

Newsletter of the Mycological Society of America

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April 18-19, 2009

Mid-Atlantic Mycological Conference (MASMC)
Systematic Mycology and Microbiology Laboratory,
Beltsville, MD

May 15, 2009

Deadline for submission to *Inoculum* 60(3)

May 25-29, 2009

ISHAM congress
Tokyo, Japan

May 31-June 4, 2009

14th International Sclerotinia Workshop
North Carolina State University, Wilmington, NC

July 25-30, 2009

MSA Meeting with Botanical Society of America
Snowbird, UT

September 20-25, 2009

X National Congress of Mycology of Mexico
Guadalajara, Jalisco, Mexico

November 15-19, 2009

Asian Mycological Congress (AMC2009)
& XIth International Marine and Freshwater Mycology
Symposium (IMFMS)
National Museum of Natural Science, Taichung, Taiwan

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Polypore Mycoparasitism in the Tropics — An Easy Life

Mycoparasites growing over and into pore surfaces of bracket fungi are not uncommon in the northern forests, and so during my first collecting trip to Puerto Rico in 1975, little thought was given to the commonly occurring white mycelial fans growing beneath polypores. On a second trip, each fungus was photographed. In peering through the camera very closely at one of the fans, I suddenly realized that a narrow gap completely separated the parasite from the pore surface above. Unlike their northern counterparts, these fans were not at all intrusive into the pores of the host, and from all appearances, were causing little or no direct damage. After a disturbance, usually a rain storm, the fans would simply fall away and hang from the attachment point where they first emerged from the substrate. One can hardly imagine a more delicate form of parasitism.

The growth patterns of the parasites varied depending on their point of origin relative to the pore surface. Often they grew as circular fans that spread beneath the pore surface like an inverted umbrella (Fig.1). In this case, the fans were suspended beneath the pores from a central point of attachment. In other situations, and especially for

Continued on following page



Fig. 1. Circular parasitic fans growing beneath the pores of a turned over conk of *Rigidoporus lineatus* (Pers.) Ryv.

reflexed polypores, the growth was unidirectional from a supporting substrate such as grass and appeared as upwardly curved fans beneath the pores (Fig. 2).

A microscopic examination of the upward surface of the fan directly beneath the pores revealed trapped basidiospores invaded by short pegs from the parasitic hyphae (Fig. 3). The generic name *Sporophagomyces* for the two species, viz. *S. chrysostomus* and *S. lanceolatus*, is certainly apt. They most commonly are seen beneath *Rigidoporus*

microporus and *R. lineatus*, and occasionally with other polypores as well. How these fungi, in some cases entirely separated from the host, orient and grow in response to a distant food source is yet a mystery to be solved. For descriptions see Rogerson & Samuels in *Mycologia* 85(2): 231 and Põldmaa & Samuels in *Can. J. Botany* 77(12): 1765.

—Ed Setliff

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Fig. 2. Fans of mycoparasite growing from a grass blade beneath a *Rigidoporus* sp. [Photograph by William Mesner, May 1993].



Fig. 3. Basidiospore being consumed by mycoparasite. Note peg-like attachment from hypha.

MSA BUSINESS

From the President's Corner . . .

Since my last column, I had the opportunity to escape the frozen landscape of New York and headed to Australia to initiate the first fungal inventory of the world's largest sand island (Fraser Island, a World Heritage listed site) with **Nigel Fechner** and **Tony Young**. Later in February, **Priscila Chaverri**, **Amy Rossman**, **David Largent**, and President-Elect **Rytas Vilgalys** and I participated in the first mycoblitz of Northern Queensland. The heavy rains caused some flooding prior to the foray and were in stark contrast to the devastating bushfires farther south in Victoria. All vouchers are on deposit in Queensland with special emphasis on establishing a mycological collection at the newly built Australian Tropical Herbarium at John Cooke University in Cairns.

As noted previously, preparations are well underway for the annual meeting in Snowbird later this summer. By the time you read this, the deadline for abstract submissions will have expired, and so I hope all interested folks have sent in their abstracts. In addition to 12 symposia and several paper sessions, there are a number of workshops, social events and field trips (17!). As usual, the MSA will hold its annual foray (Uinta Mountains), breakfast business meeting/awards presentation, and banquet/auction. This latter is an all participating society event, so the possibility exists for this to be an even bigger affair than in the past. Be sure and get those books, photos, unneeded collecting gear, and/or any other potential auction items to **Betsy Arnold**. I've noticed that it's been awhile since obscure/exotic substrates used as fungal bait have been offered at auction. **Bob Gilbertson** supplied some amazing stuff from the Sonoran desert for many years. Note that **Margaret Barr** and **Meredith Blackwell** described a new Ascomycete genus, *Quasiconcha* (*Mycologia* 72: 1224. 1980), growing on undigested juniper seeds in ring-



Roy Halling, President

tail cat dung collected from Texas. **Nhu Nguyen** sometimes provided exquisite Laboulbeniomycetes already identified and labeled. You get the picture? It doesn't need to be a high cost endeavor. Be innovative here! It's not too early to go to the meeting website at <http://2009.botanycon-ferrence.org/>; you will find details on early registration, accommodation choices as well as the lists of abstracts, symposia, mixers, field trips and workshops. Please note that **Tom Bruns** (MSA Vice President) is a co-organizer for a Saturday-Sunday workshop on statistical approaches for fungal ecology. There's lots going on, so be sure to get registered.

