

Newsletter of the Mycological Society of America

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— Important Dates —

October 15 Deadline:
Inoculum 57(6)

August 4-9, 2007:
MSA Meeting
Louisiana State University
Baton Rouge, Louisiana

Please send the editor notices about upcoming important events.

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RCN: A Phylogeny for Kingdom Fungi (Deep Hypha)¹

*By Meredith Blackwell,
Joey Spatafora, and John Taylor*

“Fungi have a profound impact on global ecosystems. They modify our habitats and are essential for many ecosystem functions. For example they are among the biological agents that form soil, recycle nutrients, decay wood, enhance plant growth, and cull plants from their environment. They feed us, poison us, parasitize us until death, and cure us. Still other fungi destroy our crops, homes, libraries, and even data CDs. For practical and intellectual reasons it is important to provide a phylogeny of fungi upon which a classification can be firmly based. A phylogeny is the framework for retrieving information on 1.5 million species and gives a best estimation of the manner in which fungal evolution proceeded in relation to other organisms. A stable classification is needed both by mycologists and other user groups. The planning of a broad-scale phylogeny is justified on the basis of the importance of fungi as a group, the poor current state of their knowledge, and the willingness of united, competent researchers to attack the problem.

“If only 80,000 of an estimated 1.5 million fungi are known, we must continue to discover missing diversity not only at lower taxonomic levels but higher levels as well. Deep Hypha encourages acquisition of ITS sequences for identification and global collection of new specimens in order to discover new lineages. Increasingly, fungal discovery and the development of molecular databases are becoming related processes with the realization that many familiar taxa could represent newly discovered diversity.”

The goals of the group included, “i) to promote fungal phylogenetics; ii) to create identification resources for new fungi, including those that are difficult or impossible to cultivate; and iii) to make fungal phylogenetics more accessible to other biologists to attract them to study fungi and to include more about fungi in their teaching.”

...And thus began the Deep Hypha² proposal lsb380.plbio.lsu.edu/network%20folder/network.html submitted to the National Science Foundation in the first round of the Research Coordination Network competition in early July 2000. With only three weeks in which to complete the proposal core participants were selected based on current or recent

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NSF funding, and because of the tight summer time frame, several mycologists could not be located in time to join the group. The Deep Hypha core participants included a “non-exclusive group of mycologists, comprising 10 women among 31 participants who range in age from 23-80 years; the benefits of membership are extended to include the students and postdoctoral associates of the core group members, those who graduate, and any interested mycologists who contact us.” Over the 5-year life of the grant, stand alone meetings were held one a year and a second meeting was held, usually in conjunction with MSA.

Deep Hypha participants, MSA, and mycology benefited in a number of ways: i) Mycologists were primed for the NSF Tree of Life competition by discussions and decisions already made by the community on taxon sampling and methods at the first Deep Hypha meeting in Baton Rouge (2002); ii) A second accomplishment was to work with the AFToL group to prepare a unified phylogenetic classification of Kingdom Fungi to the level of order. The “AFToL Classification” <www.clarku.edu/faculty/dhibbett/AFTOL/AFTOL.htm> project currently is under review by the global mycological community. The classification will be used in major mycological publications requiring a classification, including a) the *Dictionary of the Fungi*, b) Myconet, c) GenBank, and d) the 5th edition of the Alexopoulos (Blackwell, Mims, and Spatafora) *Introductory Mycology* textbook. The conservative consensus approach classification also will be published independently in a broadly circulated journal; iii) the November-December issue of *Mycologia* 98 (6) will be an all Deep Hypha issue! This will be worth buying extra copies because it



Jim Rodman — Krewe of Deep Hypha

will include 23 articles with phylogenies providing full coverage for all major groups of fungi, a bonus article discussing dates of fungal evolution, use of the AFToL Classification Project scheme throughout, integration of fungal morphology and fungal biology throughout the papers, and use of color plates in almost all of the papers; iv) Eventually, each article will have a corresponding Tree of Life Web Project page to be used for teaching upper elementary to college level students; v) Deep Hypha also sponsored a “Phylogenetics Symposium” at the

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Table I. Deep Hypha students and postdocs who received substantial travel awards to the Hilo MSA meeting.

Peter Avis,	Kentaro Hosaka	Sarathi Weraduwage
Chandalin Bennett,	S. A. Kageyama	Jason Slot
Manfred Binder,	Frank Kauff	Mikhail Sogonov
Sara Branco,	Matthew Keirle	Soon Gyu Hong
Bryn Mason Dentinger	Ed Lickey	Clement K.M. Tsui
Gail Celio	P. B. Matheny	Tim James
Christine Davis	Jolanta Miadlikowska	Valérie Hofstetter
Desiree Johnson	Ingo Morgenstern	Merlin M. White
Rachel Gallery	Andy Munkacsi	Andy Wilson
József Geml	Mahajabeen Padamasee	Sandra Woolfolk
Gi-Ho Sung	Jeri Parrent	Wyth L. Marshall
Cecile Gueidan	Brian Perry	Nicholas Zitomer
Heather Hallen	Roberto Ocasio	
Dan Henk	Kim Ryall	

Asilomar MSA meeting and a workshop “Fungi Growing on the Tree of Life” for high school teachers at the MSA Asheville meeting conducted by Larry Grand and Marc Cubeta. Many members of the group, including students and postdoctoral associates, benefited from travel funds to the stand-alone Deep Hypha meetings and in addition to the meeting at Hilo (Table I).

MSA members continue to profit from the Deep Hypha community-wide effort. The participants learned form and enjoyed the sessions. NSF suggested that they felt the fungal phylogeny group had been raised to a new height and suggested that a new theme be selected for the next mycological networking grant. A new proposal has been submitted in the last round, and we await the good word of potential funding to bring another group mycologists together to raise their science to new levels.

What is left? Watch for the ads in the next three issues of *Mycologia* for *Mycologia* 98 (6) and order extra copies of the Deep Hypha issue. The color and content will be worth your while!

¹Research Coordination Networks in Biological Sciences: A Phylogeny for Kingdom Fungi. NSF-0090301. 2001-2006. \$499,183. (M. Blackwell, PI; J. W. Spatafora and J. W. Taylor, CoPIs).

²James E. Rodman, the NSF Systematics Program Director at the time, supplied the nickname “Deep Hypha” for the group. We acknowledge our debt to him for his encouragement at all stages of the project.

Questions or comments should be sent to Meredith Blackwell, 1Dept. of Biological Sciences, Louisiana State University, Baton Rouge, LA 70803



We all learned a lot and a good time was had by all who could not get a flight back home until the next day (as happened with a group from Duke).



Change of Address

Send all corrections of directory information, including email addresses, directly to Allen Press

Mycological Society of America
Attn: Kay Rose, Association Manager
P.O. Box 1897 [810 E 10th St]
Lawrence, KS 66044-8897

Vox (800) 627-0629 (US and Canada)
or (785) 843-1221
Fax (785) 843-1274
Email krose@allenpress.com

Note: Members may also submit directory corrections via the form included in the MSA directory via the MSA Home Page: www.msafungi.org

MSA BUSINESS

From the President's Corner . . .

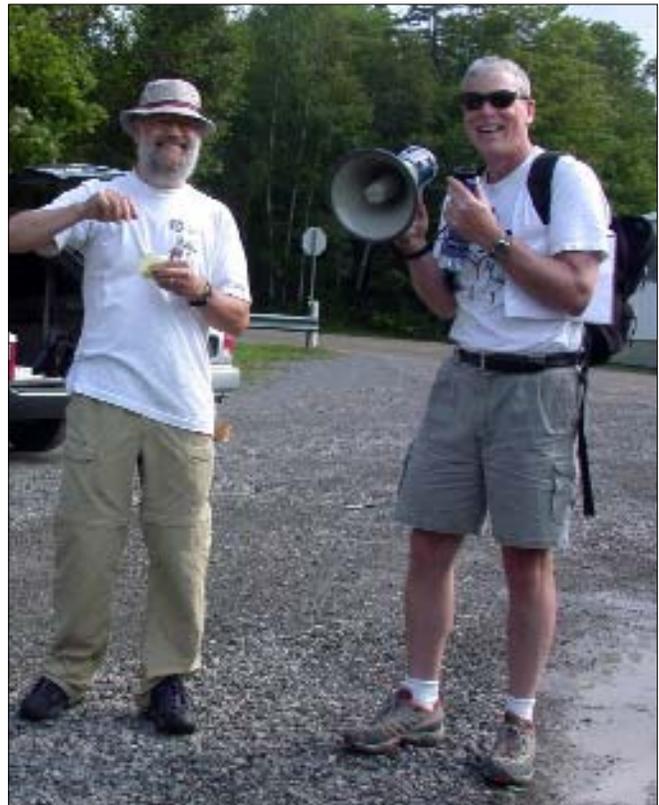
Dear Friends and Colleagues,

Many thanks to you all for the honor, privilege, and learning experience of serving as MSA President over the past year. I congratulate our new President, Greg Mueller, who is already off to a brisk start. Greg, we look forward to your leadership and we support you!

I am grateful to several individuals for their excellent work in preparing for the recent joint meeting of the MSA, CPS (Canadian Phytopathological Society) and APS (American Phytopathological Society) in Québec: Co-Local Organizer **Linda Kohn**, MSA Program Chair **Tom Bruns**, APS Program Chair (now APS President) **Jan Leach**, APS Past President **John Andrews**, and CPS Past President **André Levesque**. **Betty Ford**, Meeting Director for APS, was always professional, competent, calm, and ultra-patient in dealing with the many emerging issues. I enjoyed my collaboration with you all during the year.

The MSA Foray associated with the Quebec meeting was held in the best tradition of Québec mycologist **René Pomerleau**. Collecting was at a large wooded site in Beauport, very near Québec City. Lunch and specimen display were at the nearby Domaine de Maizerets, a lovely spot that includes historic buildings and an arboretum. Thanks are due to Foray Organizers **Don Ruch** and **Gaston Laflamme** (left side of photo) who enlisted the mycologists of the CMAQ (Cercle des mycologues amateurs de Québec) for the event. I thank CMAQ President **André Jean** for his enthusiastic support, as well his colleagues, **Roland Labbé**, **Richard Demers**, **Benoit Fortin**, **Jacqueline Labrecque**, **Marc**, and **Eric**. The checklist of species found will be published in *Inoculum*.

During the past year, I was lucky to be associated with a terrific MSA Council. I am grateful to you all for always thinking about, and acting for, the greater good of the MSA and of mycology. One person deserves special thanks. **Faye Murrin**, who just completed her term as MSA Secretary, was superb in all aspects of a very complicated job. Faye was a continual source of knowledge, wisdom, and perspective upon which I relied heavily and we had fun working together. Faye will continue to serve



Gaston Laflamme with Jim Anderson at MSA Foray

the MSA in a much needed and newly defined position as Awards Coordinator. Congratulations and welcome to Cathie Aime, who is our new Secretary.

Looking forward, I am confident in the essential robustness of the MSA. To be sure, we face serious challenges. The gradual decline in MSA membership must be reversed and we must enhance our scientific diversity. As publisher of *Mycologia*, we must navigate toward a more financially secure position in a landscape that includes the open-access movement, with costs inexorably shifting from subscriptions to authors. While much more remains to be done, significant steps were taken this year in each of these areas, thanks to creative thinking on MSA Council. For more on my activities and thoughts as MSA President, please consult my final report to be published in *Inoculum*.

I now relinquish the bully pulpit (see on the right of photo) and look forward to serving the MSA in new ways. Your support during the year was appreciated.

MSA Secretary's Email Express

MSA Council approved the following four motions by email poll since my last report.

1. MSA poll 2006-5: Council approved the nomination Paul Schreiner to serve as Mycologia Associate Editor for the term 2007-2009, as nominated by Editor-in-Chief Donald Natvig
2. MSA poll 2006-6: Council approved the nomination Julia Kerrigan to serve as Mycologia Associate Editor for the term 2007-2009, as nominated by Editor-in-Chief Donald Natvig
3. MSA poll 2006-7: Council approved a motion to establish a new Mentor Travel Award in the name of Orson K Miller Jr.
4. MSA poll 2006-8: Council approved the nomination Margaret Silliker to serve as Mycologia Associate Editor for the term 2007-2009, as nominated by Editor-in-Chief Donald Natvig.

New Members: The MSA extends a warm welcome to new (or returning) members: New memberships will be formally approved by the Society at the Annual Meeting in Baton Rouge, Louisiana, August 2007.

Thailand: Sayanh Somrithipol

United States: Deborah J. Springer, Daniel A. Wubah, and Bonne Willy Pasma

Deaths: It is with sadness that I report of the death of David Brayford of CABI-Bioscience Egham, who died on the morning of 22 July 2005 in the Midlands, U.K. He is best known for his work with *Fusarium* and *Cylindrocarpon*.

Respectfully submitted, and with many thanks to all who helped make my tenure as Secretary so enjoyable.

Faye Murrin

MSA Secretary (2003-2006)
fmurrin@mun.ca



Secretary Murrin, whose term expired as of Aug. 1, is caught on camera making good her escape. ;-)

Minutes of the MSA 2006 Annual Council Meeting

**Porte St Louis, Hilton Hotel,
Quebec City
Friday, July 28, 2006**

CALL TO ORDER AND APPROVAL OF THE MINUTES

- (1) The 2006 MSA Annual Council Meeting was called to order by *President James B Anderson* at 8:30 am, Friday, July 28th, at the Porte St. Louis Room of the Hilton Hotel in Quebec City. Present were *President Anderson*, *President-Elect Gregory Mueller*, *Vice-President Don Hemmes*, *Secretary Faye Murrin*, *Treasurer Karen Snetelaar*, *Past-President David J McLaughlin* (2004-2005), *Councilors Brian Shaw, Lisa Vaillancourt, Steven Harris and Lisa Castlebury*, and invited Society members: *Mycologia Editor-in-Chief Donald Natvig*, *Mycologia Managing Editor Jeffrey Stone*, and *Webmaster and incoming Vice-President Roy Halling*. Council was joined by incoming Secretary *Cathie Aime* shortly after lunch. Apologies were received from *Past-*

President Carol Shearer (2003-2004), *Councilors Tom Volk, David Geiser, Gregory Thorn and Barbara Valent*.

Secretary Murrin distributed hard copies of the annual meeting packet that had been supplied in electronic format prior to travel to the meeting and which included the agenda, MSA Roster (2005-6), minutes of the 2005 Annual Council Meeting held in Hilo, Hawaii ([*Inoculum* 56(6)]), minutes of the Annual Midyear Executive Meeting held in Toronto, Ontario on March 4th 2006 [*Inoculum* 57(4)], annual Society reports and a copy of the Society Constitution and By-laws.

Motion 1: (approved unanimously) Moved by *Secretary Murrin* and seconded by *President Anderson* that the minutes of the MSA 2005 General Council be accepted as published in *Inoculum* 56(6) 2005.

OFFICER'S REPORTS (excluding financial matters)

- (2) *President Anderson* presented his report [*Inoculum* 57(5)]. He thanked both Executive and General Council for their help over the past year and extended his offer of help to *President-Elect Mueller* during the upcoming year. His tenure as President included acting as Local Organizer for the Annual Meeting in Quebec City; he sagely advised future Society Presidents to avoid that task if possible. He acknowledged the fairness and transparency of the APS in their efforts in organizing this joint meeting. His Blue Sky Committee identified two major issues of vital importance to the Society: membership and publishing finances. There is a solid core of members but the numbers are decreasing, particularly in the category of sustaining membership. There is a need for active recruitment and to tap into mycologists outside the MSA, in particular fungal geneticists. *President Ander-*

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MSA BUSINESS

son thanked *Editor-in-Chief Navig* for maintaining the high standards of *Mycologia* noting that the important issues of subscriptions, page charges, and the pressures that open access will put on the journal will need our attention in the near future. Lastly, he expressed the view of the need for a professional secretariat for the Society as a repository of institutional memory and for the promotion of the Society; he likened the MSA to a Rube-Goldberg machine with a great number of interconnected moving parts.

Motion 2: (approved unanimously) Moved by *President Anderson* and seconded by *President-Elect Mueller* that the Society form a new membership committee the mandate of which is to oversee all aspects of membership and in particular to increase membership in the Society. Please refer to the President's report [*Inoculum* 57(5)] for further details.

Action Item: *President-Elect Mueller* will put this committee together as he takes over the leadership of the Society, and should consider, along with the Committee Chair, the impact of this new Membership Committee on the present Sustaining Membership Committee.

Action Item: Society Secretary will include this change to the Society By-laws in an upcoming ballot.

- (3) **President-Elect Mueller** presented his report [*Inoculum* 57(5)] which included an update on his activities, along with *Local Organizer Meredith Blackwell*, on the 2007 Annual Meeting in Baton Rouge, Louisiana. He emphasized the importance of ensuring that the meeting be attractive to Latin American and South American colleagues. *President-Elect Mueller* has been active in filling the 30 or so positions on the Society Committee Roster for 2006-2007. *Kathie Hodge* will take over from *Roy Halling* as Webmaster, and *Jinx Campbell* will be Editor of *Inoculum* when *Richard Baird* steps aside in January. The one major post still not filled is that of Endowment Chair, which is being vacated by *Tom Harrington*, who has done an exceptional job during his tenure.
- (4) **The Report of Vice-President Don Hemmes** [*Inoculum* 57(5)] included the results of the Annual Ballot and a report on the progress identifying a meeting location for the next free year. He thanked the Nominations Committee, chaired by *Tim Baroni* and reported the results of the voting (with 234 votes cast of which only eight were paper ballots). Elected for 2006-2007 were *Roy Halling*, *Vice-President*; *Cathie Aime*, *Secretary*; *Nicholas Money*, *Councilor for Cell Biology/Physiology*; *Marc Cubeta*, *Councilor for Ecology/Pathology*; *Corby Kistler*, *Councilor for Genetics/Molecular*

Biology; *Sharon Cantrell*, *Councilor for Systematics/Evolution*. Terms start at the end of the Business Meeting on August 1st. *Vice-President Hemmes* next presented a letter from *Gary Laursen* and *Lee Taylor* of the University of Alaska, Fairbanks, outlining their generous offer to host the 2010 (or 2011) Annual Meeting of the Mycological Society of America in Fairbanks and to act as local organizers. After some discussion Council agreed that the offer would be more appropriate for 2011, since IMC9 will be held in Edinburgh, Scotland in 2010 and a more readily accessible site might be preferable for MSA in that year.

Motion 3: (approved unanimously) Moved by *Vice-President Hemmes* and seconded by *President Anderson* that Council accept the kind offer from *Gary Laursen* and *Lee Taylor* of the University of Alaska to host the 2011 MSA Annual Meeting in Fairbanks.

- (5) **Secretary Murrin** referred to her midyear report [*Inoculum* 57(4)] and annual report [*Inoculum* 57(5)] summarizing Council activities over the past year.

Motion 4: (approved unanimously) Moved by *Secretary Murrin* and seconded by *Treasurer Snetselaar* that the Society appoint an Awards Coordinator to coordinate the efforts of the MSA Awards committees. This should be a 3 to 5 year term, and should be reviewed after the first year to determine if the position should be made a permanent one.

Background: The Society now has five regular rotating awards committees, plus one *ad hoc* committee, which administer numerous awards each year. Complexities of guidelines, deadlines, and reporting beg for some continuity and coordination in their administration and this has been done by the Secretary. The position of Awards Coordinator need not be an onerous one but would facilitate details of awards administration and communications between the awards committee chairs and the Secretary, Treasurer, Endowment Chair and *Inoculum* Editor. It will also allow the Secretary to focus more on matters pertaining directly to Council. It is not the role of the Coordinator to take on the responsibilities of the awards committee chairs. The out-going Secretary will take on this role for the first year and develop guidelines for the position.

FINANCIAL REPORTS

- (6) **Treasurer Snetselaar's** report [*Inoculum* 57(5)] was an interim one since the year-end of July 31st has not yet been reached. She started by summarizing last year's financial status, noting again the difficulty in interpreting the bottom line at present because only four of the six issues of *Mycologia* were included; she noted that Allen

Press will soon be moving to monthly billing and that the Society might move to the accrual system of accounting which should alleviate this problem. For the past year the Society is in a break-even situation with two or three issues of *Mycologia* remaining; this year has been somewhat challenging because of the large number of pages published as the journal dealt with a backlog of manuscripts. In addition, despite the fine efforts of *Don Hemmes* who raised what may be a record amount of money for the 2005 meeting in Hilo, the MSA covered some \$4500 in expenses not covered by registration fees, in addition to the symposium support of \$3300. While the overall financial situation of the MSA is good, it would be better if the Society had a larger operating reserve; it is currently less than 25% of the annual operating expenses.

Action Item: The Secretary will ensure that that the expenses for the Council Meeting, Committee Reception and other additional expenses regularly covered by the Society are noted in the MOP so that they are taken into consideration when planning the annual meeting, as requested *Treasurer Snetselaar*.

Action Item: Council should ensure that the business membership website be updated so that 1) the student-member option of having *Mycologia* on-line only be clearly presented as the first option on the website, 2) new members are directed to the site clearly without having to log in and 3) duplication of membership information on the Society website and the Allen website is avoided by linking from the Society website directly to the Business website.

Action Item: *Webmaster Halling* requested that in future the webmaster be invited to Council meetings as a non-voting member so that s/he is up to date on pertinent issues.

Treasurer Snetselaar addressed the **Endowment Report as submitted by Chair, Tom Harrington** [*Inoculum* 57(5)] praising the Chair's efforts on behalf of the Society in raising funds and, in particular, in acknowledging donors.

Motion 5: (approved unanimously) Moved by *Treasurer Snetselaar* and seconded by Past-President *McLaughlin*, that the Society change the Endowment section in the Society By-laws (Article IX, section E) to better describe the differences between the Restricted and General Endowment funds as follows.

