inoculum

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Newsletter of the Mycological Society of America

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— Important Dates —

March 15, 2010
Deadline for submission to *Inoculum* 61(2)

February 15-19, 2010
Gondwanic Connections in Fungi Symposium
Bariloche, Argentina

June 28-July 1, 2010
MSA Meeting
University of Kentucky
Lexington, KY, USA

August 1-6, 2010
9th International Mycological Congress
Edinburgh, UK

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***Amanita* sp.**

Amanita sp. collected on the NAMA/GSMS 2009 foray in Lafayette, Louisiana. Photo by Ben Rauch. See p. 12 for more on the foray.

MSA BUSINESS

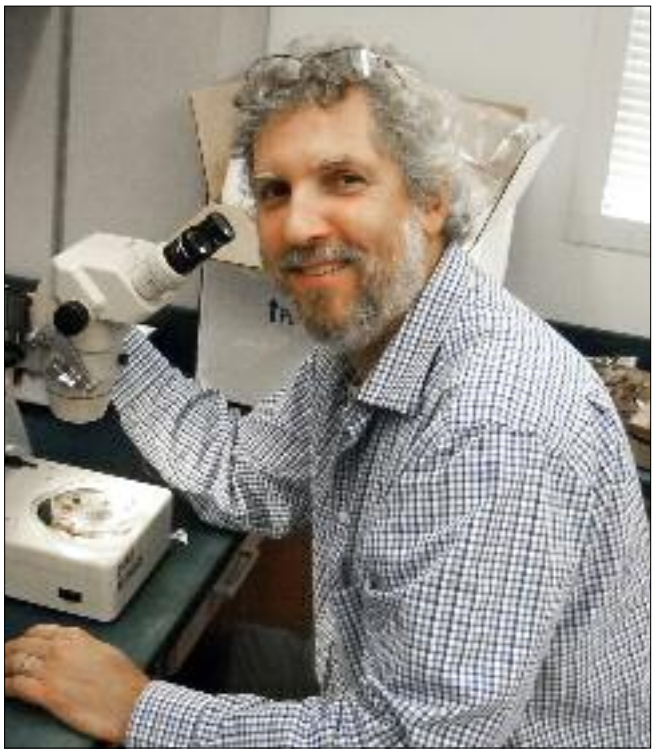
From the President's Corner . . .

Greetings and Happy New Year to everyone.

For many of us, winter is a time for retreating indoors, catching up on journals, teaching, writing, and planning for the coming year. Here in North Carolina, we're still finding a few fungi around the Duke Forest on New Year's Day, but by mid January we are already thinking about spring morels.

Like many other mycologists, I periodically receive inquiries about fungal identification from homeowners, growers, school kids, and such. Most of these inquiries involve routine mushroom identifications, common plant diseases, a ringworm infection, or a myxomycete invasion in someone's mulch bed. Often they come with photos, sometimes even specimens, making identification easier. Using the internet, we all check our identifications on line, or even obtain confirmation from expert colleagues via email.

Occasionally, I get specimens sent to me that defy identification. These photos show one such creature—a coralloid growth found blocking a municipal septic tank. I don't think it's fungal, though it certainly looks like some coral mushrooms. I suspect they might be modified aquatic plant roots, since the bladder like structures are composed of parenchymnatous cell-layer with attached 'root hairs' on their surface. Attempts to use plant-DNA primers failed, yet two separate attempts at PCR sequencing yielded the same nuclear LSU match (97%) to a hypocrealean ascomycete fungus called *Eucasphaeria capensis*. Strange indeed, especially since *E. capensis* was only recently described (Crous et al, 2007, Fungal Diversity 25:19-36). Of course, these DNA results only confirm that fungi are everywhere even if we cannot see them! In this instance, I'm still scratching my head to find out what this creature is. If you have any guesses, let me know.



Rytas Vilgalys, President

This is the season for MSA award nominations (due March 15). This is a great way to honor your colleagues, reward outstanding young mycologists, and support development of our field. Deadlines are approaching for abstract submission and travel awards for both the MSA Annual Meeting (http://www.ca.uky.edu/msaisfeg/) and the International Mycological Congress (http://www.imc9.info/). Please see the MSA website (www.msafungi.org) for more information.

Best regards to all,
Rytas

MSA Secretary's Email Express

MSA Council has completed one email poll since my last report, approving the following:

- MSA Full Council poll 2010-001: MSA Council approved the appointment of Jason Stajich as Councilor for Genetics/Molecular Biology to run from 2010 - 2011. Jason will replace the elected Councilor who was unable to serve his term.

Jessie Glaeser, Secretary
(Photo by Tom Volk)

New Members: It is my pleasure to extend a warm welcome to the following new (or returning) members. New memberships will be formally approved by the Society at the Annual Business Meeting at Lexington, KY in 2010.

United States: **Daniel Radabaugh, Scot Orland Rogers, Thomas E. Jones, Cedric Pearce**

France: **Philippe Reignault**

Mexico: **Alejandro Canale-guerrero**

Emeritus candidates: Dr. Ira F. Salkin of West Sand Lake, NY, has applied for Emeritus Status. He has been a member of MSA for 44 years. Emeritus status is conferred upon retired or retiring members who have at least 15 years of good standing in the Society.

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

Please do not hesitate to contact me about MSA Business or any questions that you may have about the Society. Please remember to renew your membership for 2010! In recent years we have suffered an alarming decline in membership and it would be wonderful to reverse this trend. The first step is for everyone who is currently a member to renew for the upcoming year. And don't forget to recommend MSA to your professional colleagues who are interested in fungi – be they pathologists, geneticists or ecologists. This is room in MSA for all!

Jessie A. Glaeser
MSA Secretary

MSA Officers 2009-2010

Executive Council

Rytas Vilgalys, *President (*2009–2010)
fungi@duke.edu
Thomas D Bruns, *President-Elect* (2009-2010)
pogon@berkeley.edu
David Hibbett, Vice President (2009-2010)
dhibbett@clarku.edu
Jessie A. Glaeser, *Secretary* (2009–2012)
msasec1@yahoo.com
Sabine Huhndorf, *Treasurer* (2007–2010)
shuhndorf@fieldmuseum.org
Roy E Halling, Past *President* (2008–2009)
rhalling@nybg.org

General Council

(Includes Executive Council listed above)
Don E Hemmes, *Past President* (2007–2008)
hemmes@hawaii.edu
Anthony Glen*, Councilor*
Cell Biology/Physiology (2009-2011)
anthony.glenn@ars.usda.gov
N Louise Glass, *Councilor*
Cell Biology/Physiology (2008–2010)
lglass@uclink.berkeley.edu
D Lee Taylor, *Councilor*
Ecology/Pathology (2008–2010)
fflt@uaf.edu
Tom Horton, *Councilor*
Ecology/Pathology (2009-2011)
trhorton@esf.edu
Georgiana May, *Councilor*
Genetics/Molecular Biology (2008–2010)
gmay@umn.edu
Jason Staljich*, Councilor*
Genetics/Molecular Biology (2010-2011)
jason.stajich@ucr.edu
Tim James, *Councilor*
Systematics/Evolution (2009-2011)
tyjames@umich.edu
Jean-Marc Moncalvo, *Councilor*
Systematics/Evolution (2008–2010)
jeanmarcm@gmail.com

MYCOLOGICAL SOCIETY OF AMERICA
CALL for NOMINATIONS for COUNCIL

- FOR THE UPCOMING YEAR THE MSA MEMBERSHIP WILL ELECT SIX NEW COUNCIL MEMBERS INCLUDING VICE PRESIDENT, SECRETARY AND FOUR COUNCILORS.
- PLEASE CONTRIBUTE BY NOMINATING A COLLEAGUE FOR ANY OR ALL OF THESE POSITIONS (LISTED BELOW) AS SOON AS POSSIBLE.

The candidate for each office who receives the greatest number of nominations from the membership will be contacted and, if willing to stand, placed on the spring ballot along with a candidate selected by the MSA Nominating Committee. The spring ballot will be available to all members at least three months prior to the society annual meeting to be held June 28 to July 1, 2010 at the University of Kentucky, Lexington KY USA.

These nominations and elections are important to the Society and you are strongly encouraged to participate.

Refer to the MSA home page at www.msafungi.org for a list of past and present Councilors and Officers.

Officers

VICE-PRESIDENT _____

SECRETARY _____

Councilors (all two year terms)

CELL BIOLOGY/PHYSIOLOGY _____

GENETICS/MOLECULAR BIOLOGY _____

SYSTEMATICS/EVOLUTION _____

ECOLOGY/PATHOLOGY _____

Thank you for your participation!

Please return your nominations by **February 15, 2010** to
MSA Vice President Tom Bruns by email, fax, or regular mail.

