

Newsletter of the Mycological Society of America

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Regular registration deadline for joint MSA/APS annual meeting
www.apsnet.org/meetings/annual/reghotel/Pages/RegHotel.aspx

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Deadline for submission to *Inoculum* 64(3)

July 8, 2013

Regular registration deadline for joint MSA/APS annual meeting

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Candidates for MSA Offices on the Spring 2013 Ballot

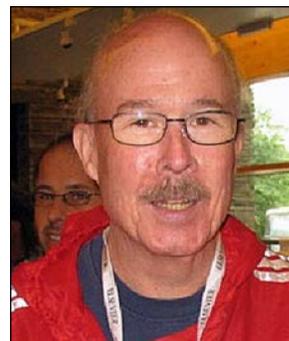
The Spring 2013 ballot will be run by electronic vote from 25 March to midnight on Sunday, 5 May. An email notice will be sent with instructions for accessing the ballot. Be sure to vote on time so that your vote is counted. Those unable to access the voting website can contact the MSA Vice President Jean Lodge at djlodge@caribe.net; or contact MSA Executive Vice President Lori Carris by email (carris@wsu.edu), phone (509-335-3733) or mail (P.O. Box 646430, Washington State University, Pullman WA 99164-6430). As in the past, paper ballots will be sent to those members without email addresses. The Spring 2013 ballot includes two proposed changes in the By-Laws, one of which is to have Society business, including voting, conducted electronically. If this proposed By-Law change is approved, paper ballots will only be sent out upon request. The Spring 2013 ballot also includes elections for MSA Council positions Vice President, Treasurer, and three Councilors. The following outstanding nominees have agreed to stand for election to MSA Council:

Vice President

Georgiana May, Ph.D. UC Berkeley, 1987; currently Professor, Department of Ecology, Evolution and Behavior, University of Minnesota. Research focus: Evolution of fungal interactions with other organisms with applications to biocontrol. MSA activities: Genetics Councilor (twice), Awards or Distinctions Committee (twice), organized symposia or workshops on Mating type genes, Population Genetics, Community Genetics at MSA and Asilomar Fungal Genetics meetings.



Kerry O'Donnell, Research Microbiologist, NCAUR-ARS-USDA, Peoria, IL since 1989. Research interests in systematics and evolutionary biology of fungi (especially *Fusarium* and *Morchella*). MSA service: Councilor Systematics/Evolution (1995-1997), two terms as Associate Editor of *Mycologia* (1998-2001 and 2001-2003), and program committee



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(2011-2013, Program Chair for Austin, TX, 2013). Associate Editor of *Mycoscience*; currently Associate Editor of *Fungal Biology* and *Mycological Progress*. Current member of ASM Editorial Board for Journal of Clinical Microbiology. MSA honors: C.J. Alexopoulos Prize (1978), MSA Fellow (2006), and Distinguished Mycologist (2012).

Treasurer

Sharon A. Cantrell, unopposed. Ph.D. University of Georgia. Professor of Biology and Dean of Doctoral Studies, Universidad del Turabo, Puerto Rico. Current Member of MSA Program Committee; Ex-Officio member (Past Chair) of the Conservation Committee; Past Chair of the MSA Biodiversity Committee; Past MSA Councilor of Systematics and Evolution; Past MSA Representative and Current member of the Executive Committee of the International Mycological Association; Past APS Caribbean Division Councilor; Founding President of the Puerto Rican Mycological Society. Research interests include leaf litter decomposition and fungi from extreme environments.



Councilor Cell Biology & Physiology

Terry W. Hill, PhD, University of Florida 1978. Professor of Biology, Rhodes College, Memphis, TN. Member of MSA since 1974. Prior service to MSA: Awards Committee (member & Chair); Cell Biology & Genetics Committee (member & Chair); Interim Counselor for Cell Biology 2003-4. Research interests: cell wall metabolism and septation in *Aspergillus nidulans*.



Brian D. Shaw, Associate Professor Department of Plant Pathology and Microbiology Texas A&M University. Shaw teaches two fungal biology classes at Texas A&M at the graduate and undergraduate levels (more than 500 students since 2004). Research interests include fungal cell biology and evolution of development.



MSA service and honors include: Alexopolous Prize (2009). Local Organizer for 2013 meeting. Foray co-coordinator 2013. Karling Lecture Committee (2009-2013 -chair 2012). Associate Editor for *Mycologia* (2009-present). Cell Biology and Genetics committee (2004-2008-chair 2008). Councilor for Cell Biology and Physiology (2004-2006). Shaw has chaired or co-chaired four symposia at MSA annual meetings over the past ten years. Shaw received an MSA graduate fellowship in 1999 and three separate travel awards from MSA between 1997 and 2002.

Councilor Genetics and Molecular Biology

Timothy James, Ph.D. Assistant Professor of Ecology and Evolutionary Biology and Assistant Curator of Fungi, University of Michigan since 2009. Research interests include evolution of mating systems, phylogenetics, and zoosporic fungi. Associate Editor of *Mycologia*. Has served the society as a Councilor, a member of the Karling Lecture Committee, and currently is a member of the Awards Committee.



Frances Trail, Professor of Plant Biology, Michigan State University; Ph.D. from Cornell University. She has spent the last 16 years focusing on molecular genetics of the life cycle of *Fusarium graminearum*, including sporulation, host invasion and mycotoxin biosynthesis. Most recently she is researching the evolution of fruiting body morphology. Trail is the Local Arrangements Chair for the 2014MSA meetings in E Lansing Michigan.



Councilor Systematics and Evolution

Ari Jumpponen, Ph.D. Oregon State University 1998, Associate Professor, Division of Biology, Kansas State University since 2000. Research interests in endophytes and ecology of fungi. MSA Activities & Awards: Martin Baker award (2002), Ecology Committee (2005-2008). Editorial Boards: Applied & Environmental Microbiology (2003-2009), Mycorrhiza (2008-present).



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Andy Miller, Associate Research Professor and Director of the Herbarium/Fungarium, University of Illinois Urbana-Champaign, Illinois Natural History Survey. Research interests in fungal biodiversity, phylogenetics, and systematics, especially the Ascomycota. Currently serving the MSA as representative to NSCA and on the Culture Collections Committee. Past service to MSA includes Program Committee (2008-2012), Biodiversity Committee (2005-2009), and Graduate Student Poster Award judge (2006). Associate Editor for the journals *Fungal Diversity*, *MycKeys*, and *Organisms, Diversity and Evolution*.



identifying fungi in decaying wood. Research interests include: 1) determining how changes in wood-inhabiting fungal communities affect decay rates in wood and carbon sequestration, 2) how intragenomic variation in the ITS region affects its use as a fungal barcode, and 3) ecology and life-cycle of *Geomyces destructans*, the causal agent of white-nose syndrome in bats. MSA service: current member of the MSA Culture Collections Committee; former member of the Biodiversity Committee (2005-2008), and symposium organizer for annual meetings.

James A. Scott, Associate Professor, Dalla Lana School of Public Health, University of Toronto, since 2002. Research interests include fungal ecology of the built environment; public health impacts of indoor fungi; fungal extremophiles. Past Chair of MSA Environmental Health & Medical Mycology Committee, Past Associate-Editor for *Mycopathologia*.



Councilor Ecology and Pathology

Daniel Lindner, US Forest Service, Center for Forest Mycology Research, Northern Research Station since 2003, and a member of MSA since 1996. Ph.D. in Plant Pathology (2001) from the University of Wisconsin-Madison; post-doc in Uppsala, Sweden investigating DNA-based methods for



—*D. Jean Lodge*
MSA Vice President

MSA BUSINESS

Executive Vice President's Report

Greetings! As I write this column in mid-March, crocuses are starting to bloom in Pullman and that means our spring mushroom season is right around the corner. I have a number of activities to report, including the midyear Executive Council meeting, upcoming Spring Ballot, and updates on the annual meeting in Austin, TX.

Council Business: The midyear Executive Council meeting was held by phone conference on Sunday, February 24. Meeting minutes and reports are available in this issue of *Inoculum*. Two official Council email polls were completed since my last column. The polls included approval of requests for Emeritus status (see **Emeritus Members**, below) and discounted memberships for three members from developing countries.

2013 Membership Renewal: The MSA Membership Committee is conducting a membership renewal drive and will be



Lori Carris,
Executive Vice President

contacting members who have not yet renewed for 2013. For all of you who have renewed, your support of MSA is greatly appreciated. If you have not yet done so, renewing your membership is easy—just go the MSA website at <http://www.msafungi.org> and click on <Membership> in the upper left hand corner of the page. When you reach the MSA Business site, there is now a convenient email reminder system for forgotten user ID and passwords.

Emeritus Members: Robert A. Peabody, a MSA member since 1987 who taught for many years in the Biology Department at Stonehill College in Easton, MA, has requested Emeritus status for 2013. Council has recommended by ballot to put this request before the membership for vote at the 2013 Annual Business Meeting.

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New Members: I would like to extend a warm welcome to the following new members. Their membership will be formally approved at the 2013 Annual Business Meeting in Austin, TX.

Canada—Ludovic Victor Le Renard

Italy—Anna Bazzicalupo

Spring Ballot: Look for an email on March 25 announcing the Spring Ballot. The ballot includes elections for MSA Vice President, Treasurer and Councilors, as well as proposed By-Laws changes. See **Important Announcement** (below) for information on electronic and paper ballots.

Annual Meeting Update: Preparations for the 2013 MSA are in full swing. This year's meeting will be held with the American Phytopathological Society August 10-14 in Austin, TX. Abstract submission closed on March 15, and meeting registration and housing reservations opened on March 20. Members who register before May 8 will save \$105 on the registration fee. The MSA Foray will be held on Saturday morning (August 10) at the Barton Creek Greenbelt, one of Austin's best outdoor destinations according to Annual Foray Coordinator Harold Keller and Local Arrangements Chair Brian Shaw. Look for email reminders on important deadlines, and check the APS and MSA meeting site for meeting updates:

<http://www.apsnet.org/meetings/annual/Pages/default.aspx>

Important Announcement: The Spring 2013 elections will be underway when this column comes out, and I want to use this opportunity to remind members that balloting will be done electronically. Paper ballots will be sent out by regular mail to those members without valid email addresses, so please check your information in the MSA directory to make sure it is cor-

rect. Also, be sure to check your spam filter if you do not receive a notice of the Spring Ballot. The Spring Ballot includes a proposed change in MSA By-Laws to conduct all Society business, including voting, electronically. If this change is approved by member vote, paper ballots for all future elections will be sent out only upon request by contacting me by phone (509-335-3733), email (carris@wsu.edu) or mail (P.O. Box 646430, Washington State University, Pullman WA 99164-6430).

REMINDER: MSA Directory Update: Have you checked your information in the MSA directory recently? Now is a good time to make sure your address, phone and email are up-to-date. The Society increasingly 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. If you need assistance with updating your membership information, contact our Association Manager at Allen Press, Kay Rose (krose@allenpress.com).

Please 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 MSA 2013 Executive Council Midyear Meeting

Lori Carris, Executive Vice President
February 24, 2013

Call to Order and Approval of Minutes

The 2013 Midyear Executive Council Meeting was called to order on Sunday, February 24 at 1500 EST via conference call, President Mary Berbee presiding. In attendance were President Berbee, President-Elect Joey Spatafora, Vice President D. Jean Lodge, Executive Vice President Lori Carris, Treasurer Marc Cubeta, and Past President David Hibbett. Editor-in-Chief Jeff Stone, Managing Editor Karen Snetselaar and Program Chair Kerry O'Donnell were present as invited participants. EIC Stone joined the conference call at 1630 EST, and Program Chair O'Donnell left the call at 1539 after completing his report. President Berbee thanked participants for their contributions to managing changes over the past six months, which included implementation of the new MSA business site and transition from print to online journal access for regular memberships. President Berbee expressed appreciation to Program Chair O'Donnell for working with APS to make sure that MSA has a strong presence at the 2013 APS/MSA meeting. Exec. VP Carris had emailed attendees an Executive Council packet before the meeting that included the Agenda, minutes for the 2012 midyear EC meeting and annual Council meeting (held in New Haven, CT), updated MSA Roster, midyear reports, and copies of the MSA Constitution and By-Laws. A correction was noted for the 2012 EC midyear minutes—IMC Thailand is in 2014, not 2016.

MOTION: (approved unanimously) that the minutes from the 2012 Executive Council Midyear Meeting be approved as published in *Inoculum* 63 (2) with the noted correction.

Reports

- 1. President Berbee** presented her report, including the financial status of the journal and the need to address declining institutional subscriptions for *Mycologia*, issues related to membership services, arrangements for the 2013 APS/MSA meeting, and action items listed below.
 - **Action item:** Explore financial impact of continuing to provide free print copies of journal to Honorary and Lifetime Members.
 - **Action item:** Compile numbers of online vs online plus print institutional subscriptions.
 - **Action item:** Contact American Journal of Botany and New Phytologist about the effect of online only for institutional subscriptions.
 - **Action item:** Schedule spring conference call to discuss budget issues relating to change from print to online subscriptions.
 - **Action item:** Compile list of features we want available through the business site.
 - **Action item:** Repeat membership drive in March 2013.
- 2. President-Elect Spatafora** reported that John Taylor and Tom Bruns have offered to host the 2016 meeting at the Clark Kerr Residence Halls at the University of California at Berkeley and

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referred to the detailed breakdown of meeting costs provided in his report. He also noted that Sharon Cantrell and others are putting together a bid for IMC XI to be held in Puerto Rico in 2018, and suggested that if this bid is not successful, MSA enter into a discussion about a joint ALM/MSA meeting. President-Elect Spatafora reported that the appointments of Editor-in-Chief Stone and Managing Editor Snetselaar end on Dec. 31, 2013 and urged Council to consider changing to an Executive Editor model. This would require Council approval before moving forward, as well as a change to By-Laws. President-Elect Spatafora reported that 30 committee positions will need to be filled and he is compiling a list to send out to Council for input.