Proposed language (Article IX, section E) (deletions stricken, additions underlined and bold):

The Endowment Fund shall be comprised of the Restricted Endowment and the

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General Unrestricted Endowment. The Restricted Endowment is a **permanently** restricted account maintained for the purpose of providing earned investment income to support specific activities of the society, **for purposes designated when the fund was established.** ~~† memorial lectures, graduate student fellowships, senior research awards, and student travel awards.~~ Subfunds included within the Restricted Endowment are the Alexopoulos Prize Fund, the Alexander H. and Helen V. Smith Award Fund, the Martin-Baker Research Award Fund, the Myron P. Backus Award Fund, the Karling Lecture Fund, **and** the named Mentor Travel Award funds ~~and others, as established.~~ **As required by law, the principal of each of these funds must be maintained by the MSA in perpetuity, and the income can be used only for purposes designated when the fund was established. Establishment of new Restricted Endowment funds requires the approval of Council.** The **General Unrestricted** Endowment is ~~a restricted account with earned investment income~~ used to support ~~regular~~ activities of the society and special projects (e.g., special publications, workshops) that enhance mycology as a discipline and serve the other goals of the Society, as approved and allocated by vote of Council. **Council may vote, on an annual basis, to use income from the Unrestricted Endowment to supplement income from Restricted Endowment named funds when making annual awards. For example, council may vote to temporarily designate principal of the Unrestricted Endowment such that income is used for special purposes; such designations must be reviewed every three years.**

Background: This motion was also passed (in principle) at the midyear executive meeting in March. For a detailed rationale of this important motion please refer to the Treasurer's published report [*Inoculum* 57(5)]. Current language in the bylaws does not adequately describe the differences between the Restricted and General Endowment funds from a legal point of view and its interpretation has been the source of some confusion for past councils.

Action item: The Secretary should include this motion in a vote to the general membership as it includes a change to the Society **By-laws.**

Motion 6: (approved unanimously) Moved by *Treasurer Snetselaar* and seconded by President Mueller that **the Uncommitted Endowment Fund be used to pay symposium expenses of \$6,000 for Quebec City for this year only.**

Action item: When making awards, there should be some preamble **given on the awards** particularly as this addresses the wishes of the donors. The out-going Secretary will include this in the MOP.

Motion 7: (approved unanimously) Moved by *President Anderson* and seconded by *Treasurer Snetselaar*, **that the Society newsletter, *Inoculum*, be offered to members as on-line only as the default option. Hard copies must be requested. An exception will be made for those members who do not have internet or email access to whom hard copies will be provided. This will commence with the new editor in January 2007.**

Background: This motion was also passed in principle at the Midyear executive Meeting in Toronto. It is the intent of this motion to save some of the \$12000 cost of producing *Inoculum* through Allen Press by encouraging on-line only access to the newsletter; some of the savings will be put toward *Inoculum* production. This will also uncouple the mailing of the Journal and the Newsletter which has been the source of some problems. The present *Editor, Richard Baird* has suggested that we might ask what the cost would be for the production team that works on *Inoculum* to produce the required hard copies and to mail these to members.

Action item: The Secretary will notify *Inoculum* Editor to-be *Jinx Campbell* of the possibility of archiving the newsletter with the supplementary *Mycologia* material through High Wire Press, and that *Managing Editor Stone* should be consulted on this.

- (7) **The Finance Committee Report** was presented by *Finance Chair Stone* [*Inoculum* 57(5)]. That committee is acting conservatively right now with short term certificates and deposits in hope that interest rates will increase rather than becoming locked into long term funds with low interest rates. Chair Stone acknowledged the effective efforts of the late Dr. Orson Miller, Jr. on behalf of this committee.

PUBLICATIONS

- (8) **The Report of the Editor-in-Chief of *Mycologia*.** *Donald Natvig* was presented [*Inoculum* 57(5)]. The good news that *Mycologia* has been accepted for inclusion in MEDLINE was warmly received by Council. There was some delay in the publication schedule due to a combination of unfortunate events: Hurricane Katrina, editorial staff health problems and turnover at Allen Press; however, the publication of the Journal is now back on schedule with issue 98(4) in production. Issue 98(6), Nov Dec 2006, is dedicated to publications from the Deep Hypha Project. Discussion followed on the topics of cost-savings measures, the difficulty of having Associate Editors in certain areas, and the need for revamping aspects of the Allen track system in particular to make them more user-friendly. *Vice-President Hemmes* led Council in a huge

thanks to *Editor-in-Chief Natvig* for his efforts on behalf of the Society.

***Mycologia* Managing Editor, Jeffrey Stone** reported [*Inoculum* 57(5)] on his attendance at the seminar by Allen Press in Washington DC called "Emerging Trends" where they examined the relevance of the journal in these days of search engines and internet access. He also reported on his visit to Allen Press in Kansas. Efforts are continuing to bring *Mycologia* closer to sustainability through on-going discussions with Allen Press and between the Managing Editor and *Treasurer Snetselaar*. The impact factor of *Mycologia* has increased from 1.4 to 1.5 which should be further positively influenced by the inclusion of the journal in MEDLINE and with the up-coming Deep Hypha issue. Allen Press has reimbursed the \$16,000 which we had been over-charged. In an effort to have subscription income cover all publication expenses, there will be an increase in subscription prices of 15% per year for the next three years. Following the last 6 years which saw an overall increase of 33%, *Mycologia* is still five times cheaper than *Mycological Research* which produces the same number of pages annually. In future when shipping journals overseas, Allen Air expedited air mail will be replaced with regular surface mail; this should be more acceptable than it would have been in the past now that there is immediate on-line access to the journal. It was noted that the **on-line activation of institutional subscriptions** remains slow and that librarians need to be contacted individually to activate the account which needs to be done just once. Such on-line activation would lead to journals being read on-line, with subsequent listing with e journals and impact factor increase. Payment of page charges has improved to about 50% which is better than previous years. The possibility of **changing paper quality** was discussed in detail. While some financial savings would be seen, Council decided not to proceed at this time as *Mycologia* has an excellent reputation for high fidelity image reproduction not found in many other journals but that this issue might be revisited at a later date. Discussion emphasized the importance of advertising the excellent quality of the journal, including image reproduction. Incoming *Councilor Harris* suggested that we need a poster to advertise *Mycologia* that can be transported to other conferences, such as the Gordon Conference on Fungal Genetics, with free copies to distribute; this topic has arisen in previous meetings as well.

Action item: *Editor-in-Chief Natvig* will add information on the ANSI standard for archiving to the inside cover of *Mycologia*.

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MSA BUSINESS

Action item: *Managing Editor Stone* will procure samples for future comparison using the same image reproduced on the various types of paper under consideration.

Motion 8: (approved) Moved by *President Anderson* and seconded by *Treasurer Snetselaar* that *Mycologia* page charges be mandatory for non-members; members are expected to pay page charges if they have grant or institutional support but may request a waiver if they do not have that support.

Motion 9: (approved unanimously) Moved by *Managing Editor Stone* and seconded by *President Anderson* that a one to two year complimentary subscription to *Mycologia* be given to the Oregon State University Library in thanks for supplying the back issues of *Mycologia* used by JSTOR for scanning and archiving.

Motion 10: (approved unanimously) Moved by *President-Elect Mueller* and seconded by *Past-President McLaughlin* that the Society participate in an international effort to make mycological literature available via the web to mycologists in developing countries by allowing the copying and posting of back issues of *Mycologia* on Cyberliber, a website developed and managed by David Minter.

Background: Over the past two years, David Minter has been developing a website providing a digital library for mycology. The idea is to make freely available on the internet scanned images of scientific works about the fungi. The hope is to remove a barrier to systematics and biodiversity research in places which do not have good paper libraries. The address of the website is <www.cybertruffle.org.uk/cyberliber>. Already there are over 60,000 scanned images of pages of mycological publications, including for example all of the sanctioning works of Fries & Persoon, all of the 19th century journals *Grevillea* and *Michelia*, 30 volumes of *Mycotaxon*, 16 volumes of *Saccardo*, all of *Zahlbruckner's* lichen catalogues, and much else besides. In addition, there is basic bibliographic data about ~60,000 mycological publications, and those records can be browsed, unlike most websites which require one to search for a specific work. The Cyberliber website is a major source of information for Paul Kirk's Index Fungorum website, and Paul and David actively co-operate to avoid duplication of effort.

Motion 11: (approved unanimously) Moved by *Managing Editor Stone* and seconded by *Councilor Shaw* that *Mycologia* content over 2 years old be available by free access on High Wire.

Action Item: *Managing Editor Stone* will also change the availability of one free issue to those free access issues on the website.

Motion 12: (approved) Moved by *Treasurer Snetselaar* and seconded by *President Anderson* that the Society participate in international efforts to make mycological literature available via the web to mycologists in developing countries by allowing access via AGORA which mainly targets agricultural journals for developing countries including Africa.

Action Item: *Treasurer Snetselaar* is to determine if a "moving wall" is necessary and to what extent.

MSA AWARDS CONSIDERATIONS

(9) The following items concerning Society awards were brought forward by Secretary Murrin.

Motion 13: (approved unanimously) Moved by *Secretary Murrin* and seconded by *President Anderson* that the guidelines for the awards of **Honorary Member and Distinguished Mycologist** be amended to reflect the following: that a) the Honorary Member be a mycologist working outside of the US or Canada who may or may not be an MSA member; b) that the Distinguished Mycologist be a mycologist working within the US or Canada who must be an MSA member and c) that no one person may ever receive both of these awards.

Motion 14: (approved unanimously) Moved by *Secretary Murrin* and seconded by *Past-President McLaughlin* that the guidelines passed last year by Council on voting procedures for the **Honorary Member Award** be modified so that the obligatory one-month discussion period is shortened to an obligatory two-week discussion period which could be extended an additional two weeks if requested by any council member.

Motion 15: (approved with two abstentions) Moved by *Secretary Murrin* and seconded by *Vice-President Hemmes* that the **International Committee** be asked if they would take on the responsibility of the administration of the **MSA International Travel Awards**.

(10) **Annual Meetings:**

(a) *President Anderson* referred Council to his Local Organizing Committee Report for the 2006 MSA/APS Quebec City Annual Meeting [*Inoculum* 57(5)].

(b) Council considered the report on preparations for MSA 2007 in Louisiana *Local Organizer Meredith Blackwell* [*Inoculum* 57(5)], and expressed their thanks to Meredith for her efficiency and dedication to this effort. *President-Elect Mueller* reported that a) he has already viewed the excellent venue for the meeting and b) that they will try to work with the international community so that this meeting will be attractive to colleagues from Central and South America.

(c) MSA 2008 will be held at Pennsylvania State University with Local Organizer David Geiser.

(d) MSA/BSA 2009 will be a joint meeting in June with the BSA in Snowbird, Utah with Brad Kropp as Local Organizer; in June.

(e) MSA 2010 is not presently filled. Councilor Vaillancourt suggested that she and Chris Schardl might consider hosting the meeting at the University of Kentucky in Lexington. [note added: A formal offer to host MSA 2010 will be put to a vote of Council soon after the meeting].

(f) MSA 2011 is set for Fairbanks, Alaska with Gary Laursen and Lee Taylor as Local Organizers. Thanks are extended to these generous folks and to *Vice-President Hemmes* for shepherd-ing this venue to its formal acceptance. For further discussion please see the *Vice-President's* report above and *Inoculum* 57(5). There was some discussion of other societies which might wish to meet with us in Fairbanks. The Phycological Society is interested in meeting with MSA but recently met in Fairbanks.

Action item: *Vice-President Hemmes* to initiate discussion on the suggestion that the Lichenological Society meet with the MSA in Fairbanks in 2011.

ANY OTHER BUSINESS

Action item: *Vice-President Hemmes* agreed to take the display box with him to Cairns for IMC8.

ADJOURNMENT

President Anderson adjourned the meeting at 2:55 pm after reminding Council of plans to rendezvous at Le Café du Monde in Quebec City's Old Town later in the evening. [Note added: and a good time was had by all ;^)].

MSA 2006 Annual Reports

OFFICERS

Report of the President

This report summarizes my activities as MSA president in the past year. For additional details on MSA activities in general, readers should refer to the current reports of Secretary Faye Murrin, Treasurer Karen Snetselaar, and Mycologia Managing Editor Jeff Stone. It was a pleasure and a privilege to serve with these individuals, who worked effectively and tirelessly for our society over the past year. I am especially indebted to Secretary Murrin for her knowledge of MSA workings, balanced perspective, and excellent sense of humor.

Based on my cumulative MSA experiences, I see two ongoing challenges for our society. First, the MSA's main expense is for printing Mycologia, the world's leading mycological journal. We all owe a debt of gratitude to Editor-in-Chief Don Natvig for his careful stewardship of the journal and for maintaining the highest editorial standards. Despite the continued vigor of Mycologia, however, institutional subscriptions are gradually declining due to market conditions unrelated to the journal itself. Another factor impacting on the financial balance is that page charges for authors have traditionally been optional. Together with the open-access movement, these conditions make our present publication model unsustainable. Second, MSA membership overall is also gradually declining. How can we expand and diversify our base of dedicated mycologists? What follows is an accounting of my activities and my thoughts on what could be done to meet these challenges.

My year as MSA president started with making appointments to the MSA Committee with open positions, 23 in all. The nearly universal willingness of MSA members to serve and contribute on committees was gratifying and speaks well for the essential health of our society. During the year, one additional position became available: the MSA representative on the AAAS Section Committee on Biological Sciences. I decided to take on that commitment myself and I look forward to representing MSA for a three-year term into 2009.

One of my main efforts throughout the year was as Local Organizer of the 2006 joint meeting of the MSA, CPS and APS in Quebec, July 29 – Aug. 2, along with fellow Local Organizing Committee member Linda Kohn. This included two trips to the Twin Cities to APS headquarters, one in March 2005 just before the mid-year Executive Council meeting hosted by then-president David McLaughlin, and another in September of 2005 to meet with the APS and CPS organizing committees, plus nearly constant correspondence all year. Complementing the activities of the local organizers, the Program Committee chaired by Tom Bruns did a superb job and the meeting is now largely set to run. For more information, readers please refer to my separate report as Chair of the Local Organizing Committee.

In early March, the mid-year MSA Executive Council meeting was held at the Glen Erin Inn in Mississauga, Ontario, with all members of Executive Council attending. After months of communicating electronically, or occasionally by phone, the personal interaction in real time was welcome and invaluable. The discussion focused on many specific issues (See minutes provided by Secretary Faye Murrin), but also on the broader challenges facing the MSA (more on these below).

Planning for future annual meetings has also progressed. We now look forward to Baton Rouge, 2007 (Local Organizer Meredith Blackwell); Pennsylvania State University, 2008 (Local Organizer Dave Geiser); Snowbird, Utah, 2009 (Local Organizer Bradley Kropp); University of Kentucky (Local Organizers Lisa Vaillancourt and Chris Schardl); and Fairbanks, Alaska, 2011 (Local Organizers Gary Laursen and Lee Taylor). Thanks are due to Vice President Don Hemmes for arranging the Fairbanks meeting. Two Societies sharing common interests with the MSA reached significant milestones this year. On behalf of the MSA, letters of congratulation were sent to the Mycological Society of Japan on reaching its 50-year anniversary and the Botanical Society of America on reaching its 100-year anniversary. In June we were saddened by the death of Orson Miller, wonderful friend, pillar of the MSA, and example to professional and amateur mycologists alike. Council acted immediately and unanimously to establish the Orson K Miller Jr. Mentor Travel Award and to solicit contributions. The MSA will not be the same without Orson. Our best wishes go out to Hope Miller, and the entire Miller family.

To help guide my thinking this year, I struck an ad-hoc "Blue Sky" Committee consisting of a distinguished group of individuals representing all areas of mycology, Dave Geiser, Steve Harris, Rick Kerrigan, Francois Lut-

zoni, Michelle Momany, Karen Snetselaar, Joey Spatafora, and John Taylor. I asked the committee to consider the MSA in totality and then to make informal recommendations on how the MSA should position itself in the coming years, with no limits on imagination. Although this involved only a few rounds of email correspondence, a remarkable consensus emerged. The MSA is essentially healthy and has its priorities right. We support students, hold excellent annual meetings, and make awards to mycologists at all stages of their careers. We produce two excellent publications, Mycologia and Inoculum. But urgent action is needed in two areas. We need to alter the financial balance of publication in order to give the MSA more resources to further mycology globally and to enhance the MSA experience. We also need to reverse the gradual decrease in membership.

Altering the financial balance of Mycologia to the benefit of the MSA is a complex proposition that must be addressed in two phases, the short term and the long term. In the short term, Treasurer Karen Snetselaar and Managing Editor Jeff Stone have taken significant steps already, some as a result of year-long discussion in Council. The total cost of producing a typical issue of 200 pages with 18 articles is about \$50,000 or \$300,000 per year, for an average cost of \$2,800 per article, which includes both printing and mailing. Included in the cost of each issue is \$12,000 for paper and shipping (Treasurer Karen Snetselaar, personal communication). The funds to pay for publication come from membership dues, institutional subscriptions, and page charges. Institutional subscription rates are substantially lower than the market norm and, therefore, as in recent years, will continue to be increased, but not in increments large enough to discourage institutions from subscribing. For Mycologia issue 97, paid page charges amounted to \$35,249, while unpaid charges accounted for \$45,714 (Managing Editor Jeff Stone, personal communication). Although payment of page charges is optional, we also believe that most authors, especially those with grant support, should pay page charges for their articles in Mycologia; the wording on the page charge payment form now reflects this. With the Open-Access movement, publication costs everywhere are shifting from subscriptions to the authors. This pressure will increasingly affect Mycologia and cannot be ignored. For the longer term, we need a select group of members, which should include the Managing Editor, to thoroughly analyze the MSA's position with respect to publishing.

On membership, we must redouble our efforts as both Sustaining and regular memberships have decreased. Most scientific societies have membership committees. I believe that the MSA needs to erect an all-encompassing Membership Committee, charged with managing both regular and Sustaining memberships. This new committee would replace the current Sustaining Members Committee and would be charged with keeping membership levels healthy. The new committee should have latitude to offer incentives to potential members to sign up. To increase membership, the new committee would also make a concerted effort to raise annual MSA meetings to higher priority for the thousands of de-facto mycologists worldwide who do not belong to the MSA. For example, involving the large and active fungal genetics community in annual meetings would help enormously. Continued geographic collaborations on annual meetings, like our joint meeting with the MSJ in Hilo last summer, will also help.

Lastly, the activities of the MSA have grown ever more complex and are now straining the capacities of busy volunteers. I believe that the MSA will need a professional secretariat to manage and coordinate its activities over the long term. The new professional secretariat would not be a replacement for the current MSA Secretary, but rather offer administrative assistance in all aspects of MSA activity, with institutional memory. Careful research would need to be done on how to set up such a secretariat and how to pay for it. The British Mycological Society has already taken this step.

For enjoyable and productive interactions over the past year, I thank MSA Council and all committee members. I also congratulate President-Elect Greg Mueller and look forward to assisting him as MSA President.

Respectfully submitted,



James B. Anderson

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MSA BUSINESS

Report of the President-Elect

The President-Elect was primarily active in two areas this past year, planning for next year's MSA meeting in Baton Rouge and appointing members to several key MSA Roster positions. Planning for the Baton Rouge meeting is coming along well due to Meredith Blackwell's fine work as Local Arrangements Point Person. Discussions have also begun with the Program Committee and International Committee to find ways to encourage participation in the meeting by Latin American colleagues. Among the key positions that have been filled include replacing the MSA Webmaster, Roy Halling, and *Inoculum* Editor, Richard Baird. Both of them have provided outstanding service to the society and deserve our special thanks for jobs well done. Kathie Hodge takes over as Webmaster this fall and Jinx Campbell will take over *Inoculum* when Rich's term ends at the end of the year.

Respectfully submitted,
Gregory Mueller

Report of the Vice-President

Thanks go to Tim Baroni and members of the nominating committee for providing an outstanding slate of candidates for the offices of MSA for the coming year. Thanks also go to the candidates themselves for offering to have their names placed on the ballot. For those who did not come out on top this year, thanks for your gracious offers to serve MSA in any way you can and we hope to see your names on the ballot in the future.

The following new officers were elected for 2006-2007 and will start their terms after this year's business meeting in Quebec City: Roy Halling, Vice-President; Cathie Aime, Secretary; Nicholas Money, Councilor for Cell Biology/Physiology; Marc Cubeta, Councilor for Ecology/Pathology; Corby Kistler, Councilor for Genetics/Molecular Biology; Sharon Cantrell, Councilor for Systematics/Evolution. Two hundred thirty four votes were cast. Only eight of these were written ballots.

Gary Laursen and Lee Taylor at the University of Alaska Fairbanks have enthusiastically offered to host the 2010 Annual Meetings of the Mycological Society of America in Fairbanks and act as local organizers. The university and surrounding hotels can house a group the size of the MSA membership and the proximity of Fairbanks to Denali National Park and other natural areas will provide spectacular opportunities for forays and educational tours. The selection of Fairbanks for the 2010 Annual Meetings awaits the approval of the Council in Quebec City.