Dr. David Hibbett
Clark University
Biology Department
950 Main Street
Worcester, MA 01610 USA
Phone: 508-793-7332, Fax: 508-793-7174, Email: dhibbett@clarku.edu

MSA Awards 2010

Call for nominations and applications
Deadline: March 15th 2010
Please also visit the MSA website at www.msafungi.org and follow the link to Awards

For over 20 years the **Mycological Society of America** has been recognizing excellence in research, teaching and service among its membership by celebrating **Students**, **Teachers** and **Researchers**. This is your chance to do something for that promising student or deserving colleague. ***If you don't nominate them, they surely will not receive an award!***

MSA Awards Committees 2009-2010

Mycological Society Distinctions Committee
Awards administered: Distinguished Mycologist Award, Alexopoulos Prize, Weston Award for Excellence in Teaching
Chair: **Dr. Walter Sundberg**, 107 Cardinal Dr.Murphysboro, Il 62966-5255 USA; Phone: 618-684-6873, Email: sundberg.wj.407@verizon.net
Members: Joseph W Spatafora, spatafoj@science.oregonstate.edu; Alex Weir, aweir@mailbox.syr.edu; Linda Kohn, linda.kohn@utoronto.ca; James Kimbrough, *ex officio*, Past Chair

Honorary Awards Committee
Awards administered: MSA Fellows, Honorary Members
Chair**: Dr. James B. Anderson**, University of Toronto, Dept of Biology, 3359 Mississauga Rd North, Mississauga, ON L5L 1C6, Canada; Phone: (905) 828-5362, Fax (905) 828-3792, Email: jb.anderson@utoronto.ca
Members: Timothy J Baroni, baronitj@cortland.edu; Gregory Mueller, gmueller@chicagobotanic.org; Martha J Powell, *ex officio*, Past Chair

Student Awards Committee
Awards administered: MSA Graduate Fellowships (2), NAMA Memorial Fellowship, Backus Award
Chair: **Dr. Brian Perry**, Department of Biology, University of Hawai'i at Hilo, 200 W. Kawili St., Hilo, HI 96720, Phone: (808) 974-7363, Email: baperry@hawaii.edu
Members: Kentaro Hosaka, hosakak@gmail.com; John McKemy, john.mckemy@aphis.usda.gov ; Imke Schmitt, schm2109@umn.edu; Andrew Methven, *ex officio*, Past Chair

Mentor Travel Awards Committee
Awards administered: Mentor Student Travel Awards
Chair: **Dr. Juan L Mata**, University of South Alabama, Dept of Biology, LSCB 124, Mobile, AL 36688, United States; Phone: (251) 461-1750; Fax : (251) 414-8220; Email: jmata@usouthal.edu
Members: Peter Kennedy, pkennedy@socrates.berkely.edu; Todd Osmundson, tosmundson@nybg.org; Heather Hallen-Adams, hallenhe@msu.edu; József Geml, *ex officio*, Past Chair

Research Awards Committee
Awards administered: Martin-Baker Award, Clark T. Rogerson Student Research Award, Forest Fungal Ecology Research Award, Alexander H. and Helen V. Smith Research Award; John W. Rippon Research Award
Chair: **Dr. Michelle Seidl** Phone: (206) 604-4186 Email: seidl@comcast.net
Members: Thorsten Lumbsch, tlumbsch@fieldmuseum.org; Dennis Desjardin, ded@sfsu.edu; Teresa Pawlowska, Tep8@cornell.edu; Merlin White, merlinwhite@boisestate.edu; Terry Hill, *ex officio*, Past-Chair

Distinguished Mycologist Award

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 will be 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.
Application Deadline: March 15th

Requirements:
(1) The nominee must be a current member of MSA or eligible for emeritus membership.
(2) The nominee must have received his or her terminal degree at least twenty years prior to January 1 of the year in which the award is given. There is no requirement for a minimum age or impending or actual retirement. Honorary degrees shall not be considered in determining the time interval.
(3) An individual may receive the Distinguished Mycologist Award only once.
(4) Self nomination is not allowed.
(5) Nominators must be members of the MSA.
(6) Nominees who are not chosen for the award in the year in which they are nominated will be reconsidered for up to two additional years. The Distinctions Committee Chairperson will request updates of the nominee's materials.
Documents required: The nomination folder should contain:
(1) A nominating letter, including a detailed evaluation of the nominee's outstanding contributions to Mycology.
(2) A current curriculum vitae, including a list of the nominee's publications.
(3) Up to five additional letters of support.
To Apply: The nominator should a) prepare a single electronic file, preferably in pdf format, containing all of the items listed above and email it as an attachment; b) prepare as much as possible electronically in one email with attachments followed by FAX or hard copy of the non-electronic portions or c) submit all documents by FAX or mail and send all to the **Chair of the MSA Distinctions Committee.**
Note: The Chair of the Distinctions Committee will appoint ad hoc committee members in place of committee members whose major professor may be nominated for the award. The committee may choose to make more than one award or no award in a given year, if it is appropriate. Presentation of the award, a plaque, will take place at the awards ceremony during the Breakfast and Business Meeting at the annual meeting of the MSA. The recipient will be notified in time to plan to attend the presentation. The name of the winner of the award will be published in the annual meeting program and in *Inoculum*.

Alexopoulos Prize

Awarded annually to an outstanding mycologist early in their career. The nominees will be evaluated primarily on the basis of quality, originality, and quantity of their published work.
Application deadline: March 15th

Requirements:
(1) The nominee must be a current member of the MSA.
(2) Nominees must have received their last degree within the ten year period immediately preceding January 1st of the year in which the award is given.
(3) An individual may receive the Alexopoulos Award only once.
(4) Self nomination is not allowed.
(5) Nominators must be members of the MSA.
(6) Nominees who are not chosen for the prize in the year in which they are nominated will be reconsidered for up to two additional years (within the 10-year limit). The Distinctions Committee Chairperson will request updates of the nominee's materials.
Documents required: The nomination folder should contain:
(1) A nominating letter, including a detailed evaluation of the nominee's contributions to Mycology.

Continued on following page

(2) A current curriculum vitae, including a list of the nominee's publications.
(3) Reprints of the nominee's 5 most significant papers.
(4) Up to five additional letters of support.
Apply to: The nominator should a) prepare a single electronic file, preferably in pdf format, containing all of the items listed above and email it as an attachment; or b) prepare as much as possible electronically in one email with attachments followed by FAX or hard copy of the non-electronic portions; and send all to the **Chair of the MSA Distinctions Committee.** Reprints should be sent as separate attachments along with the pdf file or, if not available electronically; copies should be mailed separately to each member of the **Distinctions Committee**.
Note: The award consists of a plaque and a monetary award derived from either the annual interest on the principle deposited in the MSA Alexopoulos Fund or $1,000, whichever is greater. The committee may choose to make no award in a given year, if it is appropriate. Presentation of the award will take place at the awards ceremony during the Breakfast and Business Meeting at the annual meeting of the MSA. The recipient will be notified in time to plan to attend the presentation. The name of the winner of the award will be published in the annual meeting program and in *Inoculum*.

William H. Weston Award for Excellence in Teaching

Awarded annually to an outstanding teacher of mycology at the undergraduate and or graduate levels.
Application deadline: March 15th

Requirements:
(1) The nominee must be a current member of the MSA.
(2) An individual may receive the Weston Award only once.
(3) Self nomination is not allowed.
(4) Nominators must be members of the MSA.
(5) Nominees who are not chosen for the prize in the year in which they are nominated will be reconsidered for up to two additional years. The Distinctions Committee Chairperson will request updates of the nominee's materials.
Documents required: The nomination folder should contain: (1) A current curriculum vitae, including lists of a) courses taught in mycology, plant pathology or related areas, b) publications related to the teaching of mycology, c) teaching seminars, symposia or workshops given by the nominee to either lay or academic groups and, d) memberships on national, regional, state or local committees, panels, etc., on teaching.
(2) A list of graduate students with thesis titles, degrees and dates, publications, and current addresses (where known), or explanation for the absence of such.
(3) A statement from the nominee on teaching philosophy, i.e., what the nominee personally believes it takes to make an excellent teacher, what the nominee is trying to accomplish in teaching mycology, and how various teaching techniques and strategies help to accomplish this goal.
(4) A list of previous awards or recognition for outstanding teaching.
(5) Evaluation of the nominee's teaching, including a) solicited and unsolicited letters from students and colleagues who have taken or audited the nominee's courses, or been supervised by the nominee, b) course evaluation forms (or numerical summaries thereof) and c) any other information documenting teaching excellence.
Apply to: The nominator should a) prepare a single electronic file, preferably in pdf format, containing all of the items listed above and email it as an attachment; or b) prepare as much as possible electronically in one email with attachments followed by FAX or hard copy of the non-electronic portions; and send all to the **Chair of the MSA Distinctions Committee**. If not available electronically, supplemental material should be mailed separately to each member of the **Distinctions Committee**.
Note: The committee may choose to make no award in a given year, if it is appropriate. Presentation of the award, a plaque, will take place at the awards ceremony during the Breakfast and Business Meeting of the annual meeting of the MSA. The recipient will be notified in time to plan to attend the presentation. The name of the winner of the award will be published in the annual meeting program and in *Inoculum*.

MSA Fellow

Members of the MSA are encouraged to submit nominations for MSA Fellows to the Chair of the Honorary Awards Committee.
Guidelines:
1) MSA Fellows are to be selected from members who have completed at least 11 years of service after their Ph.D., with no upper limit.
2) MSA Fellows are members who are outstanding mycologists on the basis of one or more criteria: a solid record of mycological research, and/or successful teaching and development of teaching materials for mycology, and/or significant service to the Society. This is meant to recognize a core group of mid-career mycological achievers and outstanding MSA volunteers.
Deadline: March 15th
To nominate a deserving mycologist for this Award, please submit a one-page overview preferably as a pdf email attachment to the **Chair of the Honorary Awards Committee.**

Honorary Members

Members of the MSA are encouraged to submit nominations for MSA Honorary Members to the Chair of the Honorary Awards Committee.
Deadline: March 15th
Guidelines: (1) 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. (2) To nominate a mycologist who resides outside of the U.S. and Canada for this Award, please submit a brief curriculum vitae and three letters of support, preferably in a single pdf file, to the **Chair of the Honorary Awards Committee.**

Graduate Fellowships

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. These fellowships are intended as supplementary grants and may be used by the recipients in any way to further their graduate studies. They are awarded in addition to any fellowship or assistantship support from other sources.
Funds available: One award of $1000 and three awards of $2,000 each.
Application deadline: March 15th

Requirements for eligibility: Applicants must be (1) student members of the MSA, (2) candidates for the Ph.D. and (3) resident during the tenure of the fellowship in a university in Canada or the United States. Previous recipients of these fellowships are not eligible to apply. The NAMA Fellowship comes with the stipulation that the awardee prepare an article for *McIlvainea*.
Documents required 1) A cover letter addressing your eligibility including a statement that you have passed your qualifying exams (comprehensive, oral, preliminary, or their equivalent). 2) A curriculum vitae that includes a paragraph describing your training for the proposed work. 3) A detailed plan of study. [The text of this plan of study must be no longer than five pages including tables and figures, but not including references. Applications that include proposals exceeding the 5-page limit will not be considered. The text of this proposal should be single-spaced and printed in a regular sized font (10 cpi or 12 point). Suggestions for preparing this plan of study are provided below.] 4) Two letters of recommendation, one of which is from your supervisor or thesis advisor. Both referees must be members of MSA. We recommend that your supervisor's letter also address your eligibility based on candidacy. 5) Graduate school transcripts showing courses taken, grades received, student Social Security number and Student ID number. Photocopies are acceptable if signed by your supervisor, but at least one must be an official transcript obtained from your institution's Registrar.