3. **Vice President Lodge** reported on the Fall 2012 and Spring 2012 ballots. By-Laws changes approved by member vote as part of the Fall 2012 ballot expanded membership categories, reduced membership rates, and changed regular membership to include online access to journal. The Spring 2013 ballot will include two proposed changes to By-Laws that were approved by Council email poll in February. VP Lodge referred to her report concerning nominations for the 2013 election of officers and commented that the 58 nominations received represent a decline from 2012. VP Lodge referred to Treasurer Cubeta's suggestions for streamlining the treasurer's duties, and noted that he has volunteered to assist the incoming treasurer. The MSA future meetings schedule is provided in the VP's report. VP Lodge asked for input on the time and location for the 2017 meeting if the MSA/ALM proposal to co-sponsor IMC XI in Puerto Rico is not successful. The suggestion of Florida as a location for this meeting was enthusiastically received by EC.

4. **Treasurer Cubeta** began his report by indicating dissatisfaction in his ability to capture the information necessary for make financial decisions from data provided by Allen Press—e.g., donations, publication costs, different membership categories. He has prepared a list of the information and types of services we need as society. Publications costs will be compiled later for a EC conference call to be held in late March or early April. Treasurer Cubeta noted that taxes were filed on time, insurance renewed and all dues have been paid. He said that we are making gains in regards to endowment funds, but there is never enough and the model for funding endowed awards at the \$10,000 level is no longer viable. We need to be able to move uncommitted endowments (e.g., those from auctions) to support awards. Better communication is needed with the chair of the Endowment Committee. Treasurer Cubeta impressed on Council the need to streamline and improve the process for member donations. He noted that last year Council agreed to allocate \$500 to each of the committees but does not believe any of the committees have requested these funds. The University of Alaska returned ~\$40,000 to MSA for unencumbered expenses associated with the annual meeting in Fairbanks, AK. In response to a question about total costs of annual meetings to the society, Treasurer Cubeta said we have made money on recent meetings if travel awards are not included in the costs.

- **Action item:** Financial forms need to be filed as soon as possible to enable Finance Committee Chair to invest funds returned from Alaska meeting.
- **Action item:** Place a link for donations on the Mycologia site (msafungi.org)

5. **Executive Vice President Carris** referred to the summary of activities in her midyear report and reports from the Finance, Nomenclature, Karling Lecture, and Biodiversity Committees that were included in the meeting packet. These reports were for information only and none required EC action.

6. **2013 Program Chair O'Donnell** presented a report on behalf of the Program Committee. Chair O'Donnell acknowledged Local Arrangements Chair Brian Shaw for exceptional amount of work he has done, noting that he has "exceeded the call of duty" for example, driving ~100 miles to Austin in order to check out potential locations for meeting-related events. The Program Committee received 15 requests for symposia, and 7 MSA-sponsored symposia are scheduled Sunday afternoon through Wednesday afternoon during the meeting as listed in his report. MSA will provide \$6,000 to support symposia. Chair O'Donnell commented on his generally positive experience working with APS organizers, and their willingness to accommodate MSA on scheduling issues and symposia. Criteria that should be used for selecting oral presentations was discussed, with recommendations that students competing for awards should get high priority, and if there are additional slots for oral presentations available, authors of abstracts for posters that would be effective as talks could be contacted. A recommendation was made that students with prior experience giving an oral presentation, such as those that have received awards for best oral presentation at previous meetings, be asked to moderate sessions if possible. Some disadvantages of meeting with APS were discussed, including the \$55 abstract fee, and our inability to have MSA meeting t-shirts, which typically make money for the society; it was noted that MSA will be able to make money from the auction. Unknowns relative to the meeting include the number of MSA members that will attend and hotel rates. Information on attendance at annual meetings is available only from the 2011 meeting in Fairbanks, AK forward. According to 2012 Program Chair Lodge, there was almost no overlap in attendance between the 2011 and 2012 meetings. She commented that the Alaska meeting attracted many European members and others who normally didn't attend these meetings, and 2012 meeting at Yale attracted many students because the costs were kept low. Participants commented on the opportunity to recruit new members at joint meetings such as with APS and BSA, and information on reduced rates for member registration is included in letters to those who have not yet renewed their membership. President Berbee thanked Program Chair O'Donnell and Local Arrangements Chair Shaw for their outstanding effort.

- **Action item:** Meeting attendance data will be maintained by Executive Vice President to assist in planning future meetings.

7. Publications Reports

a. **Managing Editor Snetselaar** reported that the financial outlook for the journal is good. Page numbers are up in part because of the quality of papers. Publication before print requires a lot of ME Snetselaar's time, and she is receiving assistance with this from Assistant Editor Gerard Hebert. The handling of copyright forms has been revamped and should be implemented soon. This will enable the society to charge fees for copyright use. Modest (or no) fees will be charged for academic use and higher rates for textbook use; this should generate additional income for the society. The process for page charges will soon be handled electronically. ME Snetselaar commented that institutional subscriptions are very low. She questioned whether the Allen Press database is capturing all the print subscriptions, and commented that international members were supposed to be charged a higher rate; this was not done, and Allen Press is covering \$25 per international member print subscription since it was their mistake. The issue of notifying members about the availability of print copies was raised. ME Snetselaar has prepared an update of the ME section of the Manual of Operations, and encouraged Council to begin looking for a new ME as soon as possible. President-Elect Spatafora recommended that we have that person identified by July 1 to enable him/her to work with outgoing ME Snetselaar. Potential reconfiguration of the ME's

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responsibilities to assume some of the EIC duties, such as handling proofs, was suggested in relation to the ongoing discussion on editorial structure. ME Snetselaar concluded by saying that we currently have a good balance carried from one year to the next, so this would be a good time if we want to make a bold move such as going to electronic only publication; if we wait, that surplus is likely to trickle away. President Berbee thanked ME Snetselaar for her report.

- **Action item:** Identify a new Managing Editor by July 1, 2013 to allow that person to have time to work with outgoing ME Snetselaar.

b. Editor-in-Chief Stone referred to his report and had no additional issues for discussion except to remind symposium organizers of the opportunity for special issues of *Mycologia*.

- **Action item:** Encourage symposium organizers at the 2013 meeting to consider developing a special issue of *Mycologia* based on symposium presentations.

8. Additional items for discussion

a. Publication and the future of *Mycologia*. President Berbee suggested that the remaining time focus on *Mycologia* publication issues. President-Elect Spatafora recommended that we set a date—for example, Jan. 1, 2015—for *Mycologia* to go online only.* The experience of other journals (*New Phytologist* and *American Journal of Botany*) may provide insight into anticipated impacts, for example, on institutional subscribers. BSA is now testing an open access journal while maintaining a print journal. It was noted that the BSA open access journal is focused on techniques. President-Elect Spatafora pointed out that shoring up existing page charges would increase income. It currently costs ~\$500 to publish a regular article and ~\$1000 for an open access article in *Mycologia*—authors are not charged for open access if the articles are designated as such by the EIC. If page charges were required for

all articles, it would add \$70,000 to \$75,000 per year. President Berbee asked whether there are any legal requirements for providing print copies, for example in regards to lifetime members. ME Snetselaar noted that there is a move towards on-demand printing, but if we moved in this direction, then we couldn't charge for print subscriptions. President Berbee suggested that this could maintain income from institutional subscribers. In regards to society management services, ME Snetselaar questioned whether given the size of MSA we need professional management of the database. President-Elect Spatafora suggested that a notice in *Inoculum* would also provide a way for members to provide comment. The issue of editorial structure and a distributed editor model was revisited. President-Elect Spatafora provided an overview on how a distributed editorship works: One editor receives and distributes all manuscripts to the appropriate editors; each of these editors reads all manuscripts, makes decisions on manuscripts that should be rejected without further review, determines whether authors have addressed all questions raised by reviewers, and handles all correspondence with authors and reviewers. Copyediting is handled by the publisher. President-Elect Spatafora advised that the Editorial Advisory Board be involved in this discussion. President Berbee suggested the EC have another phone conference at the end of March or early April.

*In a follow up email exchange (Feb 27, 2013) with the Botanical Society of America's Amy McPherson, we learned that the AJB decided to continue offering print because over half of their institutional subscribers were still requesting print. MSA should similarly keep an eye on the institutional subscribers and on their preference in deciding to stop supplying print.

President Berbee adjourned the meeting at 1813 EST.

2013 Midyear Reports

MIDYEAR REPORT OF THE PRESIDENT

Summary

I. The October vote separating print from membership and reducing membership dues changes the parameters controlling our budget and we will need to pay attention to our balance sheet. Printing fewer copies of *Mycologia* should save us money, but reduced dues and the increasing per copy costs of printing may negate savings. **II.** Allen Press updated our database and website. After initial glitches, the new site is generally better although we need to request some specific tweaks. **III.** Planning for future meetings is going well, considering, and abstract submission has begun for the 2013 APS/MSA meeting. **IV.** We intend to organize our wish list for management services and to discuss our needs with Allen press and with the Botanical Society of America, to see if we can rationalize some of our annual tasks such as setting up a meeting registration webpage. In the text that follows, *arrows indicate specific action needed*.

I. An ongoing problem; we need to think creatively about how to produce and market our journal.

Mycologia confronts changes in publication economics that are beyond our control. Reports from *Mycologia*'s editors Stone and Snetselaar have shown, in spite of the continuing improvement of quality and service to authors and readers, institutional subscriptions have been declining steadily for more than four years. This decline is a general phenomenon for small, independent journals. Most of the ~\$250,000/year cost of publishing *Mycologia* comes from institutional subscribers, so the loss of these subscribers threatens our journal. Yet at the same time, publishers (e.g., Elsevier) handling groups of equally small journals are making large profits. Some of the journals in the packages are important to large research groups so libraries are forced to subscribe to the packages. Because libraries must subscribe to the packages, they are having difficulty finding the budget for independent journals like *Mycologia*. What can we do?

- One option would be to bundle journals and discount the institutional subscriptions. However, if we discount, we risk losing too much income. Whether libraries would buy the remaining independent organismal or

plant related journals as a package remains to be seen.

- Open access would make it possible for libraries to carry our journal, but would also mean authors would have to pay for publication, which would be a serious problem for small labs doing mycological studies. For open access authors must pay a charge per published paper on the order of \$1500 up.
- We can increase demand for our product. One measure of demand is by citation numbers and downloads. Although use does not translate into dollars, demand does increase *Mycologia*'s desirability as a partner and widens our options. President-Elect Spatafora will likely discuss ways to increase *Mycologia*'s profile.
- We can reduce the costs associated with publication to keep production costs in line with subscription income.

We are pursuing possible cost reduction by reducing print production of *Mycologia*.

New Phytologist is already online only, and *American Journal of Botany* (AJB) is planning to transition to online only in a year. Managing Editor Snetselaar and I talked with the Botanical Society of America's (BSA's) Amy McPherson and Richard Hund in August, 2012 about how AJB is managing the changes in publishing.

Both MSA's Karen Snetselaar and the AJB's Richard Hund agreed that we can save approximately 30% of the journal cost by going to an online only model. However, if we still need to produce and mail a few copies of the journal for various reasons such as to support institutional subscribers, we may not realize savings.

MSA membership almost unanimously chooses online only access

MSA Council and Editors agreed in previous meetings that we needed to know how important the print version of *Mycologia* is to our membership, and also

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that we needed to separate purchase of print copies of the journal from membership dues. We put the issue of separating print from membership to a vote and in October 2012, MSA membership voted overwhelmingly in favor of a by-laws changes to make online access to *Mycologia* a privilege of membership, with print copies of the journal available for an additional price. As you know, we accidentally incorporated the print price into Bylaws and Vice President Lodge has written a ballot question for MSA's spring election to correct this. The October vote reduced membership dues for regular members, students and postdocs who renewed their membership early, before Dec. 31. Most MSA members have chosen online access (Fig. 1). About a hundred members also opted to buy a print subscription.

Note that honorary and lifetime members are still receiving print (Fig. 1). Honorary Members and regular members have the same membership privileges, which now means Honorary Members should have online access to the journal.

=>We should end our tradition of providing free print copies to Honorary Members, sending them an appropriate emailed explanation. I also propose contacting the lifetime members who joined MSA before 2013 and letting them know that they will have to specifically request a print copy in future years because the standard membership is now online only. They will have to opt in rather than opting out of print.