Respectfully submitted,
Don Hemmes

Secretary's Annual Report July 15 2006

The Secretary's Midyear report, published in *Inoculum* 57(4) summarized my activities on behalf of the Society during the first half of the year. Unless otherwise stated, the following report refers to activities since that time and these include:

- Assisted President Anderson in organizing the **midyear Executive Council meeting** in Mississauga (Toronto) Ontario which was held on March 2nd. Minutes of that meeting were sent to Executive Council, *Mycologia* Editor-in-Chief, Donald Natvig, and Managing Editor Jeffrey Stone for review prior to publication in *Inoculum* 57 (4). The midyear reports of Society committees and representatives were also sent for publication in that issue.
- Moderated Full Council and Executive **Council email correspondence** including seven polls, which were summarized in *Inoculum*, along with several items of discussion. Council approved the nomination of the **2006 Karling Lecturer, Franz Oberwinkler**, as proposed by the Karling Lecture Committee, chaired by Michelle Momany; the nominations of **Scott Kroken, Paul Schreiner and Julia Kerrigan as Mycologia Associate Editors** for the term 2006-2009, as nominated by Editor-in-Chief Donald Natvig; the nomination of **Michael Wingfield for the award of Honorary Member 2006** as put forward by the MSA Honorary Awards Committee, chaired by John Taylor; the following mycologists for **the award of Honorary Fellow** as put forward by the Honorary Awards Committee, chaired by John Taylor: **Tim Baroni, Roy Halling, Martha Powell and Kerry O'Donnell**; and approved the establishment of a new **Mentor Travel Award in the name of Orson K Miller Jr.**
- Coordinated the call for **applications and nominations for society officers and awards**, including their publication in *Inoculum* and notification of members by blast email. Coordinated the committee requests for the making of award plaques to the most conscientious Bob Gilbertson.

tion of members by blast email. Coordinated the committee requests for the making of award plaques to the most conscientious Bob Gilbertson.

- With President Anderson, acted on the committee judging the **International Travel Awards** applications which resulted in the following successful applicants: Andrew B. Munkacsí, Cécile Gueidan, Kentaro Hosaka, Mikhail Sogonov, Maria Alice Neves, Matthew Keirle, Sara Branco, Todd Osmundson, Terri McLenon. These young mycologists (post-doctoral fellows and graduate students) will be awarded a total of \$4000 in support of travel to IMC8 in Australia.
- Assisted Vice-President Hemmes with the **Spring ballot**, for the election of new officers (see his report).
- Issued a call to all Society Officers, Councillors, committee chairs and Society representatives for Annual reports, agenda items and MOP revisions in preparation for the **Annual Council meeting in Quebec City, Quebec, July 28th**. Worked with President Anderson to complete the Annual Meeting Agenda. Compiled all reports, along with the agenda, updated Society Roster, updated Constitution and By-Laws, Minutes of the previous midyear and annual meetings and updated MOP into the Council package for distribution electronically prior to the meeting. Printed copies were prepared for the Council Meeting.
- Issued an invitation to all Society volunteers including all Committee members, Editorial and Society Representatives, to the Reception for Committees to be held on August 1st in Quebec City.
- Collected submissions for MOP revisions and, with President-Elect **Gregory Mueller**, revised the MOP as of July 15th 2006. The MOP was edited significantly through input from Committees and this long-suffering Secretary.
- Assisted President Anderson in preparing the agenda for the **Annual Business Meeting** to be held on August 1st in Quebec City. Prepared lists of 57 new members and 4 members requesting Emeritus Status for membership approval. Four applications for emeritus membership were received: Esther **McLaughlin** Minneapolis, MN; Florence H. **Nishida**, Los Angeles, CA; Paul D. **Olexia**, Kalamazoo, MI; James P. **White**, St. Bonaventure, NY.
- Received with sadness reports of the deaths of the following MSA members over the past year: Henry Aldrich, *MSA Past-President (1984-85)*, David Brayford, William (Bill) Cibula, John Krug, Keisuke Tubaki and Orson K Miller, Jr., *MSA Past-President (2000-2001)*.
- Prepared two **Email Express columns** for publication in *Inoculum*. Columns included names of new members and emeritus candidates as supplied monthly by Kay Rose of Allen Marketing and Management, and summaries of Council activities.
- Over the past year monitored and approved, with the President, the sending of eight **blast emails** to Society members through Kay Rose at Allen Marketing and Management. They included the following: 1) MSA Call for Council Nominations, 2) MSA Awards Announcements – Call for nominations and applications (October and January), 3) MSA Travel Awards to IMC8: Announcement/ Call for Applications, 4) MSA/APS/CPS 2006 Quebec City – Call for Symposia Proposals, 5) MSA Annual Meeting: Abstract Deadline for MSA/APS/CPS meeting; 6) MSA Annual Meeting Update: Registration early deadline, 6) MSA Election of Officers 2006 – call for vote; 7) MSA Mentor Travel Award in Honor of Orson K Miller, Jr.
- Responded to routine and not-so routine email correspondence on a wide variety of issues.

It has been a pleasure and honour to serve on MSA Council as Secretary of the Society for the past three years. My personal thanks are extended to members of all three councils headed by the most wonderful and eclectic trio of leaders: Carol Shearer, David J McLaughlin and James B Anderson, and to all those of you who took the time to serve the Society either officially (on our not-insignificant number of committees!) or behind the scenes. My humblest thanks go to all for their enthusiasm, commitment and enduring sense of humour.

Respectfully submitted,
Faye Murrin, Secretary

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Treasurer's report 2006 – Interim report

General financial situation

The bottom line for fiscal 2005 showed a net profit of \$71,552. However, this included payment for only four of six issues of *Mycologia*. In addition, much of this "profit" was due to us adding more to the endowment than we spent in awards from endowment income. Likewise, the balance sheet showing an increase in total assets from \$512,730 for 31 July 2004 to \$584,783 for 31 July 2005 is due in large part to fluctuations in annual expenses that we see because we are on a cash rather than accrual system. Fiscal 2006 is not yet finished out, but it looks like the bottom line will be near break-even, with six or possibly seven issues of *Mycologia* paid for. Again, however, note that we still "owe" our members and subscribers one or two more issues. There are some challenges for us to consider. (Details were given on a separate handout).

Meeting finances

We have moved from a few years where we made money on meetings to a couple years of losing money on meetings. While registration and most expenses were handled by the conference center in Hilo, MSA spent about \$4500 on additional general meeting expenses not covered by the conference center. In addition \$3300 was spent in symposium support (waivers and speaker reimbursement. An additional \$1500 donation from Monsanto was used to support other symposium speakers. There were additional donations to support the meeting (including \$1000 from an anonymous MSA member and donations from Merck and Novozymes) that went to the convention center in Hilo. Don Hemmes also did a fantastic job of fundraising, but I do not have details on this because the funds went directly into the conference center budget. With respect to the bulk of the meeting expenses, which were all handled by the conference center, we broke even.

Council has voted to spend \$6000 on symposia for the 2006 meeting (additional support in the form of registration waivers is supplied by APS for this meeting and will not appear in our budget.) The only other expenses not covered by meeting registration as part of the APS arrangements are: reception for committee members, and expenses for the council meeting. There may be additional costs in terms of discounted memberships offered as part of registration. In all, it is likely that this meeting will cost MSA about as much as Hilo did.

Publication finances:

The bottom line for publishing does not look too bad, but this is only because we are somewhat behind; for fiscal 2005, we paid for only four issues of *Mycologia*; six are published each year. So far we have been billed for six for this year, so we are still two issues behind and 2006-2007 will present some financial challenges as we get caught up. In 2005 some 200 pages more than usual were published, as a backlog of manuscripts was reduced. In addition there was extensive use of color in these issues, very little of which was paid for by authors. The extra expenses incurred in publishing these additional pages created a short-term problem for the *Mycologia* budget, wherein too much of the subscription income that should have been on hand to pay for the 2006 issues had to go toward the 2005 issues. The EIC and ME have worked hard to deal with these issues, and subsequent issues with fewer pages and more judicious use of color have dealt with much of this shortfall.

However, other increased publication costs are creating long term challenges. We are exceeding budgeted amounts for some aspects of publishing the journal at a time when subscription income is not increasing. Some steps have been taken to reduce expenses (e.g. reduced shipping costs, dropping the indexing), but in order to keep the journal competitive in today's online world and in order to keep the quality high, income must also increase. The Managing Editor will provide more history and details, but from the Treasurer's point of view, substantial subscription increases are necessary.

Membership

As Figure 1 shows, in 2005 both institutional and membership numbers were down slightly. For 2006, we see quite a drop, both in membership and subscriptions numbers. The year is not over yet, but based on previous years, we would not expect to see more than single digit increases before years end. Kay Rose at Allen Press has indicated that when journals run late (as *Mycologia* has) it is not uncommon to see temporary drops in subscriptions that may catch up as the journal gets back on track. This would not however explain the membership decrease.

Figure 2 shows income and is based on fiscal years, not calendar years, so when people pay late or early it is confusing; also note that total membership includes quite a few that are free (emeritus and so on) and the number varies from year to year. Part of the puzzling upturn for membership income this year might be an increase in sustaining members this year, a great thing!

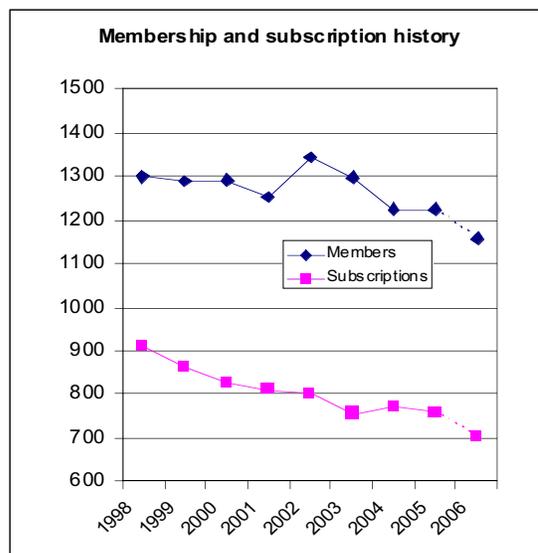


Figure 1

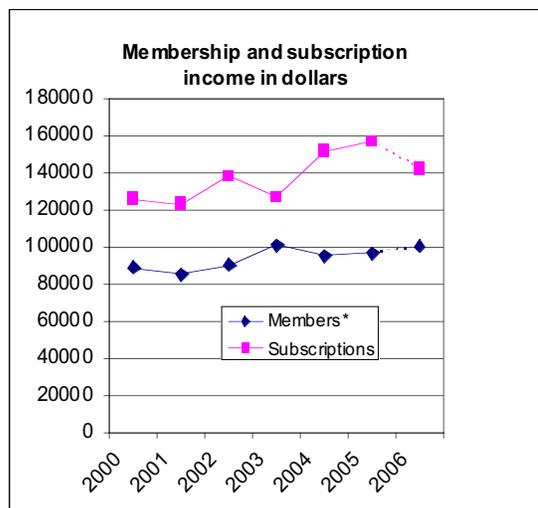


Figure 2

Endowment finances:

See report from Tom for details on the various funds.

Proposed changes to the Endowment section in the bylaws:

Current language in the bylaws does not adequately describe the differences between the Restricted and General endowment funds. Legally, the named funds are considered to be **Permanently Restricted** net assets because the donors have imposed restrictions on these funds such that the principal must be maintained by the society and cannot be used. Only the income generated by these funds can ever be used, and it must be used only for the specific purpose for which the fund was established. This cannot be changed except if the donor(s) agree to the changes. These types of funds should only

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MSA BUSINESS

be established after careful consideration because of how they restrict the Society with respect to their use. It is wise to clarify the bylaws to make it clear how these funds are to be established—by vote of Council.

What we call the General Endowment has to be considered part of the **Unrestricted** net assets for accounting purposes. Thus, we should change the confusing language in the bylaws in order to meet generally accepted accounting guidelines. In addition, it has been past practice that portions of the General Endowment have been restricted by Council such that the income from these portions was intended to be used for a specific purpose. Subsequent Councils have undone these restrictions. The current bylaws are unclear as to whether these restrictions (formally known as “board-designated restrictions”) are permissible in our organization. We should clarify this to avoid confusion and waste of time in the future. In addition, past Councils have supplemented principle of some of the named funds (Permanently Restricted funds) with money from the General Endowment. This should never be done. Instead, if we want to allow Council to establish temporary “board-restricted funds” we should establish guidelines for doing this, as the proposed changes do. These funds must remain part of the General (Uncommitted) endowment for accounting purposes although we can easily separate and track them in our accounting system.

Original language (Article IX, section E)

Receipts from membership dues shall be used exclusively for the stated purposes of the Society and serve as the primary source of revenues for operational costs. The Endowment Fund shall be comprised of the Restricted Endowment and the General Endowment. The Restricted Endowment is a restricted account maintained for the purpose of providing earned investment income to support specific activities of the society: memorial lectures, graduate student fellowships, senior research awards, and student travel awards. Subfunds included within the restricted endowment include the Alexopoulos Prize Fund, the Alexander H. and Helen V. Smith Award Fund, the Martin-Baker Research Award Fund, the Myron P. Backus Award Fund, the Karling Lecture Fund, the named Mentor Travel Award funds and others, as established. The General Endowment is a restricted account with earned investment income used to support regular activities of the society and special projects (e.g., special publications, workshops) that enhance mycology as a discipline and serve the other goals of the Society, as approved and allocated by vote of Council.

Proposed language (deletions stricken, additions underlined and bold):

The Endowment ~~Fund~~ shall be comprised of the Restricted Endowment and the ~~General Uncommitted~~ Endowment. The Restricted Endowment is a **permanently** restricted account maintained for the purpose of providing earned investment income to support specific activities of the society, **as designated by those making donations to these funds.** ~~—memorial lectures, graduate student fellowships, senior research awards, and student travel awards.~~ Subfunds included within the ~~Restricted~~ Endowment are the Alexopoulos Prize Fund, the Alexander H. and Helen V. Smith Award Fund, the Martin-Baker Research Award Fund, the Myron P. Backus Award Fund, the Karling Lecture Fund, **and** the named Mentor Travel Award funds ~~and others, as established.~~ **As required by law, the principal of each of these funds must be maintained by the MSA in perpetuity, and the income can be used only for purposes designated by the donors to the funds. Establishment of new Restricted Endowment funds requires the approval of Council.** The ~~General Uncommitted~~ Endowment is a ~~restricted account with earned investment income~~ used to support ~~regular~~ activities of the society and special projects (e.g., special publications, workshops) that enhance mycology as a discipline and serve the other goals of the Society, as approved and allocated by vote of Council. **Council may vote, on an annual basis, to use income from the Uncommitted Endowment to supplement income from Restricted Endowment named funds when making annual awards. Council may vote to temporarily restrict principal of the Uncommitted Endowment such that income is used for special purposes; such restrictions must be reviewed every three years.**

Report of *Mycologia* Editor-in-Chief

Mycologia accepted for Medline and PubMed listings. In June 2005 we submitted an application to the National Institutes of Health to have *Mycologia* articles included in the Medline database and available in PubMed searches. We were notified in the fall that *Mycologia* will now be indexed in Medline. Please let your colleagues know that *Mycologia* is better than ever as an outlet for biomedical fungal research.

Hurricane and snafu strike *Mycologia* production schedule. When Assistant Editor John Donahue fled New Orleans in front of Hurricane Katrina, he assumed he would return in a few days. The computer at his home contained files for many copy-edited *Mycologia* manuscripts for the September–October 2005 (97/5) issue. He was unable to return home for five weeks, delaying the transfer of files to Allen Press. This delay was compounded by changes in staff at Allen Press. The account manager assigned to *Mycologia* changed twice in the last two months of 2005. *Mycologia* manuscripts sent to production were overlooked at Allen Press for nearly a month as a result of miscommunications.

We are back on schedule. The July–August issue (98.4) is in production, and the September–October issue (98.5) is being edited as is the Deep Hypha issue (98.6). Ten papers have been accepted thus far for 98.5 and two for 98.6.

Journal workload. During fiscal 2006 we received 211 manuscripts. A total of 105 were accepted and 60 rejected. A total of 119 manuscripts are pending. Although the number of submissions continues to be high, the number of manuscripts per issue has dropped as a result of our having caught up with respect to backlog. *Mycologia* 98.3 contains 18 papers including one memorial, 98.4 contains 17 papers, 98.5 will contain an estimated 15–17 papers and 98.6 (Deep Hypha) will contain an estimated 22 papers.

Goals. We continue to be unhappy with the average time from submission to decision, which is too long, and we are determined to shorten that time substantially. We also are working to reduce unnecessary production costs by eliminating nonessential color and enforcing existing page limits.

Submitted by Don Natvig

***Mycologia* Managing Editor**

Unfortunately, publication of *Mycologia* has been behind its regular schedule for the past year. This has been due to a remarkably unlucky series of mishaps, and the editorial office has been working diligently to try to get back on the rails. Hurricane Katrina and its aftermath had the greatest impact on delaying the journal, as a number of edited manuscripts were stored on a computer at the previous editorial office at Tulane University and were not accessible for several weeks. Issue 5 of Volume 97 was published March 7, 2006, and Issue 6 on May 3, both about five months late. Issue one of Volume 98 was published June 8, 2006. Issue 2 is in production, and Issue 3 is in proof, with publication anticipated in early August. *Mycologia* should be back to its normal publishing schedule by Issue four of Volume 98. The final issue of Volume 98 will be a special issue on phylogenetics, dedicated to papers from the Deep Hypha project, and is being prepared by Meredith Blackwell and Joey Spatafora.

The number of pages published in *Mycologia* has been increasing over the past few years. Volume 94 (2002) had 1088 pages, Volume 95 was 1278 pages, Volume 96 1430 pages, and Volume 97 (2005) was 1381 pages. Larger volumes entail increased costs in all phases of publication, but subscription income has been declining, forcing us to look for ways to reduce costs and increase income. Beginning with Volume 97, *Mycologia* will no longer publish a comprehensive index in last issue. It was decided that the ready availability of computer search engines online makes the author, subject and taxon indices published in the final issue of each volume unnecessary. Omitting the index will save the cost of professional indexing services, in addition to pages printed.

A substantial increase in subscription price is needed to bring *Mycologia* into sustainability. Subscription prices for *Mycologia* have increased about 33% in the past six years (\$160/172 for Vol. 93 to \$213/230 for Vol. 98). Yet *Mycologia* is very moderately priced for its ranking. *Mycologia*'s 2005 impact factor (based on 2004 citations) was 1.433, ranked sixth among mycology journals. Compared to *Mycological Research*, for example, ranked seventh by impact factor (1.130), which published 1493 pages in 2004 (*Mycologia* published 1430), *Mycologia* had 3169 total citations in 2004, as compiled in the Thomson Scientific Journal Citation Reports, versus 2857 for *Mycological Research*. The only mycology journal with more citations in 2004 than *Mycologia* was *Yeast*, with 4206. *Fungal Genetics and Biology*, the top ranked journal based on impact factor (3.051), had 1596 cites. The subscription price of *Mycological Research* in 2005 was \$1276 (print and online), or 5.5 times the international subscription price of *Mycologia*. A subscription to *Mycotaxon* (2004 impact factor 0.450), which published 1044 pages in 2004 and had 1006 citations, was \$330. Taking into account that the subscription price of *Mycologia* includes online access via

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HighWire Press, and a print version that uses the highest quality paper stock available, *Mycologia* is obviously underpriced. The subscription price of *Mycologia* will increase by 15% per year for Volumes 99 – 101 (to \$325/350). Although an increase in subscription price may trigger some library cancellations, increases are needed to offset our publishing costs.

Last year Council authorized an increase in page charges from \$60 to \$75 per printed page. Authors are still given the option of paying or not paying page charges. *Mycologia* does not make payment of page charges a condition for acceptance of papers. However it should be clarified that authors are expected to pay page charges for reporting research (not invited reviews, Presidential, or Karling lectures) that was supported by grants or conducted during the course of regular employment. Waivers of page charges will no longer be allowed for non MSA members. Income from page charges has been increasing in recent years and is a significant component of the publishing budget. For Volume 97 and Issue one of Volume 98, \$40,689 was paid in page charges for 76 papers (673 pages); 73 papers (840 pages) did not pay page charges.

Some additional measures to reduce costs are being considered. *Mycologia* currently uses AllenAir, the priority airmail service of Allen Press, for delivery of the journal outside the USA. However, since the journal content is available online, rapid distribution of the journal is no longer as important. Using a less expensive but slower shipping plan would save several thousand dollars per year.

Costs associated with publishing color figures in *Mycologia* have increased sharply over the past few years and we are working to bring them under control. There has been an almost imperceptible shift of computer software to create figures in color by default. If these are not manually converted to greyscale by authors, they can be unintentionally published in color, even when the color is not necessary for information content. Since color printing is very expensive we have been working to alert authors and Associate Editors to the need to identify unnecessary color figures. Costs of remaking color figures in greyscale is also costly, so these changes need to be made by authors before the proof stage. We have been working with Allen Press to ensure that color figures are approved for publication **only** if authors agree to pay the color publication fee (\$800/color plate) or request the fee waiver under the MSA policy of providing one free color illustration per year to MSA members AND color is used to convey essential information in the figure.

As reported last year, *Mycologia* was selected for inclusion in the new JSTOR life sciences collection. JSTOR is a nonprofit organization, funded by grants mainly from the Mellon Foundation, that scans, digitizes, and electronically archives many scholarly journals in a broad range of disciplines. *Mycologia* was identified as an important journal in the botanical and biological sciences. JSTOR will scan all back issues of *Mycologia* beginning with the Journal of Mycology (1885) and Ohio Mycological Bulletin (1903) up to a "moving wall" of three years previous to the current issue. The scanned text will be fully searchable and contain all original content. MSA will retain all intellectual property rights to the publication. The license agreement with JSTOR is nonexclusive, so it will not conflict with having online content with both HighWire Press and JSTOR. The JSTOR archive is accessible through many major institutional libraries and *Mycologia* content will also be accessible to MSA members via the JSTOR website. JSTOR shares a portion of its revenue from member fees based on the total pages of the journal.

JSTOR reports that it anticipates the scanning of *Mycologia* back issues to be complete and ready for release in early 2007. MSA did not have a full collection of *Mycologia* back issues to provide to JSTOR for scanning. The library of Oregon State University did have a complete collection and were willing to make the loan to JSTOR. We thank Oregon State University Valley Library for its cooperation.