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Your plan of study should include the following: 1) a 200- or 250-word Abstract; 2) an Introduction that explains what you want to do and why it is interesting or important; 3) a Methods section that convinces the reader that the project is feasible and describes how the study will be conducted; and 4) a Discussion section that explains preliminary results of your study (if any) and their significance. Be concise. Use section headings and double spacing between paragraphs to make your proposal easier to read.
To apply: Send one copy of your completed application, including all items listed above, in electronic format and preferably as a single pdf file, to the Chair of the Student Awards Committee. Confidential letters of reference and transcripts that are not available electronically should be sent, in quadruplicate by regular mail to **Chair of the Student Awards Committee.**
For a list of members of the Student Awards Committee and further contact information click here.
Note: The Chair will appoint an ad hoc member to replace any Committee member who has a student applying for a fellowship or who otherwise feels a conflict of interest. The successful applicants will be notified upon selection (usually within four weeks of the closing date for nominations) so that they may plan to attend the awards presentation at the annual meeting. Those applicants not notified within this time were not selected as awardees, but all applicants will be notified of their status. The stipends are awarded following confirmation that the applicants meet the requirements for eligibility.

Mentor Student Travel Awards

For the 2010 Joint Annual Meeting of MSA and ISFEC in Lexington, Kentucky (June 28-July 1). The mentor awards are given in the names of some of our famous mycological forbearers: C. J. Alexopoulos, A. Barksdale, H. Bigelow, M. Bigelow, E. Butler, W. C. Denison, H. M. Fitzpatrick, M. S. Fuller, R. Gilbertson, R. P. Korf, E. S. Luttrell, O.K. Miller Jr., J. R. Raper, H. D. Thiers, F. A. Uecker, and K. Wells.
Application deadline: March 15th

Requirements: Applicants (1) must be MSA student members or past student members who have been awarded the degree within one year of the annual meeting and (2) must be presenting a paper or poster at the meeting. Previous recipients may apply again; if applicant numbers are higher than the number of awards available, preference will be given to those who have won the award less than two times.
Documents required (four copies): 1) A cover letter requesting consideration for an MSA Mentor Student Travel Award. Provide telephone number and, if available, fax and email addresses, and include information on any past Mentor Travel Award(s). If matching funds are available from the applicant's institution, provide an address the committee can use to officially verify the receipt of an award. 2) Abstract of paper or poster (note which). 3) Curriculum vita. 4) A one page description of the research project including an explanation of how this award will further the applicant's research/study. 5) A letter of support from the applicant's major professor addressing the student's abilities and potential and briefly summarizing the student's current research. To assist the judging committee in making Mentor "assignments" to award winners, inclusion of comments regarding which Mentor(s) would be most appropriate for the student are welcome but not required.
To apply: Send your application as a single electronic file, preferably in pdf format, containing all documents listed above to the **Chair of the Mentor Travel Awards Committee.**

Martin-Baker Award

The award honors two respected teachers of mycology, both of whom had long and distinguished careers in mycology, and both of whom have faithfully served the Mycological Society of America in several capacities. It is awarded to a recent (within 5 years) Ph.D. mycologist for the support of new or ongoing research.

George W. Martin (b. 1886- d. 1971) (M.S. Rutgers University, 1915; Ph.D. University of Chicago, 1922) was associated with the Botany Department of the University of Iowa (Iowa City) from 1923 until his death in 1971. He served there as Professor, Head of the Department (1953 to 1955), and Emeritus Professor. After retirement in 1955 he was Visiting Professor for two years at the University of Illinois (Urbana), but then returned to the University of Iowa. Dr. Martin was world-reknown for his phylogenetic concepts of the fungi and related organisms and for his authoritative research and taxonomic treatments of the Myxomycetes and the Tremellales. He served as an officer of various scientific societies, was President of the Mycological Society of America (1944), was Editor-In-Chief of Mycologia (1950-1957), and was among the initial group honored by the Botanical Society of America with a Certificate of Merit (1956). In 1970 he received the Henry Allan Gleason Award from the New York Botanic Garden. Dr. Martin's infectious enthusiasm in teaching and research inspired students and colleagues alike. Of the 47 or more students who have received graduate degrees under his direction, at least 30 have achieved their doctorates. As his students will undoubtedly attest, Dr. Martin was a scholar who remained a man of learning, generosity, culture and a good friend.

Gladys E. Baker (M.S. University of Iowa, 1932; Ph.D. Washington University, St. Louis, 1935) taught at Vassar College from 1941 to 1961, and served 13 years as Chair of the Plant Science Department where she directed 3 graduate students. She offered the first course in medical mycology at seven women's colleges. She is a charter member of the Medical Mycological Society of the Americas and a fellow of A.A.A.S. From 1961 to 1973 she taught at the University of Hawaii, Manoa. There she supervised 13 graduate students for advanced degrees in both general and medical mycology. Students remember her as an effective and enthusiastic teacher, a scientist with the highest integrity, and a warm and caring friend. Fellow mycologists still admire her memorable work; the 21 illustrated plates in MacBride & Martin, THE MYXOMYCETES (1934): the Antarctic Lichens (1938) with C.W. Dodge; the nuclear behavior and monographic studies of the genus *Helicogloea*; and the cytology and ecology of microfungi.

The Award: As an underlying philosophy, the initiators of this fund would give preference to 1) support for good research by an individual in a small department, who, because of heavy teaching schedules, may find it difficult to attract major grant support 2) a recent (within the past five years) PhD mycologist and 3) research in areas of expertise related to the works of Drs. Martin and Baker and which includes a field component.

Grants should not be given for indirect costs, but should be applied directly to research needs. Funds are not to be awarded for travel to meetings, although research related travel may be supported, if adequately justified. This award is made directly to the individual and is not an institutional award.

Recipients of grant awards are expected to submit to the MSA Research Awards Committee a report of their use of grant funds and the results of their research efforts. The latter may be in the form of a reprint of a published work.

Funds available: approximately $2000
Application deadline: March 15th
Documents required: (1) Cover letter (2) Curriculum vita, with publication list and alternative support sources; and (3) Research proposal not to exceed three single-spaced pages.
Apply to: Send all items listed above in a single electronic file, preferably in pdf format, to the **Chair of the MSA Research Awards Committee.** A CD with the PDF file and a hard copy of the application would be appreciated as they may be useful in case there are problems with the electronic file. The application will be considered to have arrived once all electronic files have been received in working order by the Chair.

Clark T. Rogerson Student Research Award

The purpose of this award shall be 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.
Award Amount: $1000.
Application deadline: March 15th

Continued on following page

Documents required:
(1) Cover letter.
(2) Curriculum vitae.
(3) A description not to exceed three single-spaced pages of the research project, including an explanation of how this award will further the applicant's research.
A letter of support from the applicant's major professor or mentor addressing the student's abilities and potential and briefly summarizing the student's research and the appropriateness of the award.
To apply: Send all of the items listed above in a single electronic file, preferably in electronic format to the **Chair of the Research Awards Committee.** Confidential letters of reference may be submitted separately and directly from the referee to the Chair. A CD with the PDF file and a hard copy of the application would be appreciated as they may be useful in case there are problems with the electronic file. The application will be considered to have arrived once all electronic files have been received in working order by the Chair.

Forest Fungal Ecology Research Award

This award supports ecological studies of fungal interactions in old growth forests or other unique or endangered ecosystems.
Award Amount: $1000, approximately.

Proposals should address innovative approaches to examining fungal systems or interactions of individuals, or groups of fungi, with hosts or substrates in old growth forests or other sensitive ecosystems. Floristic and systematic studies will not be considered.
Eligibility: Applicants must be students working on their Masters or Ph.D. degrees or be recent recipients of a Ph.D. Honors theses for BA/BS degree students may be considered.
Documents required:
(1) Cover letter
(2) Proposal of not more than 6 single-spaced pages that includes the rationale for the study and the hypotheses to be tested, a detailed description of the site to be studied, methodologies to be used, description of the study design, including specifics on the time line to complete the proposal (generally one year), and a plan for dissemination of results.
(3) A letter of support from the major professor.
(4) Copy of the permit or letter requesting a permit if it is needed to work in a sensitive site.
Application deadline: March 15th
To apply: Send all items listed above in a single electronic file, preferably in pdf format to the **Chair of the Research Awards Committee.** Confidential letters of reference may be submitted separately and directly from the referee to the Chair. A CD with the PDF file and a hard copy of the application would be appreciated as they may be useful in case there are problems with the electronic file. The application will be considered to have arrived once all electronic files have been received in working order by the Chair.

Alexander H. and Helen V. Smith Research Award

Purpose – The primary purpose of the fund shall be 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.
Award Amount: approximately $1000

Criteria for Awarding Grants – Grants may be made available to members of the Mycological Society of America who are working actively on the taxonomy or floristics of the fleshy fungi, with the main emphasis on supporting high quality research. Professional and trained "amateur" (i.e. para-professional) mycologists are eligible and are encouraged to submit proposals. The individual should be at a point in their studies where having full access to Alex's material would advance the applicant's work. These grants are not intended for preliminary studies of possible lines of investigations.

