

Newsletter of the Mycological Society of America

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~ Important Dates ~

February 15 — Deadline: *Inoculum* 53(2)

January 31: **Mentor Student Travel Forms**

February 15: **Undergraduate Research Forms**

March 1: **Graduate Fellowships and Research**

Awards Nominations

March 15: **MSA Distinctions Nominations**

June 22-26: MSA 2002, Corvallis OR

August 11-17: IMC VII, Oslo, Norway

July 27-31: MSA 2003, Asilomar CA

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MSA Homepage:
<http://msafungi.org>

A Strange New Fungus Among Us!

by Orson K. Miller, Jr.

Questions or comments should be sent to Orson Miller via Department of Biology, Virginia Polytechnic Institute, Blacksburg, VA 24061 or email: <OrsonK@cs.com> or <ormiller@vt.edu >.

NO FUNGUS IN RECENT YEARS has provided the challenge of this very strange fruiting body which appeared to be a relative of the Gasteromycetes. However, the development of a mature spore layer which was then elevated from the endoperidium by a stalk in the form of a mazedium was a strange developmental pattern. Of several interesting potential Gasteromycetes sent to me by Terry Henkel following one of his expeditions to Guyana, it was obvious to me that one in particular should be sequenced and attempts to do this were carried out in 1999. The blast search indicated a close relationship to *Penicillium* and the sequence was assumed to be that of a contaminant. We were even more determined to get additional sequences during the next expedition to Guyana and this was done. Meanwhile the SEM pictures of the spores also revealed a different morphology than was common for a Gasteromycete. The search for the sexual stage proved fruitless with only mature spores present even in the very small unopened fruiting bodies. The picture below shows the stages of maturation of the fruiting body which is also very well illustrated in the *Mycological Research* article cited below. The illustrations in the article show a sectional view of the stalk and its origin within the volvate base. The news item that follows on the next page by Dr. Redhead, as well as the article, appear in *Mycological Research* 105(10) October 2001, which is just reaching many mycologists as *Inoculum* goes to press.



Pseudotulostoma volvata. Photo by Orson Miller.

***Pseudotulostoma*: the Find of the Century?**

So commented one of the reviewer's of the paper by Miller et al. (2001) included in this issue which describes one of the most unusual fungi to be found at least in recent years. The new genus and species, *Pseudotulostoma volvata*, is an ascomycete which is a sister taxon to *Elaphomyces*, and comes from Guyana in one of the most inaccessible forests so far surveyed for fungi. However, unlike its hypogeous, truffle-like *Elaphomyces* relative, *Pseudotulostoma* produces stalked and volvate ascomata resembling the basidiomycete genera *Chlamydopus* and *Tulostoma*. The uncanny similarity, a result of evolutionary convergence, combined with the absence of either basidia or asci from very early stages of maturation, as also occurs in *Elaphomyces*, so fooled the authors, referees, and editors that it was almost described as a new genus of basidiomycetes. Initial molecular work suggested that it was an ascomycete close to the Eurotiales. This was so surprising that the DNA was presumed to have come from a contaminant; contamination by moulds such as *Penicillium* which belongs to the Eurotiales is a common phenomenon in the tropics.

Orson K. Miller Jr.



The collection sites are in the remote Pakaraima Mountains in Guyana, where one of the authors, Terry Henkel, is extensively sampling ectomycorrhizal fungi associated with *Dicymbe* trees. Repeated sampling yielded more collections, and renewed molecular sampling confirmed the initial molecular results. Placement near *Elaphomyces* clinched the realization that this was correct. What was almost thrown out as corrupted data proved to be information on a unique genus with the

most highly differentiated ascomata of any member of the Eurotiales found to date. Keen detective work and persistence under difficult field conditions paid off. The existence of *Pseudotulostoma* has been hidden by its remote habitat and the late discovery of pockets of ectomycorrhizal trees in tropical South America. This is a second coup for Henkel who also rediscovered Singer's pleurotoid *Lactarius* species in the same forests and described their unusual biology for the first time (Henkel, Aime & Miller 2000). Those fungi form massive subicular sheaths on tree trunks in which mycorrhizal rootlets grow and on which the *lactarius* fruit bodies arise. Both *Pseudotulostoma* and the pleurotoid *Lactarius* species are evidently adapted to exceedingly wet tropical forest floors.

-- Scott A. Redhead

The Publications

Henkel, T, Aime, MC & Miller, SL (2000) Systematics of pleurotoid Russulaceae from Guyana and Japan, with notes on their ectomycorrhizal status. *Mycologia* 92: 1119-1132.