The copyright transfer form was changed with some assistance from Allen Press. The new form is longer than the old form and includes exceptions for work that is owned by an employer, either private sector or government agency, and it stipulates rights retained by the author or granted back to the author, including: use of the published work for scholarly or research purposes, lectures, presentations, etc; right to republish, with citation, in future work; right to post electronic version on personal or university website. Most importantly, the new copyright form includes an indemnity clause to protect the MSA, its officers, directors, and partners from liability for an author's misrepresentation, libel, academic misconduct, copyright infringement, or other action that may result in legal actions resulting from a publication.

Respectfully submitted,
Jeff Stone, *Mycologia* Managing Editor

MSA STANDING COMMITTEES

Education Committee Report

The education committee attempted to schedule a symposium on teaching for the Quebec meeting, and had APS committee approval for their co-sponsorship, but was not approved by the MSA symposium committee.

Respectfully submitted
Tom Volk, Chair

Webmaster's Report 2006

There continues to be activity in the "Jobs"/"Employment" listing portion of the MSA website. This is a good sign that employers in both academic and private sectors, look to MSA as a source for potential employees. I would like to express my sincere appreciation to the Membership and Council, particularly F. Murrin, for timely updates to the MSA website and to the *Mycologia* site at High Wire. I am indebted to K. Snetselaar for maintenance of the domain name and payments for the MSA to the firm that hosts the site.

Rich Baird has continued to send electronic *Inoculum* files for posting in a most timely fashion. My thanks to Rich.

Maintenance and uploading of files has remained seamless and transparent despite some unforeseen down time during late summer 2005.

The webmaster has continued to be responsible for maintenance of certain files that appear on the High Wire Press hosted website as part of the electronic version of *Mycologia*. High Wire has instituted a new file management system that makes maintenance of those files easier.

As in past years, inquiries were forwarded to members of Council or editors of *Mycologia/Inoculum* who could supply more appropriate responses.

Updated and revised files for the Québec meeting were sent by T. Bruns. Again, D. Geiser supplied timely links for electronic Abstract submissions.

In this last report as Webmaster, I would like to thank all those people who have provided content and helpful suggestions. Specifically, I am indebted to F. Murrin for constructive suggestions for a more straightforward presentation of the MSA Award information. I hope my interpretation and manipulations of such input has resulted in an informative and easy to use site. Thank you for the opportunity to serve the MSA.

Respectfully submitted,
Roy E. Halling, New York Botanical Garden

Endowment Committee 2006 Report

We had another record-breaking year for individual donations, totaling \$19,004 from 108 donors since 1 August 2005. Our success was due in part to the creation of the new Orson Miller Mentor Travel Fund, which garnered \$6257 in its first month of existence. However, even without this new fund, we beat last year's impressive mark of individual donations by \$560.

Auction/t-shirt proceeds from the 2005 Hawaii meeting totaled \$7038. Thanks to committee member Don Hemmes for hosting the meeting and coordinating the very successful auction. Auction proceeds were split with the Mycological Society of Japan based on member attendance at the meeting. The cumulative contributions to the mentor (named) award funds and the general (uncommitted) fund are as follows, with the contributions recorded from 1 August 2005 through 31 July 2006 in parentheses:

Constantine J. Alexopoulos Travel Fund	\$8880	(+935)
Alma Whiffen Barksdale/ John P. Raper Travel Fund	\$4387	(+125)
Howard E. Bigelow Travel Fund	\$8663	(+625)
Margaret Barr Bigelow Travel Fund	\$8763	(+725)
Edward E. Butler Travel Fund	\$7282	(+505)
William C. Denison Travel Fund	\$9934	(+650)
Harry Morton Fitzpatrick Travel Fund	\$6593	(+1550)
Melvin S. Fuller Travel Fund	\$2996	(+125)
Richard P. Korf Travel Fund	\$5175	(+352)
Everett S. Luttrell Travel Fund	\$8154	(+752)
Orson K. Miller Travel Fund	\$6257	(+6257)
Harry D. Theirs Travel Fund	\$5250	(+357)
James M. Trappe Travel Fund	\$4836	(+860)
Francis A. (Bud) Uecker Travel Fund	\$4020	(+50)
Kenneth Wells Travel Fund	\$3600	(+100)
Total Mentor Travel Funds	\$94,790	(+13,968)

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MSA BUSINESS

Constantine J. Alexopoulos Prize Fund	\$17,084	(+210)
Myron P. Backus Award Fund	\$21,898	(+765)
George W. Martin-Gladys E. Baker Research Fund	\$48,423	(+2227)
Clark T. Rogerson Fund	\$22,526	(+700)
Alexander H. & Helen V. Smith Fund	\$25,359	(+0)
John S. Karling Annual Lecture Fund	\$10,050	(+0)
Undergraduate Research Award	\$325	(+0)
Total Mentor Research Funds	\$145,665	(+3902)
Uncommitted Endowment	\$188,219	(+8172, \$1134 in individual donations)
Total Endowment	\$428,674	(+26,042)

Endowed funds are invested, and the income generated is used to make awards. Each year we award at least 5% of the investment from each mentor fund in the name of the mentor.

Our goal is to have at least \$10,000 in each of the mentor student travel funds so that an award of \$500 in the name of the mentor can be made to a graduate student to attend the annual meeting. Each year we total the cumulative contributions to the mentor travel funds and make awards from the estimated income from those funds (5%). The travel awards are given in the names of the mentors, and the mentor names are rotated based on the amount in the respective funds.

Because of the added travel expense to Hawaii, we distributed \$13,900 in travel funds in 2005. This included estimated income of \$4040 from the mentor travel funds and \$9860 in income from the uncommitted endowment. In addition to the travel grants funded by the MSA Endowment, the Deep Hypha group (NSF 0090301, Research Coordination Network: A Phylogeny for Kingdom Fungi to M. Blackwell, J.W. Spatafora and J.W. Taylor) awarded travel grants to the Deep Hypha and MSA meetings at Hilo. Forty students and postdocs each received \$900 to supplement the cost of airfare and other expenses, totaling \$36,000 from the Deep Hypha group.

The current composition of the Endowment Committee is Thomas Harrington (Chair, term ending in 2006), Meredith Blackwell (term ending in 2006), Don Hemmes, and Fred Spiegel, with Treasurer Karen Snetselaer as an *ex-officio* member.

Respectfully submitted,
Thomas Harrington, Chair

Finance Committee Annual Report 2006

The MSA fiscal year ends July 31, and because the following report was prepared for distribution before the annual meeting, it does not contain final year-end amounts. The total value of the MSA investment portfolio as of July 7, 2006 was \$568,914, compared to \$537,674 one year ago. This includes \$141,146 in the Operating account and \$427,768 in the Endowment account. One year ago, the value of the Operating account was \$111,661 and the Endowment account \$426,012.

It continues to be a challenge to sustain investment income sufficient to sustain MSA Endowment supported awards at their current levels. For many years the MSA relied on a conservative investment approach with a bond ladder of five-year US Treasury notes, yielding 5-8%. Because of the much lower yield of Treasury notes in recent years, the Finance Committee has been reinvesting the returned principal from mature notes in high quality mutual funds and CDs to maximize investment income. Our strategy has been to invest in relatively short term CDs in anticipation of more favorable interest rates within 12 months.

The MSA portfolio currently comprises \$48,986 in cash and money market, or about 8.6%, \$300,000 (face value) or about 52.8%, in fixed income securities, and \$219,928, or about 38.6%, in mutual funds. Investments in mutual funds are distributed as \$47,056 (21%) in Capital Income Builder, which pays a 4.29% dividend, \$101,242 (46%) in Income Fund of America, which pays a 3.86% dividend, and \$71,630 (33%) in Fundamental Investors, which pays a dividend of 1.59%. Certificates of Deposit acquired during the past year from reinvestment of mature Treasury notes are: Capitol One Bank, \$45,000, 3.96% due 8/31/06; Westernbank, \$25,000, 4.81% due 2/22/07; Westernbank \$20,000, 5.15% due 5/18/07; Acacia bank \$25,000, 4.22% due 7/26/05; Bancorp bank, \$25,000, 4.45%, due 7/28/06; and Bank Hapoalim, \$25,000, 4.8% due 12/21/06.

We acknowledge with much gratitude the years of dedication and service that Orson K. Miller, Jr. gave to this committee. As an active member and as chair of the committee, Orson was very influential in guiding and modernizing the investment policy of the MSA. He worked patiently and persistently to maintain the best possible performance of MSA investment income for society awards and programs. We thank him for his many years of sound counsel and mourn his passing.

Respectfully submitted,
Jeffrey Stone, Chair
Finance Committee members: Lorelei Norvell, Orson K. Miller, Jr., David Geiser, Karen Snetselaer

MSA ROTATING COMMITTEES: AWARDS

Honorary Awards Committee Report

Council approved the following nominations for 2005-2006:

Honorary Member: Michael Wingfield

Honorary Fellows: Tim Baroni, Roy Halling, Martha Powell and Kerry O'Donnell

Respectfully submitted,
John Taylor, Chair

MSA Distinctions Committee Report

The winners of the MSA Distinctions Awards for 2006 are:

Wendy A. Untereiner, the C.J. Alexopoulos Prize

Harvey C. Hoch, the Distinguished Mycologist Award

Meredith Blackwell, the W.H. Weston Award for Teaching Excellence

Respectfully submitted,
Scott Redhead, Chair

Annual Report of the Research Award Committee 2006

The Research Award Committee made the following recommendations for awards:

Forest Fungal Ecology Research Award (\$1,000). **Paul Trusty** (M.A. candidate, Department of Plant Sciences and Plant Pathology, Montana State University).

Paul will use a variety of methods to characterize the ectomycorrhizal community associated with whitebark pine in burned and unburned habitats and the suite of fungi found on seedlings raised in nurseries and outplanted in burned areas. His results will be of interest to mycologists and a wide range of biologists and resource managers concerned about this important ecosystem.

Clark T. Rogerson Student Research Award (\$1,000). **Matthew Keirle** (Ph.D. candidate, Committee on Evolutionary Biology, University of Chicago).

Matthew is studying the microevolutionary processes that lead to species formation in macrofungi through the exhaustive examination of a narrowly endemic, saprotrophic species (*Rhodocollybia laulaha*) which is distributed across a geographically subdivided set of nested island populations in the Hawaiian Archipelago. He will use the award to assist with travel to field sites in the Hawaiian Islands where he will collect specimens for his dissertation research.

Alexander H. and Helen V. Smith Research Fund (\$1,200). **Matthew E. Smith** (at time of application, Ph.D. candidate, Department of Plant Pathology, University of California, Davis).

Matthew will examine collections of *Genea* and *Genabea*, and related genera (hypogeous ectomycorrhizal Pyronemataceae) at The University of Michigan Fungal Herbarium. As part of his Ph.D. research he is clarifying relationships within Western North American taxa of *Genea* and *Genabea* using both morphological and molecular techniques.

Martin-Baker Endowment Endowment Fund (\$2,200). **Dr. Elizabeth M. Frieders** (Associate Professor, Biology Department, University of Wisconsin-Platteville).

This award will allow Dr. Frieders, a specialist in the Urediniomycetes, to characterize and describe a novel fungus found by Dr. George Carroll and thought to be a member of the Atractiellales. Her objectives are 1) to determine whether or not it is a new genus through additional molecular analyses, and 2) to characterize the culture and fruitbody through light and electron microscopic studies.

Nancy S. Weber, Research Award Committee Chair

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Student Awards Committee Report

Annual report from the Student Awards Committee covering the committee's activities in 2006 up to the joint meeting of APS/CPS/MSA in Quebec City.

Committee members are Lori Carris (Chair), Jinx Campbell, Cathie Aime, Jean-Marc Moncalvo. The application deadline for MSA Graduate Fellowships was February 15, 2006. A total of ten applications was received and reviewed by the committee. The committee came up with a preliminary selection of fellowship and award recipients, and a question about eligibility of one of the top applicants for the NAMA fellowship delayed the notification of awardees until April 12. Unsuccessful applicants were contacted by the committee chair and encouraged to reapply next year. The MSA President and Treasurer were notified of the committee's recommendation on April 13. The 2006 MSA Graduate Fellowships (\$2000 each) were awarded to Cecile Gueidan (Duke University, advisor Francois Lutzoni) and Huzefa Raja (University of Illinois at Urbana-Champaign, advisor Carol Shearer). The Backus Award (\$1000) went to Suzanne Joneson (Duke University, advisor Francois Lutzoni), and the Memorial NAMA Fellowship (\$2000) was awarded to Bryn Dentinger (University of Minnesota, advisor David McLaughlin). The committee chair has prepared brief biographical summaries of the four awardees to be used during the awards ceremony and to be sent to the Inoculum Editor for publication in the post-meeting newsletter.

The Award Committee is now preparing for judging student oral and poster presentations at the upcoming meeting in Quebec City. According to the list provided by Tom Bruns, Program Chair, there will be 28 oral presentations and 31 poster presentations in the student paper competition.

Several suggested changes are presented by the Award Committee for the Manual of Operations and the MSA Graduate Fellowship description currently posted on the MSA website. In the Manual, it states that the Student Fellowship award announcements are to be made during the annual Business Meeting and that the Chair of the Awards Committee is to make sure that the award recipients have been provided with Business Meeting tickets so that they can attend. As these award announcements are now being made at the MSA Social and Auction, along with the Student Presentation awards, this change should be noted in the Manual. In the description of the Graduate Fellowship awards posted on the MSA website, under "Requirements for eligibility", #4 states "The NAMA Fellowship comes with the stipulation that the awardee prepare an article for McIlvaine. Previous recipients of these fellowships are not eligible to apply". The statement regarding eligibility needs to be clarified; is this in reference ONLY to the NAMA Fellowship, e.g., previous recipients of the NAMA Fellowship are not eligible to apply for the current year's NAMA Fellowship, and are recipients of the other fellowships eligible to apply for the NAMA Fellowship (or any of the other fellowships)?

Mentor Travel Awards Committee

The following awards were made this year: Alexopoulos Award, Tami MacDonald; Howard Bigelow Award: Jo Ann Crouch; Margaret Barr Bigelow Award, Luis Mejia; Denison Award, Suzanne Joneson, Fitzpatrick Award, Nikki Charlton; Korf Award, Jon Palmer; Luttrell Award, Cécile Gueidan and the Theirs Award, Matthew Keirle.

Andrea Gargas, Chair

International Travel Awards Committee Report

The following applicants were awarded awards from by the Committee: Andrew B. Munkacs, Cécile Gueidan, Kentaro Hosaka, Mikhail Sogonov, Maria Alice Neves, Matthew Keirle, Sara Branco, Todd Osmundson, and Terri McLenon. These young mycologists (post-doctoral fellows and graduate students) will be awarded a total of \$4000 in support of travel to IMC8 in Australia.

Respectfully submitted,
Faye Murrin and James B Anderson

MSA ROTATING COMMITTEES: GENERAL SERVICE

Karling Annual Lecture Committee Report

The Committee recommended that Karl Oberwinkler be invited to give the Karling Lecture in Quebec City. This was approved by Council and Dr. Oberwinkler accepted the invitation.

A suggestion for the MOP: It seems that the Karling committee often has a breakdown on actually issuing the invitation. The Chair may issue the invitation but does not have details on the meeting. Given that this is such a high profile lecture and that there is much nail biting until the speaker is lined up, I suggest that the *invitation be issued by the MSA president as soon as*

council approves the choice. If 1st choice doesn't accept MSA President could automatically go to 2nd. So the committee's job would be coming up with a ranked list, but MSA President would take it from there.

Respectfully submitted,
Michelle Momany, Chair

SPECIAL MSA APPOINTMENTS

Report of the Historian and Memorials Committee

The Historian has responded to several inquires for information particularly in regard to early years of the Society and relationships between MSA and the Botanical Society of America.

Several memorials have been promised and/or delivered: Jorge Wright (Matias Cafaro) scheduled for publication, William Denison (George Carroll), Henry Aldrich (to be assigned), Orson Miller (Cathy Cripps), Donald P. Rogers (Carol Shear and Lee Crane).

Respectfully submitted,
Donald H. Pfister

MSA Public Policy Officers' Report

The Public Policy Committee has had little activity this year other than to monitor the AIBS site materials (www.aibs.org/publicpolicy/funding_contributors.html). The additional funding for AIBS is well worth the expense when one considers the services performed in areas such as advancing the teaching of evolution, countering intelligent design proposals, and generally promoting governmental funding for science.

George C. Carroll
Meredith Blackwell, Chairperson

MSA 2006 Quebec Local Organizing Committee Report

Preparations for the MSA Annual Meeting with the American Phytopathological Society (APS) and the Canadian Pathological Society (CPS) in Québec City, July 29 – Aug. 2, 2006 are now complete. During the year we worked with Meeting Manager Paula Trenda, and Director of Meetings Betty Ford at APS. One of us (Anderson) made two trips to APS headquarters, one in March 2005 just before the mid-year Executive Council meeting hosted by then-president David McLaughlin, and another in September of 2005 to meet with the APS and CPS organizing committees. The overall schedule is as follows. MSA Council will meet on Friday, July 28, the day before the official opening of the meeting. The Foray, organized by Don Ruch, will be on Saturday. The Opening Plenary Session on Sunday will feature three lectures of broad scope, each arranged by a participating society. Jeff Townsend (University of Connecticut) is the MSA invitee. The Presidential Address will be on Monday morning. On Tuesday morning, The MSA Business Breakfast will be followed by the Karling Lecture, to be given by Franz Oberwinkler. The Program Committee, chaired by Tom Bruns, arranged for four excellent MSA symposium sessions: Fungal Movement: Contemporary Experimental Analysis, Bacterial Symbionts of Fungi, Diversity of Zoospore Fungi, and Population and Species Divergence; each session includes international participation from a diversity of research fields. A total of \$6,000 was approved by Council to help support participation by non-members of the MSA. As usual, the MSA will have numerous contributed paper sessions, plus posters. David Geiser (Pennsylvania State University) kindly set up the abstract submission web site for all MSA sessions with a deadline for submission of March 30 (abstract submissions for CPS and APS sessions are separate and are offered for a charge). The Social and Auction will be held on Tuesday evening in a venue adjacent to similar, but separate, activities for APS and CPS members, who may well opt to participate in our auction as the evening progresses. Housing at Université Laval will be available with transportation to and from the meeting.

Our financial arrangement with APS is that the MSA will not share in either the potential profits or losses from the meeting. The expenses of the three invited Plenary Session speakers will come from the registration proceeds, as will complementary registration for all non-member symposium speakers. Events special to the MSA, for example the Committee Reception and the Council meeting, will be billed to the MSA. The Foray and MSA breakfast will be offered as options with a charge on the registration form. As of June 1, there were 124 confirmed registrations; this number does not include joint members of APS and MSA and additional registrations are expected.

Respectfully submitted,
James B. Anderson and Linda M. Kohn

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MSA BUSINESS

MSA 2007 Louisiana Local Organizing Committee

VISIT THE MEETING WEBSITE under development at
lsb380.plbio.lsu.edu/MSA%202007.html

Or follow the link from the Meetings page on the MSA Website
www.msafungi.org

Plans are going well. There are numerous points needing discussion with the local arrangements and program committee people including dates of the party for Committees, the registration fee, the possibility of catered lunches every and the Business meeting and breakfast place, menu, and date.

Meeting dates: MSA –5 August through 9 August 2007

ANNUAL COUNCIL MEETING: Saturday 4 August 2007 –LSB 28 (for 25 with Union catering for breakfast and box lunches; water all day.

FORAY: Sunday 5 August 2007 (David and Pat Lewis and GCMS will help; Facilities for working on specimens and culturing in the Life Sciences Building (LSB 136 and the entomology lab next door). Busses still to be arranged.

REGISTRATION: Sunday 5 August, noon–Tuesday 7 August, noon–Life Science Building Annex lobby. There can be ad hoc entertainment in the adjacent auditorium (slide shows of fungi in the area, the campus, etc.)

PRESENTATION PRACTICE: Almost all classrooms are outfitted with computers and LCD projectors. Wireless Internet is available in and around the Life Sciences Building and the LSU Union as well as a number of other localities. You must have a password and Meredith Blackwell is the contact. The process takes only a few minutes, and can be done ahead of arrival, but it is only good for one week, so don't do it too early. Lod Cook does not have wireless Internet access, but East Campus Apartments do.

PARTY FOR COMMITTEES: 4 or 6 August at Meredith's house with 40-50 attending; substantial finger foods, wine and beer.

HOUSING: Arrivals –3 August – 9 August –all depart by 10 August; First arrivals 3 August (Night before Council Meeting) 15 rooms Lod Cook (LC)10 rooms East Campus Apartments (ECA); 4 Aug Sat (Night before Foray) 50 rooms LC 50 rooms ECA; 5 Aug Sun through 9 Aug Thur (Regular sessions) 110 rooms at Lod Cook 250 ECA; 9 Thur Need fewer rooms? Unless we have the auction this evening. All checkout by 10 Fri August

Lod Cook \$93 and \$113; ECA \$37.00 per night per person. If linens are needed, add \$5.00 per night per person. Contacts: Julie Boyd 383-2665 (Lod Cook) and Tiffany Metters 8-7185 (East Campus Apartments).

CLASSROOMS FOR SESSIONS: 6-9 August –coffee breaks with coffee and cookies at Williams Hall –one in morning around 10:30, one in afternoon around 3:00; 6-9 August –box lunch option for lunch on session days; 4 upstairs (75-100) and one downstairs in Williams (300).

It is still too early to book the session rooms. Contact Pat Yancy 8-2090 pyance1@lsu.edu Classrooms. Email sent early April 2006.