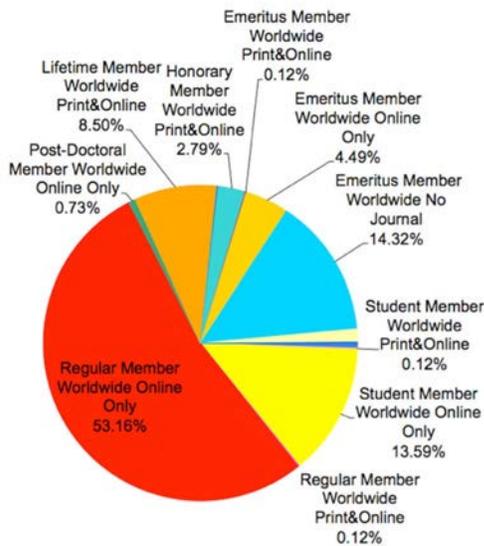


Fig. 1. Pie chart from Allen Press showing the distribution of ~800 MSA members who renewed by Feb 2013 into membership types. About half of the print copies to individual members are now going to Honorary Members and Lifetime members. The ~100 individual print subscriptions do not appear in this chart.

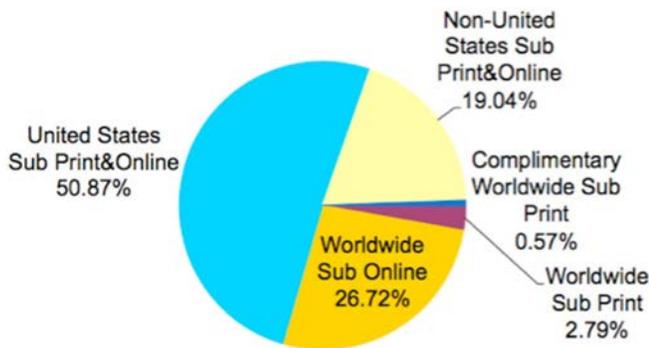


Fig. 2. A pie chart from Allen Press, 2013 shows 26.72% of our institutional subscriptions are online only.

The effect of going to online only on institutional subscription is unknown, although many librarians like electronic subscriptions for their lower costs and savings in shelf space.

=>We need to watch the numbers of online vs. online plus print institutional subscriptions (Fig. 2), and may need to continue to print in small runs if doing so would retain institutional subscribers.

=>We should ask AJB and *New Phytologist* about the effect of online only for institutional subscriptions.

=>It is important to track the effect of changes on the overall MSA budget. Marc Cubeta warned we may need to schedule a spring conference call to discuss budget issues in this time of change.

II. Allen Press and Membership Services. Allen Press has updated its directory and database services for us, as of Dec 12 this year. In addition to allowing us to view membership statistics in colourful pie charts (Figs. 1, 2) the database makes updated information available to the MSA Executive Council, the Endowment committee, our webmaster, and the Membership committee.

MSA's 2013 membership drive started late this year, which did not help our renewal rates but did not seem to harm them dramatically either. Allen Press could not begin the membership drive until we supplied the results from the vote on print and membership. However, our vote was complete by October 10, Exec VP Carris sent the text to the renewal form to Jeff Mercer of Allen Press by October 12, and then the renewals went out in mid-December. The donations page was nonfunctional at the time of early renewal, and Treasurer Cubeta may have insight into how much, if at all, this affected building the endowments. Thanks much to all of you who provided useful bug reports.

=>President Elect Spatafora suggested that the renewal site should be organized so that members have to navigate past windows to update their personal information, to donate, and finally, to renew. Allen's Jeff Mercer was not sure how much we could modify on the pages, but I think we should discuss what we want, send Jeff our vision, and see what he can do.

=>Treasurer Cubeta and Endowment Chair Hughes have also requested that Allen Press reformat some of the data for convenience. Meredith Blackwell would like to see 'research area' and date of joining MSA in the online member information.

We had a successful membership drive 2012 organized by Jean Lodge.

=>We will need to repeat the membership drive in March 2013, getting the list of former members who have not renewed and organizing a round of personal email messages to remind them to sign up. This year, in our messages, we need to be sure to provide instructions for logging into Allen's system for renewal and to ask for feedback about Allen's website. If obstacles to renewal remain, we need to understand and correct them.

III. Update on Meeting Progress

Program Chair Kerry O'Donnell and Local Arrangements Organizer Brian Shaw are negotiating with APS to provide the best possible experience for MSA members participating in the joint MSA/APS meeting this summer. The last time we met with APS was in 2006. Only about 150 MSA members participated then, likely because the meeting conflicted with the 8th International Mycological Congress in Australia, and we hope for a larger MSA turnout this year. Kerry will offer more details about planning for this meeting.

We have prepared a first draft budget of MSA expenses for the 2013 meeting and will confer with Marc about whether it is workable. APS covers all costs, but not for MSA-specific events like our Council meeting and Volunteer Social.

Where we stand in organization of upcoming MSA Meetings

| Date | Location | Organizer | MSA organizers | Special issues |
|-------------------|---|---|---|--|
| August 10-14 2013 | Austin Convention Center, Austin, TX | Betty Ford, APS Contracts signed. Abstract submission open | Brian Shaw, local Kerry O'Donnell, Program Chair | APS/MSA cultural differences |
| June 7-14 2014 | Kellogg Conference Center, East Lansing, MI | MSA Hotel and room booking contracts OK. BSA abstract submission? | Francis Trail, Jonathan Walton, local; Sharon Cantrell, Program Chair | International Mycological Congress in Thailand will compete for participants |
| July 24-30 2015 | Shaw Conference Centre, Edmonton, Alberta, Canada | Johanne Stogran, BSA ¹ | TBA, local; Susan Kaminskyj, Program Chair | Foreign. Currency fluctuations; no travel funding for federal US employees |

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| | | | |
|-------------|--|-----|--|
| TBA 2016 | One option is Clark Kerr Campus, Berkeley CA | MSA | TBA, Taylor and Bruns offered to serve as local organizers. Anne Pringle is willing to serve as Program Chair, career progress permitting. |
|-------------|--|-----|--|

¹ Notes from Johanne: *Edmonton - July 24-30, 2015 Shaw Conference Center...beautiful Center – Overlooks the river valley big room with floor to ceiling windows...excellent for posters. Centre would be free – due to support from the city. When the conference is over and all the bills are paid...the profit is split as 50% back to the meetings for future years...and each society receives a percentage of the profit based on the percentage of the attendees. The BSA assumes all the footwork. Over the years we have been very successful in making sure smaller societies do not lose their identity when part of the larger conference...we have seen a growth in the student participation ...and really work to help as many student to attend as we can. We are negotiating with the University of Alberta for dorm space, a youth hostel in the city and small blocks of student hotel room rates in the hotels.*

IV. Possible roles of the Botanical Society of America in management of MSA
In Aug. 2012, Council agreed that we should discuss a closer relationship with the Botanical Society of America. As a larger society, BSA has professional managers and they could potentially reduce the work load for key MSA volunteers, including our meeting Program Committee, Managing Editor, and Treasurer. Culturally, BSA is close to the Mycological Society and we share research interests and a strong conviction that encouraging students is one of our most important activities.

BSA's Executive Director Bill Dahl is interested in offering management services. He will be able to provide more specific details about costs or services later this spring, after BSA completes an update of its database and membership services.

⇒ We will explore whether the Botanical Society could handle:

Registration services including abstracts. Bill Dahl believes BSA can put registration services in place for MSA 2014 for about \$5 per participant. "For registration, BSA uses a third party service called eTouches. This will be our second year using this service. They have a simple system that's easy to update. It runs about \$5 per registrant, which is a good value given the time that goes into designing a system. (Bill Dahl, Jan 2013)"

Membership services, now provided by Allen Press. This includes maintenance of our membership database and handling renewals, and institutional subscriptions. To compare services of Allen Press vs BSA, we will need a complete list of what we want.

Conference organization. BSA could handle negotiations for venues and help with room bookings, food, and other aspects of local arrangement. We could also use help tracking participation numbers and participant satisfaction with meetings.

Financial services. Perhaps Marc Cubeta could prepare a wish list for us here.

Journal publication, now provided by Allen Press.

The role of Allen Press in producing Mycologia.

For us, having a single vendor, Allen Press, that manages manuscripts from submission and peer review through composition reduces the complexity of management but possibly costs us more than dividing the process among several vendors. MSA uses salaried copy editing services, which is at present a good bargain for us. MSA's Managing Editor Snetselaar does formatting as needed to prepare pdfs for publishing ahead of print. Allen Press does the composition, and HighWire translates pdfs from Allen to HTML.

The BSA and American Journal of Botany. Amy McPherson and Richard Hund explained that AJB uses a combination of services:

- Aries Editorial Manager for handling peer review.
- They pay copy editors on a contract basis.
- The Sheridan Group (including Dartmouth Journal Services) handles composition and printing of the journal, <http://www.sheridan.com/journals>.

Conclusion

We made significant and I believe, necessary changes to our core activities last year and we now need to watch closely to make sure we can manage the financial consequences of the change. We are successfully planning ahead for future meetings, which is smoothing the planning process. Through negotiation with Allan Press and BSA, we can work to arrange a package of services that will make some of MSA's most crucial volunteer positions more attractive and less of a burden.

—Mary Berbee, President

MIDYEAR REPORT OF THE PRESIDENT-ELECT

I. MSA Annual Meeting 2016. John Taylor and Tom Bruns have offered to host the 2016 MSA Annual meeting. The proposed dates are August 7-11, 2016 and the proposed site is the Clark Kerr Residence Halls at the University of California at Berkeley. John and Tom have provided a detailed document with relevant information on presentation, dining, lodging, and social event venues. The total cost would be between \$500-\$600 per participant. I believe that this will be an attractive venue that will result in a well-attended meeting by members of the society.

II. MSA Annual Meeting 2017. Sharon Cantrell is currently coordinating the development of a bid for the International Mycological Congress (IMC) XI to be held in Puerto Rico in 2018. If this bid is successful, IMC XI will be co-sponsored by MSA and ALM. The site of the IMC XI will be announced in August 2014 at IMC X in Thailand. If the bid is not successful, I suggest that we propose a joint MSA-ALM meeting for 2017 in Latin America. Their next meeting is in November 2014 in Colombia, during which time the 2017 meeting site will be chosen. While this timing might be short, the next opportunity to organize a joint meeting would be in 2020, as ALM holds meetings every three years. Because of their connection to the Latin American Mycological community, I would like to suggest that Jean Lodge and Sharon Cantrell make some initial inquiries into the possibility of a future MSA-ALM meeting.

III. Mycological Editorship. The appointments of Jeff Stone (Editor-in-Chief of Mycologia) and Karen Snetselaar (Managing Editor of Mycologia) end December 31, 2013. A big thanks to Jeff and Karen for their stewardship of the journal. It is published on time, is of high quality, and provides an invaluable scientific contribution to the society and the field of mycology in general. As it is time to find a new E-I-C and ME of Mycologia, I would like us to consider a new format for editing the journal. I mentioned this in the last council meeting at the Yale meeting, but will summarize it here. Rather than a single E-I-C, I would like to suggest that we explore a multiple Executive Editor model. Such a mode would lessen the workload per individual, making the service more attractive to more of the membership, and it would allow for researchers with different areas of expertise to provide leadership to the journal. This multiple Executive Editor model has been in place at Fungal Biology for four years and functions well. To gauge the receptiveness of the idea, I would like to contact several people to see if they would be interested in serving in such a capacity.

During the council meeting on February 24th, I would like to discuss this model in more detail. As part of this discussion a number of issues would need to be considered, including but not limited to: i) modification of the society's bylaws, ii) potential number of Executive Editors, iii) staggered vs. non-staggered appointments, iv) support among council members, v) nominees

IV. Committee Service. There are ~30 committee positions that are scheduled to be filled during 2013. I have compiled a list of all such positions and am working to fill these positions by the annual meeting in August.

—Joey Spatafora, President-Elect

MIDYEAR REPORT OF THE VICE PRESIDENT

Amendments to By-Laws

Fall 2012 Ballot

The proposed By-Laws changes for the Fall Ballot were prepared by Executive Vice President Carris with input from President Berbee and Vice President Lodge. A first poll of Council on the proposed by-laws changes resulted in discussion focused on several issues, including the expanded number of membership categories, proposed regular membership rate (\$80), reduced rate for developing country memberships, and three-year membership option. In order to adequately address these issues, President Berbee prepared a revised proposal. A motion was forwarded to the council with a call for second on this proposal, and a new Council Poll was issued. **The revised by-laws changes were approved by:** Mary Berbee, Sarah Bergemann, Robert Blanchette, Ignazio Carbone, Marc Cubeta, Terry Henkel, David Hibbett, Peter Kennedy, Jean Lodge, Andy Methven, Rosa Muiño Pérez, Joey Spatafora and Ning Zhang. There was one abstention (Carris) and no disapprovals. The Fall 2012 ballot approved the by-laws changes that separated print subscription to Mycologia from membership fees (members will now receive electronic access to the journal and pay an additional fee for print copy). The membership category of 'post-doctoral asso-

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ciate' was added. The option for mycologists from developing countries to petition Council for reduced membership fees was also approved. Results of the Fall 2012 Ballot are summarized below.

Email notice of electronic balloting was sent out September 10 and the polling ended on October 10. Among 1112 eligible voters, 996 were notified electronically via Survey Monkey. Paper ballots were sent out to 116 members with invalid, blocked, or no email addresses. At the end of the polling period, 389 members (39%) voted electronically, and 7 members (6%) returned paper ballots postmarked by Oct. 10. Members approved all four proposed changes to the by-laws. The results of the ballot are summarized below.