Miller, OK Jr, Henkel, T, James, TY & Miller, SL (2001) *Pseudotulostoma*, a remarkable new volvategenus in the Elaphomycetaceae from Guyana. *Mycological Research* 105: 1268-1272. ■

Range Extension for Fern

by Harold Keller

Question and comments should be sent to Harold W. Keller, Department of Biology, Central Missouri State University, Warrensburg, MO 64093 or email: <haroldkeller@hotmail.com>.

Dr. Harold Keller's tree climbing team from Central Missouri State University continues to find interesting records from the Smokies' stands of old growth forest. On August 2, they found Common Polypody ferns up 130 feet in huge tulip trees on the Ramsey Cascades trail. While ferns are common on the ground and especially on low mossy boulders in the Park, we have never heard of them this far up in a tree. If their above ground "altitudinal range" is just a few feet, this record certainly smashes the old record. The climbers also have found several species of snails as far as 90 feet above the ground in trees. The snails are being identified by other ATBI scien-

tists. Keller and his group were also filmed by the Heartland Series for a piece expected to be aired in mid-September.

-- Keith Langdon, Ranger
Inventory & Monitoring Supervisor
GSMNP

Polypodium appalachianum habit (right). Plants perennial, erect and epiphytic in tree canopy on horizontal branch. Blades deltate, widest at or near the base. Underside of blade with segments showing round sori (clusters of sporangia). Photo by Harold Keller.



Additional Comments Prepared by Harold W. Keller

More new records and new species of Myxomycetes have been found. *Echinostelium elachiston* is a rare and misunderstood myxomycete species known only from Kansas in the United States. This species developed in moist chamber culture on bark collected from white ash at a height of 21 meters in the area of Baxter Creek near Big Creek Campground. A new species of *Diachea* restricted to the upper canopy above 10 meters was found at varying heights up to 25 meters. Plasmodial tracks covered the bark in certain areas and stalked sporangia were collected by climbers directly from the bark of living white oak trees. Slugs were observed selectively feeding on immature fruiting bodies of the myxomycete *Stemonitis axifera* on a decaying log on ground sites. The same slug species were also found in the tree canopy at heights of 10 to 20 meters associated with seeping wounds or water-filled knot holes. A number of new tardi-grade records for the park will be published in the near future. For additional information about tree canopy diversity and climbing techniques, contact Harold W. Keller.



Climber Damon Lesmeister has used the Big Shot slingshot to shoot the red, heavily weighted, throw bag and lightweight, yellow slick line over a branch. The slick line is now coiled at the bottom right of the trunk. The heavy climbing rope is tied to the slick line and pulled over a branch to prepare to ascend the tree. This tree climbing technique is called the double rope technique. This giant, champion-sized *Liriodendron tulipifera* (tulip poplar) tree was located about 1.61 kilometers up the Ramsay Cascades Trail in the eastern Tennessee part of the park. This tree measured 168 cm in diameter at breast height and 52.8 meters in total height. Photo by Harold Keller.



Fruiting body of *Lentaria byssiseda*, a small clavarioid basidiomycete on living black oak, *Quercus velutina*. Apparently the fruiting bodies always grow on trunks of living trees. These specimens extended from about 3 to 6 meters scattered along the bark surface of the tree. This tree was located in the GSMNP at the junction of the Schoolhouse Gap Road and the Turkey Pen Ridge Trail sign. Identification through the courtesy of Ron Petersen at the University of Tennessee-Knoxville.



Climber Damon Lesmeister ascending tree using a climbing saddle and a friction knot called the Blake's hitch. Note the yellow elevation line trailing from the saddle.



Shown here is *Marasmiellus opacus* (Berk. & Curt.) Singer fruiting on the upper surface of a horizontal branch at about 6 meters. Fruiting bodies were scattered all along this branch mixed with *Mycena supina* sensu AH Smith, pro parte. Jean Lodge identified these specimens. Photo by Harold Keller.