BUSINESS MEETING AND BREAKFAST: with lectern, microphone, place for laptop to be plugged in, head table for 8; American Breakfast \$6.30 per person; Classic Breakfast \$5.50 per person; All Served and breakfast buffets require a minimum of 25 people or additional fees may be incurred. Setup includes linens, napkins, plates, utensils and cleanup. Applicable tax, delivery fee and gratuity are not included; or Faculty Club #1 \$8.25 per person or #4 \$7.75 per person or \$8.00 per person.

AUCTION AND SOCIAL: 9 Aug? Faculty Club; need microphone, tables for goods; heavy finger foods, wine and beer (cash bar?).

Contacts Union Catering: [app1003.lsu.edu/cas/lsudining.nsf/\\$Collection-Menu/Catering?OpenDocument](http://app1003.lsu.edu/cas/lsudining.nsf/$Collection-Menu/Catering?OpenDocument) –Donna or Ramsey 8-6656.

Meredith Blackwell

Minutes of the MSA 2006 Annual Business Meeting

Tuesday, August 1, Room 200B, QCC, Quebec City

- (1) The meeting was called to order at 7:20am in the Quebec City Convention Centre by *President James Anderson*. *President Anderson* introduced the Society Officers at present and graciously thanked Council for their hard work during the year. He then called for the **approval of the minutes** of the 2005 MSA Business Meeting held in Hilo Hawaii [Inoculum 57(5) below]. The minutes were approved by the membership.
- (2) *Vice-President Don Hemmes* reported on the results of the **election of officers** for 2006. The following new officers were elected for 2006-2007 and will start their terms after this year's business meeting in Quebec City: **Roy Halling**, Vice-President; **Cathie Aime**, Secretary; **Nicholas Money**, Councilor for Cell Biology/Physiology; **Marc Cubeta**, Councilor for Ecology/Pathology; **Corby Kistler**, Councilor for Genetics/Molecular Biology; **Sharon Cantrell**, Councilor for Systematics/Evolution. *Vice-President Hemmes* thanked all those who stood for election and gratefully acknowledged their continued willingness to serve the Society.
- (3) Secretary *Faye Murrin* referred to her reports at midyear and year-end [Inoculum 57(4) and (5)] and briefly reviewed to some the highlights of the Annual Council Meeting [Inoculum 57(5)]. Highlights included motions on the formation of anew all-encompassing **Membership Committee**, a new position of **Awards Coordinator**, a new **mentor travel award named in honor of Orson K Miller Jr**, proposed changes to help clarify Article IX Section E of the Society By-laws dealing with **Endowment Funds** (which will be sent to the general membership for voting), efforts to make Mycologia more accessible to developing countries and Council's thanks to Editor-in-Chief *Donald Natvig* and his team for their successful bid to have **Mycologia listed in Medline and PubMed**. Secretary *Murrin* gratefully acknowledged the camaraderie and hard work of members of the three councils with whom she has worked, and in particular, that of the three presidents with whom she served: *Carol Shearer*, *David McLaughlin* and *Jim Anderson*.
- (4) Secretary *Murrin* presented the names of four Emeritus candidates for approval by the membership: **Esther McLaughlin** Minneapolis, MN;
- Florence H. Nishida**, Los Angeles, CA; **Paul D. Olexia**, Kalamazoo, MI; and **James P. White**, St. Bonaventure, NY. The motion to approve these new Emeritus members was passed by a vote of the membership. Secretary *Murrin* next presented fifty-seven new members for approval, the motion for which was also approved by a vote of the membership.
- (5) Treasurer *Karen Snetselaar* presented the highlights of the Treasurer's interim report [Inoculum 57(5)].
- (6) **Awards Presentations** (*please see Inoculum 57(5) for a full details of awards presentations*)
 - (a) President *Anderson* recognized those members in attendance who had served MSA Presidents and those who had previously received the following awards: Distinguished Mycologist, Weston Award for Excellence in Teaching, Alexopoulos Awards, and MSA Fellows.
 - (b) **The 2005-2006 MSA Distinctions** were announced by *President Anderson* for *Chair of Distinctions Committee, Scott Redhead*. This year's award winners are: for the *Distinguished Mycologist Award*, **Harvey C Hoch**; for the *Weston Award for Excellence in Teaching*, **Meredith Blackwell** and for the *Alexopoulos Prize* **Wendy A Untereiner**. Each of the award winners were on hand to receive their awards and spoke briefly of their appreciation to the Society.
 - (c) The 2005-2006 MSA Fellow Awards were announced by *President Anderson* for *Chair of Honorary Committee, John Taylor*. The four recipients of the awards are **Tim Baroni**, **Roy Halling**, **Martha Powell** and **Kerry O'Donnell**. Drs Halling and Powell were in attendance to receive the awards and high praise.
 - (d) On behalf of the Chair of Honorary Awards Committee, *John Taylor*, *President Anderson* presented the name of the 2005-2005 Honorary Member to the membership for approval. The motion, moved by Linda Kohn and seconded by Meredith Blackwell, to

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approve **Michael Wingfield** as **Honorary Member** was enthusiastically approved.

- (e) President-Elect **Gregory Mueller** presented **Certificates of Appreciation** to four Society Members in recognition of exceptional service: **Richard Baird**, who will be stepping down as Inoculum Editor in January; **Roy Halling**, out-going MSA Webmaster, **Faye Murrin** who finishes up her term as Secretary at this meeting, and 2005-2006 MSA **President James B Anderson**.
- (7) *President Anderson* called on the Local Organizers of the next two annual meetings who gave brief updates and enthusiastic invitations to

their universities: **Meredith Blackwell** who will host the 2007 meeting in Baton Rouge and **David Geiser** for Pennsylvania State University in 2008.

- (8) *President Anderson* then introduced the new President of the Mycological Society of America for 2006 – 2007, **Gregory Mueller**, who thanked everyone for attending and adjourned the meeting at approximately 8:20am with a smart tap of the Presidential Gavel.

Respectfully submitted,
Faye Murrin, Secretary

Minutes of the MSA 2005 Annual Business Meeting

Wednesday, August 3, University of Hawaii at Hilo

- (1) The 2005 Annual Business Meeting was called to order by *President David J McLaughlin* who introduced MSA Officers and meeting organizers, in particular thanking Local Organizer *Don Hemmes* for his hard work, along with *Maren Klich*, Chair of Committee for Liaison with the Mycological Society of Japan and *Jean Lodge*, Program Chair. *President McLaughlin* then presented the highlights from the President's Report [published in *Inoculum* 56(5)].
- (2) The membership approved the minutes of the 2004 Asheville MSA Business Meeting held in Asheville, North Carolina as published in *Inoculum* 55(6).
- (3) The results of the 2005 Election & By-law amendment vote were announced by *Vice-President Gregory Mueller*. The new 2005-2006 Officers are *Vice-President Don Hemmes* and Councilors *Steven D Harris*, Cell Biology/Physiology, *Lisa Castlebury*, Ecology/Pathology, *Barbara Valent*, Genetics/ Molecular Biology and *Greg Thorn*, Systematics/Evolution. The By-law change to Article IX (D) which replaced the term "audit" with "review" was approved by the membership and now reads:
- "ARTICLE IX (D), FINANCES...
(D) Prior to each annual meeting the Treasurer shall prepare a summary of the Society's financial status. At the conclusion of the Treasurer's term, normally every three years, the Treasurer will commission a professional financial review. This review shall include all financial activities of the society, including the publication of the official journal, endowment funds, and operating budget. The Treasurer's report shall be read at the annual business meeting and published in the Society's newsletter."
- (4) *Secretary Faye Murrin* summarized her report for 2005 and presented the highlights of the Minutes of the 2005 Hilo Annual Council meeting [published in *Inoculum* 56(6)]. The following candidates were then approved for Emeritus Membership: *John Krug*, Toronto, Canada; *J. H. B. Garner*, Durham NC; *Ruth L. Harold*, Edmonds WA; *James W. Hendrix*, Stamping Ground KY, *Liang H. Huang*, East Lyme CT and *Yves Renaud*, Nancy, France. The membership also approved the list of new members provided.
- (5) The Treasurer's Report was presented by *Treasurer Karen Snetselaar* who thanked colleagues for their help throughout the year and reported that Society finances were in good shape. With thanks to Endowment Chair, *Tom Harrington*, she noted that this year \$11,000 went into named funds and 9,000 to the general endowment. Membership

levels appear to have stabilized after some fluctuation with 742 subscribers and 1212 individual members. She also noted the need for a balance between size and cost of *Mycologia* and the difficulty in determining final meeting costs.

- (6) Awards Presentations (for more details please see *Inoculum* 56(5&6))
- (a) *President McLaughlin* recognized attending members who were earlier MSA Presidents or who were previous Society Awards recipients. *Rob Samson*, who was awarded the title of MSA Honorary Member last year, was attending and spoke briefly of his 35 years at CBS with *von Arx* and *Walter Gams* as teachers and the strong ties with the Society.
- (b) The membership approved *Franz Oberwinkler* of Tübingen Germany, as this year's Honorary Member as presented by *George Carroll*, Chair of the Honorary Awards Committee. *Dr. Oberwinkler* has worked on a wide range of fungi, publishing over 200 papers using molecular and more traditional methods, has graduated 43 graduate students, and is one of the most prominent and influential mycologists of the last 40 years.
- (c) *George Carroll*, Chair of the Honorary Awards Committee announced the recipients of the MSA Fellow Awards for 2005: *Dennis Desjardin*, *Lorelei Norvell* and *John Taylor*.
- (d) *Ronald Petersen* Chair, MSA Distinctions Committee announced the recipients of the Distinguished Mycologist Award: *Walter Gams* and *Charles Mimms* and of the Alexopoulos Prize, *Francois Lutzoni*. *Dr. Gams*, spoke briefly of the honor he felt in receiving this award and on his on-going and future work. (The Weston Award for Excellence in Teaching was not awarded this year.)
- (7) Final Business announcements included an invitation from *Kevin Hyde* to attend IMC8 in Cairns Australia, 20-25th of August 2006; that meeting will include an impressive program as well as yellow sandy beaches, mangrove walk ways and rainforests. *President McLaughlin* reminded members of the dates and locations of future MSA meetings: 2006 with APS/CPS in Quebec City - July 29 – August 2nd; 2007 in Baton Rouge Louisiana - (July 15-19 or 22-26); 2008 in State College, Pennsylvania – August 10th -13th; 2009 with BSA in Snowbird, Utah (dates to be announced).
- (8) *President McLaughlin* then passed the gavel over to the new MSA President for 2005-2006, *James B Anderson*, who adjourned the meeting.

MYCOLOGICAL NEWS

Orson Knapp Miller, Jr., Obituary

(McCALL, Idaho) — Orson Knapp Miller Jr., 75, of McCall, Idaho, passed away Friday, June 9, 2006.

Orson was born Dec. 19, 1930, in Cambridge, Mass. He graduated in forestry from the University of Massachusetts in 1948, earned a master's in forestry in 1957 and a Ph.D. in botany (mycology) in 1963 from the University of Michigan.

After enlisting in the Army in 1952, he began his professional career with the U.S. Forest Service as a research botanist studying fungi of the United States. He returned to his love of teaching at Virginia Tech in Blacksburg, Va., in 1970. One of his greatest joys was seeing his 32 graduate students achieve successes in teaching and industry worldwide.

Orson is noted for his research around the world. He described more than 100 species of fungi new to science, wrote more than 150 research papers, wrote eight books and conducted ecological research in Asia, the Greater Antilles, Belize, the Arctic, Europe and Australia as well as North America.

He was engaged in biodiversity studies in Belize and the Great Smoky Mountains National Park at the time of his death. As a result of his travels and studies, he has made more than 28,000 collections of fungi. Each collection includes a dried specimen, color photographs, a detailed description and in some cases cultures, all located under one collection number. These are located in major herbaria of the world with most of them in the United States.

He taught for 14 summers at the University of Montana Biological Station on Flathead Lake.

Orson and Hope completed a book just before his death for Falcon Press titled "North American Mushrooms: A Field Guide to Edible and Inedible Fungi."

Orson was a fellow of the American Association for the Advancement of Science and past president of the Mycological Society of



Orson Knapp Miller, Jr.
(Photo courtesy of Michael Beug)

America. He received from MSA the William Weston Award for Teaching Excellence in 1989 and Distinguished Mycologist Award in 1997, the Thomas Jefferson Medal for Outstanding Contributions to Natural Science from the Virginia Natural History Museum and the North American Mycological Association Award for Contributions to Amateur Mycology in 1981. At the time of his death he was a professor emeritus of botany at Virginia Tech.

Orson is survived by his wife, Hope; his daughters, Andrea Onken (Todd), Annelise Mayer (Ken) and Ginny Miller (Tad Kolwicz); and five grandchildren, Erin Bromm, Cory Mayer, Lindsay Mayer, Logan Onken and Brook Vetter.

A private family service will be held later this summer.

The family suggests memorials to be given to the Mycological Society of America Endowment Fund in the name of Orson K. Miller Jr. This will be for graduate student travel. Please send to Dr. Thomas Harrington, MSA Endowment Chair, Department of Plant Pathology, Iowa State University, Ames IA 50011.

from Hope Miller

MSA Council established new Mentor Travel Award in honor of Orson K. Miller, Jr.

As some of you may have heard, Orson Miller passed away on June 9. Orson was MSA Past-President (2000-2001) and one of our best known and best loved members. More information is in the obituary prepared by his wife Hope, whom many of us know. An MSA Mentor Travel Award has been set up in Orson's name, and Hope has asked that, in lieu of flowers, donations be made to this fund through the MSA Endowment Committee. Donations should be sent to MSA Endowment Fund (c/o Thomas Harrington), Department of Plant Pathology, Iowa State University, Ames, IA 50011). Please make checks payable to "MSA Endowment Fund in memory of O.K. Miller, Jr."

Respectfully,
Faye Murrin, MSA Secretary

MYCOLOGICAL NEWS

2006 Distinguished Mycologist Award Winner: Harvey Hoch

Awarded annually to an individual who has established an outstanding mycological career. This is one of the highest awards bestowed by the MSA and marks a distinguished career. Nominees for the award are evaluated on the basis of quality, originality, and quantity of their published research, and on the basis of service to the MSA or to the field of mycology in general.

Dr. Harvey Hoch, Professor of Plant Pathology at Cornell University, this year's MSA Distinguished Mycologist, obtained his B.Sc. and M.Sc. from Colorado State University, and Ph.D. in Plant Pathology & Soils from the University of Wisconsin. After completing two Post-doctoral fellowships at the Universities of Wisconsin and Georgia, he settled in to rapidly become a Research Associate, Assistant-, then Associate-, then full Professor at Cornell University, N.Y. State Agricultural Station in Geneva. Harvey is one of the most highly regarded individuals working on the ultrastructure and cell biology of fungi. He has a very astute predilection for developing new techniques as well as recognizing valuable techniques in other fields and applying them in an entirely different arena. He has championed the use of high resolution microscopy, particularly the use of freeze-substitution to reveal the true ultrastructural nature of the fungal cytoplasm. Some of his best and most original work was done in an effort to understand how fungi can sense and use leaf surface topology as markers to guide them in the successful penetration of the plant tissues. Noteworthy are his articles on temporal and spatial dynamics of appressorium formation in *Uromyces appendiculatus* and his analysis of signalling during infection structure formation in fungi. He devoted a major effort to disclose the relationship of the microtubule cytoskeleton to the thigmotropic signal needed for appressorium formation and to elucidate fine details in the development of infection struc-



Hoch

tures. His lab's work on thigmotropism in *Uromyces* embodies all the attributes of a modern classic having garnered the interest and fascination of mycologists and non-mycologists from a very broad spectrum of research. His publications in such high profile journals such as *Science* have exposed the amazing activities of fungi to a tremendous number of scientists outside of the discipline of mycology. As stated by two of his admirers "He is truly a 'world-class' researcher as well as an outstanding speaker who has given invited presentations at meetings and universities all over the world" and "Dr. Hoch's CV is aglow with not just one of the requisite hallmarks of a Distinguished Mycologist, but all

of them – quality, originality and quantity of published research, and service to both MSA and the field of mycology in general."

Since 1972, Dr. Hoch has published more than 100 peer reviewed papers and chapters in scientific journals and books. In 1994 he received the Ruth Allen Award from the American Phytopathological Society, and was Elected Fellow of that society in 2002. He has supervised numerous students and PDF's and an international cadre of visiting scientists through the years and served many professional societies and journals, which includes terms as Associate Editorships for *Phytopathology* and the *Canadian Journal of Microbiology*, a member of the editorial board for *Mycologia*, a panel member on the NSF, Cell Biology program, MSA and APS representative to the Biological Stain Commission, councillor on Cell Biology/Physiology for MSA, Chair of the MSA Committee on Phytopathology, and various other committees on plant protection, diseases, nanotechnology, root infections, collections and germplasms, etc. It is a pleasure for the Society to be able to award its Distinguished Mycologist award in 2006.

MYCOLOGICAL NEWS

C.J. Alexopoulos Prize Winner: Wendy A. Untereiner

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

Dr. Wendy A. Untereiner, currently an Associate Professor of Botany and Tier II Canada Research Chair in Resource Management and the Environment at Brandon University, Manitoba, is this year's Alexopoulos Prize winner. Wendy obtained her B.Sc. in Botany & Zoology at Brandon, followed by her M.Sc. and Ph.D. at the University of Toronto under David Malloch and Neil Straus, specializing in the black yeasts and Herpotrichiellaceae. During her graduate years she spent several months working with Dr. Sybren de Hoog at the Centraalbureau voor Schimmelcultures in The Netherlands where she not only forged strong connections with European mycologists but also became a leading authority on black yeasts. She was awarded an A.W. Mellon Postdoctoral Scholarship in Plant Systematics served with Rytas Vilgalys at Duke University, and then became Curator and Senior Research Mycologist at the Culture Collection at the Université Catholique de Louvain (MUCL) in Belgium focussing her attention on the onygenalean fungi. Since returning to Canada she has developed an active research and teaching program supported among others by the National Science and Engineering Research Council (NSERC) and the Canadian Foundation for Innovation (CFI). She has served as an Associate Editor for *Mycologia*, on the Board of editors for *Mycologia Memoirs* and is currently an Associate Editor for the Canadian Journal of Botany. Wendy has also pro-actively served the society by participating in the MSA Program Review Committee, the MSA Culture Collection Committee, the MSA Undergraduate Research Award



Untereiner

Committee, MSA Nomenclatural Committee, and been chair of the MSA Graduate Student Awards Committee, the MSA Student and Young Investigator Foreign Travel Awards Committee, and is currently chair of the Canadian Botanical Society's Luella Weresub award selection committee. Dr. Untereiner's research organisms have baffled many a mycologist and some are ubiquitous. She used molecular, morphological and physiological characters to examine the systematics and ecology of the genus *Capronia* and affiliated black yeast anamorphs. Her understanding of these fungi as whole organisms resulted in the publication of nine papers representing a body of work

that is highly original and important. She published a landmark contribution in 1995 in *Mycological Research* that was one of the first papers in ascomycete systematics to use a comparative approach by synthesizing molecular and non-molecular characters. Her work also has led to the description of the new family Ajellomycetaceae in the Onygenales, and the development of several new techniques or expanded use of techniques, demonstrating considerable imagination and insight into complex problems. Although conducting research on the cutting edge of molecular investigations she retains a love and respect of classical mycology and has also published on historical literature and even contributed to a study of ground squirrel matings! Her colleagues speak of "her intellectual and scientific prowess", "immediate and efficient handling of all Society assignments", her "quiet aura of excellence" and of being a "Renaissance Woman". Clearly much is to come from Wendy as she further develops her career, and it is with a great deal of satisfaction that the Society honours and rewards her by bestowing the C. J. Alexopoulos Prize to her at this stage of her career.

Weston Award for Excellence in Teaching: Meredith Blackwell

Awarded annually to an outstanding teacher of mycology at the undergraduate and or graduate levels.

Dr. Meredith Blackwell, Boyd Professor at the Department of Biological Sciences, Louisiana State University, Baton Rouge, is the winner of this year's William H. Weston award for Excellence in Teaching. Meredith is well known to members of MSA, having served as Eastern Councillor (1981-82), Secretary (1986-88), Vice President (1990-91), and President (1992-93), as well as being presented the C. J. Alexopoulos Prize (1983) and Distinguished Mycologist award (2003). In 1996, the British Mycological Society made her a Centenary Fellow. She is also one of the founders and gatekeeper for the Genealogy of North American Mycologists so popular among members. Meredith received her B.Sc. in Biology at the University of Southwestern Louisiana, her M.Sc. from the University of Alabama, Tuscaloosa, and her Ph.D. from the University of Texas at Austin. She held Graduate Teaching Fellowships and Assistantships from 1962-72, and has taught at University of Florida, the Mountain Lake Biological Station, University of Virginia, and Hope College, Holland, Michigan before moving to Louisiana where she soon became Assistant-, then Associate, then full Professor and finally Boyd Professor. She has served in many, many capacities for MSA as well as the editorial boards and officer positions of other major scientific societies, including being Acting Associate Dean and Acting Chair in her departments. Dr. Blackwell is renowned for her studies of insect and fungal relationships, having published extensively on them and been editor of two major books on that topic. However, the award this year is on teaching, and notably she is also a co-editor of the standard university text, **Introductory Mycology**. She has clearly imbued



Blackwell

her students with the drive to succeed with high standards and a love of mycology, and of pride in having had her as a teacher as is evident from their accolades, "I had been, and still am, a proud student of Dr. Blackwell..." "I have benefited much from her very personal guidance and experience.... she was always willing to put what she was doing aside and provide assistance", "she would always be excited for what worked out and provide directions with encouraging words for things that did not." "she has been an excellent teacher, role model, counsellor, and friend as I have learned and worked under her guidance." "Dr. Blackwell is a passionate teacher who has devoted

her life to the education and advancement of her students." "Her office door was always open to students and all her reference books were available for us to use." "She patiently taught and encouraged us to use reference books to identify fungi by ourselves. This way allowed us to make mistakes and to learn from the mistakes." "Meredith's class was one of the more challenging I took in graduate school and required one to bring the full arsenal of previous coursework to the classroom. From biochemistry to evolution, from ecology to physiology, from taxonomy to cell biology, Meredith required that you take a big and complete picture approach to mycology." "Her commitment to teaching....is also exemplified by securing funding for workshops on general mycology for high school teachers at the MSA meeting in Ashville, NC and for Latin American students in Jalapa, Mexico." There actually are too many such fine quotes to include all of them here. Once again, the Society would like to honour Meredith for yet another job well done, by providing the prestigious Weston Teaching award as a token of our thanks for passing on the torch of knowledge so nobly.