- I. Addition of Postdoctoral Member to the membership category:
electronic approved 367; mail approved 7; total approved 374;
electronic disapproved 18; mail disapproved 0; total disapproved: 18
skipped question: 2
approved: 374; disapproved: 18
total: 392
95.4% approved; 4.6 % disapproved
- II. Change from print to online access for membership:
electronic approved 347; mail approved 5; total approved 352
electronic disapproved 37; mail disapproved 2; total disapproved 39
skipped question: 3
approved: 352; disapproved: 39
total: 391
90% approved; 10% disapproved
- III. Change in Emeritus to not having free online access
electronic approved 356; mail approved 6; total approved 361
electronic disapproved 28; mail disapproved 1; total disapproved 29
skipped question: 3
approved: 361 disapproved: 28
total 389
92.8% approved; 7.2% disapproved
- IV. Proposed changes to dues structure, lowering rates for most categories and adds a postdoc category to the dues structure.

Spring 2013 Ballot

The proposed Spring 2013 By-Laws changes were prepared by the Vice President Lodge with input from President Berbee. These changes are to delete the print subscription rate from the by-laws (which were accidentally included in by-laws in the Fall 2012 Ballot); to change the primary means of conducting business to electronic communications; and to simplify by-laws wording by defining 'mail' to include email. MSA By-Laws require that the proposed changes be brought to the attention of Council before going out to all members of the Society on the Spring Ballot. These were circulated on 4 February 2013.

The by-laws changes were approved by: Mary Berbee, Sarah Bergemann, Robert Blanchette, Ignazio Carbone, Lori Carris, Marc Cubeta, Terry Henkel, David Hibbett, Peter Kennedy, Jean Lodge, Andy Methven, Rosa Muiño Pérez, and Ning Zhang. There were no disapprovals and no discussion items raised. The amendments to the by-laws will go forward onto the Spring Ballot. The text of the proposed by-laws changes for the Spring 2013 ballot is provided below.

MYCOLOGICAL SOCIETY OF AMERICA Proposed Spring 2013 BY-LAWS Amendments

ARTICLE II. DUES

By-Laws Amendment Change 1: Proposed change to delete print subscription rates.

Background: The background information on suggested rates for 2013 for optional purchase of print subscriptions to *Mycologia* was accidentally included as a change in the by-laws in the 2012 Fall Ballot because the bolding (to call attention) was misinterpreted as a bylaws change. The wording related to charges for print copies of the journal therefore need to be deleted from the revised bylaws.

The specific change in the By-Laws (proposed changes ~~bold crossed out~~) would read:

Optional Purchase of a Print Subscription to *Mycologia*:

Shipped to a Domestic (USA) destination: \$60 annually

Shipped to a Non-USA destination: \$85 annually

By-Laws Amendment Change 2: This proposed change designates electronic mail and balloting as the primary means of conducting society business, with changes in Articles III and X.

Background: To maximize efficiency and to save costs, we propose that electronic mail and balloting to be the primary means of conducting society business. At present, the Constitution and by-laws variously specify mail and/or email communication. By defining electronic communication as 'mail,' we can simplify wording in these documents. Voting in MSA elections will be electronic.

ARTICLE III. ELECTION OF OFFICERS AND COUNCIL MEMBERS
The specific change in the By-Laws (proposed changes **in bold** or ~~crossed out~~) would read:

Society business including elections will primarily be conducted electronically. Ballots will be electronic, with paper ballots available via postal service upon request to the Executive Vice President.

(A) The Vice-President, as election manager, shall oversee the ~~mailing sending~~ of a request for the nomination of officers and council members ~~by mail and/or email~~ to members of the Society at least four months prior to the annual meeting.

(B) At least three months prior to the annual meeting, the nominating committee will provide to the Vice President a second slate of candidates for officers and council members.

(C) Generally the nominees of the membership and of the nominating committee shall be the individuals receiving the largest number of votes in each nomination race. In some cases it may be necessary for the Vice-President to coordinate the nominations in the following manner. Should the nominee of the nominating committee and the one of the membership be the same, the nominee receiving the second highest number of votes from the membership shall be placed on the ballot. Should the nomination votes received by a candidate place him or her among the two highest nominees for more than one office, the nominee shall decide for which office he or she wishes to be nominated. Permission from each of the individuals nominated by membership and the nominating committee shall be obtained by the Vice-President before a nominee is placed on the ballot.

(D) The Vice-President shall prepare the final ballot with information about the candidates. At least two months before the annual meeting the final ballots shall be distributed by ~~mail and/or~~ electronic ballot to all members, **with paper ballots available upon request to the Executive Vice President.** The Vice-President will oversee their counting. A majority of those voting shall elect. A tie vote for any office shall be resolved by Council. Those elected will be notified by the Vice-President so that they may attend the Council Meeting as observers prior to their assumption of office.

(E) Any officer or councilor unavailable, unable, or unwilling to fulfill the responsibilities of office may be replaced by Council with another person to serve out the remaining term of office.

ARTICLE X. AMENDMENTS

These by-laws may be amended by a majority vote of the members. ~~voting by a mail ballot to be submitted by~~ **Voting on amendments is administered** by the Executive Vice President at the direction of the Council, provided that suggested amendments have been brought to the attention of the Council in time to be mailed to all members of the Society at least one month previous to the date established as the deadline for ~~voting return of marked ballots~~.

Slate of Candidates for MSA Council in 2013 Election

Forty-five members responded to the calls for nominations, with 58 nominations total. This is down from last year. There were many multi-way ties with one nomination each. Not all members may be receiving the emails from Jeff Mercer as some are apparently ending up in SPAM buffers. We need to change the sending of MSA emails with a return-receipt so we can individually contact those not responding. We also need to alert the members to check their SPAM filters and make sure that emails from Jeff Mercer are not screened out. There was also a problem of wording on the deadline for receipt of nominations (the

Continued on following page

Inoculum announcement said 15 February while the Survey Monkey was shut down at midnight on 14 February). However, those who found the website shut down emailed nominations, which were duly counted.

The nominees proposed by the Nominations Committee and MSA members who agreed to stand for election are as follows:

Vice President:

Kerry O'Donnell and Georgiana May

Treasurer:

Sharon A. Cantrell - unopposed

Seven nominees for Treasurer declined to run and four were disqualified. Our current treasurer ran unopposed in the last election.

Councilor for Systematics & Evolution:

Andy Miller and Ari Jumpponen

Councilor for Cell Biology & Physiology

Brian Shaw and Terry W. Hill

Councilor for Ecology & Pathology

James A. Scott and Daniel L. Lindner

Councilor for Genetics & Molecular Biology

Frances Trail and Timothy James

—*D. Jean Lodge, Vice President*

MIDYEAR REPORT OF THE EXECUTIVE VICE PRESIDENT

Summary of activities since assuming office at the 2012 Annual Meeting in New Haven, CT:

- Transition Activities: Met with outgoing Secretary Jessie Glaesar at annual meeting for transfer of electronic files and advice; became familiar with MSA Manual of Operations (MOP), Constitution and By-Laws; set up calendar with reminders for MSA deadlines and established contact lists for society email correspondence.
- Contacted committees and new officers; provided committee chairs with list of committee members and relevant section of MOP; confirmed MSA member status of committee members and notified Membership Committee chair of those committee members with lapsed membership status.
- Updated roster and sent copies to Inoculum, MSA webmaster Kathie Hodge for posting, and Mycologia editor-in-chief for publication.
- Conducted 9 email polls as follows:
 - 2012-03: Associate Editor nomination approval
 - 2012-04: Proposed By-Laws changes for Fall Ballot
 - 2012-05: Revised proposed By-Laws changes for Fall Ballot
 - 2012-06: Karling Lecture nomination approval
 - 2012-07: Stalpers' Emeritus approval
 - 2013-01: Rogers' Emeritus approval
 - 2013-02: Proposed By-Laws changes for Spring Ballot
 - 2013-03: Associate Editor nomination approval
 - 2013-04: Request for discounted membership approval
- Prepared text for proposed changes to By-Laws for Fall Ballot with input from President-Elect Lodge and President Berbee.
- Worked with President Berbee and Allen Press Association Manager Jeff Mercer on development of new MSA Business site including membership renewal and donations.
 - Worked with President Berbee, Treasurer Cubeta and Endowment Committee Chair Hughes to develop a descriptive list of awards and endowment funds for the donations page on MSA Business site.
- Prepared 3 Executive VP columns for Inoculum.
- Approved 4 requests of one-time use of MSA mailing list:
 - AAAS Membership plus subscription to Science (7/27/2012)
 - 2013 Fusarium Laboratory Workshop Announcement (10/5/2012)
 - IMA Council for IMC10
 - AAAS Membership plus subscription to Science (12/7/2012)
- Submitted blast email requests to Allen Press Association Manager Jeff Mercer. Blast emails included reminders of deadlines for fall ballot, membership renewal, call for nominations and awards, calls for sessions and symposia for 2013 APS/MSA meeting and IMC10, and instructions for abstract submission for annual meeting.

- Worked with President Berbee and 2013 Local Arrangements Chair Brian Shaw on MSA Council Meeting arrangements for the joint APS/MSA meeting.
- Provided membership list and new member updates to APS meeting organizers
- Worked with President Berbee to organize agenda for the Midyear Executive Council Meeting; made arrangements for conference call; contacted officers and committee chairs to submit midyear reports; compiled agenda and packet for meeting.
- Responded to email and other inquiries addressed to MSA.

—*Lori Carris, Executive Vice President*

MIDYEAR REPORT OF THE TREASURER

Meeting, Awards and Symposia finances:

For the 2012 annual meeting at the Yale Conference Services Center, in New Haven, CT, \$6000 was paid out for 12 Mentor Student Travel Awards at \$500 each (Alexopoulos, Barr-Bigelow, Bigelow, Butler, Denison, Fitzpatrick, Gilbertson, Korf, Kramer, Luttrell, Miller, and Trappe) from the Wells Fargo Endowment account. A total of \$14,200 was paid out (\$7,200 from the Wells Fargo endowment account, \$5,000 from Wells Fargo Operating account; and \$2,000 from the USB operating account) for 11 research awards (Alexopoulos Prize \$1,000; Backus \$1,000; Bartnicki-Garcia \$500; Forest Fungal Ecology \$1,000; A.H. and H.V. Smith \$1,200; Martin-Baker \$2,000; NAMA \$2,000; MSA Graduate Fellowship (\$4,000 for two awards at \$2,000 each); Rippon \$500; and Rogerson Awards \$1,000). Paul Stamets contributed \$1000 for the Forest Fungal Ecology Award that was given in 2012 and \$3,100 is currently available to provide this award in the future. Judith McCandless of the North American Mycological Association (NAMA) contributed \$2,000 for the NAMA Award that was given in 2012. A total of \$2690.93 was paid for expenses for the Karling lecture (\$2190.93 from the USB operating account and \$500 for an honorarium from the Wells Fargo endowment account). Additional costs associated with the annual meeting include; \$800 for student poster and paper awards; \$280.52 for student supply expenses, \$50 for foray permit, \$841.51 to reimburse travel for G. Herbert to attend the Mycologia editorial board meeting, \$357.30 to support travel of the executive vice-president to the meeting, \$1,387.97 for meeting supplies, \$10,135.23 to pay The University of New Hampshire for developing the meeting website, \$459 to purchase a Tenants' and Users' Liability Insurance Policy to comply with the Yale University facility and service use agreement contract, and \$11,429.86 to reimburse 10 symposium speakers. A portion of symposia expenses was offset by a \$3,000 donation to MSA from Roche. The auction generated \$8119.46 for the uncommitted endowment and \$27,514.02 was returned from Yale University to MSA for unencumbered expenses associated with the annual meeting. The Society also received back payment for unencumbered expenses associated with the annual meeting in Fairbanks, AK in the amount of \$40,270.60.

Based on the performance of our interest-bearing accounts, the treasurer recommends that \$6,000 be allocated for the Mentor Student Travel Awards (12 at \$500 each for Alexopoulos, Barr/Bigelow, Bigelow, Butler, Denison, Fitzpatrick, Gilbertson, Korf, Kramer, Luttrell, Miller, and Trappe); Martin-Baker Award at \$2,000; C.T. Rogerson Award at \$1,000; Bartnicki-Garcia Award at \$500. The amounts for the following awards will remain the same; J.W. Rippon Research Award (\$500); C.J. Alexopoulos Prize (\$1,000), Backus Award (\$1,000), and A.H. and H.V. Smith Research Award (\$1,200), Forest Fungal Ecology Award (\$1,000); MSA Graduate Fellowships (\$4,000 for two awards), and the MSA Graduate Student Research Prizes (\$800 for four awards). These recommendations are consistent with the amounts advertised on our website. The NAMA Award (\$2,000) is dependent upon continued support by Judith McCandless at NAMA. The treasurer also recommends that funds of \$500 be allocated to each of the seven MSA committees (total \$3500) to be used as seed money for symposia, or to support outreach to the general MSA membership via roundtables or workshops.

Publication finances:

The editorial assistant salary continues to be paid to The University of New Mexico and reflect payments of \$49,563.31 for this fiscal year. The Society paid out \$318.66 to provide internet services associated with the editorial office and \$1,794 to purchase a computer, printer and scanner for Mycologia editorial assistant J. M. Donahue. Publication costs were not calculated (represented by NC in Table 1) for FY2013 to date due to changes in the format of deposit reports from Allen Press. The revised deposit reports were received on March 12, 2013 and will be used to provide an update on the publication expenses in the treasurer's final report in August 2013 at the annual meeting.