On March 21, the Executive Council of MSA will have finished its mid-year meeting at the New York Botanical Garden. Since this will happen after I write this column, any outcome from that meeting will have to wait for a future issue of *Inoculum*. Again, I strongly encourage the various specialty committees to make their expertise and presence known via the MSA website.

Don't forget that when the spring ballot is announced via a Blast email, please exercise your right as a member and cast a vote for a Vice President, four Councilors and a Secretary plus any other issues that might need your input. The folks standing for election are volunteering their time and effort to keep the MSA fine tuned and on course; your votes are very important here.

Finally, please do not hesitate to email or call me with your ideas, suggestions, and concerns during the year. If at all possible, please support the products and services of our **Sustaining Members**. Thanks very much.

—Roy Halling
President
RHALLING@nybg.org

MSA Secretary's Email Express

MSA Council has completed seven email polls (2009-01-07) since my last report, approving the appointments of **Lori Carris, Steve Miller, Brandon Matheny, Manfred Binder, Conrad Schoch, Francois Lutzoni** and **David Rizzo** as Associate Editors of *Mycologia*, as nominated by Editor-in-Chief **Jeff Stone**.

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 Snowbird Utah in 2009.

- **Argentina:** Agostina Virginia Marano
- **Brazil:** Dartanha J. Soares
- **Canada:** Sea Ra Lim, Bill Wylie
- **Japan:** Akio Tonouchi
- **Korea:** Su A. Bong
- **United States:** Rebecca Ablner, Meghan Lynn Avolio, Rebecca Bennett, Marin Talbot Brewer, Michele Buff Brower, William L. Bruckart, Sydney E. Everhart, Matthew Joseph Foltz, Daniel J. Glass, Stephanie Gross, Lucas T. Henderson, Erik Alan Hobbie, Nicole Hynson, Stephanie Shea Jarvis, Doug Johnston, Jeff B. Kepley, Josephine M. Moore, Monica Neff, Kathleen Marie Pitcher, Angela Kae Ratekin, Alma Edith Rodriguez Estrada, L. Deborah Schneider, Dylan Short, Darlene Southworth, Arun Kumar Thiruvotth Kottuvetta, Hector R. Urbina, Lisa Jayne Vaillancourt, Sue Sweet Van Hook, Thomas J. Walsh, Jeremy Williams, Emma Ruby Wilson



Cathie Aime

Emeritus candidates: There have been two applications for emeritus status by long standing members **Paul Dunn** (Portland, OR) and **Fred Rhoades** (Bellingham, WA). Emeritus status is conferred upon retired or retiring members who have at least 15 years good standing with the Society.

Deaths: I am saddened to report the recent death of long-time MSA member **Charles C. Bertke**.

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 Management Administrator at Allen Press, the always-helpful Kay Rose at kröse@allenpress.com.

—Cathie Aime
MSA Secretary
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Mycological Society of America — Gift Membership Form

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

I want to provide an **MSA Gift Membership** to the following individual:

Name _____
Institution _____
Complete Address _____
Phone _____ FAX _____ Email _____

Please send renewal notices to:

(YOUR name) _____
(YOUR address) _____
Phone _____ FAX _____ Email _____

I agree to pay \$98* for this membership by check (payable to MSA, drawn on US bank) VISA Mastercard
Acct. # _____ Name (as it appears on card) _____ Exp. date _____

Send this form to: MSA Business Office, PO Box 1897, Lawrence KS 66044
or FAX to (785) 843-1274, Attn: Processing Department

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

MYCOLOGICAL NEWS

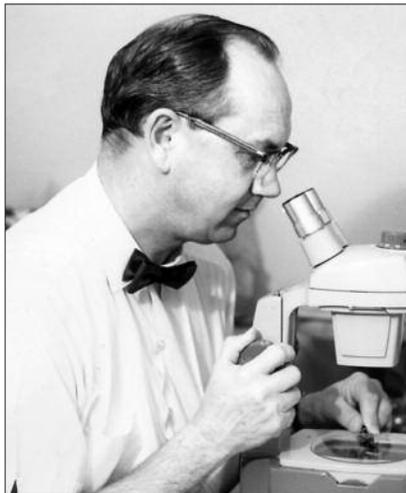
Paul Lewis Lentz, Ph.D., 1918–2009

Paul Lewis Lentz of Greenbelt, Maryland, passed away on January 14th; he had been in declining health for several months.

Born in 1918 in Indianapolis, Indiana, Paul Lentz graduated from Shortridge High School in 1936 and attended Butler University, where in 1940 he graduated *Magna Cum Laude* and was elected to the Phi Kappa Phi Honor Society. He continued his studies in botany at the University of Iowa, earning a Master of Science Degree in Mycology. In January 1942 he joined the United States Navy, serving in Panama and at the Bacteriology Laboratory at the National Naval Medical Center in Bethesda, Maryland. He was released from active service in 1946 with the rank of Lieutenant.

In 1943, he married Mary Ellen Cone of Topeka, Kansas, whom he had met at the University of Iowa. After the war ended, Paul and Mary Ellen resumed their education and moved to the Washington area in 1947, when Paul began work for the Department of Agriculture as a Mycologist at the Beltsville Agriculture Research Center. He received his Ph.D. in Mycology in 1953. Between 1947 and his retirement in 1981, Dr. Lentz advanced to be recognized as one of the outstanding authorities in the field of mycology and in particular its taxonomy. He became Chief of the USDA Mycology Laboratory in 1971, directing the U.S. National Fungus Collections, Poison Fungi Center, and research projects on fungal biology with emphasis on the taxonomy of disease-causing species.