MYCOLOGICAL NEWS

MSA Honorary Member: Michael Wingfield

Honorary members are distinguished senior scientists with a long record of significant contributions to the science of fungal biology and who reside in and work in countries other than the U.S. and Canada.

Michael Wingfield was born in South Africa where he obtained his early education including a B.Sc.Honours at the University of Natal (1977) and M.Sc. at the University of Stellenbosch (1979, degree *cum laude*). In 1983, he completed a Ph.D. in Plant Pathology at the University of Minnesota, specializing in forest pathology and entomology. He returned to South Africa to establish the first formal, forest pathology program, to serve a rapidly expanding plantation industry. In 1988 he became a full professor and member of Senate at the University of the Free State and together with industrial partners, established the Tree Protection Co-operative Programme (TPCP). This is now one of the best recognized tree protection groups in the world. In 1998, he became the first director of the Forestry and Agricultural Biotechnology Institute, FABI (University of Pretoria), which now houses the TPCP and other internationally, recognized plant biotechnology programs. He is passionately committed to the study of tree diseases, particularly those of importance to plantation forestry. He has published widely on this topic in journals, congress proceedings and in three books, is a committed teacher and has been advisor or co-advisor of in excess of 35 Ph.D. students, many now independently recognized scientists. He has served in many distinguished positions and received numerous awards and honours for contributions to education and industry, in South



Wingfield

Africa and elsewhere in the world. Some include the chancellors award of the University of Pretoria (2002), the Persoon Medal of the Southern African Society for plant pathology (awarded three times in 42 years), the Scientific Achievement Award of the International Union for Forestry Research Organisations (IUFRO), the distinguished alumnus award of the University of Minnesota and he was the first recipient of the National Science and Technology Forum (NSTF) national award for contributions to Science and Technology. In 2004, his research program was selected by the Department of Science and Technology, South Africa to become one of the first six, Gov-

ernment endorsed and funded Centres of Excellence. He is fellow of scientific societies such as the Royal Society of South Africa and the Southern African Society for Plant Pathology, serves on the advisory committee WeCo of the Centraalbureau voor Schimmelcultures, Holland, the board of the International Union of Forestry Research Organisations, was appointed to the board of the Council for Scientific and Industrial Research (CSIR) by the minister of Trade and Industry, South Africa and serves on the Research Committee of the Hans Merensky foundation. He enjoys lecturing on tree pathology topics and does so internationally, where he also acts as an advisor to significant forestry organizations, universities and institutes. Although mycology is his primary hobby, Mike enjoys gardening, bird watching and long distance running. He is married to Brenda who is a professor of genetics and with whom he also collaborates scientifically. They have two children, Anthony and Beverly who add a very special dimension to their lives.

MYCOLOGICAL NEWS

MSA Honorary Fellows: Baroni, Halling, O'Donnell, and Powell

MSA Fellows are members who have completed at least 11 years of service after their Ph.D., and who are outstanding mycologists on the basis of one or more criteria: a solid record of mycological research, and/or successful teaching and development of teaching materials for mycology, and/or significant service to the Society.

TIM BARONI - If anyone needs an introduction to this fellow, she or he has not been a member of this Society for very long. He is that polished, debonair guy, somewhat deficient in scalp covering, who is always beaming a smile. That good nature is there whether here at these meetings, or out collecting mushrooms in some disreputable outfit with his students. That happens in the woods near Cortland, New York, or in the Adirondacks, forcing students to swat mosquitoes and to avoid rattlesnakes while crawling through the woods for his ever-popular summer mushroom classes, or climbing the mountains of Caribbean islands, all in search of those elusive pink-spored 'shrooms we used to call *Entolomas*, but now are distributed in many genera, the names of which we seldom remember. His students love him (please don't tell his wife), his science is impeccable, and his sense of humor is monumental. He has served this Society in many positions, including president, and continues to do so. Honoring him as an MSA Fellow is long overdue. If you'd like to raise a glass to toast him, look for him at the closest bar. Tim Baroni is the guy with the broad grin and a host of students and colleagues looking up to him.



Baroni

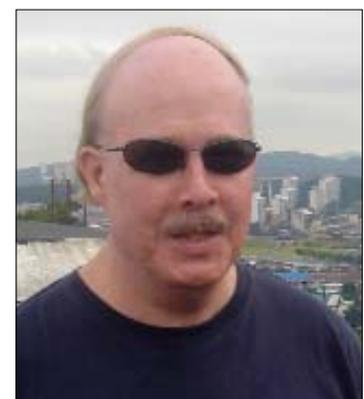
ROY HALLING - You are as likely to spot this new MSA Fellow in a forest in Thailand as on the street in the New York City. In search of boletes and Neotropical agarics from every corner of the world, he has accumulated more stamps in his passport than Condi Rice. His travels reflect his status as an expert on mushroom systematics, and it's likely that all that time in the duty-free zone helped him earn an equally well-deserved reputation with single malt whisky. He is a true corner stone of the MSA,

having served as Managing Editor of *Mycologia*, Index Editor of *Mycologia*, Managing Editor of *Mycologia* Memoirs, Associate Editor of *Mycologia* and, most important of all, MSA Webmaster. Unfailingly personable, always reliable, trustworthy, loyal, helpful; he personifies the whole Scout law. He also lives the Scout motto, and never was he more prepared than when, as a graduate student at San Francisco State University, he spotted something more interesting in his major advisor's herbarium than the specimens. Surprised was not the first word that Harry Thiers used when he found that his bryologist daughter Barbara had moved with our new fellow to take up new research positions at the New York Botanical Garden. From his position in the Bronx, he has contributed more than 65 peer-reviewed publications, four books, and innumerable symposium addresses. He is a true friend to mycology and mycologists, and never more so than when he helped another Fellow of the MSA, Dennis Desjardin, learn to "Just Say No" to *Psilocybe*. It is a pleasure to welcome Roy Halling as a new, MSA Fellow.



Halling

KERRY O'DONNELL - This Fellow has been a major contributor to the field of mycology for over 30 years. In that time, he has made seminal contributions in a number of disparate areas of research, including microscopy, cell biology, the molecular genetics of the cell, and both traditional and molecular systematics. This has led many to wonder whether there are multiple mycologists of the same name, the result of a bizarre USDA cloning program in-



O'Donnell

Continued on following page

MYCOLOGICAL NEWS

tended to put all of us out of our jobs. Actually, those who work with him will confirm that this mycologist is one and only one person, and will cite the fact that he answers his office phone on Sundays at 7 PM as evidence of his work ethic. They will also confirm that he is an exceptional colleague, generous with his time, intellect, and research results. When he started working on *Fusarium* molecular systematics 17 years ago, he was faced with a task that appeared to be something between Sisyphean and quixotic, but through sheer brute force he almost single-handedly established one of the largest molecular systematic datasets in existence. For his service to the MSA and his tireless efforts in bringing mycology into the molecular age - or as he might put it, out of the age of black Magic Markers and empty bottles of Wild Turkey - we recognize Kerry O'Donnell as an MSA Fellow.

MARTHA POWELL - From the earliest days of her childhood in western North Carolina to her current position as Chair and Professor of Biological Sciences at The University of Alabama, our first Fellow has been a naturalist through and through, and her deepest interest is in the microscopic world. After seeing her first chytrid at Chapel Hill, and with the guidance of Drs. John Couch and Bill Koch, she pioneered ultrastructural and subcellular biology in the Chytridiomycota. With more than 80 publications under her name, she has revealed chytrid se-

crets from A to Z, from antimonite-mediated precipitates to zoospore ultrastructure and encystment. In the span of her 37 years of professional life (she must have first published at age 2), her research interests have guided the studies of more than 60 undergraduate and graduate students. Her service to the MSA is excep-



Powell

tional, having served as an Associate Editor of *Mycologia*, Treasurer and President. Very often, her instructional technique, for both students and faculty, involves a rather verbose pedagogic tour, touching multiple and diverse topics. Emerging from this unique teaching style is a new English word, coined in her honor, an honor reserved for a select few. For, after enduring an effusive and enthusiastic academic tour-de-force by our fellow, you have been "Powelled". In the MSA, being "Powelled" is akin to being knighted. We are delighted to welcome Martha Powell as an MSA Fellow.

Martin-Baker Award Winner: Elizabeth Frieders

The award honors two respected teachers of mycology, George W Martin and Gladys Baker, both of whom had long and distinguished careers in mycology, and both of whom have faithfully served the Mycological Society of America in a number of capacities. The award is given to a mycologist who is within 5 years of their Ph.D degree and who has significant teaching commitments. It is in support of new or ongoing research.



Frieders

Dr. Elizabeth M. Frieders, Associate Professor, Biology Department, University of Wisconsin-Platteville. Elizabeth received her PhD in Plant Biology in 1997 from the University of Minnesota; Dr. David J. McLaughlin was her supervisor. She joined the Biology Department at the University of Wisconsin-Platteville in 1997. She is involved in an impressive variety of courses and uses her own studies to introduce undergraduates to scientific re-

search. Elizabeth's research interests center on the systematics of members of the Urediniomycetes sensu Swann and Taylor. With the Martin-Baker Research Award monies, she plans to write a species circumscription of an undescribed fungus found by Dr. George Carroll; the fungus was growing on the underside of leaves of dog-hobble, *Leucothoe fontanasiana*. A molecular analysis of the nuclear ribosomal RNA large subunit gene placed it within the Atractiellales (Urediniomycetes sensu Swann and Taylor). In addition to being united by molecular sequence similarity, the members of this order studied ultrastructurally to date

possess similarities in their septal pore architecture and presence of microscala. Her objectives are 1) to determine whether or not it is a new genus through additional molecular analyses, and 2) to characterize the culture and fruitbody through light and electron microscopic studies.

MYCOLOGICAL NEWS

Forest Fungal Ecology Research Award Winner: Paul Trusty

This award supports ecological studies of fungal interactions in old growth forests or other unique or endangered ecosystems. Studies should address innovative approaches to examining fungal systems or interactions of individuals, or groups of fungi, with hosts or substrates in old growth forest or other sensitive ecosystems.

Paul Trusty, M.A. candidate, Department of Plant Sciences and Plant Pathology, Montana State University. Paul earned his BA at Lewis and Clark College and is pursuing a MA with Dr. Cathy Cripps at Montana State University. Work with Dr. Edwin Florance on Sudden Oak Death Syndrome led Paul to an interest in fungi in forests as they pertain to ecosystem



Trusty

function and reclamation. His current research is an examination of effect of fire on the ectomycorrhizal fungi associated with Whitebark pine (*Pinus albicaulis*), a species that is declining due to fire suppression, blister rust, and beetle infestation. Efforts are underway to restore this tree with fire and rust resistant seedlings. While much is known about the ecology of whitebark pine, very little is understood about the mycorrhizae that help support them. He plans to examine the mycorrhizal status of naturally regenerating and planted rust resistant seedlings in burned and unburned whitebark pine forests. He

hopes his studies will provide valuable information for restoration projects.

Rogerson Student Research Award Winner: Matthew Keirle

The purpose of the Clark T. Rogerson Student Research Award is to support student travel to herbaria and/or field sites to conduct research. Grants are available to undergraduate or graduate students who are members of the Mycological Society of America.

Matthew Keirle, Ph.D. candidate, Committee on Evolutionary Biology, University of Chicago. Matthew completed his BA Biology at the University of California, Santa Cruz in 1989. He joined the United States Peace Corps and served as an Agroforestry Extensionist for two years in the South American country of Paraguay. Upon returning from Peace Corps, he taught bilingual biology classes for seven years at an urban high school in the San Francisco Unified School District. In 2000, he began a Masters program with Dr. Dennis Desjardin at San Francisco State



Keirle

University. His thesis involved preparation of a monograph for the coprinoid mushrooms of the Hawaiian Islands including a phylogenetic analysis of the *Coprinus cordisporus* species complex using ITS sequence data. He is currently a third year doctoral student in the Committee on Evolutionary Biology at the University of Chicago studying with Dr. Greg Mueller at the Field Museum. Matthew's dissertation research investigates the microevolutionary processes that lead to species formation in macrofungi through examination of a narrowly endemic, mushroom species (*Rhodocollybia laula-*

ha) which is distributed in a geographically subdivided set of nested island populations in the Hawaiian Archipelago. The Clark T. Rogerson award will provide needed funds for travel to endemic Hawaiian rainforest field sites.

MYCOLOGICAL SOCIETY DISTINCTIONS COMMITTEE

Scott Redhead, Chair, Georgiana May, Mary Berbee, James Kimbrough, and Nicolas Read.

MSA HONORARY AWARDS COMMITTEE

John Taylor, Chair, Carol A Shearer, David J McLaughlin.

MSA RESEARCH AWARDS COMMITTEE

Nancy Weber, Chair, Iris Charvat, Terry Hill, and Gary Warren.

MSA STUDENT AWARDS COMMITTEE

Lori M. Carris, Chair, Catherine Aime, Jinx Campbell, and Jean Marc Moncalvo.

MENTOR STUDENT TRAVEL AWARDS

Mentor Student Travel Committee members: Andrea Gargas, Chair, Steven Harris, Elizabeth Frieders, and Josef Geml.

MYCOLOGICAL NEWS

Smith Research Award Winner: Matthew E. Smith

The primary purpose of the Alexander H. and Helen V. Smith Research Award is to encourage the study of specimens of macrofungi, fleshy Basidiomycetes and Ascomycetes, collected by Alexander H. Smith and his associates. These collections, and materials relating to them, are currently deposited at the University of Michigan Herbarium. The Fund will distribute grants-in-aid to cover all or a significant part of the expense of visiting the Herbarium and working with the collections and materials relating to them.



Smith and son, Finnigan

Matthew E. Smith (Matthew E. Smith, Ph.D., Postdoctoral Researcher, Department Nematology, University of California, Davis. Matt received his PhD in Ecology from UC Davis in March 2006 under the direction of Dr. David M. Rizzo. For his dissertation, Matt studied the ecology, phylogenetics, and taxonomy of ectomycorrhizal fungi associated

with California's Mediterranean Quercus (oaks). DNA sequences from ectomycorrhizal roots and collections of sporocarps revealed that cryptic ectomycorrhizal taxa (both hypogeous and resupinate) dominate the mycota of seasonally dry oak woodlands in California. Many of these fungi had not been previously studied. Matt proposed four new species and a new genus as part of his dissertation research. He is particularly interested in the hypogeous Pyronemataceae and he plans to study Alexander Smith's collections of *Genea*, *Genabea*, and *Gilkeya* during his visit to the herbarium at the University of Michigan. Matt recently began a postdoctoral research position in the Department of Nematology at UC Davis in Dr. Bruce Jaffee's lab. He plans to use a combination of molecular and culture-based techniques to examine interactions between nematodes and nematode-destroying fungi in natural ecosystems.

2006 MSA Graduate Fellowship Award Winners

Graduate Fellowships: Two MSA Graduate Fellowships (\$2,000 each), the Memorial NAMA Fellowship (\$2,000), and the Backus Award (\$1000) are awarded annually to promising graduate students in mycology. Applicants are evaluated on the basis of their scholastic merit, research ability and promise shown as a mycologist.



Raja, Gueidan, Joneson, and Dentinger

Cécile Gueidan, 2006 MSA Fellowship Award Recipient— Cécile earned her Bachelors and Masters degrees in Biology at Louis Pasteur University in France, then worked for two years with one of the foremost lichen experts, Prof. Claud Roux, prior to starting a PhD program in Systematic Biology at Duke University in 2002 under the supervision of Francois Lutzoni. She is an author on ten publications and has been awarded a number of awards and scholarships in support of her studies, including an NSF Doctoral Dissertation Improvement

Grant. For her dissertation research, Cécile has chosen the Verrucariales, perhaps one of the most challenging groups of fungi to study. The objectives of Cécile's dissertation research are to reconstruct a multilocus phylogeny of the Verrucariales, and to reconstruct ancestral states to test if lichenicolous lichens and fungi were transitional stages between mutualism and parasitism. As one referee wrote, "at the end of her PhD, Cécile Gueidan will represent the apogee of what a modern systematist should be: A researcher with thorough knowledge and ability to study the biology and diversity of a group of organisms of interest, with a high proficiency in using modern tools ranging from TEM to genomics to characterize the phenotypic and genotypic variation, and with all the conceptual background necessary to address fundamental questions in evolutionary biology".

Continued on following page

MYCOLOGICAL NEWS

Huzefa A. Raja, 2006 MSA Fellowship Award Recipient— Huzefa earned a B.Sc., M.Sc. and M. Phil. in Botany from the University of Madras, India, and has been working on PhD in the Department of Plant Biology at the University of Illinois Champaign-Urbana under the supervision of Carol Shearer since 2000. For his research, Huzefa is addressing questions relating to fungal biodiversity and phylogenetics of freshwater euascomycetes. His thesis work is conducted in Florida, and thus far he has discovered numerous new species and is finding evidence to support his hypothesis regarding the influence of habitat type on species distribution patterns. Huzefa is also participating in the All Taxa Biotic Inventory of the Great Smokey Mountains National Park. He already has five papers from his research either published or in review. According to his letters of recommendation, “Huzefa is an excellent student with an extraordinary passion for fungi” whose “commitment to his work is exemplary”.

Suzanne Joneson, 2006 MSA Backus Award Recipient— Suzanne earned a B.S. and M.S. in Botany from the University of Washington, and began her PhD in Biology at Duke University in 2003 under the supervision of Francois Lutzoni. Suzanne’s research uses the lichen symbiosis as a model system to identify and characterize genes involved in the early stages of the interaction between the mycobiont and unicellular alga. Suzanne has received several awards, including a Mellon Foundation Training Grant in Plant Systematics. She has worked as a teaching assistant since she started her PhD program, yet according to one referee “at a stage when most graduate students are still testing the waters,

she had already focused on a grand plan for her dissertation and was intensely engaged in the initial experimentation”.

Bryn Dentinger, 2006 NAMA Memorial Fellowship Recipient—Bryn earned a B.A. in Biology from Macalester College and began working on a PhD in Plant Biological Sciences with David McLaughlin at the University of Minnesota in 2001. Bryn has served as a teaching assistant in several courses at Minnesota, and according to one referee, “he has the ability to turn students on to the excitement of studying the fungi” and has a “talent not only for good science but for communicating it to the public”. Bryn has been involved in several research projects, including ecological surveys of ectomycorrhizal mushrooms that examined responses to nitrogen fertilization and fire frequencies, ultrastructural analysis of subcellular characters as part of the Assembling the Fungal Tree of Life project, and molecular phylogenetic analysis of clavarioid and bolete mushrooms. His dissertation research focuses on rates and causes of speciation in porcini mushrooms; the project is aimed at producing a robust phylogenetic hypothesis for porcini, by incorporating two independent nuclear loci with an existing dataset of *nucITS* sequences. Bryn is author or coauthor on five publications, has numerous awards including a prestigious Doctoral Dissertation Fellowship from the University of Minnesota Graduate School and the 2005 Backus Award from the Mycological Society of America. According to his referees, Bryn is “a truly exceptional student”, who will be “a major contributor to mycology, a fact already becoming evident by the many publications to which he has made significant contributions”.

2006 MSA Student Presentation Award Winners

Oral presentation award recipients

Nikki Charlton, North Carolina State University, with co-authors I. Carbone, S. M. Travantzis and M. A. Cubeta. “Analysis of genetic diversity and evolutionary history of the M2 dsRNA of *Rhizoctonia solani* AG-3”.

Bradley Miller, Virginia Polytechnic Institute and State University, with co-authors C.S. McCleneghan and H. Neufeld. “The successful nursery production of red spruce seedlings with indigenous ectomycorrhizal fungi of the endangered Southern Appalachian spruce-fir ecosystem”.

Poster presentation award recipients

Craig Dunek, University of Wisconsin, LaCrosse, with co-author T. J. Volk. “Preliminary isolation and characterization of novel antifungal chemicals from fungal fruiting bodies”.

Andrew Wilson, Clark University, with co-author D. S. Hibbett. “Molecular evolution and ecology of the basidiomycete genus *Calostoma* (Sclerodermatineae, Boletales)”.



Charlton, Miller, Wilson, and Dunek

MYCOLOGICAL NEWS

2006 MSA International Travel Award Winners

These awards are made in support of travel to the International Mycological Congress in Cairns, Australia, Aug 2006. The ad hoc committee this year included James B Anderson and Faye Murrin. This year seven applicants were each awarded \$500.

Cécile Gueidan is a fourth year Ph.D. student in the Biology Department at Duke University in Durham, NC, under the supervision of François Lutzoni. Her thesis work is part of the AFTOL project and focuses on the systematics, molecular phylogenetics and lifestyle evolution of the ascomycete subclass Chaetothyriomycetidae. Cécile is an invited symposium speaker at IMC8.