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Table 1. Publication expenses incurred in FY2010, FY2011, FY2012 and FY2013 to 31 January 2013.

| Publication Expenses | FY 2013 to Jan 31 | FY2012 | FY2011 | FY2010 |
|---|-------------------|---------------------|---------------------|---------------------|
| Total publication costs (Inoculum, Allen Management and Mycologia) | NC | \$253,897.37 | \$355,139.75 | \$256,774.40 |
| Inoculum | 6342.45 | 6332.29 | 6199.53 | 6187.23 |
| Management fees | NC | 3044.83 | 1588.11 | 1044.99 |
| author billing | NC | 607.30 | 1949.13 | 716.34 |
| back issue mailing | NC | 2700.12 | 3376.12 | 2404.88 |
| back issue storage | NC | 1299.47 | 569.96 | 320.26 |
| base mgmt. fees | NC | 27629.55 | 25977.61 | 28938.26 |
| Renewal notices, ballots | NC | 980.51 | 1975.96 | 3232 |
| TOTAL MANAGEMENT | NC | 36261.78 | 35436.89 | 36656.73 |
| Mycologia printing | NC | 115949.95 | 165340.50 | 158177 |
| Allen Track | NC | 5725 | 6370 | 5041.94 |
| Editorial office | NC | 65331.10 | 108313.58 | 22706 |
| Online Publication | NC | 24297.25 | 33479.25 | 25949 |
| Reprints | NC | 0 | 0 | 516.5 |
| Author reimbursement | NC | 0 | 0 | 1600 |
| TOTAL MYCOLOGIA | NC | 211,303.30 | 313,503.33 | 213,930.44 |
| # of issues per year | NC | 5 issues | 7 issues | 6 issues |
| Cost per issue | NC | 42260.66 | 44786.19 | 35655.07 |

Membership:

Membership has decreased from this time last year (mid year 2012=813 versus mid year 2013=755) and subscriptions have decreased from this time last year (mid year 2012=467 versus mid year 2013=395). Membership and subscription income were not calculated (represented by NC in Table 2) for FY2013 to date due to changes in the format of deposit reports from Allen Press. The revised deposit reports were received on March 12, 2013 and will be used to provide an update on the membership and subscription income in the treasurer's final report in August 2013 at the annual meeting.

Membership and subscription numbers FY2013 (mid-year)

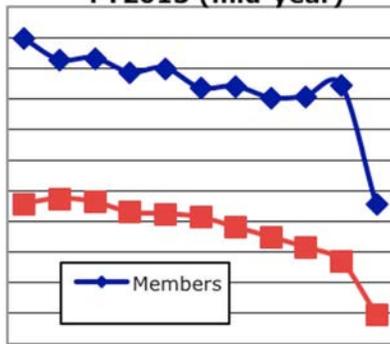


Table 2. Number of members and subscription and income generated from members and subscription in FY2002 to FY2012 and for FY2013 to 31 January 2013.

| FY | Number of Members | Income \$ from Subscriptions | Members | Subscriptions |
|-------|-------------------|------------------------------|---------|---------------|
| 2002 | 1342 | 804 | 90037 | 138325 |
| 2003 | 1295 | 757 | 100305 | 126404 |
| 2004 | 1226 | 774 | 94875 | 151671 |
| 2005 | 1232 | 763 | 96277 | 156574 |
| 2006 | 1185 | 729 | 101992 | 142756 |
| 2007 | 1199 | 724 | 89971 | 170910 |
| 2008 | 1134 | 713 | 83339 | 197282 |
| 2009 | 1139 | 680 | 80834 | 211317 |
| 2010 | 1102 | 648 | 77670 | 212087 |
| 2011 | 1107 | 613 | 78438 | 203291 |
| 2012 | 1144 | 568 | 78986 | 196694 |
| 2013* | 755 | 395 | NC | NC |

*this fiscal year to date (01/31/2013)

Statistics Reports

| Members | | 2009 | 2010 | 2011 | 2012 | 2013 | |
|-------------|--|----------|-------------|-------------|-------------|-------------|------------|
| ASCW | Associate Member Worldwide Online Only | 1YR | 28 | 22 | 53 | 26 | 9 |
| COMPWO | Complimentary Member Worldwide Online Only | 1YR | 1 | | | | |
| EMRWB | Emeritus Member Worldwide Print & Online | 1YR | 53 | 50 | 49 | 48 | 1 |
| EMRWN | Emeritus Member Worldwide No Journal | 1YR | 114 | 112 | 112 | 112 | 117 |
| EMRWO | Emeritus Member Worldwide Online Only | 1YR | 3 | 1 | 4 | 2 | 34 |
| FAMWN | Additional Family Member (each) | 1YR | | | | | 1 |
| FAMWO | Additional Family Member (each) Old Rate | 1YR | 6 | 3 | 3 | 3 | |
| HONWB | Honorary Member Worldwide Print & Online | LIFETIME | 24 | 26 | 23 | 23 | 23 |
| HONWN | Honorary Member Worldwide No Journal | LIFETIME | 2 | 1 | | | |
| LIFEWB | Lifetime Member Worldwide Print & Online | 1YR | 1 | 1 | 2 | | |
| LIFEWB | Lifetime Member Worldwide Print & Online | LIFETIME | 70 | 71 | 72 | 73 | 70 |
| LIFEWO | Life Member Worldwide Online Only | 1YR | | | | | 1 |
| POSDOCWO | Post-Doctoral Member Worldwide Online Only | 1YR | | | | | 4 |
| REGWB | Regular Member Worldwide Print & Online | 1YR | 604 | 576 | 544 | 538 | 1 |
| REGWO | Regular Member Worldwide Online Only | 1YR | 63 | 70 | 80 | 100 | 405 |
| STUWB | Student Member Worldwide Print & Online | 1YR | 140 | 135 | 130 | 166 | 1 |
| STUWO | Student Member Worldwide Online Only | 1YR | 20 | 24 | 26 | 45 | 86 |
| SUSWB | Sustaining Member Worldwide Print & Online | 1YR | 10 | 10 | 9 | 8 | |
| SUSWO | Sustaining Member Worldwide Online Only | 1YR | | | | | 2 |
| Sum: | | | 1139 | 1102 | 1107 | 1144 | 755 |

Continued on following page

| Subscriptions | | | | 2009 | 2010 | 2011 | 2012 | 2013 |
|---------------|-------------|-------|--------------------------------------|------------|------------|------------|------------|------------|
| Mycologia | Institution | WCOMP | Complimentary Worldwide Sub Print | 10 | 2 | 2 | 1 | 1 |
| Mycologia | Agency | NUSB | Non-United States Sub Print & Online | 131 | 121 | 98 | 79 | 32 |
| Mycologia | Institution | NUSB | Non-United States Sub Print & Online | 25 | 24 | 23 | 16 | 2 |
| Mycologia | Agency | USB | United States Sub Print & Online | 395 | 341 | 295 | 262 | 141 |
| Mycologia | Institution | USB | United States Sub Print & Online | 11 | 15 | 16 | 8 | 3 |
| Mycologia | Agency | WO | Worldwide Sub Online | 98 | 134 | 169 | 191 | 139 |
| Mycologia | Institution | WO | Worldwide Sub Online | 10 | 11 | 10 | 11 | 4 |
| Mycologia | LIST | WP | Worldwide Sub Print | | | | | 66 |
| Mycologia | MEMBER | WP | Worldwide Sub Print | | | | | 7 |
| Sum: | | | | 680 | 648 | 613 | 568 | 395 |

Endowment Finances:

The endowment fund amounts are presented in the table below. From August 1, 2012 to January 31, 2013, \$1790 in funds was contributed to the Mentor Travel Funds and \$945 to the Research Funds (total restricted endowment = \$2735). Contributions to the Uncommitted Endowment from August 1, 2012 to January 31, 2013, were \$1450 (total endowment = \$4185). Seven of the 17 mentor travel awards and all Mentor Research awards except for the Undergraduate Research Award, have funds of \$10,000 or more.

| Fund name | Totals 7/31/12 | Direct contr 1/31/13 | Totals 1/31/13 |
|---|------------------|----------------------|------------------|
| Constantine J. Alexopoulos Travel Fund | 10917 | 0 | 10917 |
| Alma Whiffen Barksdale/ John P. Raper Travel Fund | 5794 | 0 | 5794 |
| Howard E. Bigelow Travel Fund | 9863 | 100 | 9963 |
| Margret Barr Bigelow Travel Fund | 10805.5 | 210 | 11015.5 |
| Edward E. Butler Travel Fund | 9422 | 0 | 9422 |
| William C. Denison Travel Fund | 11684 | 0 | 11684 |
| Harry Morton Fitzpatrick Travel Fund | 8318 | 0 | 8318 |
| Fuller/Emerson/Whistler Travel Fund | 7296 | 100 | 7296 |
| R. L. Gilbertson Travel Fund | 10525 | 150 | 10675 |
| Richard P. Korf Travel Fund | 8973 | 100 | 9073 |
| Charles Kramer Travel Fund | 10163.75 | 0 | 10163.75 |
| Everett S. Luttrell Travel Fund | 11816.5 | 250 | 12066.5 |
| Orson K. Miller Travel Fund | 21774 | 175 | 21949 |
| Harry D. Thiers Travel Fund | 7792 | 225 | 8017 |
| James M. Trappe Travel Fund | 8683 | 425 | 9108 |
| Francis A. Uecker Travel Fund | 5210 | 30 | 5240 |
| Kenneth Wells Travel Fund | 4275 | 25 | 4300 |
| Total Mentor Travel Funds | 163341.75 | 1790 | 165131.75 |
| Constantine J. Alexopoulos Prize Fund | 18389 | 200 | 18589 |
| Myron P. Backus Award Fund | 28418 | 0 | 28418 |
| George W. Martin/ Gladys E. Baker Research Fund | 56423 | 40 | 56463 |
| John Rippon Graduate Research Award | 10522 | 0 | 10522 |
| Clark T. Rogerson Fund | 23858 | 30 | 23888 |
| Alexander H. & Helen V. Smith Fund | 25724 | 0 | 25724 |
| John S. Karling Annual Lecture Fund | 10262 | 25 | 10287 |
| Saloman Barnicki-Garcia Research Fund | 12444 | 600 | 13044 |
| Undergraduate Research Award | 670 | 50 | 720 |
| Total Mentor Research Funds | 186710 | 945 | 187655 |
| Total Restricted Endowment | 350051.75 | 2735 | 352786.75 |
| Uncommitted Endowment | 246386.5 | 1450 | 247836.5 |
| Total Endowment | 596438.25 | 4185 | 600623.25 |

General issues

During FY2011, tax-exempt not-for-profit Form 990 and related schedules were prepared by our accountant John Adkisson (\$1850 fee), signed by the treasurer and mailed to the Internal Revenue Services on December 14, 2013. The accountant also provided assistance reconciling our operating accounts. The not-for profit organization fidelity bond and liability policies for the Society were renewed this year at a cost of \$764. Book editor Bob Marra incurred expenses of \$143.30 to ship books for review. The annual membership dues and contribution to Public Policy Office Service (\$1,200) were paid to American Institute for Biological Sciences (AIBS) with an additional payment of \$100 for membership to the National Science Collections Alliance of AIBS. The Society paid for legal services provided by Stradley and Ronin to 1) review the Mycological Society of America's Copyright Release (\$459); 2) review, edit and revise the draft Copyright Agreement and Author Disclosure Form (\$1597.82); and review the Agreement with Copyright Clearance Center (\$580.00). The Society received income of \$154.89 from HighWire Press (Stanford University) from 3rd and 4th quarter pay per view earnings for 2012. The matter concerning the bequest of funds from the estate of Alma Dietz (deceased) to the MSA was resolved on November 12, 2012 by finding that the purported Last Will and Testament of Alma Dietz dated August 1, 2007 was not to be admitted to probate as the Last Will and Testament of the deceased and therefore no funds from the estate will be provided to MSA.

—Marc A. Cubeta, Treasurer

MIDYEAR REPORT OF MYCOLOGIA EDITOR-IN-CHIEF

Mycologia Volume 104 was completed with the release of issue 104.6 on Dec 5 2012, 2012. Volume 104 comprised 1528 pages, 135 regular research papers, two memorials and one Review based on the 2010 John S. Karling lecture. The production of Mycologia in print and online is going well and the coordination of responsibilities between MSA, Allen Press, HighWire Press, Assistant and Associate editors is working smoothly. Issue 105.1, 234 pages, was released Jan 8, 2013 and included a review on sexual reproduction in fungi based on Joe Heitman's 2011 Karling lecture. Issue 105.2 is being prepared for press and will be published in late March. Issues 105.3 – 105.5 are now in various stages of production.

A special section on genomics of Polyporales is in preparation for publication in issue 105.5 or 105.6, with David Hibbett and Jason Stajich acting as guest editors for this set of papers. The section is planned to include eight research papers and one overview paper authored by David and Jason. This will be an exciting and important collection of genomics papers and I am very happy that it will be published in Mycologia.

Associate editors. Welcome and thanks to Dr. Ning Zhang, Dept. of Plant Biology and Pathology, Rutgers University who has agreed to serve as an associate editor. I also extend thanks to AEs whose terms expired in 2012 for their years of service to the MSA: David Geiser, Steve Harris, Margaret Silliker and Merlin White. These retiring associate editors and those who are continuing have been doing an exceptional job of processing manuscripts submitted to the journal. And of course the contribution of MSA members who agree to review papers is very much appreciated. Contributions by many individuals are keeping Mycologia strong and well supplied with papers that represent the best of current research on fungi.