Paul worked to develop the U.S. National Fungus Collections by obtaining funds to computerize the specimen



Paul Lewis Lentz

data. This was started in the mid-1970's when computers were just becoming part of science. Initially the data were typed on OCR (Optical Character Reader) sheets using special typewriters and sent to the National Agriculture Library to be read into the large mainframe computer. After twenty years data from nearly one-million specimens have been entered so that scientists throughout the world can search on-line to find specimens needed for their research on fungi.

During his career, Paul authored 47 publications on fungi, contributed to many other papers, and made presentations at the International Botanical Congress in 1959 and the Hesler International Symposium in 1968. His teaching

career included instruction in mycology at the George Washington University and at the USDA Graduate School. Other highlights of his career included appointment in 1966 as Honorary Curator and later Collaborator at the Smithsonian Institution's Department of Botany and a 1971 appointment to the Biological Sciences Advisory Panel of the National Science Foundation. Dr. Lentz also served in the Mycological Society of America including as Councilor in 1967-1968.

Paul was active in the community as a volunteer with the Boy Scouts and held several leadership positions in the Greenbelt Community Church. He was also on call at local hospitals as an expert to determine whether wild mushrooms that had been consumed were poisonous.

—David W. Lentz and Amy Y. Rossman

Top 10 New Species

Do you know of an interesting new fungus (described in the 2008 calendar year)? Then why not nominate it for the Top Ten list at Arizona State's International Institute for Species Exploration web site <<http://species.asu.edu/index>>.

The species must have been officially described as new during the calendar year preceding the list. The closing date for nominations is April 1, 2009. There are no firm rules or guidelines for the selection of the top ten species and the final list shall be determined by a vote of an international committee of experts appointed by the IISE.

Obvious examples of criteria for selection include "records" (largest, smallest, etc.), "superlatives" (most, first, last, etc.), humorous or interesting names, surprising characters, properties or distributions, etc. Nominations should include a reference to the actual description in a journal or monograph, reference to a Web site or images of the species if they exist, as well as the name and e-mail of the nominator in case the committee has additional questions. Check out last year's Top Ten winners <<http://species.asu.edu/Top10>> for ideas.

—Meredith Blackwell
mblackwell@lsu.edu

Seeking Air-Dried Specimens of Red Nectria-Like Fungi

Priscila Chaverri, University of Maryland, with Amy Rossman and Gary Samuels, SMML, USDA-ARS, Beltsville, MD, received funding from NSF to study the systematics of three genera of red nectria-like fungi. Yuuri Hirooka, a research associate from Japan, is tackling the genus *Nectria* while two graduate students will work on *Neonectria* and *Cosmospora*. Priscila and Amy recently returned from collecting hypocrealean fungi in Australia and New Zealand. If anyone collects red *Nectria* and is willing to share them, please send air-dried specimens to Amy Rossman, SMML, Rm. 304, B011A, 10300 Baltimore Ave., Beltsville, MD 20705. Thank you so much.

—Amy Rossman
Amy.Rossman@ars.usda.gov



Amy Rossman and Priscila Chaverri collecting red *Nectria* fungi in Washpool National Park, Australia. Photo by Brett Summerell.

Seminars at Eagle Hill

Aug 2 – 8, Mushrooms and Other Fungi, Rosalind Lowen and Lawrence Leonard

Aug 2 – 8, Introduction to North American Truffles: Hypogeous Fungi, Matthew E. Smith

Oct 10 – 15, Mushrooms of Coastal Maine During the Fall Foliage Season, Gary Lincoff

Descriptions of seminars may be found at www.eaglehill.us/programs/nhs/nhs-calendar.shtml. Information on lodging options, meals, and costs may be found at www.eaglehill.us/programs/general/application-info.shtml.

There is an online application form at www.eaglehill.us/programs/general/application-web.shtml.

Syllabi are available for these and many other fine natural history training seminars on diverse topics.

For more information, please contact the Humboldt Institute, PO Box 9, Steuben, ME 04680-0009, Tel 207-546-2821, Fax 207-546-3042, E-mail office@eaglehill.us. Online general information may be found at www.eaglehill.us.

NATURAL HISTORY SEMINARS

In support of field biologists, modern field naturalists, and students of the natural history sciences, Eagle Hill offers

specialty seminars and workshops at different ecological scales for those who are interested in understanding, addressing, and solving complex ecological questions. Seminars topics range from watershed level subjects, and subjects in classical ecology, to highly specialized seminars in advanced biology, taxonomy, and ecological restoration.

Eagle Hill has long been recognized as offering hard-to-find seminars and workshops which provide important opportunities for training and meeting others who are likewise dedicated to the study of the natural history sciences.

Eagle Hill field seminars are of special interest because they focus on the natural history of one of North America's most spectacular and pristine natural areas, the coast of eastern Maine from Acadia National Park to Petit Manan National Wildlife Refuge and beyond. Most seminars combine field studies with follow-up lab studies and a review of the literature. Additional information is provided in lectures, slide presentations, and discussions. Seminars are primarily taught for people who already have a reasonable background in a seminar program or in related subjects, or who are keenly interested in learning about a new subject. Prior discussions of personal study objectives are welcome.

2009 Mycological Society of America Annual Foray

The foray route planned for 2009 will take us into the Uintah mountain range of northern Utah. The Uintah Mountains run east to west along the northern border of Utah and have the highest elevations within the state. Because of their high elevation, the Uintahs typically receive afternoon thundershowers in late summer that make them the most reliable spot for collecting fungi in an otherwise arid state. The planned route runs through a variety of plant communities at elevations ranging from about 4,500 ft to 10,000 ft including

semiarid scrub oak, ponderosa pine, aspen, lodgepole pine, and spruce-fir forests. Duration: 7- 8 hours with 2 hours traveling time each way and a couple of collecting stops once we reach the higher elevations. Registration fee TBD but includes transportation, boxed lunch, and additional water.

