

www.mycolog.com

Cordyceps Website

www.mushtech.org

Cornell Mushroom Blog (58-1)

<http://blog.mycology.cornell.edu/>

Cortbase (58-2)

andromeda.botany.gu.se/cortbase.html

Corticoid Nomenclatural Database (56-2)

www.phyloinformatics.org/

The Cybertruffle internet server for mycology seeks to provide information about fungi from a global standpoint (59-3).

www.cybertruffle.org.uk

Cyberliber, a digital library for mycology (59-3).

www.cybertruffle.org.uk/cyberliber

Cybernome provides information about fungi and their associated organisms, with access to over 548,000 records of scientific names (59-3).

www.cybertruffle.org.uk/cybernome

Dictionary of The Fungi Classification

www.indexfungorum.org/names/fundic.asp

Distribution Maps of Caribbean Fungi (56-2)

www.biodiversity.ac.psiweb.com/carimaps/index.htm

Entomopathogenic Fungal Culture Collection (EFCC)

www.mushtech.org

Fungal Environmental Sampling and Informatics Network (58-2)

www.bio.utk.edu/fesin/

Fungi of Ecuador

www.mycology.com/Ecuador.html

German Mycological Society DGfM

www.dgfm-ev.de

Glomeromycota PHYLOGENY

amf-phylogeny.com

International Society for Human and Animal Mycology

www.isham.org

Medical Mycology journal

www.isham.org

MYCO-LICH facilitates mycology and lichenology studies in Iran.

www.mycology-lich.com

Mycologia

mycologia.org

Humboldt Institute — Located on the eastern coast of Maine, the institute is known for the series of advanced and professional-level natural history seminars it has offered since 1987, along with ecological restoration seminars and expeditions to the neotropics. It publishes the two peer-reviewed journals, *Northeastern Naturalist* and *Southeastern Naturalist*.

www.eaglehill.us

Taxonomy of the Hysteriaceae & Mytiliniaceae (Pleosporomycetidae, Dothideomycetes, Ascomycota) to facilitate species identification using a

set of updated and revised keys based on those first published by Hans Zogg in 1962. 59(4)

www.eboehm.com/

Index of Fungi

www.indexfungorum.org/names/names.asp

Interactive Key to *Hypocreales* of Southeastern United States (57-2)

nt.ars-grin.gov/sbmlweb/fungi/keydata.cfm

ISHAM: the International Society for Human and Animal Mycology

www.isham.org

JSTOR (58-3)

jstor.org

Libri Fungorum Mycological Publications (58-3)

194.203.77.76/LibriFungorum/

Mold Testing and Identification Services (58-2)

www.pioneer.net/~microbe/abbeylab.html

McCrone Research Institute is an internationally recognized not-for-profit institute specializing primarily in teaching applied microscopy. 59(4)

www.mcric.org

Mountain Justice Summer (58-3)

www.MountainJusticeSummer.org

Mycology Education Mart where all relevant mycology courses can be posted. www2.bio.ku.dk/mycology/courses/

MycoKey

www.mycology.com

The Myconet Classification of the Ascomycota

www.fieldmuseum.org/myconet

New Electronic Journal about mushrooms from Southeast Mexico (61-4)

<http://fungavera.blogspot.com>

Northeast Mycological Federation (NEMF) foray database (58-2)

www.nemfdata.org

Pacific Northwest Fungi

www.pnwfungi.org/

Pleurotus spp.

www.oystermushrooms.net

Rare, Endangered or Under-recorded Fungi in Ukraine (56-2)

www.cybertruffle.org.uk/redlists/index.htm

Registry of Mushrooms in Art

members.cox.net/mushroomsinart/

Robigalia provides information about field observations, published records and reference collection specimens of fungi and their associated organisms, with access to over 685,000 records (59-3).

www.cybertruffle.org.uk/robigalia

Searchable database of culture collection of wood decay fungi (56-6)

www.fpl.fs.fed.us/rwu4501/index.html

Small Things Considered

schaechter.asmblog.org/schaechter/

Tree canopy biodiversity project University of Central Missouri (58-4)

faculty.cmsu.edu/myxo/

Trichomycete site includes monograph, interactive keys, a complete database, world literature, etc. (61-4)

www.nhm.ku.edu/~fungi

The TRTC Fungarium (58-1)

bbc.botany.utoronto.ca/ROM/TRTCFungarium/home.php

U.S. National Fungus Collections (BPI) Complete Mushroom Specimen Database (57-1)

www.ars.usda.gov/ba/psi/sbml

Valhalla provides information about past mycologists, with names, dates of birth and death and, in some cases, biographies and/or portraits (59-3).

www.cybertruffle.org.uk/valhalla

Website for the mycological journal *Mycena* (56-2)

www.mycena.org/index.htm

Wild Mushrooms From Tokyo

www.ne.jp/asahi/mushroom/tokyo/

CALENDAR OF EVENTS

NOTE TO MEMBERS:

Those wishing to list upcoming mycological courses, workshops, conventions, symposia, and forays in the Calendar of Events should include complete postal/electronic addresses and submit to *Inoculum* editor Don Natvig at dnatvig@gmail.com.

July 27-Aug 1, 2014

IUMS: International Union
of Microbiological Societies
Montreal, Canada

August 9-13, 2014

American Phytopathological Society
Minneapolis, Minnesota

June 8-12, 2014

Mycological Society of America 2014
East Lansing, Michigan

November 4-7, 2014

VIII Latin-American Congress of Mycology
(VIII CLAM) Colombia: the Crossroads
of Latin-America's Fungal Diversity
Centro de Convenciones Plaza Mayor,
Medellín, Colombia

August 3-8, 2014

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PO Box 98
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mwach@sylvaninc.com

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Stanton, MN, 55018-4308
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