General statistics. 303 new manuscripts were submitted Jan 1 – Dec 31 2012, close to the 283 submitted in 2011 (+ 7%). For 2012 the acceptance rate was 37% with 25% still outstanding. For 2012 the average time to first decision was 40 days and time to final decision was 60 days. For the two-year period, 2011–2012, 586 papers were submitted, 46% accepted, 14% still outstanding; time to first decision was 44 days and average time to final decision was 78 days. To date for 2013, 29 papers were submitted in Jan and 23 in February, similar numbers to a year ago. Submissions to Mycologia have been trending upward over the past several years, and while the acceptance rate has declined somewhat the size of issues has been increasing. I have been reluctant to impose a highly selective editorial policy, preferring to keep Mycologia open to all authors conducting research on fungi. But the increasing numbers of papers submitted and the limitations of our editorial workload and society finances have nevertheless made it necessary to change the criteria for publication. For the most part, deciding what criteria to apply rests with the associate editors who are specialists in a particular subject area. It is clear that Mycologia is continuing to attract excellent, noteworthy, important papers.

I am beginning the last year of my term as Mycologia EIC. It has been my great pleasure to work with many members of the MSA to keep the society's journal

Continued on following page

vital. There are too many people to thank for all they have contributed to the functioning of the Mycologia. I look forward to working with the next EIC to transition into the job and I hope by the end of my term the journal will still be going strong. Academic publishing, and especially academic publishing by non-profit societies, faces a very uncertain future. Mycologia has changed considerably during the past 5 years and will need to keep changing to remain viable. I hope very much that the journal will continue to prosper and serve as a showcase for the best of research in mycology. I hope MSA members will continue to be generous in their support of Mycologia.

—Jeff Stone, *Mycologia* Editor-in-Chief

MIDYEAR REPORT OF THE FINANCE COMMITTEE

The total market value of the MSA Investment Portfolio with Wells Fargo Advisors as of Jan. 31, 2013 is \$932,454.68, an increase from \$897,511.28 on Jan. 31, 2012. Assets in the Endowment Account are now \$605,321.64 and assets in the Operating Account are currently at \$327,133.04. As of July 31, 2012, the values of the two accounts were \$594,565.50 and \$321,576.68, respectively. The Society's finances remain stable with some growth.

Our ability to generate new moneys from interest on our assets continues to be limited. Presently interest rates on CDs are less than 1% for 6-month, 1-year or even 2-year certificates. Unfortunately, they are not any better for US Treasury Notes. Interest generated this coming year from these investments will certainly continue to be low until interest on CD's, the primary instrument we use for investment, reverses the trend of low interest returns on such investments.

Our Mutual Funds investments are growing slowly but steadily even though interest rates are still low (1.23% in a conservative fund to 3.65% in a more aggressive fund). With continued upward trends in these markets, we would seem to have recovered from most of the losses suffered during the recent economic down turn.

The MSA portfolio managed by Well Fargo Advisors is set up as two separate accounts, the Operating Accounts and the Endowment Accounts. Moneys are invested in the following percentages for each account as of January 31, 2013. In the Operating Account the funds are apportioned currently as 68.44% in Cash, and 31.56% in Mutual Funds. For the Endowment Account the funds are distributed as 14.08% in Cash, 44.61% in Fixed Income Securities and 41.30% in Mutual Funds.

—Finance Committee

Lisa A. Castlebury (Chair), Martha Powell, Jim Worrall

MIDYEAR REPORT OF THE NOMENCLATURE COMMITTEE

Since the annual report (Inoculum 63(4), August 2012), activity on the nomenclatural front has been relatively quiet in comparison to the recent period of major changes associated with the new *International Code of Nomenclature for algae, fungi and plants* (ICN), which is now available online (<http://www.iapt-taxon.org/nomen/main.php?page=title>). Registration of fungal names and the presentation of identifiers in publications is now required for valid publication of new names, and the IAPT Nomenclature Committee for Fungi has approved Fungal Names, Index Fungorum and MycoBank as official repositories. Further information on this and what information will be required to receive an identifier from a repository is outlined by S. Redhead and L. Norvell in NCF report 19 (in Taxon, presently a preliminary fast track article).

Since the ICN has become available and all of its provisions are now in effect, this Committee along with Scott Redhead revised the Nomenclatural FAQ used by *Mycologia* to advise potential authors and to encourage good nomenclatural practices. The revised version is available online at *Mycologia's* HighWire site (<http://www.mycologia.org/site/misc/FAQvers2.xhtml>), and it should be current until the next International Botanical Congress in 2017.

Members of the Committee have advised membership and assorted editors of *Mycologia* including the Editor-in-Chief upon request.

On a final note, nomenclatural mavens, Lorelei Norvell, Shaun Pennycook and Scott Redhead, have experienced serious health issues recently. We all have been fortunate to have their expert service over the years, which remains ongoing, and are grateful for the time they have taken away from other activities to assist the mycological community in matters of fungal nomenclature. We wish them the best and many more mycological adventures.

—Nomenclature Committee

Roy E. Halling (Chair), Drew Minnis, Keith Seifert

MIDYEAR REPORT OF THE KARLING ANNUAL LECTURE COMMITTEE

The Karling Annual Lecture Committee selected Professor Barbara Howlett as the 2013 speaker. Dr. Howlett's nomination was approved by MSA Council vote on Oct. 18, and Cameron Currie, committee chair, extended an invitation to Dr. Howlett.

Barbara Howlett is a professor in the Department of Botany at the University of Melbourne in Australia. She is an internationally recognized expert on fungal interactions and diseases of plants, with a focus on *Leptosphaeria maculans* which causes blackleg, the major disease of canola world wide. Her work spans molecular, genetic, and genomic approaches wed with field work and she is frequently called upon as an expert with respect to agriculture and enhancing crop production in Australia. Their overall goal is to develop improved strategies for control of this important plant crop disease. Her work has recently contributed to the first genomic sequences for this species, developed genome wide mutagenic approaches with agrobacterium, and focused on the gene clusters that produce natural products and their evolution and function. Dr. Howlett was the co-organizer of the 2007 Asilomar Fungal Genetics GSA sponsored meeting, and serves on and chairs the Fungal Genetics Policy Committee. She is an associate editor of PLOS Pathogens and serves on the editorial board of Eukaryotic Cell. She delivered the 2012 Plenary lecture at the European Fungal Genetics Conference, Marburg, Germany and the 2011 Keynote closing lecture at the FEBS Advanced Lecture Course on Human Fungal Pathogens, Nice, France. She is an elected fellow of the American Academy of Microbiology.

—Karling Annual Lecture Committee

Cameron Currie (chair), Anne Pringle, Joseph Heitman

MIDYEAR REPORT OF PROGRAM AND LOCAL ARRANGEMENTS COMMITTEES

Plans for the joint APS/MSA 2013 meeting in Austin, Texas are nearly complete except for room assignments for symposia, oral presentations and posters. The APS-MSA Meeting website (<https://www.apsnet.org/meetings/annual/call-papers/Pages/SubmissionInstructions.aspx>) went live 1 February and will accept submissions through 15 March.

Registration fees are as follows:

| Registration | Advanced by May 8 | Regular by July 8 | Late/Onsite starting July 9 |
|-----------------------------------|-------------------|-------------------|-----------------------------|
| Member (Rates apply to MSA & APS) | \$480 | \$540 | \$585 |
| Nonmember | \$580 | \$640 | \$685 |
| Student Member | \$285 | \$345 | \$390 |
| Post-Doc Member | \$370 | \$430 | \$475 |
| Emeritus Member | \$170 | \$190 | \$200 |

Everyone submitting an abstract will be required to add an additional \$55 as an abstract fee to their registration fee.

Betty Ford, the professional organizer for APS, informed me on 19 February that the hotel rates will be posted on the website in a few weeks.

Foray. The MSA foray (called Texas Foray by APS) is being coordinated by Harold W. Keller (MSA), Brian Shaw (MSA) and Sydney Everhart (APS) and it will be held 10 August from 8–12:30 together with APS. Get your boots dirty on this fungal foray for macro- and microfungi in natural settings. This excursion will take you to Barton Creek Greenbelt, considered one of Austin's best outdoor destinations. Novices and experts alike will have a chance to foray for fungi and at mid-morning, participants will return to the Convention Center to examine and identify specimens and listen to a lecture about Texas mushrooms by Dr. Clark Ovrebo, Department of Biology, University of Central Oklahoma. Members of the Austin Mushroom club have agreed to serve as local guides. The Foray will be at the Barton Creek Greenbelt. This is a city park that runs from near downtown Austin, south and west of town for several miles. The trailhead for the joint MSA/APS foray is less than 10 miles by bus from the convention center. Cost will be \$35. Busses will leave the convention center at 8 AM. We will convene for the Foray photo on site at 10:30 and return to the Hotel by 11:00. We will assemble to compare collections there and listen to Dr. Clark Ovrebo in the Hotel from ~11:30-12:30 who will speak about Texas mushrooms. The event will adjourn at ~12:30 for lunch. Lunch will be on your own, at any of downtown Austin's many dining options.

Continued on following page

Brian Shaw's foray to Max's Wine Dive for the Student Social and the Volunteer Reception: Attached are two budget estimates from Max's Wine Dive (two blocks from Hotel and Convention Center) for the Student Social and the Volunteer Reception. The bottom line is that the estimates are coming in cheaper than the less desirable Hotel options previously discussed, so I see no reason to not go with these. Please offer up any thoughts or questions. I will also need to contact the student reps to be sure that they are ok with switching venues. The Wine Bar has a \$1500 minimum for each event (before the 21% service charged = \$1815). They have budgeted a nice sounding assortment of food items that should keep everyone happy. I'm particularly excited to see the truffle tortilla's for our events. The identical food for each event came to \$746 for each. They estimated \$8 per ticket for 50 pre-paid drink tickets. (This is an estimate since they charge by the bottle for wine for example) , with this \$400 the society is initially out \$1146 for each event. Second drinks purchased by individuals then count toward the \$1500 minimum. Any shortfall would be by MSA's responsibility. This would likely be more of an issue at the student social when students may be reluctant to purchase an \$8 drink.

Symposia. The following seven MSA-sponsored symposia are scheduled for 2013:

- Fungal ecology beyond boundaries: From communities to the globe
- One fungus, one name: the impact of recent changes in fungal nomenclature
- Functional, evolutionary and ecological diversity of wood decay systems
- Status and challenges in identification and diagnosis of graminicolous downy mildews
- New horizons in the cell biology of fungi
- Interactions and mechanisms of symptomless plant symbioses
- Responses of plant symbiotic fungi to climate change: Diversity, distribution, and function

Organizers of the symposia raised \$10,000, APS matched funding on 6/7 symposia and contributed \$5075, and MSA contributed \$6000. Thus, all of the symposia are fully funded except for David Hibbett's symposium titled "Functional, evolutionary and ecological diversity of wood decay systems" because Novozymes decided to not contribute the \$1500 requested. Novozymes, however, will be funding the travel of one of their employees who will be speaking in this symposium.

Budget. Funds to support symposia will be sent to APS who will deal with distributing them to speakers after the meeting. Thus, MSA profit from the meeting will be derived from the auction.

Preliminary schedule of key MSA functions and symposia is as follows:

SATURDAY, AUGUST 10

8:00 a.m. – 12:30 p.m. Field Trip – Texas Foray
 12:00 – 6:00 p.m. Registration
 1:30 – 6:30 p.m. MSA Council Meeting

SUNDAY, AUGUST 11

7:00 a.m. – 6:30 p.m. Registration
 10:30 a.m. – 12:00 p.m. MSA Business Meeting and Awards Ceremony
 1:00 – 4:00 p.m. Functional, evolutionary and ecological diversity of wood decay systems

MONDAY, AUGUST 12

7:00 a.m. – 5:30 p.m. Registration
 8:30– 11:30 New horizons in the cell biology of fungi
 8:30– 11:30 Status and challenges in identification and diagnosis of graminicolous downy mildews
 2:30 – 3:30 p.m. Karling Lecture (MSA)
 6:00 – 7:00 p.m. MSA Student Mixer

TUESDAY, AUGUST 13

7:00 a.m. – 5:30 p.m. Registration
 8:30– 11:30 Fungal ecology beyond boundaries: From communities to the globe
 1:00 – 2:00 p.m. MSA Presidential Address
 6:00 – 7:00 p.m. MSA Volunteers Reception

WEDNESDAY, AUGUST 14

8:30– 11:30 Interactions and mechanisms of symptomless plant symbioses
 8:30– 11:30 One fungus, one name: the impact of recent changes in fungal nomenclature
 11:30 a.m. – 1:00 p.m. MSA Editorial Meeting
 1:00 – 4:00 p.m. Responses of plant symbiotic fungi to climate change: Diversity, distribution, and function
 5:00 – 7:00 p.m. MSA Auction, Awards and Social
 6:30 – 9:30 p.m. Final Night Celebration

–Program Committee & Local Arrangements

Kerry O'Donnell (Chair), Anne Pringle, Sharon Cantrell, Susan Kaminskyj, Brian Shaw (Local Arrangements)

MIDYEAR REPORT OF THE BIODIVERSITY COMMITTEE

Summary

The biodiversity committee is charged with developing a *symposium or session on biodiversity* for each annual meeting. This year the committee developed a symposium proposal on biodiversity for the MSA-APS annual meeting titled: *Biodiversity and Biogeography of Macrofungi: from the Southern States to the Neotropics*. This proposal was not selected for the 2013 meeting. The biodiversity committee was active in *teaching and outreach* and Juliano Baltazar is part of a PhD exchange program working on the taxonomy of corticioids in Argentina, Cathy Cripps led several local forays and participated in a short film on morels and made a guest TV appearance; Kabir Peay participated in a teaching workshop in Malaysia to help train local students in mycological methods; Matt Smith participated in the FESIN meeting to discuss the North American Mycoflora project and as is contributing to the NSF digitization grant "The Macrofungi Collection Consortium" with the goal of digitizing specimens from several institutions for an online database: <http://mycoportal.org/portal/index.php>. Matt was also the main speaker at a "Science Café" event orchestrated by the Florida Museum of Natural History. For *research on Biodiversity*, Juliano, participated in a research expedition in Rio Grande do Sul State Argentina to collect corticioid fungi; Cathy attended the week long International Symposium on Arctic-Alpine Mycology at the Kevo Field Station in Finland; and Matt participated in a research expedition to collect *Nothofagus*-associated fungi in Chile and Argentina. Committee members gave *presentations* at the International Symposium on Arctic-Alpine Fungi 9 in Finland (Cathy), the Argonne Soil Metagenomics Meeting (Peay), the Department of Plant and Microbial Diversity, Berkeley (Peay) and at the APS meeting in Rhode Island (Matt on Metagenomics in fungal community ecology). The committee produced 13 *publications on biodiversity* of fungi in such diverse areas as Argentina, Brazil, Yellowstone National Park, the Arctic, Guyana, Japan, and China. Papers focused on systematics, new species, surveys, ecology and trends in the global diversity of ectomycorrhizal fungi. Details are in our final report.