—Brad Kropp
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—Don Ruch
druch@bsu.edu

Marine Mycology Class

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 will also benefit amateur mycologists, field biologists, and researchers who are interested in learning new skills for pursuing academic, career-related or independent studies of fungi.

“Swimming mushrooms: fungi in the marine environment.”

July 27-August 7, 2009. 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 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: http://www.usm.edu/gcrl/summer_field/c_marinefungi.php

Introduction to Food- and Air-Borne Fungi

Introduction to Food- and Air-Borne Fungi. 8-12 June 2009. Ottawa, 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*, *Stachybotrys*, *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. Instructors: Robert A. Samson and Jos Houbraken, Cen-

traalbureau voor Schimmelcultures; Keith A. Seifert and John Bissett, Agriculture and Agri-Food Canada.

For more information, please contact Keith A. Seifert, Biodiversity Theme (Mycology & Botany), Eastern Cereal and Oilseed Research Centre, 960 Carling Ave., Agriculture and Agri-Food Canada, Ottawa, Ontario K1A 0C6, CANADA. Phone: 613-759-1378. Fax: 613-759-1701. Email: seifertk@agr.gc.ca or visit the course web site at <http://www.indoormold.org>

National Science and Technology Council

MSA members should be interested in a number of government reports from the National Science and Technology Council (NSTC). Go to the web site and download the pdfs: www.ostp.gov/cs/nstc/documents_reports.

The most recent report is about collections (December 2008) – Scientific Collections: Mission-Critical Infrastructure for Federal Science Agencies.

Also, note the definition of Microbes (March 2008): The Microbe Project Interagency Working Group Coordination Plan.

[The National Science and Technology Council (NSTC) was established by Executive Order on November 23, 1993. This Cabinet-level Council is the principal means within the executive branch to coordinate science and technology policy across the diverse entities that make up the Federal research and development enterprise.]

—Meredith Blackwell
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MSA Now on Facebook

For those of you who are on Facebook, I've created a group to keep in touch with fellow members. Just search for Mycological Society of America, (not MSA, there are several other MSA's out there), and click on "Join the Group" over on the right side. This should prove an ideal venue for keeping up with meetings, forays, and other items of interest to members.

—Djibo Zanzot
alabamycologist@hotmail.com

Ángel Mercado Sierra – Erratum

There was an article in *Inoculum* 60(1) February, 2009 about Dr. Ángel Mercado. The date of his death was incorrectly printed as 24 February 2008. The correct date of Dr Mercado's death was November 24th, 2008. I apologize for this erratum.

—Jinx Campbell
Editor

MYCOLOGIST'S BOOKSHELF

One book is reviewed in this issue. Three new books were received since the last Mycologist's Bookshelf and they all need reviews. 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 from the publisher.
Amy.Rossman@ars.usda.gov.

Fungi of Cameroon

Fungi of Cameroon: Ecological Diversity with Emphasis on the Taxonomy of Non-gilled Hymenomyces from the Mbalmayo Forest Reserve. 2007. Clovis Douanla-Meli. J. Cramer, by Gebrüder Borntraeger, 14129 Berlin, 701176 Stuttgart, Germany. www.schweizerbart.de. ISBN 978-3-443-59104-5. Bibliotheca Mycologica 202: 1-410, paperback. Price: €89.00 plus postage.

This commendable effort characterizes the non-gilled Hymenomyces in Cameroon and represents the doctoral thesis (University Kassel) of the author. The printing quality is excellent and the English translation more than adequate. The research is based on three separate collecting trips made in Cameroon during different rainy/dry seasons. It focuses on fungal diversity in areas with various amounts of plant cover—primary forests to cropland.

The book is well organized with keys to major groups and then to genera within families. Each species is described by clear text and line drawings of microscopic features. For many species there are excellent photographs of macroscopic and microscopic characteristics. Some of these are taken with the SEM. The smaller than usual print size packs more information into a given space. The taxonomic breakdown is quoted

as follows: “Gasteromycetes, 8%; Heterobasidiomycetes, 7%; Clavarioid fungi, 6.5%; Stereoid fungi, 13.5%; Lentioid fungi, 7%; Ganodermoid fungi, 4%; Hymenochaetoid fungi, 10%; and the Polyporaceae and allied fungi, 44%.” Eleven new or recently described species are included. A Latin description is given for three of these in this volume, viz. *Clavulina arcuatus*, *Lentaria acuminata*, and *Pterula hyphoides*. The others were first published elsewhere. Also, *Phylloporia resupinatus* is included as a provisional name and *Scytinopogon parvus* becomes a new combination. The paint and tooth fungi were beyond the scope of this volume.

With relentless deforestation and diminished biodiversity occurring around the world, this volume provides a lesson as well as a good foundation for further taxonomic studies in Africa and in the tropics. The book is reasonably priced and is recommended for botanical/mycological centers, university libraries and taxonomic specialists who work on the above fungal groups.

The USA contact is Balogh International, 1911 N. Duncan Rd., Champaign, IL 61822, (217)355-9331, balogy@balogh.com.