Gueidan

Terri McLenon: Terri's interest in fungi was first awakened in a mycology course offered by Dr. Linda Kohn. She is now working on her Ph.D. in the Department of Ecology and Evolutionary Biology at the University of Toronto under the supervision of Dr. Jean-Marc Moncalvo. Her research explores the diversity of fungal communities as detected by conventional fruiting body collections and bulk soil DNA extracts. Currently, she is studying the molecular phylogeny of a new soil rDNA group in the Ascomycota and is developing a fluorescent in situ hybridization protocol to try to visualize these fungi for the first time.



McLenon

Matthew Keirle completed a Masters program with Dr. Dennis Desjardin at San Francisco State University. He is currently a third year doctoral student in the Committee on Evolutionary Biology at the University of Chicago studying with Dr. Greg Mueller at the Field Museum. Matthew's dissertation research investigates the microevolutionary processes that lead to species formation in macrofungi through examination of a narrowly endemic, mush-



Keirle

room species (*Rhodocollybia laulaha*) which is distributed in a geographically subdivided set of nested island populations in the Hawaiian Archipelago.

Dr. Mikhail (Misha) Sogonov is a native of Moscow, Russia. He did his undergraduate degree in the Soil Science Faculty at Moscow State University and completed his diploma thesis on the biodiversity of microfungi in subaquatic soils by the White Sea and Moskva River under the supervision of Dr. Olga Marfenina. Dr. Sogonov received his PhD in 2003 from Moscow State University working under the direction of Dr. Lev Velikanov and also worked with Dr. Vladimir Onipchenko in North-Western Caucasus as a part of a long-term alpine plant ecology study. During this time he spent six months working with Drs. Walter Gams, Richard Summerbell and Hans-Josef Schroers at CBS in The Netherlands working on the taxonomy of *Pseudeurotium*-related anamorphs and to identify fungi isolated in Caucasus for his PhD project. He is currently a postdoctoral research associate at the USDA ARS Systematic Botany and Mycology Laboratory as a part of an NSF PEET grant on the systematics of the Gnomoniaceae (Diaporthales), working with Drs. Amy Rossman, Lisa Castlebury (USDA) and James White (Rutgers University).



Sogonov

Dr. Andrew Munkacsi is an invited symposium speaker at IMC8. He will be speaking on the work he completed during his Ph.D. with Dr. Georgiana May at the University of Minnesota, where he investigated the impact of the domestication and cultivation of maize on the origin and evolution of the extant population genetic structure of *Ustilago maydis* in the Americas. Andy is currently a Postdoctoral Research Fellow at Columbia University with Dr. Stephen Sturley where he is using *Saccharomyces cerevisiae* as a model for Parkinson's disease.



Munkacsi

Continued on following page

MYCOLOGICAL NEWS

Dr. Kentaro Hosaka received his Ph.D. from Oregon State University in 2005 for a study of “Systematics, phylogeny, and biogeography of the Hysterangiales and related taxa (gomphoid-phalloid fungi). Currently he is a postdoctoral fellow at the Field Museum in Chicago, with Greg Mueller working on systematics and biogeography of *Laccaria* and related taxa (Hydnangiaceae, Agaricales). The picture of Kenataro was taken in New Caledonia, with where he stands with a truffling fork in front of a huge *Nothofagus* tree.



Hosaka

Sara Branco received a degree in Biology from the University of Lisbon, Portugal, in 2001. She is presently a Ph.D. candidate in the Committee on Evolutionary Biology at the University of Chicago working with Gregory Mueller. Sara is interested in the evolution of symbiotic fungi in extreme environments. Her present work focuses on ectomycorrhizal fungi from serpentine and non-serpentine Mediterranean oak forests and uses a combination of field surveys, common garden experiments, and morphological and molecular techniques.



Branco

2006 MSA Mentor Student Travel Award Winners

The mentor awards are given in the names of some of our famous mycological forebearers. These awards are given in support of participation in the MSA Annual Meeting which was held this year with the American Phytopathological Society in Quebec City, Canada, 29 July-2 August.

C.J. Alexopoulos Award: Tami McDonald
School: Duke University
Supervisor: François Lutzoni.
Topic: Epigenetics of lichen symbiosis.

Howard Bigelow Award: Jo Ann Crouch
School: Rutgers University
Supervisor: Bradley Hillman
Topic: Evolutionary relationships of fungal species in the genus *Colletotrichum* from diverse grass communities.

Margaret Barr Bigelow Award: Luis Mejia
School: Rutgers University
Supervisor: James F White
Topic: Systematics and Ecology of the Genus *Cryptosporella* (Gnomoniaceae): Clarification of the nomenclature and relationships of the genera *Cryptosporella*, *Ophiovalsa* and *Winterella* (Gnomoniaceae).

W.C. Denison Award: Suzanne Joneson
School: Duke University, Biology Dept.
Supervisor: François Lutzoni,
Topic: The genetics of early lichen symbiosis between the mycobiont *Cladonia grayi*, and the photobiont *Trebouxia* sp. Poster.

H.M.Fitzpatrick Award: Nikki Charlton
School: North Carolina State University.
Supervisor: Marc A. Cubeta
Topic: The M2 double-stranded RNA (dsRNA) mycovirus of *Rhizoctonia solani* anastomosis group 3 (AG-3), a widely distributed fungal pathogen of Solanaceous crops.



Palmer, Gueidan, Joneson, McDonald, Charlton, Mejia, and Keirle (Crouch not pictured)

R.P.Korf Award: Jon Palmer
School: University of Wisconsin La Crosse
Supervisor: Dr. Thomas Volk
Topic: Morphological and molecular characterization of mycorrhizal fungi associated with a disjunct stand of American chestnut in Wisconsin

E.S.Luttrell Award: Cécile Gueidan
School: Duke University, Durham, NC
Supervisor: François Lutzoni
Topic: Molecular phylogeny of the Verrucariales (Fungi, Ascomycota) and the evolution of nutritional modes in the Chaetothyriomycetidae

H.D.Thiers Award: Matthew Keirle
School: University of Chicago
Supervisor: Greg Mueller
Topic: Sectional concepts in the genera *Coprinopsis* and *Coprinellus* – conflict between morphology and nuclear ribosomal sequence data

MYCOLOGICAL NEWS

Visitors to the USDA Systematic Botany and Mycology Lab

Two scientists from Africa are working in the SBML for three months (July to October) to ensure that you have plenty of chocolate in your life! Mr. Andrews Akrofi is a plant pathologist with the Cocoa Research Institute of Ghana at Tafo, and Dr. Sunday Agbeniyi is Assistant Chief Research Officer at the Cocoa Research Institute of Nigeria at Ibadan. Both Andrews and Sunday are working on integrated management of fungal diseases of cocoa with emphasis on *Phytophthora*. About 60% of the world's cocoa comes from West and Central Africa; between them Ghana and Nigeria account for about 36% of that total. *Phytophthora megakarya*, a cause of black pod disease of cacao, can result in up to 100% losses of cocoa pods. The disease is in the advancing stage, and thus is among the most serious threats to the world's cocoa supply. Integrated pest management using *Trichoderma* as a micro-



Agbeniyi and Akrofi

bial control agent offers promise of reducing the amount of fungicides needed to control black pod disease. Andrews and Sunday are working with Gary Samuels and Prakash Hebbar (M&M/Mars Corporation) to learn classical and molecular techniques for the identification of *Trichoderma*. They are assaying their cultures for mycoparasitism and antibiosis against *P. megakarya* and they are learning techniques of formulation of microbial control agents. They are also working with Cathie Aime (SBML) to identify red-thread disease of cacao, which is caused by a marasmioid agaric. Andrews and Sunday will visit USDA cocoa geneticist Ray Schnell (Subtropical Horticulture Research Station, Miami) en route to the Cocoa Producers Alliance meeting in Costa Rica. They will return to their respective homes at the end of October.

—Gary J. Samuels
gary@nt.ars-grin.gov

Mycological Expedition to Guyana

In 2006 marks the seventh year of mycological investigations in the Upper Potaro River Basin in the Pakaraima Mountains of Guyana, in northeastern South America. Projects undertaken over June/July by ourselves and various students from Humboldt State University and the University of Guyana included collection of fungi for taxonomic purposes (TH, CA, & Tara Fulgenzi, HSU grad), estimations of EM fungal biomass in leguminous, ectotrophic *Dicymbe* forests (TH & Teresa Stoepler, HSU undergrad), patterns of nitrogen and carbon isotopes in forest trees and root symbionts (JM), community structure and identification of epiphyllous lichens (Luke Henault, HSU undergrad), and monitoring of litterfall, seedling survival, and fruit production of the EM monodominant tree *Dicymbe corymbosa* (TH & Mimi Chin, HSU). Additionally, *Dicymbe* forests were georeferenced along a 75 km transect through the heart of Pakaraima Mountains. Our aim is to identify monodominant *Dicymbe* forests through their spectral signature on satellite photographs, and estimate their distribution throughout the Guiana Shield region. These unique forests are regional habitat islands for EM fungi, and determining their extent in this remote, rugged region has bearing for conservation and future field studies.

Fieldwork challenges in this sublime wilderness include dealing with heavy rain (> 15 inches in one night!), foot rot, and climbing through tangled treefall gaps to get GPS points. Without the “cushy” facilities of other tropical field stations (e.g. BCI, La Selva), we are on our own to both survive and accomplish science. As always, we wouldn't have lasted a minute without the help of our Patamona Amerindian assistants!

—Terry Henkel, twh5@humboldt.edu
—Cathie Aime, cathie@nt.ars-grin.gov
—Jordan Mayor, clavulina@gmail.com



Top Row: Jordan Mayor, Cathie Aime, Luke Henault, Mimi Chin, Seon Hamer, Giovanna Young, Franes Joseph, Tara Fulgenzi, Teresa Stoepler. Bottom row: Valentino Joseph, Francino Edmond, Pedro Joseph, Humphrey Andrew, Piakai Henkel, Estine Andrew (with two toddlers), Peter Joseph, Luciano Edmond, Terry Henkel.

MYCOLOGIST'S BOOKSHELF

Four books are reviewed below. Two new books were received since the last *Mycologist's Bookshelf*. Several previously published books are listed with a note at the end indicating their availability for review. If a review is needed and you would like to review it, just send an email. I will send you the book, you write the review, and then you can keep the book. All requests for books to review should be sent to Amy Rossman at arossman@nt.ars-grin.gov.

Taxonomy and Pathology of *Tognina* . . .

Taxonomy and Pathology of *Tognina* (Diaporthales) and its *Phaeoacremonium* Anamorphs. 2006. L. Mostert, J.Z. Groenewald, R.C. Summerbell, W. Gams & P.W. Crous. Centraalbureau voor Schimmelcultures, P.O. Box 85167, Utrecht, The Netherlands. www.cbs.knaw.nl/publications/index.htm. *Studies in Mycology* 54: 1-115. Price: €55.00.



This number in the *Studies in Mycology* presents a monographic account of the genus *Tognina* and its *Phaeoacremonium* anamorphs in the Diaporthales. And, it's a lot more. For years the causes of Petri disease and esca of grape were a mystery until the relationship of these diseases to the non-descript but medically important anamorph *Phaeoacremonium* was discovered. Even then, it took some time to distinguish "real" *Phaeoacremonium* from some non-descript lookalike but unrelated species now placed in *Phaeoacremoniella* in the Dothideomycota. Lizel Mostert and colleagues including her professor, Pedro Crous, have linked this anamorphic genus *Phaeoacremonium* with the genus *Tognina*, previously considered a member of the Calosphaeriales, but now placed in the Diaporthales.

This monograph provides an account of ten species of *Tognina* and their *Phaeoacremonium* anamorphs as well as thirteen more species of *Phaeoacremonium* that lack sexual states. Each species is described and illustrated with sections of the fruiting bodies, asci, and ascospores, many of which are in color. The *Phaeoacremonium* states are illustrated with color photos of colonies, conidiogenous cells, conidia, and SEM of phialides with conidial heads. The illustrations are magnificent! The thorough descriptions and illustrations constitute the bulk of the book, each including nomenclature, descriptions on natural substrata and cultural characteristics, host, distribution, specimens examined, and notes on each species.

In addition to the descriptions of the fungi, noteworthy and thorough as they are, this monograph includes a great deal of information about the organisms as both human and plant pathogens. One gruesome photo illustrates a human foot infected with *Phaeoacremonium kraidenii* causing a disease called white grain eumycetoma. By contrast the photos of symptoms of Petri disease and esca show only blackened rootstock, discolored wood, or "tiger-stripes" on leaves. From a grape pathologists point of view these may be equally disgusting. *Tognina* and *Phaeoacremonium* occur on a broad range of substrata including woody plants as endophytes or suspected pathogens causing dieback and wilting, humans, larvae of bark beetles, and soil with a worldwide distribution. Several pages discuss the epidemiology, pathogenesis and disease management of both the plant and human diseases caused by these fungi.

This book includes numerous helpful keys such a key to the genera related or similar to *Togninia*, and a key to the hyphomycete genera similar to *Phaeoacremonium* as well as keys to the species of both genera. Species excluded from *Tognina*, primarily species of *Calosphaeria*, are described and illustrated as are all genera of the Calosphaeriales.

Most taxa have been sequenced with trees presented analyzing the placement of the Togniniaceae using either SSU or LSU sequences. These genes result in conflicting placement of the family that is not resolved although the authors seem convinced that the Togniniaceae belong in the Diaporthales. Both genes confirm that the Togniniaceae is distinct from the Calosphaeriales. Sequences of actin and beta-tubulin are used to confirm the uniqueness of many new species, most of which are represented by several isolates deposited in CBS.

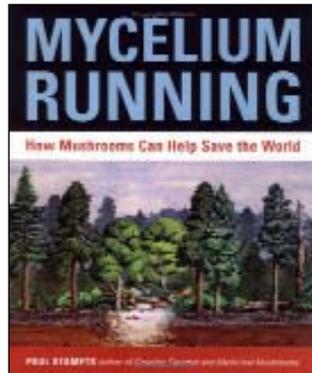
All in all, this monograph is first-rate, useful to mycologists who wish to know more about the genera and species of the Sordariomycetes, medical mycologists interested in these fungi as human pathogens, and plant pathologists working on dieback and wilt diseases of grape and other woody plants.

— Amy Y. Rossman
Book Review Editor

MYCOLOGIST'S BOOKSHELF

Mycelium Running: How Mushrooms Can Help Save the World

Mycelium Running. How Mushrooms Can Help Save the World. 2005. P. Stamets. Ten Speed Press, Box 7123, Berkeley, CA 94797, www.tenspeed.com. ISBN-13: 978-1-58008579-3 (Paperback). 339 pp. Price: \$35.00.



Harnessing natural processes to solve environmental problems is gaining worldwide momentum, and Paul Stamets' latest book has arrived just in the nick of time. In *Mycelium Running*, he confirms what you've long-suspected: fungi rule the biosphere. He digs up the dirt on mycelium and sheds light on the myriad ways it influences ecosystems, while delivering applied examples and practical recommendations for harnessing the unique capabilities of this unsung network to solve pressing ecological dilemmas. Intended for a diverse readership, *Mycelium Running* is dedicated to "landscapers, bioremediators, ecoforesters, sustainable-village planners, physicians, scientists, futurists, or anyone who is passionately bemushroomed". Stamets clearly dove head-first into the latter pond some time ago and his enthusiasm for fungi is evident on every page. This makes for a fascinating, fungi-centric read. High-quality color photographs grace almost every page (over 300 photos in all), and are well-integrated with the text. Organization is logical, and each section is well-referenced.

Part one introduces Stamets personal philosophy and provides a background on the beneficial roles of fungi in ecosystems, encompassing Mycelium as Nature's Internet, the Mushroom Life Cycle, Mushrooms in their Natural Habitats, and the Medicinal Mushroom Forest. The last section includes the handy cross-indices "Mushrooms and their targeted therapeutic effects", "Mushrooms with activity against specific cancers" and "Mushrooms with direct antiviral properties". A particularly interesting section deals with fungal production of secondary metabolites during antagonistic interactions with other organisms.

Part two gets into the nitty-gritty of habitat mycorestoration, which Stamets divides into a quartet of strategies. He holds patents in mycofiltration, mycoforestry, mycoremediation and mycopesticides, and here he clearly elucidates the novel processes he has harnessed and devel-

oped. Mycofiltration is the use of mycelium as a buffer between habitats, for example, to prevent agricultural waste from contaminating streams. Stamets removed fecal coliform contamination from his farm using *Stropharia rugosa* var. *annulata*. The goal of mycoforestry is to create truly sustainable forests by incorporating fungal inoculum in management strategies, as opposed to the soil-depleting methods of traditional slash and burn forestry. This chapter excels due to its clarity, practicality and optimism. Who else but Paul Stamets could make decommissioning a logging road with mycelium-laden woodchips sound like so much fun? Mycoremediation harnesses fungal digestive enzymes to clean up chemically contaminated habitats. In one of Stamets' studies, oyster mushroom mycelium decontaminated hydrocarbon-laden soil *in situ* in just eight weeks. Mycopesticides have the potential to control pest-insect populations in environmentally friendly, long-lasting ways. Stamets discovered that the presporulating culture of the entomopathogenic fungus *Metarhizium anisopliae* could rid his home of carpenter ants permanently, and its efficacy against other insect pests is currently being tested.

Part three is a compendium of inoculation and cultivation methods for raising beneficial mycelium and mushrooms. Stunning photographs and headings such as "Stem butt spawn and the 1-dowel revolution" would entice anyone to quit their day job and become a mycologist. The book concludes with an excellent 92-page reference section organized by species, including common and taxonomic names, history of cultivation, physical description, distribution, companion planting, nutritional and medicinal profiles, and mycorestoration potential.

The multi-level approach to habitat restoration is sure to make this book a new classic, or at the very least, highly thought-provoking. There are several instances of repetition in the text, and tighter editing would strengthen Stamets' arguments. Future editions could be expanded to include the work of others in the mycorestoration field. This would increase its utility for mycologists and restoration scientists. As is, this is required reading for amateur mycologists, as it effectively demonstrates the nonculinary value of fungi and draws attention to the unique nature of mycelium. *Mycelium Running* deserves a place in any library, where it is sure to intrigue and inspire future generations of mycologists.

— Allison Kennedy

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MYCOLOGIST'S BOOKSHELF

100 Years of Fungal Biodiversity in Southern Africa

100 Years of Fungal Biodiversity in Southern Africa. 2006. P.W. Crous, M.J. Wingfield, B. Slippers, I.H. Rong, & R.A. Samson (eds.) Centraalbureau voor Schimmelcultures, P.O. Box 85167, Utrecht, The Netherlands. www.cbs.knaw.nl/publications/index.htm. *Studies in Mycology* 55: 1-305. Price: €65.00.



This latest number in the *Studies of Mycology* series commemorates the 100 years that the South African National Collection of Fungi (PREM) has been in existence. The first paper reviews the history of that organization emphasizing the contributions of important scientists such as Ethel M. Doidge. The major events in the history of mycology and plant pathology in South Africa are summarized chronologically at the end of the chapter. The amazing diversity of habitats in South Africa is emphasized in the second paper that asks the question How many species of fungi are there at the tip of Africa? The rest of the book presents original research papers primarily on the systematics of plant pathogenic ascomycetes. All of the chapters are authored or co-authored by Pedro Crous, Brenda Wingfield or Michael Wingfield and their students. Herein lies the future of mycology in South Africa. These energetic mycologists have responded to the

need to discover and characterize fungi that affect the commercial crops and forests so important to the economy of this primarily agricultural country. Included are many new genera and species of ascomycetous fungi on *Eucalyptus* and other Myrtales, rooibus, maize, grape, Proteaceae and Restionaceae. Only the last two chapters are concerned with basidiomycetes and then these are plant pathogens as well. Each paper places the newly described fungi in phylogenetic context. In addition, many species are beautifully illustrated with numerous full color plates of symptoms as well as microscopic characteristics. While this volume does not come close to being a balanced account of South African fungi, it does reflect the current activity. One criticism of the science is the use of distantly related outgroups in the cladograms. It is hard to understand why one would use *Cylindrocladiella* for the outgroup of an analysis of species of *Diaporthe-Phomopsis* or *Gaemannomyces graminis* for the outgroup of an analysis of members of the Botryosphaeriaceae when sequences for more closely related taxa exist. Nevertheless, this publication presents original research on the systematics of important groups of plant pathogens and, as such, will be of interest to those who need to keep up with this literature. All scientific libraries should obtain a complete run of this increasing important mycological series. For the mycologist who has an interest in only one or two groups of these fungi, the entire volume is available at the CBS website.

— Amy Y. Rossman
Book Review Editor

Invasive Species: Vectors and Management Strategies

Invasive Species: Vectors and Management Strategies. 2003. GM Ruiz & JT Carlton (eds). Island Press 76381 Commercial Street, P.O. Box 7, Covelo, CA 95428, www.islandpress.org, 518 pp. Price: \$40.00 paperbound, \$75.00 hardbound.

This volume is the result of a conference held in 1999 by mostly US experts, representing a broad range of expertise in the ecology of invasion by terrestrial, freshwater and marine organisms. The editors have produced a commendable treatise, not least because of their focus on pathways of invasion, the uniformity of presentation (although not terminology), and high quality of the included papers. The book is divided into three sections. The first focuses on causes, routes and vectors, with chapters devoted to plants, fungi, insects, terrestrial vertebrates, terrestrial and freshwater molluscs, freshwater vertebrates, coastal marine species, marine plants and intercontinental movement of organisms to the Great Lakes. The second section presents various policy discus-

sions with case studies from Australia, New Zealand, South Africa and the U.S., while the third presents conclusions, generalizations, and summaries of that which has gone before. For this reader, the most surprising information is: that the ornamental plant industry is culpable in most cases of invasions of plants, fungi, insects, and molluscs (with Italian tiles, food snails and biological controls also being important source of invasive molluscan faunas); that oyster propagation has been a major source of invasive species; and that, for freshwater invasions, the ornamental aquarium and, less surprising, sport fisheries are greatly responsible.