Documents required – 1) a proposal indicating how the study of Alex's specimens and manuscripts would advance the applicant's work, 2) an estimated budget to cover all or part of the anticipated expenses (e.g. travel, per diem, copying, etc.) and 3) a current curriculum vitae.
Agreement of the Director of the University of Michigan Herbarium (or its successor as custodian for Alex's specimens and materials relating to them) to have the potential recipient(s) work there must be obtained before the grant is awarded. In the event there are no suitable applications requesting the utilization of Alex's collections for floristic or monographic studies, the Awards Committee, at its discretion, may award grants to support field work on the fleshy fungi of North America, or for other types of studies on the fleshy macrofungi of North America. If support for a field project is awarded to an applicant, duplicate/representative collections resulting from the field work are to be deposited at the University of Michigan Herbarium. Prior arrangement should be made with the Director of the Herbarium. Recipients of these grants-in-aid are asked to provide the University of Michigan Herbarium with copies of any publications that result from this support. A summary of activity should be forwarded to the Awards Committee in a timely manner. In compliance with Internal Revenue Service Regulations, the grant recipient must submit all original receipts of expenditures of grant funds to the Treasurer of the MSA. The receipt of documented expenditures by the Treasurer may be necessary before complete funding of the proposal will be made.
Application deadline: March 15th

To apply: Send all items listed above in a single electronic file, preferably in pdf format to the **Chair of the Research Awards Committee.** A CD with the PDF file and a hard copy of the application would be appreciated as they may be useful in case there are problems with the electronic file. The application will be considered to have arrived once all electronic files have been received in working order by the Chair.

John W. Rippon Research Award

This award supports graduate student research on medically important fungi and is open to M.S. and Ph.D. degree students.
Award Amount: $500, approximately, to be increased when the endowment increases
Application deadline: March 15
Eligibility: Applicants must be students working on their Masters or Ph.D. degrees. Student must be a current member of the MSA.
Proposals should address innovative approaches to studying medically important fungi, including those that cause mycoses, mycotoxicosis, mycoallergies, and mycetismus. Studies may be clinical in nature or may encompass various research areas, such as genetics, systematics, genomics, ecology, distribution, epidemiology, mechanisms of pathogenicity, life cycles, or other appropriate areas, as long as the emphasis of the study addresses the medical importance of the fungus.
Documents required:
(1) Cover letter
(2) Current CV, including career plans and a paragraph regarding training for the proposed work.
(3) Proposal of not more than 5 single-spaced pages that includes the rationale for the study and the hypotheses to be tested, a detailed description of the fungus to be studied, methodologies to be used, description of the study design, including specifics on the time line to complete the proposal (generally one year), and a plan for dissemination of results. Students are encouraged to present their results at a MSA meeting.
(4) Include description of how the proposed research will benefit the field of medical mycology.
(5) Two letters of support, one of which is from the major professor.
To apply: Send all items listed above in a single electronic file, preferably in pdf format to the **Chair of the Research Awards Committee**. Confidential letters of reference may be submitted separately and directly from the referee to the Chair. A CD with the PDF file and a hard copy of the application would be appreciated as they may be useful in case there are problems with the electronic file. The application will be considered to have arrived once all electronic files have been received in working order by the Chair.

Molecular Phylogenetics and Systematics of Fungi Workshop

Workshop on Molecular Phylogenetics and Systematics of Fungi. Oct. 5-9, 2009 INDICASAT-AIP, Ciudad de Saber, Panamá

Participants and coordinators of the 2009 workshop on molecular phylogenetics and systematics of fungi at INDICASAT-AIP, Panamá, including workshop leader Betsy Arnold (back row, far right); coordinators Magaly de Chial (back row, center) and Catherina Caballero (front row, second from right); and graduate assistant Mariana del Olmo (front row, far right).

The Isthmus of Panama is well known as a biodiversity hotspot for plants, insects, birds, mammals, and marine invertebrates. The rich forests that cover just over half of the land bridge connecting North and South America also are home to a tremendous richness of fungi. From polypores to endophytes and 'beetle belly yeasts' to ascomycetous pathogens of understory seedlings, the 'pioneer phase' of mycological exploration in Panama is turning up a wealth of taxa sure to expand the currently known mycota of the country (presently 1807 species in 646 genera) as quickly as mycologists can get there to survey major groups.

Of course not all mycologists in Panama come from abroad. The last three decades have seen a healthy growth of mycological research by Panamanian scientists, who in turn reflect the growing appreciation within Panama and beyond of the ecological importance and economic potential of fungi. Such interests were represented recently at a week-long workshop on molecular phylogenetics and systematics of fungi, led by Dr. Betsy Arnold (University of Arizona, http://arnoldlab.net) and coordinated by Drs. Catherina Caballero-George (INDICASAT-AIP, http://www.indicasat.org.pa/) and Magaly de Chial (University of Panama, http://www.up.ac.pa).

With support from Panama's national secretariat for science, technology, and innovation (SENACYT, http://www.senacyt.gob.pa/), the week-long, bilingual workshop provided an array of lectures and hands-on analysis exercises for a diverse group of 20 participants (80% women), including faculty and students from the national university's schools of Genetics, Biology, and Microbiology/Parasitology; the Smithsonian Tropical Research Institute, which is based in Panama; the Gorgas Memorial Institute (http://www.gorgas.gob.pa/); INDICASAT; and SENACYT.

Participants' diverse interests were served by a series of lectures by Betsy Arnold and guest presentations by Drs. Magaly de Chial, Carol Shearer (University of Illinois), Carlos Ramos (University of Panama), Oris Sanjur (STRI), and Oscar Puebla (STRI) on topics including modern perspectives on fungal diversity and taxonomy, methods used in systematics and environmental sampling, terminology and other practical aspects of phylogenetic analysis, barcoding and its philosophical and practical ramifications, and population genetics. Betsy also presented her work on endophytic fungi, giving special attention to the diversity, ecology, and systematics of endophytes associated with foliage of tropical trees and highlighting the contributions of graduate students Jana U'Ren, Michele Hoffman, and Mariana del Olmo Ruiz (Division of Plant Pathology and Microbiology, School of Plant Sciences, University of Arizona). Carol Shearer highlighted her work on aquatic fungi, showcasing studies by Huzefa Raja, Astrid Ferrer, and collaborators on the stunning morphology of aquatic Ascomycota and their phylogenetic relationships. Carol also gave participants an in-depth discussion of isolation methods for aquatic fungi as well as those from other substrates. In turn, Carlos Ramos and Magaly de Chial showcased their research programs, engaging participants in topics as diverse as yeast epigenetics and the microbial diversity of tropical freshwater lakes.

Continued on following page

In addition to lectures and informal interactions over coffee and lunch, participants engaged in an array of hands-on exercises. For example, in the lab participants extracted DNA and used PCR to amplify the internal transcribed spacer region from mycelia of sponge-associated fungi, collected from Panama's marine reserves by Catherina Caballero in her collaborative project with Betsy Arnold. As per the interests of the participants, though, much of the week focused on getting to know – and using – some of the many software applications currently employed in fungal diversity and systematics studies. From EstimateS and UniFrac to Geneious, Mesquite, TNT, and MrBayes, participants not only gained experience with the basic operations of each program, but also used real-life datasets to address real-life questions. In such efforts, they were assisted by Mariana del Olmo Ruiz (http://arnold-lab.net/marianadelolmo.html), who worked with Betsy to develop and adapt exercises for the course.

Reviews of the course were positive, with participants especially remarking on how this transference of knowledge will help Panamanian researchers make a better use of bioinformatics and phylogenetics tools, and will enhance local knowledge of the many recent advances in studies of fungal taxonomy, systematics, and ecology. All participants agreed that the activity fulfilled their expectations for hands-on and topical discussions, and enthusiasm was high throughout. Overall, the course provided a framework of links between collegial and engaging mycologists in Panama and those drawn from abroad by the considerable richness, and under-explored nature, of Panama's fungal diversity.

Submitted by

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Catherina Caballero George, Unidad de Farmacología Molecular y Farmacognosia, Instituto de Investigaciones Científicas y Servicios de Alta Tecnología (INDICASAT-AIP), Ciudad del Saber, Clayton, Edif. 219, Panamá, República de Panamá

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Xth International Fungal Biology Conference

The Xth International Fungal Biology Conference and the VIIIth Mexican Congress of Molecular and Cellular Biology of Fungi was held in Ensenada, Baja California, Mexico from Dec. 6-10, 2009. The meeting was organized by the faculty of the Department of Microbiology of the Center for Scientific Research and Higher Education (CICESE) of Ensenada, under the leadership of Salomon Bartnicki-Garcia. Other members of the local organizing committee included Ernestina Castro Longoria, Rufina Hernandez Martinez, Rosa R. Mourino Perez, and Meritxell Riquelme Perez. Together and with others they did huge amounts of behind-the-scenes work to make sure that the conference went smoothly.

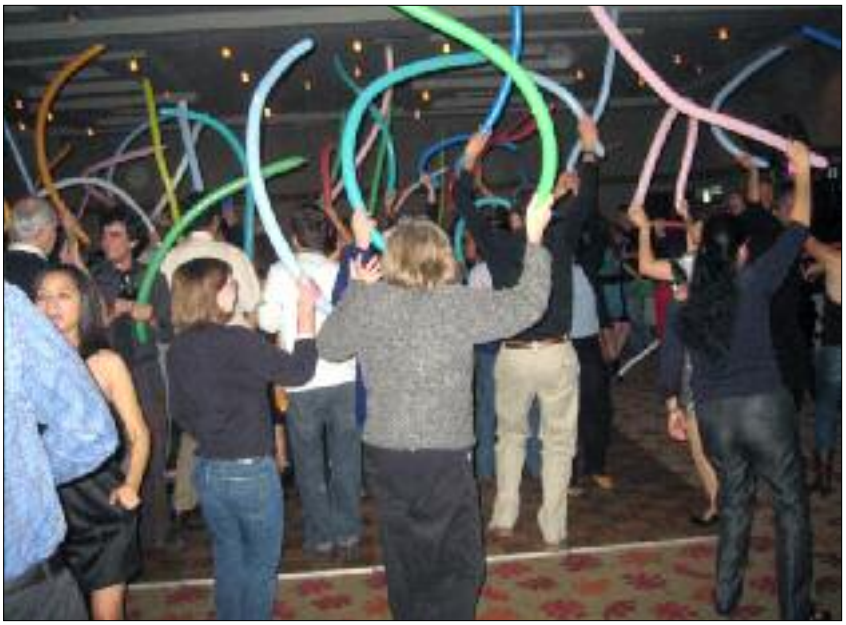

Fig 1. Dancing with balloons at the banquet.