—Ed Setliff
esetliff@hotmail.com

Recently Received Books

- **Bryophyte Biology, 2nd Edition.** 2009. Bernard Goffinet, A. Jonathan Shaw (eds.). Cambridge University Press, The Edinburgh Building, Cambridge CB2 8RU United Kingdom, www.cambridge.org. ISBN: 978-0-521-87225-6 hardback; ISBN: 978-0-521-69322-6 paperback. 565 pp. Price: hardback \$150.00; paperback \$70.00. *Review needed.*
- **Dictionary of the Fungi, 10th Edition.** 2008. P.M. Kirk, P.F. Cannon, D.W. Minter, J.A. Stalpers (eds.). CAB International, Wallingford, Oxon OX10 8 DE United Kingdom, www.cabi.org. ISBN: 978-0-85199-826-8. Price: £70.00/\$140.00/€110.00. *Review needed.*
- **The Genera of the Parmulariaceae.** 2008. Carlos A. Inácio, Paul F. Cannon. Centraalbureau voor Schimmeltcultures, P.O. Box 85167, Utrecht, The Netherlands, http://www.cbs.knaw.nl/publications/index.htm. ISBN: 978-90-70351-72-4. ISSN: 157-8859. Biodiversity Series 8. 196 pp. Price: /€65.00. *Review needed.*

Previously Listed Books

- **The Aspergilli: Genomic, Medical Aspects, Biotechnology, and Research Methods.** 2008. Gustavo H. Goldman, Stephen A. Osmani (eds.). CRC Press, Boca Raton, FL 33487, <http://www.crcpress.com>. ISBN 13: 978-1-8493-9080-7. 551 pp. Price: £82.00. *Reviewed in Jan.-Feb. 2009.*
- **Black fungal extremes.** 2008. G.S. de Hoog, M. Grube (eds.). Centraalbureau voor Schimmelcultures, P.O. Box 85167, Utrecht, The Netherlands, <http://www.cbs.knaw.nl/publications/index.htm>. *Studies in Mycology* 61: 1-194. Price: €60.00. *Review needed.*
- **Compendium of Onion and Garlic Diseases and Pests, 2nd Edition.** 2008. Howard F. Schwartz, S. Krishna Mohan (eds.). APS Press, 3340 Pilot Knob Road, St. Paul, MN 55121, <http://www.shopapspress.org>. ISBN: 978-0-89054-357-3. 127 pp. Price: \$59.00. *Review in progress.*
- **Enfermedades Forestales en México. Forest Diseases in Mexico.** 2007. David C. Tovar, Dionisio A. Rosales, Silva E.G. Diaz (eds.). Universidad Autonoma Chapingo. Mexico; CONAFOR-SEMARNAT, México; Forest Service USDA, EUA; NRCAN Forest Service, Canadá y Comisión Forestal de America del Norte, COFAN, FAO. Chapingo, México. ISBN 968-02-0340-9. 587 pp. Availability unknown. *Review in progress.*
- **Forest Fungi of Central India.** 2008. R.K. Verma, N. Sharma, K.K. Soni, Jamaluddin. International Book Distributing Co., ibdco@airtelbroadband.in. ISBN 81-8189-228-3. 418 pp. Price: Rs. 2100.00. *Reviewed in Nov.-Dec. 2008.*
- **Fungal Pathogenesis in Plants and Crops. Molecular Biology and Host Defense Mechanisms, 2nd Edition.** 2008. P. Vidhyasekaran. CRC Press, Boca Raton, FL 33487, <http://www.crcpress.com>. ISBN: 978-0-8493-9867-4. 509 pp. Price: \$169.95. *Review in process.*
- **Fungi of Australia: Smut Fungi.** 2008. K. Vanky, R.G. Shivas. CSIRO Publishing, <http://www.publish.csiir.au/nid/18/pid/5729/htm>. 276 pp. plus CD. Price: 130 AU\$. *Review in progress.*
- **Fungi in the Ancient World: How Mushrooms, Mildews, Molds, and Yeast Shaped the Early Civilization of Europe, the Mediterranean, and the Near East.** 2008. Frank Dugan. APS Press, 3340 Pilot Knob Road, St. Paul, MN 55121, <http://www.shopapspress.org>. ISBN: 978-0-89054-361-0. 152 pp. Price: \$60.00. *Reviewed in Nov.-Dec. 2008.*
- **Fungi of Cameroon.** 2007. Clovis Douanla-Meli. Gebrüder Borntraeger Verlagsbuchhandlung, Berlin, <http://www.schweizerbart.de>. ISBN: 978-3-4435-91045. *Bibliotheca Mycologica* 202: 1-410. Price: €89.00. *Reviewed in this issue.*
- **Hongos de Parques y Jardines y sus Relaciones con la Gente.** 2008. Gastón Guzmán. Departamento de Apoyo Editorial de la Coordinación de Bibliotecas y Centros de Información Documental de la SEV, Av. Araucarias núm. 5, Edificio Orense II, tercer piso, Col. Esther Badillo, C. P. 91190, México. apoyoeditorialsec@secver.gob.mx ISBN: 978-970-670-170-1. Available as pdf: <http://www.sev.gob.mx/servicios/publicaciones/memver/hongosparquesyjardines.pdf>. Price unknown. *Review in progress.*
- **Leaf-inhabiting Genera of the Gnomoniaceae, Diaporthales.** 2008. Mikhail V. Sogonov, Lisa A. Castlebury, Amy Y. Rossman, Luis C. Mejia, James F. White. Centraalbureau voor Schimmelcultures, P.O. Box 85167, Utrecht, The Netherlands, <http://www.cbs.knaw.nl/publications/index.htm>. *Studies in Mycology* 61: 1-79. Price: €40.00. *Review in progress.*
- **Lichen Biology, 2nd Edition.** 2008. Thomas H. Nash III (ed.). Cambridge University Press, The Edinburgh Building, Cambridge CB2 8RU, www.cambridge.org. ISBN: 978-0-521-87162-4. 486 pp. Price: hardback \$140.00; paperback \$70.00. *Reviewed in Jan.-Feb. 2009.*
- **A Manual and Source Book on the Boletes and their Allies.** 2008. Roy Watling. Fungiflora, P.O. Box 95, Blindern, N-0314, Oslo, Norway, leif-ryvarden@bio.uio.no. *Synopsis Fungorum* 24. ISBN: 978-82-90724-36-3. Price: NOK300 plus postage. *Reviewed in Nov.-Dec. 2008.*
- **Microfungi occurring on Proteaceae in the Fynbos.** 2008. Seonju Marincowitz, Pedro W. Crous, Johannes Z. Groenewald, Michael J. Wingfield. Centraalbureau voor Schimmelcultures, P.O. Box 85167, Utrecht, The Netherlands, <http://www.cbs.knaw.nl/publications/index.htm>. *Biodiversity Series* 7. ISBN: 978-90-70351-71-7. 166 pp. Price: €50.00. *Reviewed in Nov.-Dec. 2008.*
- **Phycology, 4th Edition.** 2008. Robert Edward Lee. Cambridge University Press, The Edinburgh Building, Cambridge CB2 8RU, www.cambridge.org. ISBN: 978-0-521-86408-4. 547 pp. Price: hardback \$160.00, softback \$70.00. *Reviewed in Jan.-Feb. 2009.*
- **Phytophthora: Identifying Species by Morphology and DNA Fingerprints.** 2008. Mannon E. Gallegly, Chuanxue Hong. APS Press, 3340 Pilot Knob Road, St. Paul, MN 55121, <http://www.shopapspress.org>. ISBN: 978-0-89-54-364-1. 168 pp. plus 130 b&w images. Price: \$79.00. *Reviewed in Jan.-Feb. 2009.*
- **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, <http://www.crcpress.com>. ISBN 13:978-1-4200-4669-4. 558 pp. plus CD. Price: £42.99. *Review in progress.*
- **An update on the genus Chaetomium with descriptions of some coprophilous species, new to Italy. Aggiornamento sul genere Chaetomium con descrizione di alcune specie coprofile, nuove per l'Italia.** 2008. Francesco Doveri. Bresadola Mycological Association, Segreteria Nazionale AMB, via Volta 36, -38100, Trento, Italia, amb@ambbresadola.it. *Pagine de Micologia* 29: 1-159. Price: €20.00 plus €10 shipping charges. *Reviewed in Jan.-Feb. 2009.*