–Biodiversity Committee

Cathy Cripps (Chair), Juliano Marcon Baltazar, Kabir Peay, Mat Smith

MYCOLOGICAL NEWS

Larry L. Grand, 1940-2013

Larry Grand, long-time mycologist and plant pathologist at North Carolina State University, Raleigh, died suddenly and unexpectedly on March 14, 2013, at his beach house.

Larry was born in Lock Haven, PA, graduated from Immaculate Conception Catholic High School in Lock Haven in 1958, earned his BS (1962) and MS (1964) in Forestry from Pennsylvania State University and continued his education at Washington State University, earning a PhD in Plant Pathology in 1967. Recently retired from NC State after 45 years, Larry's research involved *Phytophthora* root rot of Fraser fir Christmas trees and other diseases of trees as

well as assessing the biogeography of wood-decay fungi in North Carolina. He was part of a multidisciplinary team assessing fungal biodiversity in North Carolina state parks and the Great Smoky Mountains National Park. Larry was also a highly respected teacher, having received many awards, including the Academy of Outstanding Teachers, Alumni Distinguished Professor as well as those from his professional societies. He established a mycological herbarium which is widely recognized, has received NSF funding and currently holds over 8000 specimens of wood-rotting fungi. The Larry L. Grand Herbarium was recently named in his honor.

Congress on the Systematics and Ecology of Myxomycetes

The Eighth International Congress on the Systematics and Ecology of Myxomycetes will be held at Jilin Agricultural University in Jilin Province, China planned for the sec-

ond week of August, 2014. For additional information please contact Professor Dr. Qi Wang Email:

qwang2003@hotmail.com

MYCOLOGICAL CLASSIFIEDS

Mycology Books For Sale

Please send email offers for specific items to jandcharris@sbc-global.net

- Common Mushrooms of the United States. Louis C. C. Krieger.
- National Geographic Magazine. May 1920.
- Marvels of the Mycetozoa. 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. Szaniszló. 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.
- 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.

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MYCOLOGIST'S BOOKSHELF

We have four reviews for this issue, and I've added some new titles to the list below, which has been updated indicating which books are already in the process of being reviewed, and which still need reviewers. Just as a reminder, I've adopted a new process for getting books to you, whereby books will be "drop-shipped" directly from publisher to reviewer; this will streamline the process at my end and will save the Society considerable money in shipping expenses. Also of note, and perhaps a trend: one of the publishers whose books we frequently review is adopting a new policy that currently only applies to some of their books: the review will have to be done using an online version (though not a pdf or something for a Kindle or e-reader). Once they receive a copy of the published review, they'll ship the reviewer the hard copy. This will be the case with the Springer "Laboratory Protocols in Fungal Biology" by Gupta et al.

If you would like to review a book or CD, please contact me (robert.marra@ct.gov). 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

- ****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). Available March 2013.
- ****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).
- ****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).
- ****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).
- ****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.
- ****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.
- ****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).
- **Funga Nordica, 2nd ed. 2012. H. Knudsen and J. Vesterholt (Eds.).** Nordsvamp, Copenhagen. ISBN: 9788798396130. 1083 pp (2 volumes). Price £95, €111.15.

Continued on following page

- **The Genus *Cladosporium***. 2012. K. Bensch, U. Braun, J.Z. Groenewald, and P.W. Crous. CBS Studies in Mycology No. 72. CBS Fungal Biodiversity Centre. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-91-5. 401 pp, fully illustrated with color pictures (A4 format). Price: € 70 (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).
- **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).
- **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).
- **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).
- **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.*
- **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).

**** New this issue.**

Books with Reviewers Assigned

- **Evolution: Making Sense of Life**. Available August 2012 (copyright year 2013). Carl Zimmer and Douglas J. Emlen. Roberts & Company Publishers, Greenwood Village, CO. www.roberts-publishers.com/. ISBN: 978-1-9362-2117-2. 800 pp, printed in four colors. Price: \$92 (hardback). *Reviewed this issue.*
- **Elements of Evolutionary Genetics**. 2010. Brian Charlesworth and Deborah Charlesworth. Roberts & Company Publishers, Greenwood Village, CO. www.roberts-publishers.com/. ISBN: 978-0-9815-1942-5. 768 pp, b&w. Price: \$64 (softcover). *Reviewed this issue.*
- **Biomonitoring, Ecology, and Systematics of Lichens**. Bibliotheca Lichenologica vol 106. 2011. Scott T Bates, Frank Bungartz, Robert Lucking, Maria A Herrera-Campos, Angel Zambrano (Eds.). Borntraeger/Schweizerbart Science Publishers, Stuttgart. www.schweizerbart.de. ISBN: 978-3-443-58085-8. 442 pp, 102 figures, 33 tables, 16 color plates. Price: €109.00 (softcover). *Reviewed this issue.*
- ***Colletotrichum*: Complex species or species complexes?** 2012. U. Damm, P.F. Cannon, P.W. Crous (Eds.). CBS Studies in Mycology No. 73. CBS Fungal Biodiversity Centre. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-92-2. 213 pp, fully illustrated with color pictures (A4 format). Price: € 65 (softcover). *Reviewed this issue.*
- **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).
- **Biology of Lichens – Symbiosis, Ecology, Environmental Monitoring, Systematics and Cyber Applications**. Bibliotheca Lichenologica vol 105. 2010. Thomas Nash III, Linda Geiser, Bruce McCune, Dagmar Triebel, Alexandru M Tomescu, William Sanders (Eds.). Borntraeger/Schweizerbart Publishers, Stuttgart. www.schweizerbart.de. ISBN: 978-3-443-58084-1. 256 pp, 81 figures, 19 tables. Price: €79.00 (softcover).
- **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).
- **Fungi of Serbia and Western Balkans [Gljive Srbije I Zapadnog Balkana].** 2009. Branislav Uzelac (photographs by Goran Milosevic). BGV Logik, Belgrade, Serbia. Branislav Uzelac. 2009. BGV Logik, Serbia (english@glijvari.org.rs) or (goran.milosevic@poducavanje.co.rs. ISBN 978-86-912677-0-4. 464 pp. 464, ca. 1200 color photographs. Price 120 €.

Biomonitoring, Ecology, and Systematics of Lichens

Biomonitoring, Ecology, and Systematics of Lichens.

Recognizing the Lichenological Legacy of Thomas H. Nash III on his 65th Birthday. Bibliotheca Lichenologica vol 106. 2011. Scott T. Bates, Frank Bungartz, Robert Lucking, Maria A. Herrera-Campos, Angel Zambrano (Eds.). Borntraeger/Schweizerbart Science Publishers, Stuttgart. www.schweizerbart.de. ISBN: 978-3-443-58085-8. 442 pp, 102 figures, 33 tables, 16 color plates. Price: €109.00 (softcover).

This volume is a wonderful way of recognizing the far-reaching influence of Tom Nash in the field of lichenology. Because of its nature as a *festschrift*, it is a mixture of papers that, among a variety of topics: describe new species; recombine and reorganize other species; and test hypotheses about distribution of lichens with respect to climate and pollutants. It is a valuable collection for lichenologists and ecologists, especially those interested in the use of lichens as air quality monitors.

The introductory article describes Tom's career as a lichenologist, and is filled with photos that illustrate his teaching, collaborations, and achievements. It emphasizes his interest in the big picture, but also his recognition that small details such as taxonomy and physiological experi-



Tom Nash

ments are of great importance in achieving a comprehensive view. That 26 of the 33 papers in this volume are about taxonomy clearly shows Tom inspired and aided many people in taxonomic work.

But the greater impact of this *festschrift* is in highlighting the legacy Tom leaves in ecological monitoring. Howe and Lendemer's paper revisits the lichen desert downwind of the Palmerton zinc mine, which Tom described in his landmark study in 1972. They found increased lichen cover and diversity, indicating recovery following the cessation of smelting in 1980. Bennett's article describes high concentrations

of airborne copper in lichens in Chiricahua and Saguaro national protected areas. Riddell et al. revealed lichen community shifts in the area surrounding Los Angeles by comparing historical records with surveys in the 1970's and 2008, and found that deposition levels of nitrogen heavily influence the present communities, decreasing species diversity in general but increasing occurrence and abundance of nitrophilous species.

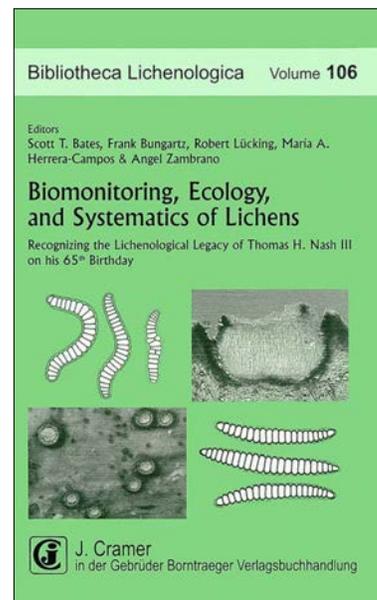
Other papers address lichen communities' responses to their habitat, and ways of quantifying those responses across

Continued on following page

time and space, backing out further and further to get a larger view of our world. Will-Wolf et al. investigated the morphological responses of lichens, including their photobionts, to air pollution. Perez Perez et al. found that management of a pine-oak forest in Oaxaca, Mexico maintained high lichen diversity by retaining gaps, coarse woody debris, shrub layer, and uneven age distribution of trees. Zedda et al. tested the use of morphospecies groups in assessing diversity of lichen soil crusts in southern Africa. McCune and Printzen present a model that uses continental influence and annual temperature as main factors to predict distributions of species in the *Lecanora varia* group, a baseline for future studies watching the effects of climate change in the western United States. Rosentreter and DeBolt compared lichen floras of Florida and Arizona, and suggest that the mountains of Arizona represent refugia of a common flora prior to the Hypsithermal interval.

This volume is an interesting albeit diverse collection of papers. Publishing them as a *festschrift* is a wonderful tribute to Tom Nash, but at the same time makes them somewhat difficult to access for research purposes. An informative addition would be a list of Tom Nash's students and postdoctoral fellows.

—Daphne Stone, Ph.D.
Eugene, OR



Evolution: Making Sense of Life

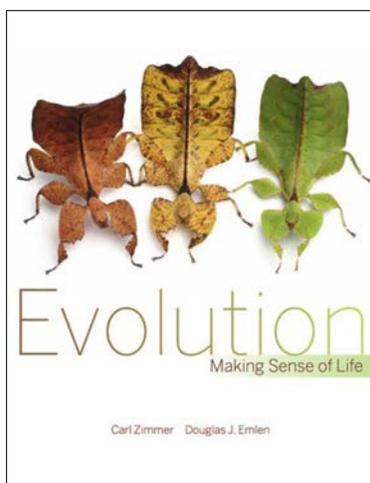
Evolution: Making Sense of Life.

Carl Zimmer, Douglas J. Emlen. Roberts and Company, Greenwood Village, Colorado. www.roberts-publishers.com. ISBN: 9781936221172 (hard-cover), 9781936221363 (paperback). 680 pp. Approx. 520 color illustrations. Price when ordered through publisher's website: \$92 (hard cover), \$80 (paperback or interactive iPad app).

Pages 9–11 of the December 2012 *Inoculum* "Book Shelf" included reviews of two books about evolution: *Evolution of Fungi and Fungal-like Organisms* is multi-authored (reviewed by Gábor Kovács), *The Tangled Bank: an Introduction to Evolution* by Carl Zimmer is more general (reviewed by David Yohalem).