The poster advertising the meeting and the conference abstract book were illustrated with the drawings of Sinsan Diego Slender, a budding paleoanthropomycologist, depicting the goddess "Neurocihuatl." To quote from the program book: Slender "made a sensational discovery in the caves north of Loreto, Baja California Sur. The details of this well preserved hieroglyph, dated ca. 1200 AC, reveal a surprising knowledge of filamentous fungi among ancient Mexicans. …Notable features are the shield decorated with a perithecium-like figure and bodies resembling asci and ascospores adorning her headpiece and face."

The meeting was kicked off with an excellent welcome party and Mexican buffet on the evening of Sunday Dec. 6th in the Ensenada Cultural Center. The following morning, Gordon Beakes (Newcastle University, U.K) gave a witty and thought provoking opening lecture entitled "Trivial pursuits: insights gained from a career studying unusual fungi."

Continued on following page

Fig.2. From left to right: Susan Kaminsky (Univ. Sasktachewan), Terry Hill (Rhodes College), Darlene Loprete (Rhodes College), Martha Powell (University of Alabama).

There followed a morning symposium on morphogenesis and cell biology and an afternoon session on signal transduction, while a terrible storm blew in from the Pacific, causing palm trees to bend, temperatures to drop, and the electricity to fail several times.

During the ensuing days, the weather improved and there followed excellent sessions on polarity and cytoskeleton, rhythms & photobiology, genome-wide approaches to studying nuclear dynamics, and fungus-host interactions. On Thursday, Dec. 8, 2009, Rosamaria Lopez-Franco (Monterrey, Mexico) gave a moving presentation on "Charles E. Bracker, Jr. The man, the teacher and the scientist" which was followed by several lectures on fungal structural biology in a "Charles Bracker Microscopy Symposium." On Friday, the final day of the conference, there were three back-to-back symposia on frontiers in fungal biology: fungal biotechnology, medical mycology and fungal research.

Nicholas Money ((Miami University, Ohio) gave the last symposium talk highlighting the fact that fungal spores demonstrate the fastest airborne acceleration ever recoded in nature and including a wonderful video of shooting fungal spores set to the rousing chords of the "Anvil Chorus" from Il Trovatore (Available on You Tube: http://www.youtube.com/watch?v=Y4n0b5rMqE0). The closing ceremony featured a somber overview talk by Stuart Brody (Univ. California – San Diego) who drew upon his long and distinguished career in microbiology to give perspectives on "The future of fungal biology." Based mainly on the small number of fungal biologists in the world, Brody predicted that fungal models would have a hard time making important basic contributions to biology in the way that *Neurospora crassa* had done for Beadle and Tatum's "one gene-one enzyme" theory. This generated a lively discussion in opposition to the prediction; the most cogent resistance to Brody's prediction was voiced by Michelle Momany (Univ. of Georgia, Athens).

Overall, the quality of the science and the speakers were exceptionally high and participants came away encouraged by the vibrancy of contemporary fungal cell biology. Because the research talks and the poster sessions were coupled with good food, good music, good drinks and warm hospitality – as well as a rousing last night banquet with dancing and a mariachi band — participants were all happy to have traveled to Ensenada. The only disappointment in the wonderful social program was that the promised appearance of the musical group Spitz & Korper was postponed until a future conference.

The conference received generous financial support from CONACYT (The National Council for Science and Technology of Mexico), CICESE and UNAM (National Autonomous University of Mexico). Mycologists internationally are grateful for their contributions.

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Fig.3. At fore from left to right: Ildiko Bartnicki, Joan Samson, Salomon Bartnicki-Garcia. Standing in the backbround: Peter Philipsen and Katsuhiko Kitamoto.

NAMA/GSMS Foray 2009

The NAMA/GSMS foray 2009 was held November 26-29 in Lafayette, Louisiana on the Gulf Coastal Plain. One hundred and ten participants from 28 states, as well as Puerto Rico, Quebec and France took part. Highlights included forays to Louisiana State Arboretum, Chicot State Park, Acadiana Nature Center, the Lake Martin property of the Nature Conservancy, Longfellow-Evangeline State Historic Site and the Heartwood-Antoinette DeBosier property, all in the Lafayette area. Identifications were made under the expert guidance of Co-Chief Mycologists Dr. Juan Luis Mata (University of South Alabama) and Dr. Clark Ovrebo (University of Central Oklahoma) with help from numerous other experts present. Although the species count was not high, 170 species and 9 lichens were collected, many tropical fungi seldom seen by Northerners were encountered, including *Auricularia polytricha, Cymatoderma caperatum*, *Fomes fasciatus*, *Hexagonia hydnoides*, *Microporellus dealbatus*, *Nigroporus vinosus*, *Polyporus tenuiculus*, *Pseudofavolus cucullatus*, *Trametes nivosa* and *Trametes menziesii.* Patrick Leacock, Chair of the NAMA Voucher Preservation Committee, says we added about 40 new records to the NAMA master species list, not bad considering our low total.

Presenters included Dr. M. Catherine Aime (LSU), Dr. Charles Allen (CO State), Dr. Meredith Blackwell (LSU), Dr. Bart Buyck (National Museum of Natural History, Paris, France), Jay Justice, Dr. Matthew Keirle (State College of FL), Dr. Harold Keller (Botanical Research Institute of TX), Dr. Patrick Leacock (Field Museum), Dr. D. Jean Lodge (USDA Forest Service Puerto Rico), Dr. Juan Luis Mata (U South AL), Dr. Andrew Methven (Eastern Illinois U), Dr. Clark Ovrebo (U of Central OK), John Plischke III, Ursula Pohl, Dr. Samir A. Ross (U of MS), David Rust, Ron Spinosa, Walt Sturgeon, Dr. Walter Sundberg (Southern IL U, Emeritus), Dr. Rodham Tulloss and Dr. Tom Volk (U of WI-LaCrosse). From "Evaluation of Fossil Myxomycetes in Amber" (H. Keller) to "AOK ID W/DNA PCR ASAP, LOL: Modern Methods in Mushroom Systematics (T. Volk), participants were treated to a wide spectrum of informative and entertaining presentations. The Mycophagy committee prepared an excellent feast featuring pickled, fried, sautéed and baked mushrooms. Many thanks to organizers David and Patricia Lewis for showing us a wonderful time in the heart of Cajun country.

Allison Walker
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Figure 1. Participants enjoying the foray on the Gulf Coastal Plain of Louisiana. Photo by David Lewis.

Figure 2. Presenters: Top Row L-R: Samir Ross, John Plischke III, David Lewis, Walter Sundberg, Jay Justice, Clark Ovrebo, D. Jean Lodge, Tom Volk, Patrick Leacock, Walt Sturgeon. Front Row L-R: Rodham Tulloss, Juan Luis Mata, Harold Keller, Ron Spinosa. Not pictured are presenters Charles Allen, Matthew Keirle, Ursula Pohl and David Rust. Photo by David Lewis.

Figure 3. Presenters L-R: M. Catherine Aime, Andrew Methven, Meredith Blackwell, Bart Buyck. Photo by David Lewis.

Introduction to Food and Air-Borne Molds

Date and Location 5-9 July 2010, Ottawa, Canada

Organized by the CBS Fungal Biodiversity Centre (Netherlands) and Eastern Cereal and Oilseed Research Centre, Research Branch, Agriculture and Agri-Food Canada.

More than 100 mold and yeast species common in indoor air and on food will be examined, including important species of *Penicillium, Aspergillus, Fusarium, Trichoderma, Cladosporium, Mucor, Rhizopus, Alternaria* and *Scopulariopsis*. This five day course is appropriate for those interested in food spoilage, indoor air quality, industrial hygiene, mycotoxins, pharmaceuticals, biodeterioration, etc. The course will be held on the campus of the University of Ottawa, a 10-15 minute walk from downtown Ottawa. The teaching laboratory has high quality compound and dissecting microscopes connected to state-of-the art digital cameras and imaging software. Students can capture digital images of the fungi they study and bring them back to their own lab using a portable USB storage device. Each participant will have their desktop computer with Internet access. The course fee is CDN$1800.

For more information visit http://www.indoormold.org/Courses/ottawa.htm or contact Keith A. Seifert (Seifertk@AGR.GC.CA) or Rob Samson (r.samson@cbs.knaw.nl).

Swimming Mushrooms: Fungi in the Marine Environment

August 2-13, 2010, Ocean Springs, MS. Come and learn about marine mycology on the Gulf of Mexico while earning college credits! This summer class is offered by the Gulf Coast Research Lab (GCRL) at The University of Southern Mississippi and accredited by the Southern Association of Colleges and Schools. Credits earned are transferred to students' home institutions upon course completion. Courses may be taken for undergraduate or graduate credit. This class may also be taken without credits and will benefit amateur mycologists, field biologists, and researchers who are interested in learning new skills for pursuing academic, career-related or independent studies of fungi.

This specialized course introduces marine fungi with an emphasis on collection, isolation and identification. The course will cover the taxonomy and systematics of obligate marine fungi and their morphological adaptations to the marine environment. Field work will include making collections from different habitats in the vicinity, including bayou salt marshes and barrier island beaches. Lab work will include techniques on how to prepare material for microscopic examination, and using morphological characters to identify marine fungi to genus and species level.