TAKE A BREAK

Maureen Michaelagi Is a Puzzle, Foreshore!

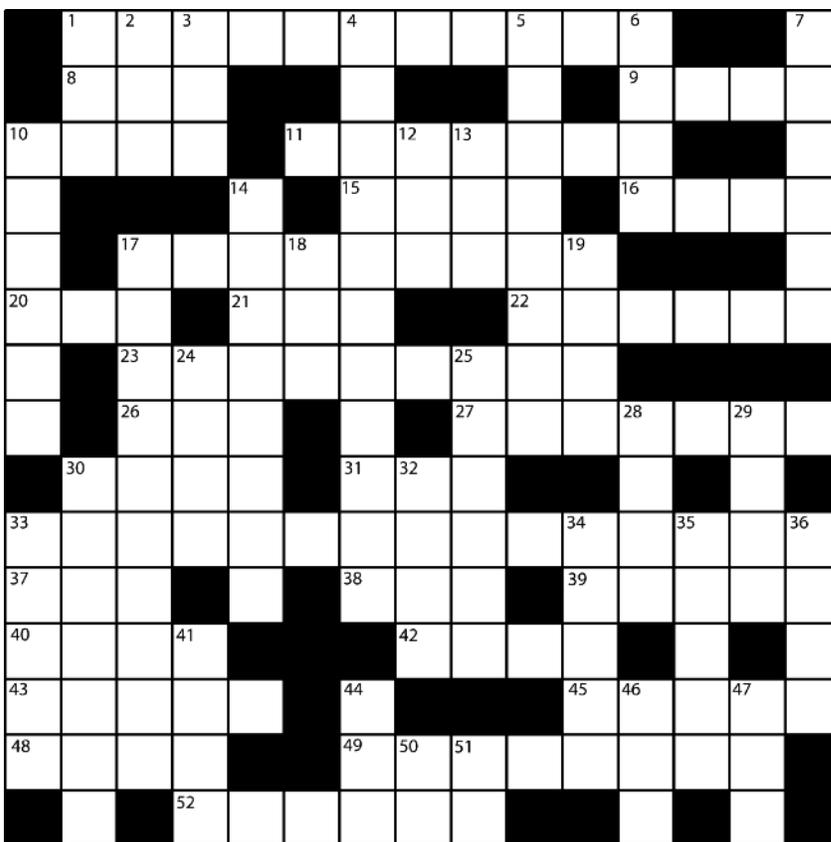
I photic would be a good idea to shore up my abyssal lack of knowledge of things marine mycotal ... 'septa littorally hadal read a whole text in order to bathyal with terminology. My brine grew sorus, my stipe blotched, and I came verrucose to contracting *Oceani-*

tis. But the skies cleared, the gyre un-gimballed, and I'm glad to be anastomosing with you: I hope you give it a *Trailia!*