In their brief chapter on terrestrial invasions by fungi, Mary Palm and Amy Rossman focus on: propagative plant materials, woody nursery stocks, herbaceous plant germplasm, seeds, non-propagative plant materials (fruits, vegetables, cut flowers, dried herbs, wood and wood products), soils, and transfer of live cultures by academics. For most areas they present one disease or fungus as an example:

Continued on following page

MYCOLOGIST'S BOOKSHELF

chestnut blight, dogwood anthracnose and beech bark disease on nursery stocks, late blight of potato, needle blight of pines caused by *Sphaeropsis sapinea*, and a ryegrass disease caused by *Gloeotinia termulanta* introduced with seed, the pandemic Dutch elm disease on wood, and *Rhizina undulata*, the cause of conifer root disease introduction into South Africa in infested soil. Beneficial accidental introduction of invasive mycorrhizal fungi into South Africa is also noted as permitting the development of pine and eucalypt forestry there. Most of these cases are well known to mycologists, but their associations with particular pathways present an unusual perspective that should enlighten the policy makers to whom the volume is targeted. So, too, their epidemiological notes and their emphasis on our lack of knowledge of 90% of fungal species should increase awareness of the importance of our discipline for securing environmental health. The authors' discussion on the potential of interspecific hybrids to form and infect new hosts and on improvement in methods

for the identification and tracking of potentially invasive organisms are points well made. Since there are no other papers on microorganisms included, the editors have used this chapter as a model for all, which may or may not be useful. Their recommendations for focusing on pathways of introduction – a general approach and conclusion of most of the papers – and their hopes for increases in funding in an era of increasing threats to agricultural and environmental health and stability by globalization of trade, increasing speed of transport and bioterrorism (recall, this conference was in 1999) display a prescience confirmed by later events.

Although this volume will be of limited value or interest to the general mycologist, it should find its way to the desks and shelves of bureaucrats, policy and lawmakers concerned with biosecurity issues,

— David Yohalem
East Malling Research
East Malling, Kent UK
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Recently Received Books

RECENTLY RECEIVED

- **100 Years of Fungal Biodiversity in Southern Africa.** 2006. P.W. Crous, M.J. Wingfield, B. Slippers, I.H. Rong, & R.A. Samson (eds.) Centraalbureau voor Schimmelcultures, P.O. Box 85167, Utrecht, The Netherlands, www.cbs.knaw.nl/publications/index.htm. *Studies in Mycology* 55: 1-305. Price: €65.00. *Reviewed in this issue.*
- **Taxonomy and Pathology of *Tognina* (Diaporthales) and its *Phaeoacremonium anamorph*.** 2006. L. Mostert, J.Z. Groenewald, R.C. Summerbell, W. Gams & P.W. Crous. Centraalbureau voor Schimmelcultures, P.O. Box 85167, Utrecht, The Netherlands, www.cbs.knaw.nl/publications/index.htm. *Studies in Mycology* 54: 1-115. Price: €55.00. *Reviewed in this issue.*
- **A Colour Atlas of Diseases of Lettuce and Related Salad Crops: Observation, Biology and Control.** 2006. First published 2003. D. Blancard, H. Lot, & B. Maisonneuve. Translated from French. Published by Academic Press. Available from APS Press, 3340 Pilot Knob Road, St. Paul, MN 55121, aps@scisoc.org. ISBN 978-0-12-372557-8. 376 p. Price: \$169.00. *Reviewed in Jul-Aug issue.*
- **Common Mushrooms of the Talamanca Mountain, Costa Rica.** 2005. R.E. Halling & G.M. Mueller. The New York Botanical Garden, 200th St. & Kazimiroff Blvd., Bronx, New York 10458-5126 USA, www.nybg.org/bcsi/spub, ISBN 0-89327-460-7. 195 pp. Price: \$19.95. *Review in progress.*
- **Diseases of Trees and Shrubs, Second Edition.** 2005. W.A. Sinclair & H.H. Lyon. Cornell University Press, P.O. Box Box 6525, Ithaca, NY 14851, www.cupserv.org, ISBN-13: 978-0-8014-4371-8. 660 pp. plus CD. Price: \$85.00. *Reviewed in Jul-Aug issue.*
- **Evolutionary Genetics of Fungi.** 2005. J. Xu (ed) Horizon Scientific Press, 270 Madison Ave. New York, NY 10016, email: spoonam@taylorandfrancis.com. ISBN 1-904933-15-7. 345 pp. Price: \$173.00. *Reviewed in Jul-Aug issue.*
- **Flora Agaricina Neerlandica. Volume 6.** 2005. M.E. Noordeloos, Th. W. Kuyper, & E.C. Vellinga. CRC Press, 6000 Broken Sound Parkway, NW, Suite 300, Boca Raton, FL 33487, orders@crcpress.com. ISBN 9-0541-0496-1, 310 pp. Price: \$59.95. *Requested from publisher.*
- **Forest Canopies (Second Edition).** 2004. M.E. Lowman & H.B. Rinker. Elsevier Academic Press, Burlington, MA 01803, www.elsevier.com, ISBN: 0-12-457553-6. 517 pp. Price: \$79.95. *Review in progress.*
- **The Fungal Community: Its Organization and Role in the Ecosystem, Third Edition.** 2005. J. Dighton, J.F. White, Jr. & P. Oudemans. CRC Press, 6000 Broken Sound Parkway, NW, Suite 300, Boca Raton, FL 33487, USA, email: orders@crcpress.com. ISBN 0-8247-2355-4, 936 pp. Price: \$139.95. *Requested from publisher.*
- **Fungal Flora of Taiwan, 1st Edition.** 2005. S.S. Tzean, W.H. Hsieh, T.T. Chang, S.H. Wu (eds). National Science Council, Department of Plant Pathology and Microbiology, National Taiwan University. One CD. For availability, contact the author.
- **Fungi: Experimental Methods in Biology.** 2005. R. Maheshwari. CRC Press, 6000 Broken Sound Parkway, NW, Suite 300, Boca Raton, FL 33487, orders@crcpress.com. ISBN 1-57444-468-9. 350 pp. Price: \$149.95. *Review in progress.*
- **Fusarium Mycotoxins: Chemistry, Genetics and Biology.** 2006. A.E. Desjardins. APS Press, 3340 Pilot Knob Road, St. Paul, MN 55121, aps@scisoc.org, www.shopapspress.org. ISBN: 09-89054-335-6. 268 pp. Price: \$89.00. *Review needed.*

PREVIOUSLY LISTED

- **Aflatoxin and Food Safety.** 2005. H.K. Abbas (ed). CRC Press, 6000 Broken Sound Parkway, NW, Suite 300, Boca Raton, FL 33487, orders@crcpress.com. ISBN 10: 0-8247-2303-1 (Hardcover). 587 pp. Price: \$178.95. *Review needed.*
- **British Fungus Flora 9/ Russulaceae: *Lactarius*.** 2005. R.W. Rayner, assisted by R. Watling & E. Turnbull. Print and Publications Section, Royal Botanic Garden Edinburgh, 20A Inverleith Row, Edinburgh EH3 5LR, United Kingdom, pps@rbge.org.uk. ISBN 1 872291 34 1 (Softcover). 203 pp. Price: British pounds 12.50 (excluding postage). *Review in progress.*

Continued on following page

MYCOLOGIST'S BOOKSHELF

- **The Genus *Gymnopilus* (Fungi, Agaricales) in the Czech Republic with Respect to Collections from Other European Countries.** 2005. J. Holec. Acta Musei Nationalis Pragae, Series B., Historia Naturalis 61: 1-52. Available from the author (jan.holic@nm.cz) or Myris Trade Company (myris.myris.cz).
- **Growing Gourmet and Medicinal Mushrooms, Third Edition.** 2000. P. Stamets. Ten Speed Press, Box 7123, Berkeley, CA 94797, www.tenspeed.com. ISBN-10: 1-58008-175-4, 574 pp. Price: \$45.00. *Review in progress.*
- **Handbook of Industrial Mycology.** 2005. Z. An. CRC Press, 6000 Broken Sound Parkway, NW, Suite 300, Boca Raton, FL 33487, orders@crcpress.com. ISBN 0-8247-5655-X, 784 p. Price: \$169.95. *Requested from publisher.*
- **Hypocreales of the Southeastern United States: An Identification Guide.** 2006. G.J. Samuels, A.Y. Rossman, P. Chaverri, B.E. Overton & K. Poldmaa. CBS Biodiversity Series 4. Centraalbureau voor Schimmelcultures, P.O. Box 85167, Utrecht, The Netherlands. www.cbs.knaw.nl/publications/index.htm. ISBN-10: 90-70351-59-5, 144 pp including 102 color plates. Price: €70.00. *Review in progress.*
- **The Identification of Fungi: An Illustrated Introduction with Keys, Glossary, and Guide to Literature.** 2006. F. Dugan. APS Press, 3340 Pilot Knob Road, St. Paul, MN 55121, aps@scisoc.org, www.shopapspress.org. ISBN 0-89054-336-4, 182 pp. Price: \$65.00. *Review in progress.*
- **An Illustrated Guide to the Coprophilous Ascomycetes of Australia.** 2005. Ann Bell. CBS Biodiversity Series 3. Centraalbureau voor Schimmelcultures, P.O. Box 85167, Utrecht, The Netherlands. www.cbs.knaw.nl/publications/index.htm. ISBN: 90-70351-580, 172 pp. including 32 black & white plates and 66 color plates. Price: €55.00. *Reviewed in Jul-Aug issue.*
- **Insect-Fungal Associations: Ecology and Evolution.** 2005. F.E. Vega & M. Blackwell (eds). Oxford University, Oxford, United Kingdom, www.oup.com/us, ISBN 0-19-516652-3, 333 pp. Price: \$49.50 (hardbound). *Review in progress.*
- **Introduction to Biodeterioration, Second Edition.** 2004. D. Allsopp, K. Seal & C. Gaylarde. Cambridge University Press, New York, NY, uk.cambridge.org/, 237 pp. Price: \$75.00 hardback, \$34.99 paperback. *Reviewed in Jul-Aug issue.*
- **The Missing Lineages. Phylogeny and Ecology of Endophytic and Other Enigmatic Root-associated Fungi.** 2005. Centraalbureau voor Schimmelcultures, P.O. Box 85167, Utrecht, The Netherlands. www.cbs.knaw.nl/publications/index.htm. Studies in Mycology 53: 1-262. Price: €55.00. *Review in progress.*
- **Monograph of the Genus *Hemileia* (Uredinales).** 2005. A. Ritschel. Bibliotheca Mycologica 200: 1-132. www.schweizerbart.de/pubs/series/bibliotheca-mycologica-59.html. ISBN 3-443-59102-7. Price: €55.00. *Review in progress.*
- **Mycelium Running. How Mushrooms Can Help Save the World.** 2005. P. Stamets. Ten Speed Press, Box 7123, Berkeley, CA 94797, www.tenspeed.com. ISBN-13: 978-1-58008579-3 (Paperback). 339 pp. Price: \$35.00. *Reviewed in this issue.*
- **MycoAlbum CD Introductory Mycology Laboratory Review.** 2006. G. Barron. For availability, contact the author: www.uoguelph.ca/~gbarron/. Over 1,000 illustrations. 2 CDs. US \$25 plus shipping and handling for professional biologists, US \$15 plus S & H for students. An Instructor's Version US \$35 plus S & H includes an image folder with over 600 downloadable images at 800 x 600 pixels for power point presentations. *Review in progress.*
- **Phylogenetic Relationships and Morphology of *Cytospora* Species and Related Teleomorphs (*Ascomycota*, *Diaporthales*, *Valsaceae*) from *Eucalyptus*.** 2005. G.C. Adams, M.J. Wingfield, R. Common & J. Roux. Centraalbureau voor Schimmelcultures, P.O. Box 85167, Utrecht, The Netherlands. www.cbs.knaw.nl/publications/index.htm. Studies in Mycology 52: 1-147. Price: €55.00. *Reviewed in May-June issue.*

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MYCOLOGICAL CLASSIFIEDS

Research Assistantships to Study Mycorrhizal Fungi

Research assistantships are currently available for two PhD students interested in studying the role of mycorrhizal fungi in carbon and nitrogen cycling in northeastern forests. This is a multidisciplinary project funded by NSF that will use established and novel techniques to measure carbon fluxes belowground and to mycorrhizal fungi along a nitrogen cycling gradient. Changes in the abundance and functions of ectomycorrhizal and arbuscular mycorrhizal fungi will be assessed along the gradient. These field results will then be used to improve PnET, a computer model that is used extensively for ecosystem management. One assistantship will be under Dr. Erik Hobbie at the University of New Hampshire in Durham, NH. It will focus on incorporating nitrogen and carbon stable isotope measurements, mycorrhizal fungi and organic nitrogen cycling into the PnET model. The second assistantship will be under Dr. Tom Horton at the State University of New York - College of Environmental Science and Forestry in Syracuse, NY. The SUNY-ESF position will focus

on the mycorrhizal fungal communities using microscopic and molecular methods. Other team members at UNH include Dr. Scott Ollinger (computer modeling), Dr. Ruth Varner (CO₂ fluxes) and Dr. Serita Frey (microbial processes). Both students will be exposed to all methods through annual team meetings and assistance as needed with various aspects of the project. Individuals with demonstrated experience aligned with the two positions will be considered strong candidates. Applicants should send a copy of their CV, a letter describing their research experiences and interests, and names and contact information for three references to Dr. Erik Hobbie (erik.hobbie@unh.edu) or Dr. Tom Horton (trhorton@esf.edu). Please use "Modeling/Isotopes" or "Mycorrhizal Community" in the subject line of your email to identify your primary interest. The project formally begins September 2006 but we may continue reviewing applicants through December 2006.

Faculty Position in Plant and Microbial Biology

The Institute of Plant and Microbial Biology, Academia Sinica, Taipei is enthusiastically inviting applications for two or more faculty positions in the research areas of 1) microbiology (including mycology, bacteriology and virology) related to plants, and 2) biochemistry, cellular biology and genetics of plants. These positions are at the level of Assistant Research Fellow (equivalent to Assistant Professor in universities), however applications for more senior levels are also welcome. Excellent facilities and starter grants will be provided for these positions. For details of the Institute and Academia Sinica, please visit the website at <http://ipmb.sinica.edu.tw/>. Applicants are expected to

have a PhD degree plus postdoctoral training. Chinese language skills are NOT required and international scientists are encouraged to apply. The application folder should include curriculum vitae, a statement of research accomplishments, and future research plans. The application folder and at least three letters of recommendation should be sent to Dr. Tuan-hua David Ho, Director, Institute of Plant and Microbial Biology, Academia Sinica, Academia Rd, Nankang, Taipei, Taiwan 11529. FAX: (+886)2-2782-1605, e-mail: thdh@sinica.edu.tw. The review of applications will start on Oct 1, 2006 until the positions are filled.

Mushroom Workshops Offered in Berkeley, California

The Jepson Herbarium at UC Berkeley offers 2 mushroom workshops in October. On October 7, Mo-Mei Chen will host a Marvelous Mushroom reunion to further discuss all aspects of growing medicinal mushrooms and includes a celebratory mushroom feast and banquet. On October 8th, Mo-Mei teaches more about medicinal fungi and herbs, especially those used in tradi-

tional Chinese medicine, and includes a field trip to visit herb stores in Oakland and San Francisco China towns. Registration and more information can be found at ucjeps.berkeley.edu/workshops/workshops_2006.html#oct7 or by contacting Cynthia Perrine at cperrine@berkeley.edu.

Mold Testing and Identification Services Available

Identification and contamination control for buildings, food technology, animal and plant diseases. ASTM & Mil-Spec testing for fungal resistance of materials. 10% discount for regular and sustaining MSA members. Please contact Steve Carpenter at

microbe@pioneer.net or voice mail at 541.929.5984. Surface mail send to Abbey Lane Laboratory, LLC, PO Box 1665, Philomath, OR 97370 USA. For more information see www.pioneer.net/~microbe/abbeylab.html

Book for Sale

Still available for sale, copies of the book: European Smut Fungi, for sale at half price (= Euro 100 + postal expenses). About the book: Vánky, K. 1994. European Smut Fungi, Gustav Fischer Verlag, hard cover, 570 pages, over 1000 illustrations. It

deals with the 400 known smut fungi (Ustilaginomycetes) of Europe belonging to 38 genera, and also further 70 species expected to occur in Europe. Those interested, please contact Dr. Vanky directly: VANKY.K@cityinfonetz.de

MYCOLOGY ON-LINE

Below is an alphabetical list of websites featured in *Inoculum* during the past 12 months. Those wishing to add sites to this directory or to edit addresses should email <rbaird@plantpath.msstate.edu>. **Unless otherwise notified**, listings will be automatically deleted after one year (at the editors discretion). * = New or Updated info (most recent *Inoculum* Volume-Number citation)

- Ascomycota of Sweden
www.umu.se/myconet/asco/indexASCO.html
- Australasian Mycological Society Website for Introductory Fungal Biology (53-4)
bugs.bio.usyd.edu.au/mycology/default.htm
- Authors of Fungal Names (54-2)
www.indexfungorum.org/AuthorsOfFungalNames.htm
- Bibliography of Systematic Mycology
www.speciesfungorum.org/BSM/bsm.htm
- British Mycological Society (54-1)
britmycolsoc.org.uk
- Collection of 800 Pictures of Macro- and Micro-fungi
www.mycolog.com
- Cordyceps Website
www.mushtech.org
- Corticoid Nomenclatural Database (56-2)
phyloinformatics.org
- Coverage in Ukraine of Higher Fungal Ranks (56-2)
www.cybertruffle.org.uk/lists/index.htm
- Cyberliber Mycological Publications (57-4)
www.cybertruffle.org.uk/cyberliber/index.htm
- Cybertruffle's Fungal Valhalla (56-2)
www.cybertruffle.org.uk/valhalla/index.htm
- 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
- Distribution Maps of Georgian Fungi (56-2)
www.cybertruffle.org.uk/gruzmaps/index.htm
- Distribution Maps of Ukrainian Fungi (56-2)
www.cybertruffle.org.uk/ukramaps/index.htm
- Electronic Library for Mycology (56-2)
www.cybertruffle.org.uk/cyberliber/index.htm
- Fun Facts About Fungi (55-1)
www.herbarium.usu.edu/fungi/funfacts/factindx.htm
- Funga Veracruzana (53-6)
www.uv.mx/institutos/forest/hongos/fungavera/index.html
- Index of Fungi
www.indexfungorum.org/names/names.asp
- ING (Index Nominum Genericorum) Database (52-5)
ravenel.si.edu/botany/ing/ingForm.cfm
- Interactive Key, Descriptions & Illustrations for *Hypomyces* (52-6)
nt.ars-grin.gov/taxadescriptions/hypomyces/
- Interactive Key to *Hypocreales* of Southeastern United States (57-2)
nt.ars-rin.gov/taxadescriptions/keys/HypocrealesSEIndex.cfm
- ISHAM: the International Society for Human and Animal Mycology
www.isham.org
- Libri Fungorum Mycological Publications (57-4)
194.203.77.76/LibriFungorum/Index.htm
- Mycologia On-Line (53-3, page 18)
www.mycologia.org
- Mycological Progress (52-3)
www.mycological-progress.com
- The Myconet Classification of the Ascomycota
www.fieldmuseum.org/myconet
- Mycosearch web directory/search engine (51-5)
www.mycosearch.com
- Mushroom World [new Korean/English site in 2001] (51-6)
www.mushworld.com
- NAMA Poison Case Registry (51-4)
www.sph.umich.edu/~kwcee/mpcr
- Plant-associated Fungi of Brazil (54-2)
nt.ars-grin.gov
(Select Search Fungal Databases, option 3, Host-Fungus Distributions)
- 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 Website
members.cox.net/mushroomsinart/
- Searchable database of culture collection of wood decay fungi (56-6, page 22)
www.fpl.fs.fed.us/rwu4501/index.html
- Species of Glomeromycota Website (55-3)
www.amf-phylogeny.com
- Systematics of the Saprolegniaceae (53-4)
www.ilumina-dlib.org
- Tripartite Similarity Calculator (55-1)
www.amanitabear.com/similarity
- U.S. National Fungus Collections (BPI)
Complete Mushroom Specimen Database (57-1, page 21)
www.ars.usda.gov/ba/psi/sbml
- 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

Event dates and descriptions (**bold**) precede event locations (*italic*), contacts (plain font), and Email/Websites (**bold**, no brackets). Those wishing to list upcoming mycological courses, workshops, conventions, symposia, and forays in the Calendar should submit material formatted as shown below and include complete postal/electronic addresses.

2007 (August 4-9)

MSA Meeting

Baton Rouge, Louisiana
Louisiana State University

NOTE TO MEMBERS:

If you have events to announce, please notify *Inoculum* editor Richard Baird at rbaird@plantpath.msstate.edu.

inoculum

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Fungal & Decay Diagnostics, LLC

Attn: Dr. Harold Burdsall, Jr.
9350 Union Valley Rd.
Black Earth, WI 53515-9798
United States
Email:
burdsall@fungaldecay@aol.com

Unicorn Imp. & Mfg. Corp.

Attn: Lou Hsu
P.O. Box 461119
113 Hwy. 24
Garland, TX 75040
United States
Ph: (972) 272-2588
Fax: (972) 272-8883
Email: unicornbag@aol.com

Novozymes Biotech, Inc.

Attn: Wendy Yoder
1445 Drew Ave.
Davis, CA 95616
United States
Email: wendy@wtynovozymes.com

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