Prerequisites: 2 semesters Biology or permission of instructor; no previous knowledge or experience with marine fungi is necessary. Instructor: Dr. Jinx Campbell. 3 sem. hrs. credit. COA 490/590.

The Gulf Coast Research Laboratory <www.usm.edu/gcrl> is located in Ocean Springs, MS on the Gulf of Mexico between New Orleans, LA and Mobile, AL. For more information contact Jinx Campbell: jinx.campbell@usm.edu, 228-818-8878, or check out the GCRL Summer Field program website: www.usm.edu/gcrl/summer_field/c_marinefungi.php

Fleshy Fungi of the Highlands Plateau

July 26-August 7, 2010. Fleshy Fungi of the Highlands Plateau, Highlands Biological Station, Highlands, North Carolina.

The Southern Appalachian Mountains are world-renowned for their incredibly rich diversity of fleshy fungi. Participants will be introduced to the fleshy ascomycetes and basidiomycetes that occur on the Highlands Plateau during peak mushroom season. Emphasis will be placed on analysis of macro- and micromorphological features in the identification of taxa. The daily routine consists of morning lectures on systematics, ecology, and phylogeny of fleshy fungi followed by field trips until early afternoon. Collections will be examined and identified after returning from the field, providing an opportunity to assemble an impressive collection of fleshy fungi for classroom instruction and research. Housing is available at the station for $75-125 per week. The station does not serve meals but a fully equipped kitchen is available with grocery stores and restaurants available in town. Tuition is $525 for students from non-HBS member schools; $425 for students from HBS member schools. Three semester hours of advanced undergraduate credit is available from Western Carolina University or the University of North Carolina for $85. For additional information contact the instructor for the course, Dr Andrew Methven, Department of Biological Sciences, Eastern Illinois University, Charleston, IL 61920; phone (217) 581-6241; Email: asmethven@eiu.edu or Dr James Costa, Executive Director, Highlands Biological Station, 265 N. Sixth Street, Highlands, NC 28741; phone (828) 526-2602; Website: www.wcu.edu/hbs

Joint Annual Meeting of Five Leading Scientific Societies 2009

The Joint Annual Meeting of Five Leading Scientific Societies; Mycological Society of America, American Bryological and Lichenological Society, American Fern Society, American Society of Plant Taxonomists, Botanical Society of America, Snowbird, Utah July 25-30, 2009.

The MSA Annual Foray held on July 26 took us high (10,000 feet) into the Uinta Mountain Range (sometimes spelled Uintah and an Indian name pronounced u-went-tah. The location was within the Wasatch National forest and parked and had lunch at Moosehorn Lake against the backdrop of scenic rock formations and conifer forests. *Pinus contorta* (lodgepole pine) was the dominant species but *Picea engelmannii* (Engleman Spruce) and *Pseudotsuga menziesii* (Douglas fir) are common in this alpine above the treeline or subalpine habitat. Don Johnston of the Mushroom Society of Utah gave a brief description of the area and some foray participants hiked in the direction of Fehr Lake.

All of Tom Volk's photos from the 2009 MSA meeting can be found online at: www.flickr.com/photos/msafungi/.

Harold Keller
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Cortbase

Cortbase is an online database for nomenclatural information on corticioid (resupinate) fungi; a non-monophyletic assemblage of rather inconspicuous fungi distributed throughout the Basidiomycota. A new version of Cortbase, 2.1, is now available at http://andromeda.botany.gu.se/cortbase.html. It covers nearly 8700 species names, an increase of more than 300 since the last release. Particular care was taken to track down the location of type specimens in the herbaria worldwide to facilitate independent re-study. As a result more than a dozen new herbaria have been added to Cortbase. The present release should feature all corticioid fungi published since the last major release (in 2006) and incorporates the corrections and updates kindly provided to the authors by the mycological community in the last few years.

Erast Parmasto
Henrik Nilsson
Karl-Henrik Larsson

Robert K. Antibus on Sabbatical Leave

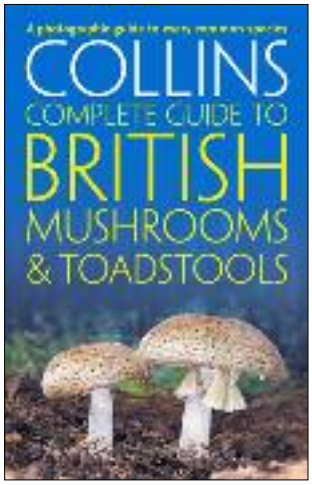
Dr. Robert K. Antibus is spending the 2009-2010 academic year on sabbatical leave from Bluffton University to work in the lab of Dr. Cathy L. Cripps at Montana State University, Bozeman, MT. Bob is working on various aspects of the ectomycorrhizal associates of whitebark pine (*Pinus albicaulis*) and limber pine (*P. flexilis*) with Cathy in the greater Yellowstone ecosystem. Both of these pines are threatened by assaults of white pine blister rust, mountain pine beetle and generally warmer climatic conditions. Bob's work will dovetail with Cathy's current projects on the ectomycorrhizal associates of these tree species by focusing on some of the physiological aspects of fungi that can be cultured.

While Bob is on sabbatical you can reach him via email at antibusr@bluffton.edu or CCripps@Montana.edu.

MYCOLOGIST'S BOOKSHELF

Two books are reviewed in this issue. Two new books have been received since the last Mycologist's Bookshelf. If you know of a newly published book that might be of interest to mycologists, please let me know so that I can request it. Amy.Rossman@ars.usda.gov.

Collins Complete Guide to British Mushrooms and Toadstools



Collins Complete Guide to British Mushrooms and Toadstools. 2009. Paul Sterry, Barry Hughes. Harper Collins, London. ISBN: 978-0-00723-224-6. 389 pages. Price: £16.99, ca. $28.00.

The Collins field guides are the most respected series of natural history handbooks in the United Kingdom filling a niche occupied by the Audobon guides in the United States. The relative abundance of different habitats, due to geology, latitude, and abundant coastline has resulted in Britain's high mycodiversity relative to its size. This new volume, a photographic guide to the macrofungi of Great Britain and, by extension, to northern temperate Europe, is replete with photographs (more than 1500) taken *in situ* of many of the common fungi one is likely to encounter in the UK and, indeed of much of the northern temperate world. In the introductory pages, the authors recommend foraying for fungi with a pocket mirror, so that one may visualize gills and pores without destroying the sporocarp, a rather innovative technique and a well-intentioned comment. Sad to say, in none of their photographs was this method used and few photographs illustrate gill or fine detail of sporophores; diagnostic macroscopic features for many species are not adequately illustrated. The authors selected their photos on the basis of both photogenic and illustrative criteria–goals that are frequently incompatible.

This lovely book, which is easily portable and visually pleasant to page through, fails as a guide to mushroom identification. Except for its significantly larger format, Michael Jordan's *Encyclopedia of the Fungi of Britain and Europe* (2004) listed at the same price is much better for diagnosis and also has photos of fungi *in situ* and in natural light. So, too, is Thomas Lassøe's *Mushrooms* (1997; £9.99), which indicate diagnostic features, including a synoptic list of microscopic characteristics and drawings or photos of the species *in situ* in addition to photos of collected specimens and includes a series of simple keys. It could be improved by an updated edition, but is a better guide for identification of the commonest macrofungi. Both Lassøe's and Jordan's books, as well as Roger Phillips' *Mushrooms* (2006; £20) include notes on edibility, which are mostly absent in the Collins guide. However well-intentioned, experience with amateur mycologists suggests that most become involved through a desire to find and safely consume wild fungi; neglecting this information obligates the novice to consult a second volume.

While common names that are truly common have found a certain utility even among professionals, most field guides that include them adopt names that are relatively idiosyncratic. There is, strange to say, a sanctioned list of common names for fungi in the UK. It is applied in Jordan's book and has seeped across the North Sea into Lassøe's volume. The Collins guide goes so far as to begin with a synoptic survey of 'main fungal genera and groups', identifying, for example: the Domecaps (*Calocybe* and *Lyophyllum)*; and the Brittlegills (most, but not all *Russula* spp. – both *R. emetica* and *R. nobilis* are identified as Sickeners, an accurate pragmatic *nomen,* while *R. vesca* is called the Flirt and *R. cyanoxantha* the Charcoal Burner). The regional idiosyncrasies of these names, while having their charm, also limit communication with those from other places. Imagine, for example, the confusion of a Francophone visitor learning that a Knight is a *Tricholoma* where a Cavalier is a *Melanoleuca*.

A nice feature of the book is a section on habitat in which prominent fungal associates are given. There are an informative four pages identifying woody substrata by leaf, bark, cones and fruit, and a series of one to two page photomontages of common fungi found in, or associated with, different types of hardwood forest, softwood plantations, meadows and grasslands, bogs, dung, sand dunes, burnt areas and wood chips. Overall, the volume follows modern taxonomic concepts and is nomenclaturally up-to-date. If one knows what one is doing it is a handy little volume; for the novice, the absence of diagnostic keys requires one to resort to 'picture book mycology' - thumbing through the volume, aimlessly looking at the pretty pictures. Don't get me wrong - they ARE pretty, but are they worth the price of admission? Sad to say: not at full retail.

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Phaeocollybia of Pacific Northwest North America

***Phaeocollybia* of Pacific Northwest North America.** 2009. Lorelei L. Norvell, Ronald L. Exeter. Bureau of Land Management, Salem, OR, 503-375-5646. 228 pp. plus over 500 colored photos. Price: $71.00.