Zimmer is also author together with Douglas J. Emlen of the book we review here. It is explicitly a textbook. Each of the 18 chapters ends with a summary of bulleted major points, a list of multiple choice questions, short-answer questions, additional reading list, and primary literature cited in the chapter. The book ends with a glossary, answers to multiple-choice questions, credits for photos and illustrations, and index.

Evolution: Making Sense of Life introduces Zimmer as a science journalist, author of a dozen books about biology and evolution, winner of multiple awards, and lecturer at Yale University. And the textbook introduces Emlen as a professor at the University of Minnesota, researcher on evolutionary phenomena, author of books, winner of several awards. The combined experience and skills of these authors shine through in their lucid writing. The beautiful illustrations fit the text marvelously to expand the con-



cepts; the book's large format is particularly useful for large illustrations. Its size and high-quality paper is evidenced by this bit of trivia: the hard-cover version weighs 5 lbs. The hard cover is high quality paper, not cloth; only time will tell how the binding holds up for such a heavy book.

David Yohalem's laudatory review of Zimmer's *Tangled Bank* book, noted above, included comments that describe exactly my impressions of the present book, so I need not repeat them here. Do not lose interest in *...Making Sense of Life* because it is explicitly a textbook. Evolution is covered from its historical beginning as a concept through the fos-

sil evidence, the role of genetics, phylogeny, adaptation, and interactions of genes with environment, plus examples of evolution of mutualisms, behaviors, humans, and medical phenomena. Techniques of studying evolutionary phenomena, from making microscope slides of petrified fossils to phylogenetic analysis, are described in some detail. The book is a useful, updated reference on evolutionary history and concepts for researchers as well as students. Contact the publisher for offers of diverse teaching aids, jpegs of the illustrations, and purchase of individual chapters online.

But wait! I'm reviewing this book as a mycologist for mycologists. How does the book address the Fifth Kingdom? Basically, it doesn't. It focuses on the animal kingdom, with plants thrown an occasional scrap where it can't be avoided, such as Mendel's studies of inheritance in

Continued on following page

peas, plus brief and incidental mentions of fungi. “Mycorrhiza” has only one indexed page of the book’s 680 pages; there (p. 478) the dependence of most of earth’s plant life, and hence animal life, on mycorrhizal symbioses is brushed off in two short sentences: “Nutrient exchange between mycorrhiza and plants: Fungi in soil deliver minerals and other nutrients to plant roots. Plants deliver organic carbon to fungi.” Even that initial sentence is not correct: the mycorrhiza is a compound organ of fungus + rootlet, the place of exchange, but the exchange itself is between fungus and root cells, not “between mycorrhiza and plants.” Fungi fare slightly better, being indexed for five pages: p. 4, “Viruses infect every species of animal, plant, fungi, protozoan...;” pp. 66 and 114, fungi are included in a diagram of the Eucaryotes; p. 68, “Animals, for example, are closely related to fungi, which can produce mushrooms...multicellularity evolved in animals and fungi independently...;” p. 73-74, a paragraph mentioning that some fungi are saprotrophs, some pathogens, some “...help plants, supplying nutrients to their roots in exchange for organic carbon” and “It appears that fungi and plants helped each other move from water onto land (Berbee and Taylor 2007).” At least this last item provides an excellent reference, but that topic alone deserves pages in a book purporting to make sense of life.

I confess to not reading the 680 pages word for word, but in scanning I found some oddities. For example, “...the glassy-winged sharpshooter...drinks the xylem in the woody fibers (of the tree).” This suggests the book’s long list of reviewers and collaborators contains few, if any, botanists. Neglecting fungi and plants is the authors’ choice, but the book itself belies the title, which would be more accurate as *Evolution: Making Sense of Animal Life*.”

Well, we have books such as *Evolution of Fungi and Fungal-like Organisms*, reviewed by Kovács in the preceding issue of *Inoculum*. Such treatments are important to our understanding of fungal evolution. But much that we mycologists publish is preaching to the congregation. How do we mycologists convince our colleagues in other disciplines that fungi are vital players in evolution, ecology, and multitudes of other biological phenomena, that the evolutionary trajectories of animals were shaped by plants, and those of plants shaped by fungi? We need to develop better ways to teach publishers and authors that the Fifth Kingdom matters!

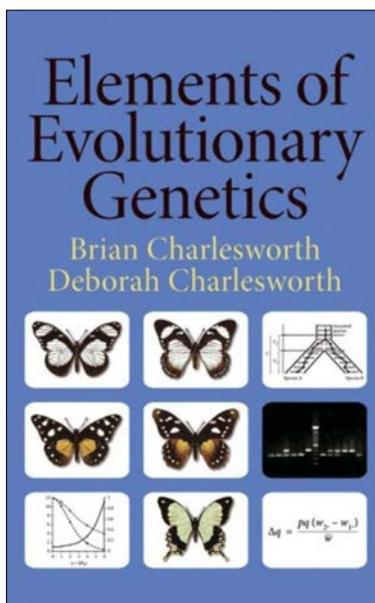
—Jim Trappe

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Elements of Evolutionary Genetics

Elements of Evolutionary Genetics. 2010. Brian Charlesworth and Deborah Charlesworth. Roberts & Company Publishers, Greenwood Village, CO. www.roberts-publishers.com/. ISBN: 978-0-9815-1942-5. 768 pp, b&w. Price: \$64 (softcover).

Elements of Evolutionary Genetics, by Brian and Deborah Charlesworth, is an exceptional and very comprehensive text. This is a modern coverage of the subject, including coalescent theory and applications, and evolutionary genomics. Each of the ten chapters begins with a *Chapter Summary* that immediately pulls the reader in. The book covers topics ranging from measuring genetic variability, basic natural selection theory and maintenance of variation, selection and maintenance of genetic variation within a population, migration and mutation, effects of stochastic processes on finite populations, genetic variation and spatial structure, linkage disequilibrium, evolution of breeding systems and evolutionary genomics. The Appendix covers basic mathematical concepts and statistics and is followed by a thorough reference list spanning 71 pages.



The book is intended for evolutionary biology courses for graduate students. A set of problems is found at the end of the chapters. Short explanations of the answers for all problems are found at the end of the book. The authors assume readers will have a familiarity with basic genetics and molecular biology. I would add mathematics and statistics to that list.

The authors emphasize that empirical studies presented are drawn from a wide range of organisms. Unfortunately, the lack of examples of empirical studies of fungi was striking, as was the incredibly few referenced mycological studies. However, in the chapter on *Evolution of Breeding Systems*, I did find the treatment of self-incompatibility in plants very thorough and interesting.

Regardless, this book should be an essential part of any graduate student’s reading list in evolutionary biology as well as accomplished researcher’s reference.

—Lisa Grubisha

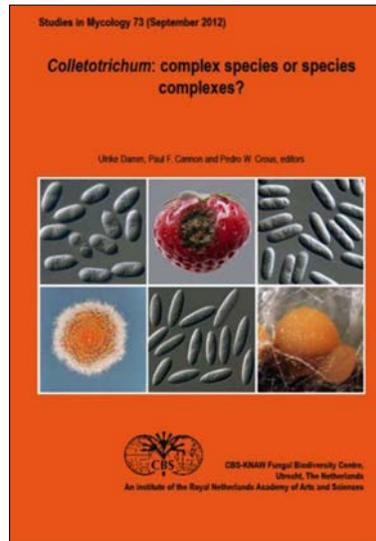
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Colletotrichum: Complex Species or Species Complexes?

Colletotrichum: Complex species or species complexes? 2012. U. Damm, P.F. Cannon, P.W. Crous (Eds.). CBS Studies in Mycology No. 73. CBS Fungal Biodiversity Centre. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-92-2. 213 pp, fully illustrated with color pictures (A4 format). Price: € 65 (softcover). Available at <http://shop.fungalbiodiversitycentre.com/>

Species in the genus *Colletotrichum* cause many serious diseases of economically important plants that are often referred to as anthracnose or black spot. In addition, *Colletotrichum* is commonly isolated as an endophyte from almost all plants. In the early twentieth century, species of *Colletotrichum* were described based primarily on host, resulting in over 700 names. In 1957, von Arx published a paper in which he recognized only a few species in *Colletotrichum* and synonymized hundreds of names under *C. gloeosporioides*. Although the number of species increased since then gradually to about 40, this synonymy has generally been accepted until just recently. Over the past decade molecular sequence data have been used to show, for example, that within the broadly conceived *C. gloeosporioides* many species exist. These data reveal that some species of *Colletotrichum* are host-specific while others are not, with the morphological distinctions between species not at all clear. Based on sequence data a phylogenetic outline of the genus *Colletotrichum* has been developed and the number of accepted species has been increasing. Enter SIM 73!

This issue of *Studies in Mycology* brings together comprehensive papers on three significant species complexes in *Colletotrichum* along with an overview of the genus. Each of the three papers includes an amazing number of isolates, although the geographic distribution is somewhat skewed toward the location of the authors, with



New Zealand well represented. The phylogenies are based on six to eight genes of which five are common to each complex. In the paper on the *C. acutatum* complex there is a table listing conidial and appressorial measurements while in the *C. gloeosporioides* there are comparative box plots. These serve to provide a synopsis of the morphology of each species in lieu of a key, as it would surely be impossible to develop a key to species. I suppose these analyses will be helpful in identifying species but only to a limited extent. Quite frankly, these species can only be identified based on sequence data and toward that end the overview paper includes a list of the eighty accepted species, with GenBank numbers of authentic sequences of six to eight genes for each one.

Given the numbers of names that already exist, it is regrettable that these authors are so anxious to describe more of them. This is certainly the taxonomist's dilemma in the molecular age—should one attempt to attach an old name to a newly circumscribed group of isolates or simply describe it as a new species? For the most part these authors have taken the easy route and chosen to describe many of their species as new. The authors of the chapter on *C. gloeosporioides* are to be congratulated for their efforts to match their phylogenetic species with existing scientific names.

All in all this is an amazing set of papers and moves systematic knowledge of the ubiquitous and extremely difficult genus *Colletotrichum* forward, such that an understanding of questions concerning the worldwide occurrence and role of these fungi as endophytes and pathogens may be meaningfully addressed.

—Amy Y. Rossman

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REMINDER: MSA Directory Update

Is your information up-to-date in the MSA directory? The Society is relying more and more on email to bring you the latest MSA news, awards announcements and other timely information, and our newsletter. To ensure that you receive Society blast emails and the Inoculum as soon as it comes out, and so that your colleagues can keep in touch, please check the accuracy of your email address and contact information in the online directory. This can be accessed via our web site at www.msa-fungi.org. If you need assistance with updating your membership information, or help with your membership log-in ID and password, please contact Kay Rose, Association Manager at Allen Press, at kröse@allenpress.com.

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 dnavtvg@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 nomenclatural and taxonomic 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.mycokey.com/Ecuador.html

German Mycological Society DGfM
www.dgfm-ev.de

Glomeromycota PHYLOGENY
amf-phylogeny.com

MYCO-LICH facilitates mycology and lichenology studies in Iran.
www.mycos-lich.com

Mycologia
mycologia.org

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

Website relating to the 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.mcri.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/

MycKey
www.mycokey.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 — A peer-reviewed online journal for information on fungal natural history in Alaska, British Columbia, Idaho, Montana, Oregon and Washington, including taxonomy, nomenclature, ecology, and biogeography.
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 — A microbe blog on microbes in general, but carries occasional pieces specifically on fungi.
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.

May 14-19, 2013

31st New Phytologist Symposium
on Orchid symbioses: models
for evolutionary ecology
(14-16 May 2013)

<http://www.newphytologist.org/orchid/default.htm>

5th International Orchid Workshop
on Orchid population dynamics
(17-19 May 2013)

<http://www.iow2013.it/>

Aug. 10-14, 2013

Mycological Society of America with
the American Phytopathological Society
Austin, TX

Aug. 14-19, 2013

International Marine and Freshwater
Mycology Symposium (IMFMS)
Beijing International Convention Center
People Republic of China

Aug. 25-31, 2013

10th International Congress
of Plant Pathology
Beijing, China

Mycological Society of America – Gift Membership Form

Sponsoring a gift membership in MSA offers tangible support both for the recipient of the membership as well as for mycology in general. Providing both *Mycologia* and *Inoculum*, a gift membership is an excellent way to further the efforts of our mycological colleagues, especially those who cannot afford an MSA membership. In addition to a feeling of great satisfaction, you also will receive a convenient reminder for renewal of the gift membership the following year.

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or FAX to (785) 843-1274, Attn: Processing Department

*If this membership is given after June 1, please add \$10 to cover postage for past issues.

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The Society is extremely grateful for the continuing support of its Sustaining Members. Please patronize them and, whenever possible, let their representatives know of our appreciation.

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You are encouraged to inform the Membership Committee (D. Jean Lodge, Chair, djlodge@caribe.net) of firms or foundations that might be approached about Sustaining Membership in the MSA. Sustaining members have all the rights and privileges of individual members in the MSA and are listed as Sustaining Members in all issues of *Mycologia* and *Inoculum*.

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THE MYCOLOGICAL SOCIETY OF AMERICA

2013 MEMBERSHIP FORM

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AREAS OF INTEREST

Mark most appropriate area(s)

- Cell Biology – Physiology** (including cytological, ultrastructural, metabolic regulatory and developmental aspects of cells)
- Ecology – Pathology** (including phytopathology, medical mycology, symbiotic associations, saprobic relationships and community structure/dynamics)
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