—Juliet Pendray
Vancouver Mycological Society
aloe@netrover.com

ACROSS

1. Inhabits sand
8. Getupngo-ness
9. Usually found nestled in hamathecial tissue
10. Prefix for a kelp-loving *Pontogeneia* species
11. Mannose-binding lectin involved in mycobacterial adhesion
15. ____ *llus*, terrestrial genus name is Latin for peg
16. Substrate condition required by many saprobic marine fungi eg. *Rhizophila*, *Haligena*, *Oceanitis*
17. Substrate for eg. *Haligena*, *Naufragella* and *Marinospora*
20. Seawater in this state has its mycostatic principle intact
21. Spanish for river
22. Thallus pit
23. Disk of conidiophores under plant cuticle
26. Bald King's first name?
27. Stains blue in Melzer's
30. Height of *Digitata marina* fruiting bodies relative to other marine fungi "mushrooms"
31. Member of terrestrial mushroom group often snarled at or ignored by mycologists
33. Interstitial microfauna
37. Galloped
38. Allows fungi to penetrate more deeply into tropical (as opposed to temperate zone) wood
39. Saprobian marine unitunicate cleistothecial ascomycete genus, whose name means "coast"
40. Substratum for eg. *Spathulospora*, *Chadefaudia*, and *Lautitia*
42. Inoculation or smear, often platinum
43. Smooth suprahilar spot on basidiospore
45. Elbowbones



48. Brazilian ginseng *Pfaffia paniculata*
49. Experiment to measure effect of substance on organism
52. Vesicle disease caused by *Lindra thalassiae*

DOWN

1. ____ thecium, a cup-like ascocarp
2. Rhodophytal quality
3. ____ thecium is formed by paraphyses tips
4. The only known marine species with more than 8 spores per ascus (polysporous asci) belong to this genus
5. Pore atop a fruiting body

Continued on following page

MYCOLOGICAL JOBS

Postdoctoral Research Associate

Job Description. A postdoctoral research associate is needed immediately in the Department of Plant Biology and Pathology at Rutgers, The State University of New Jersey to study foliar- or root-infecting fungi associated with turfgrass diseases. The successful candidate will work with a multi-disciplinary group of researchers to study the population genetics and molecular phylogeny of the fungal pathogens as well as developing molecular techniques for rapid detection of important grass pathogens.

Requirement. Recent Ph.D. in Plant Pathology, Mycology, Molecular Biology or a related field is required. Knowledge and experience with molecular techniques (real-time PCR, DNA sequencing, DNA finger-

printing, Southern blot) and database analysis is desirable. The candidate will need to conduct sampling in the field as well as green house experiments. The position is available immediately. The initial appointment will be for one year, according to university guidelines, with reappointment based on productivity. Salary is commensurate with experience.

Send cover letter stating research interests and CV with contact information of three referees via E-Mail to Dr. Ning Zhang (zhang@aesop.rutgers.edu), Dept. of Plant Biology and Pathology, Rutgers, The State University of New Jersey, 59 Dudley Road, Foran Hall 201, New Brunswick, NJ 08901. To avoid delay in process, please include "Postdoc" in your email subject.

Research Position at CICESE in México

The Department of Microbiology of the Experimental and Applied Biology Division of the Center for Scientific Research and Higher Education of Ensenada (CICESE) is looking for a highly qualified researcher with expertise in the area of Electron Microscopy and proven experience in Cellular Biology.

Position description: Principal investigator on research projects dealing with cellular structure and function with a major focus on fungi and other microorganisms. Experience in transmission electron microscopy is essential. Teaching of graduate courses is expected, as well as directing theses of master and doctoral candidates.

Applicant's profile: Proven experience in the operation of transmission electron microscopes, and in processing and handling of biological samples. Ability to develop independent research projects in the area of Cellular Biology of Microorganisms. Ph.D. in Biological or Biomedical Sciences. Proficiency in Spanish and English. Postdoctoral experience preferred.

Available equipment: Transmission Electron Microscope Hitachi 7500 with a Soft Imaging System Megaview III digital camera, Leica UltraCut Microtome; Confocal Zeiss LSM 510 Microscope. Full complement of instruments for Optical Microscopy, Biochemistry and Molecular Biology.

Appointment: In accordance with an evaluation of applicant's curriculum (From Associate Researcher level C to Senior Researcher level D).

Salary: Determined by the category assigned after the curricular evaluation according to the Academic Personnel Statute (EPA) of CICESE.

Location: CICESE, Ensenada, Baja California, Mexico.

General information about Ensenada and CICESE: Ensenada is a pacific port located in the northwest of Mexico, 60 miles south of the Mexico-US border. It enjoys a mild climate all-year round. Population is about 350,000. Tourism, fishing, agriculture, and industry are the most important factors in the economical development of the city. The confluence of academic, cultural and research activities in the area is outstanding.