Phaeocollybia is a genus in the Cortinariaceae that is relatively easy to recognize based on the rooting stipe and often viscid cap. It is found in North, Central and South America as well as Great Britain, Europe, Australia and Asia. Norvell and Exeter work in the Pacific Northwest of North America and this book focuses on the genus in that region. The regional focus is appropriate given that an estimated one third of the species are known from western North America, although it is possible that the species richness is influenced by the presence of the mycologists. The book is very well organized and a fine summary of exhaustive research by the authors. The first 21 pages introduce the reader to the global distribution, ecology and developmental biology of the genus. The next 15 pages summarize the taxonomy and phylogeny of the group as well as diagnostic characters and approaches for identifying the species. Two keys are provided, one based primarily on macrocharacters while the other uses microscopic characters. The bulk of the work consists of thorough descriptions of the 25 known Pacific Northwest (PNW) species. Each entry is based on the type descriptions and personal observations to include the variation found for the species. Photos of the fungi as well as line drawings are included. Descriptions cover morphological and diagnostic characters, ecology, relationship to similar species, additional comments, and references. The work also includes a complete reference list and glossary of terms.

The authors admit that there is no way to identify species of *Phaeocollybia* based on macrocharacters alone and include some microscopic characters (spores and cystidia) and even UV fluorescence in the macroscopic key. Syringaldazine is a useful diagnostic stain and is mentioned in the keys but apparently is never a critical diagnostic tool. While the authors give a source for a syringaldazine recipe, it would have been useful to provide the recipe itself. A phylotree is provided that is based on ITS rDNA restriction site data. As the authors suggest, generating sequence data is costly. However, with only 25 species, they could have generated an interesting dataset for the publication fairly rapidly and cheaply (I suspect there are labs that would help). If nothing else, submitting ITS sequences to GenBank would be especially useful for ecological studies involving below ground samples.

The many photos of the mushrooms are mostly taken in a field setting and are attractive. Other photos are used to illustrate a particular point and are extremely useful (microscopic characters, type of tapering in the pseudorhiza, ectomycorrhizal roots, etc.). I found the introductory material worth reading. I was interested that they documented the trophic status of the group showing several examples of species colonizing live roots in apparently ectomycorrhizal associations. I thank the authors for introducing me to tibiiform diverticula!

The authors clearly worked many hours in the field, lab and library studying their fungi and had the benefit of working on a genus with a limited number of species. They summarize their knowledge here with a scholarly work that is beautifully illustrated. It will certainly be useful to anyone who wishes to learn more about this interesting genus or who plans to conduct forays in the PNW.

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Recently Received Books

- **The Essentials of Clinical Mycology Study-NDMD. 2009 Edition.** Tien-ming Jen. National Defense Medical Center, Taipei. Softbound and Hardbound. Price: Unknown. Contact: Tien-ming Jen jongtian@ms39.hinet.net. ***Review needed.***
- **European Species of *Hypocrea* Part 1. The green-spored species.** Walter M. Jaklitsch. Centraalbureau voor Schimmelcultures, P.O. Box 85167, Utrecht, The Netherlands, www.cbs.knaw.nl/publications/index.htm. Studies in Mycology 63: 1-93. Price: €90.00. ***Review needed.***

Previously Listed Books

- **Advances in Mycorrhizal Science and Technology.** 2009. D.P. Khasa, Y. Piché, & A. P. Coughlin (eds.). CABI Wallingford, Oxfordshire, UK, **orders@cabi.org**, ISBN: 978-1-84593-586-3, ca. 200 pp. Price: €90.00, US $89.98. *Requested from publisher.*
- **Applied Mycology.** 2009. M. Rai & P.D. Bridge (eds.). CABI Wallingford, Oxfordshire, UK, **orders@cabi.org**, ISBN: 978-1-84593-534-4, 336 pp. Price: €135.00, US $170.00. *Requested from publisher.*
- **Atlas of Wood Decaying Fungi.** 2009. Y. Stacheva, S. Bencheva, T. Pavlidis, M. Illeva. Pensof Publishers. ISBN-13: 978-9-546424-68-6 . 349 pp. Price: £91.00. *Requested from publisher.*
- **Biodiversity and ecology of lichens.** 2009. André Aptroot, Mark R.D. Seaward, Laurens B. Sparrius (eds.). J. Cramer, Berlin www.schweizerbart.de. ISBN: 978-3-4443-58078-0, Biblioteca Lichenologica 99: 1-439. Price: €89.00. *Reviewed in Nov.-Dec. 2009.*
- **Biodiversity of the Powdery Mildew Fungi (Erysiphales, Ascomycota) of Israel.** 2009. Svetlana O. Voytyuk, Vasyl P. Heluta, Solomon P. Wasser, Eviatar Nevo, & Susumu Takamatsu. Paul A Volz (ed.). A.R.G. Ganter Verlag K.B.G. ISBN: 978-3-90616-674-2. 290 pp. Price: €89.00. *Requested from publisher.*
- **Black fungal extremes.** 2008. G.S. de Hoog, M. Grube (eds.). Centraalbureau voor Schimmelcultures, P.O. Box 85167, Utrecht, The Netherlands, www.cbs.knaw.nl/publications/index.htm. Studies in Mycology 61: 1-194. Price: €60.00. ***Review needed.***
- **Checklist of the Lichens and Lichenicolous Fungi of Greece**. 2009. Bernard F. Abbott. Available from Koeltz Scientific Books, **koeltz@t-on-line.de**. Bibliotheca Lichenologica 103: 1-368. Price: Unknown. ***Review needed.***
- **Collins Complete Guide to British Mushrooms and Toadstools.** 2009. Paul Sterry, Barry Hughes. Harper Collins. ISBN: 978-0-00723-224-6. Price: ca. $28.00. *Reviewed in this issue.*
- ***Cortinarius* in Sweden, Edition 11.** 2008. Karl Soop. http://karl.soop.org/English/mycopub.html. ISBN: 978-9197480-0-376, 156 pp. plus colored plates. Price: ca. $129.00. *Requested from publisher.*
- **Diversity of Lichenology – Anniversary Volume.** 2009. Arne Thell, Mark R.D. Seaward, Tassilo Feuerer (eds.). Scheizerbart'sche Verlagsbuchhandlung, **www.schweizerbart.de**. ISBN 978-3-443-58079-7, Bibliotheca Lichenologica 100: 1–512. Price: €124. ***Review needed.***
- **Essential Plant Pathology, Second Edition.** 2010. Gail L. Schumann, Cleora J. D'Arcy. APS Press, 3340 Pilot Knob Road, St. Paul, MN 55121, **www.shopapspress.org**. ISBN: 978-0-89054-381-9. 369 pp plus CD. Price: $89.95**.** *Review in process.*
- **Fungi from Different Environments.** 2009. J.K. Misra, S.K. Deshmukh (eds.). Science Publishers, Enfield, New Hampshire, **sales@scipub.net**. Progress in Mycological Research vol. 1. ISBN: 978-1-57808-578-1. 393 pp. Price: $109.00. ***Review needed.***
- **The Lichens of Great Britain and Ireland.** 2009. C.W. Smith, A. Aptroot, B.J. Coppins, A. Fletcher, O. Gilbert, P.W. James, P.A. Wolseley (eds.). British Lichen Society, London, UK. ISBN: 978-0-9540418-6-5. 1046 pp. Price: Unknown. *Requested from publisher.*
- **Malaysian Fungal Diversity.** 2007. E.B. Gareth Jones, Kevin D. Hyde, Vikineswary Sabaratnam (eds.). Mushroom Research Centre, University of Malaya, and Ministry of Natural Resources and Environment Malaysia, Kuala Lumpur, **ketua_isb@um.edu**, ISBN: 978-9-83208-593-5. 421 pp. Price: unknown. ***Review needed.***
- **Methods for Working with Macrofungi. Laboratory Cultivation and Preparation of Larger Fungi for Light Microscopy.** 2009. Heinz Clémençon. IHW-Verlag, Eching. ISBN: 978-3-93016-773-9. 82 pp. plus 33 figs. and 18 pl. Price: CHF38.00. *Requested from publisher.*
- **Microbial Toxins: Current Research and Future Trends.** 2009. Thomas Proft (ed.) Caister Academic Press, Caister, Norfolk, UK, www.caister.com. ISBN 978-1-904455-44-8. 192 pp. Price: $310.00. *Review in progress.*
- **Microstructures of Vegetative Mycelium of Macromycetes in Pure Cultures.** 2009. Asya Buchalo, Oksana Mykchaylova, Margarita Lomberg & S.P. Wasser. Paul A Volz & Eviator Nevo (eds.). 120 pp. plus 100 pl. Price: Unknown. *Review in progress.*
- **Milk Mushrooms of North America. A Field Identification Guide to the Genus *Lactarius*.** 2009. Alan E. Bessette, David B. Harris, Arleen R. Bessette. Syracuse University Press, www.syracuseuniversitypress.syr.edu/fall-2009/milk-mushrooms.html. ISBN: 978-9-8156-3229-0. Price: $110.00. *Review in progress.*
- **Molecular Plant-Microbe Interactions.** 2009. K. Bouarab, N. Brisson (eds.), Oxford University Press, Oxfordshire, UK, **www.oup.com**. ISBN: 978-1-84593-574-0. 352 pp. Price: $170.00. *Requested from publisher.*
- **Mushrooms of the Pacific Northwest.** 2009. Steve Trudell, Joe Ammirati. Timber Press, www.timberpress.com. ISBN: 978-0-88192-935-5. 352 pp. plus 530 color photos, 22 line drawings. Price: $27.95. *Reviewed in Nov.-Dec. 2009.*
- **Naming Nature: The Clash Between Instinct and Science.** 2009. Carol Kaesuk Yoon. W. W. Norton & Company, Inc., 500 Fifth Avenue, New York, NY 10110, www.wwnorton.com. ISBN 978-0-393-06197-0. 344 pp. Price: $29.95. *Reviewed in Nov.-Dec. 2009 issue.*
- ***Phaeocollybia* of Pacific Northwest North America.** 2009. Lorelei L. Norvell, Ronald L. Exeter. Bureau of Land Management, Salem, OR, 503-375-5646. 228 pp. plus over 500 colored photos. Price: $71.00. *Reviewed in this issue.*
- **Plant Pathology. Concepts and Laboratory Exercises, Second Edition.** 2008. Robert N. Trigiano, Mark T. Windham, Alan S. Windham (eds.). CRC Press, Boca Raton, FL 33487, www.crcpress.com. ISBN 13:978-1-4200-4669-4. 558 pp. plus CD. Price: £42.99. *Review in progress.*
- **Revision of the corticolous *Opegrapha* species from the Paleotropics.** 2009. Damien Ertz. Scheizerbart'sche Verlagsbuchhandlung, **www.schweizerbart.de**. ISBN 978-3-443-58081-0, Bibliotheca Lichenologica 102: 1–176. Price: €73. ***Review needed.***
- **Symbiotic Fungi.** 2009. Ajit Varma, Amit C. Karkwal. Springer, **www.springer.com**. ISBN: 978-3540958932. Soil Biology 18: 1–430. Price: £128.25. *Requested from publisher.*

TAKE A BREAK

Cookery Corner

Gourmet Mushroom Risotto

Printed from Allrecipes.com

Prep Time: 20 Minutes
Cook Time: 30 Minutes
Serves: 6

INGREDIENTS

6 cups chicken broth, divided
3 tablespoons olive oil, divided
1 pound portobello mushrooms, thinly sliced
1 pound white mushrooms, thinly sliced
2 shallots, diced
1 1/2 cups Arborio rice
1/2 cup dry white wine
sea salt to taste
freshly ground black pepper to taste
3 tablespoons finely chopped chives
4 tablespoons butter
1/3 cup freshly grated Parmesan cheese

DIRECTIONS

(1) In a saucepan, warm the broth over low heat.

(2) Warm 2 tablespoons olive oil in a large saucepan over medium-high heat. Stir in the mushrooms, and cook until soft, about 3 minutes. Remove mushrooms and their liquid, and set aside.

(3) Add 1 tablespoon olive oil to skillet, and stir in the shallots. Cook 1 minute. Add rice, stirring to coat with oil, about 2 minutes. When the rice has taken on a pale, golden color, pour in wine, stirring constantly until the wine is fully absorbed. Add 1/2 cup broth to the rice, and stir until the broth is absorbed. Continue adding broth 1/2 cup at a time, stirring continuously, until the liquid is absorbed and the rice is al dente, about 15 to 20 minutes.

(4) Remove from heat, and stir in mushrooms with their liquid, butter, chives, and parmesan. Season with salt and pepper to taste.

MYCOLOGICAL CLASSIFIEDS

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MYCOLOGY ON-LINE

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

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

Ascomycota of Sweden
www.umu.se/myconet/asco/indexASCO.html

Bibliography of Systematic Mycology
www.speciesfungorum.org/BSM/bsm.htm

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

Collection of 800 Pictures of Macro- and Micro-fungi
www.mycolog.com

Cordyceps Website
www.mushtech.org

Cornell Mushroom Blog (58-1)
hosts.cce.cornell.edu/mushroom_blog/

Cortbase (58-2)
andromeda.botany.gu.se/cortbase.html

Corticoid Nomenclatural Database (56-2)
www.phyloinformatics.org/

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

Cyberliber, a digital library for mycology (59-3).
www.cybertruffle.org.uk/cyberliber

Cybernome provides nomenclatural and taxonomic information about fungi and their associated organisms, with access to over 548,000 records of scientific names (59-3).
www.cybertruffle.org.uk/cybernome

Dictionary of The Fungi Classification
www.indexfungorum.org/names/fundic.asp

Distribution Maps of Caribbean Fungi (56-2)
www.biodiversity.ac.psiweb.com/carimaps/index.htm

Entomopathogenic Fungal Culture Collection (EFCC)
www.mushtech.org

Fun Facts About Fungi (55-1)
www.herbarium.usu.edu/fungi/funfacts/factindx.htm

Fungal Environmental Sampling and Informatics Network (58-2)
www.bio.utk.edu/fesin/

Fungi of Ecuador
www.mycokey.com/Ecuador.html

German Mycological Society DGfM
www.dgfm-ev.de

HighWire Press (58-3)
mycologia.org

Humboldt Institute — Located on the eastern coast of Maine, the institute is known for the extensive series of advanced and professional-level natural history science seminars it has offered in Maine since 1987, along with ecological restoration seminars and expeditions to the neotropics. It publishes the *Northeastern Naturalist* and *Southeastern Naturalist*, two scholarly, peer-reviewed, natural history science journals which provide an integrated publishing and research resource for eastern North America, including eastern Canada. 59(4)
www.eaglehill.us
www.eaglehill.us/programs/nhs/natural-history-seminars.shtml
www.eaglehill.us/nena
www.eaglehill.us/sena
www.eaglehill.us/jona

Hysteriaceae & Mytilinidiaceae — Website relating to the taxonomy of the Hysteriaceae & Mytilinidiaceae (Pleosporomycetidae, Dothideomycetes, Ascomycota) to facilitate species identification using a set of updated and revised keys based on those first published by Hans Zogg in 1962. 59(4)
http://www.eboehm.com/

Index of Fungi
www.indexfungorum.org/names/names.asp

Interactive Key to *Hypocreales* of Southeastern United States (57-2)
nt.ars-grin.gov/sbmlweb/fungi/keydata.cfm

ISHAM: the International Society for Human and Animal Mycology
www.isham.org

JSTOR (58-3)
jstor.org

Libri Fungorum Mycological Publications (58-3)
194.203.77.76/LibriFungorum/

Mold Testing and Identification Services (58-2)
www.pioneer.net/~microbe/abbeylab.html

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

Mountain Justice Summer (58-3)
www.MountainJusticeSummer.org

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

MycoKey
www.mycokey.com

The Myconet Classification of the Ascomycota
www.fieldmuseum.org/myconet

Northeast Mycological Federation (NEMF) foray database (58-2)
www.nemfdata.org

Pacific Northwest Fungi — A peer-reviewed online journal for information on fungal natural history in the Pacific Northwest (Alaska, British Columbia, Idaho, Montana, Oregon and Washington), including taxonomy, nomenclature, ecology, and biogeography.
www.pnwfungi.org/

Pleurotus spp.
www.oystermushrooms.net

Rare, Endangered or Under-recorded Fungi in Ukraine (56-2)
www.cybertruffle.org.uk/redlists/index.htm

Registry of Mushrooms in Art
members.cox.net/mushroomsinart/

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

Searchable database of culture collection of wood decay fungi (56-6)
www.fpl.fs.fed.us/rwu4501/index.html

Small Things Considered.
A microbe blog on microbes in general, but carries occasional pieces specifically on fungi.
schaechter.asmblog.org/schaechter/

Species of Glomeromycota Website (55-3)
www.amf-phylogeny.com

Tree canopy biodiversity project University of Central Missouri (58-4)
faculty.cmsu.edu/myxo/

Tripartite Similarity Calculator (55-1)
www.amanitabear.com/similarity

The TRTC Fungarium (58-1)
bbc.botany.utoronto.ca/ROM/TRTCFungarium/home.php

U.S. National Fungus Collections (BPI)
Complete Mushroom Specimen Database (57-1)
www.ars.usda.gov/ba/psi/sbml

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

Website for the mycological journal Mycena (56-2)
www.mycena.org/index.htm

Wild Mushrooms From Tokyo
www.ne.jp/asahi/mushroom/tokyo/

CALENDAR OF EVENTS

NOTE TO MEMBERS:

Those wishing to list upcoming mycological courses, workshops, conventions, symposia, and forays in the Calendar of Events should include complete postal/electronic addresses and submit to *Inoculum* editor Jinx Campbell at jinx.campbell@usm.edu.

February 15-19, 2010
Gondwanic Connections in Fungi Symposium
Bariloche, Argentina
www.sccongress2010.com.ar

June 28-July 1, 2010
MSA Meeting
University of Kentucky
Lexington, KY, USA

July 5-9, 2010
Introduction to Food and Air-Borne Molds — a course in fungal identification
Ottawa, Canada
http://www.indoormold.org/Courses/ottawa.htm

July 26-August 7, 2010
Fleshy Fungi of the Highlands Plateau
Highlands Biological Station, NC
www.wcu.edu/hbs

August 1-6, 2010
9th International Mycological Congress (IMC9)
Edinburgh, UK
http://www.imc9.info/

August 2-13, 2010
Swimming mushrooms: fungi in the marine environment
Ocean Springs, MS
www.usm.edu/gcrl/ summer_field/c_marinefungi.php

2011 MSA Meeting
University of Alaska
Fairbanks, AK, USA

2011 UMS Congresses
XIII International Congress of Mycology
Sapporo, Japan

REMINDER: MSA Directory Update

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

The Mycological Society of America Sustaining Members 2009

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inoculum

The Newsletter of the Mycological Society of America

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Inoculum is published six times a year in even numbered months (February, April, June, August, October, December). Submit copy to the Editor by email as attachments, preferably in MS Word. If you submit pictures, these need to be sent as separate JPGS or GIFFS, not embedded in the word document. The Editor reserves the right to edit copy submitted in accordance with the policies of *Inoculum* and the Council of the Mycological Society of America.

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AREAS OF INTEREST

Mark most appropriate area(s)

____ **Cell Biology – Physiology**	(including cytological, ultrastructural, metabolic regulatory and developmental aspects of cells)
____ **Ecology – Pathology**	(including phytopathology, medical mycology, symbiotic associations, saprobic relationships and community structure/dynamics)
____ **Genetics – Molecular Biology**	(including transmission, population and molecular genetics and molecular mechanisms of gene expression)
____ **Systematics – Evolution**	(including taxonomy, comparative morphology molecular systematics, phylogenetic inference, and population biology)

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