The post offers excellent possibilities to collaborate with colleagues of the adjacent campus of the Autonomous University of Baja California, as well as many opportunities with colleagues from the Universities of California and Arizona. www.cicese.edu.mx/

Requirements: Please send cover letter with statement of interest, Curriculum Vitae and three letters of recommendation before March 30th 2009 to:

Dr. Ernestina Castro Longoria
Department of Microbiology of the DBEA
CICESE
P.O. Box 430222
San Ysidro, CA 92143-0222
USA
E-mail: ecastro@cicese.mx

Research Professional Plant-Microbe Interactions

Position Title: Research Professional Plant-Microbe Interactions
Institute of Arctic Biology, University of Alaska
Fairbanks, AK USA

Move to the edge geographically and technologically! We are seeking a Research Professional to design, develop and optimize cutting-edge molecular methods in the last frontier - Alaska. This person will carry out independent efforts in support of the Plant-Microbe Interactions Research Focus Area of the EP-SCoR Program at the University of Alaska (see <http://www.alaska.edu/epscor/>). The goal of the Plant-Microbe Interactions Research Focus Area is to better understand how mutualistic and pathogenic bacteria and fungi influence vegetation structure in Alaska under a changing climate. Emphases include ectomycorrhizal associations and biological nitrogen fixation. Participating faculty include Mary Beth Leigh, Christa Mulder, Sanjay Pyare, Roger Ruess, Lee Taylor and Jeffrey Welker.

See <http://www.iab.uaf.edu/>,
<http://www.uaa.alaska.edu/enri/> and
<http://www.uas.alaska.edu/envs/index.html>.

Qualifications include background in genetics, molecular biology and plant or microbial biology. Experience with DNA extraction, PCR, cloning, sequencing and sequence analysis are required, while familiarity with PLFA analyses or next-generation sequencing are desirable. The home location will be in the Institute of Arctic Biology at the University of Alaska, Fairbanks. Opportunities will be provided for participation in preparation of journal articles and grant proposals.

Requirements: A BS in Biology, Biochemistry, Microbiology or a related field is required. MS or PhD degrees are preferred.

Minimum salary: \$40,664 for 12 months. Start Date: April-May 2009. Contact: fflt@uaf.edu. To apply, go to www.uakjobs.com/applicants/Central?quickFind=66242

MYCOLOGICAL CLASSIFIEDS

Mold Testing and Identification Services

Identification and contamination control for buildings, manufactured goods, food technology, animal and plant diseases. Specializing in identification of parasitic water molds on Amphibians and

Fish. ASTM & Mil-Spec testing for fungal resistance of materials. 10% discount for regular and sustaining MSA members. Email microbe@pioneer.net. For more information see www.abbeylab.com.

MYCOLOGY ON-LINE

Below is an alphabetical list of websites featured in *Inoculum*. Those wishing to add sites to this directory or to edit addresses should email <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.mycology.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 & Mytiliniaceae — Website relating to the taxonomy of the Hysteriaceae & Mytiliniaceae (Pleosporomycetidae, Dothideomycetes, Ascomycota) to facilitate species identification using a set of updated and revised keys based on those first published by Hans Zogg in 1962. 59(4)
<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/

MycKey
www.mycology.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.

April 18-19, 2009

Mid-Atlantic Mycological Conference (MASMC)

Systematic Mycology and Microbiology Laboratory, Beltsville, MD
<http://nt.ars-grin.gov/masmc/>

May 25-29, 2009

ISHAM congress

Tokyo, Japan
<http://www.congre.co.jp/isham2009/>

May 31-June 4, 2009

14th International Sclerotinia Workshop

Department of Plant Pathology, North Carolina State University, Wilmington, NC
http://www.cals.ncsu.edu/sclerotinia_conference/index.html

July 25-30, 2009

MSA Meeting with Botanical Society of America

Snowbird, UT
<http://2009.botanyconference.org/>

September 20-25, 2009

X National Congress of Mycology of Mexico

Guadalajara, Jalisco, Mexico
www.cucba.udg.mx/micologia

November 15-19, 2009

Asian Mycological Congress (AMC2009) & XIth International Marine and Freshwater Mycology Symposium (IMFMS)

National Museum of Natural Science, Taichung, Taiwan

2010 MSA Meeting

University of Kentucky
Lexington, KY, USA

2010 IMC9

9th International Mycological Congress

Edinburgh, UK
<http://www.imc9.info/>

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

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

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PO Box 7634
Olympia, WA 98507
(360)426-9292
info@fungi.com

Mycotaxon, Ltd.

Attn: Richard P. Korf
PO Box 264
Ithaca, NY 14851-0264
(607) 273-0508
info@mycotaxon.com

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Attn: P.L. Conant - President
PO Box 98
Ripon, WI 54971
(920)748-5125

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mwach@sylvaninc.com

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317 330th Street
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925 Page Mill Rd
Palo Alto, CA 94304
(650)846-5850
mward@genencor.com

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

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1445 Drew Ave
Davis, CA 95618
(530) 757-8110
wty@novozymes.com

You are encouraged to inform the Membership Committee (Maren Klich, Chair, mklich@srcc.ars.usda.gov) of firms or foundations that might be approached about Sustaining Membership in the MSA. Sustaining members have all the rights and privileges of individual members in the MSA and are listed as Sustaining Members in all issues of *Mycologia* and *Inoculum*.

inoculum

The Newsletter
of the
Mycological
Society of America

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Jinx Campbell, Editor

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_____ Backus Graduate Award	_____ Alexopoulos Prize
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I wish to pledge \$ _____ a year for _____ years

_____ to the following fund (s) _____

_____ to some other specified purpose _____

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Name: _____

Address: _____

___ Check ___ Credit Card (Visa, MC, etc): _____

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Please send this completed form and your contribution to:

A. Elizabeth Arnold, Chair

MSA Endowment Committee
Division of Plant Pathology and Microbiology
Dept. of Plant Sciences
University of Arizona
Tucson, AZ 85721
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Please make checks payable to the
Mycological Society of America

An Invitation to Join MSA

THE MYCOLOGICAL SOCIETY OF AMERICA

2009 MEMBERSHIP FORM

(You may apply for membership on-line at msafungi.org)

(Please print clearly)

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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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