Television Storyline

A television feature entitled "A Study with a View" with a running time five minutes was part of WBIR's Heartland Series. Bill Landry is the host/narrator and co-producer since the Heartland Series was conceived in 1984 to commemorate the 50th anniversary of the founding of the Great Smoky Mountains National Park. This program includes five-minute features that celebrate the people and the land of the entire Appalachian region. The Heartland Series has a 30-minute time-slot airing each Saturday at 7:30 p.m. on WBIR Channel 10 in Knoxville, Tennessee. The television crew spent two half days shooting the climbing and sampling techniques in the Cades Cove area of the Great Smoky Mountains National Park. Many of the panoramic views were shot from a cherry picker with the cameraman in the bucket at a height of 70 to 80 feet. A video tape is available for viewing the double rope climbing technique used to access the tree canopy. More information is available about the Tree Canopy Biodiversity (Myxomycetes, macro-fungi, mosses, liverworts and lichens) in the Great Smoky Mountains National Park by contacting Harold W. Keller at Department of Biology, W.C. Morris 118, Central Missouri State University, Warrensburg, MO 64093; or 660-543-4823 (Harold's Office) or 660-543-4933 (Biology Office); or FAX 660-543-8333; or email: <haroldkeller@hotmail.com>. ■

MSA BUSINESS

From the President's Corner

Due to the sudden and unexpected death of Tim's mother in December, there will not be a message from MSA President Tim Baroni. I know that everyone in the society joins me in expressing our deepest sympathy to Tim for his loss. Anyone wishing to express their sympathy to Tim can do so at baronitj@syncorva.cortland.edu or PO Box 2000, Dept. Biological Sciences, SUNY - College at Cortland, Cortland, NY, USA 13045.

-- Donald G. Ruch
Editor *Inoculum*

MSA Council Email Express

Since October 1, 2001, MSA Council has taken the following actions:

Email Council Poll 2001b-03 – On October 18, 2001, General Council approved Dr **Gary Samuels** to a three-year term (2002-2004) as *Mycologia* **Associate Editor**.

Email Council Poll 2001b-04 – On October 18, 2001, General Council approved Dr **David Geiser** to a six year term (2001-6) to the *Mycologia* **Editorial Advisory Committee**.

Email Council Poll 2001b-05 – On October 20, 2001, General Council approved Dr **Richard Kerrigan** to a three-year term (2002-2004) as *Mycologia* **Associate Editor** in the area of genetics and molecular biology.

Email Council Poll 2001b-06 – On November 2, General Council approved the **MSA Mid-career Fellows Award guidelines** as set forth by the MSA Fellows Award *ad hoc* committee (Past Presidents Dr **Linda Kohn**, Chair; Dr **Meredith Blackwell**; Dr **Mary Palm-Hernández**) submitted for preliminary consideration by Council on October 14.

Email Council Poll 2001b-07 – On December 18, General Council considered three **2002 travel** options forwarded by Dr **D Jean Lodge**. The options included (i) no group travel arrangements; (ii) group charters only on Finair through a travel agent for the IMC7 meetings in Oslo, Norway with connections through Helsinki; (iii) group travel agreement for the ALM in Xalapa (aka, Jalapa) Mexico, MSA in Corvallis (fly into Portland and take the shuttles), and IMC7 in Oslo Norway, with free tickets to be used in support of student and invited speaker travel in 2003. Because neither option (ii) or (iii) received a majority of the support, no Council recommendations are forthcoming at this time.

Other Secretarial Notes

Welcome, New Members! Although candidates for MSA membership cannot vote until formally approved at the annual general business meeting, they do receive *Mycologia* and *Inoculum* immediately after Allen Press processes their

applications. In September, October, and November, the following 41 people applied for MSA first-time membership: **Carolyn Babcock, David Baker, Luca Baldazzi, James Bedard, Henry J Beker, Jinx Campbell, Cindy K Cordery, Diana Davis, Bernie Dell, Javier Dieguez, Leslie Eddington, Austen Ganley, Robert Garrison, Peter Gay, Denise Gregory, Nina Gunde-Cimerman, Jennifer Harkness, Kaare Hombler, Craig Huntzinger, Rosiland James, Seong Kim, Carrie LaPaire, Seonju Lee, Ralf Lindemuth, Jon Magnuson, Erin MacDonald, Kathy McLean, Claudia Nischwitz, Kimberley Nugent, Noel Perpetua, Jeff Piotrowski, Amy Powell, Maria Ramirez, Cristina Reynaga-Pen, Jose Ruiz-Herrera, Christopher Schadt, Conrad Schoch, Andrew Schurko, Larry St Clair, Andrew Swanson, and Andrew Wilson**. Welcome back to the 8 former members — **Richard Baird, Douglas D Brown, Chester R Cooper, Dean Glawe, Kathy McLean, Don Natvig, Dennis Oliver, and Dennis Tyburski**, — who also rejoined MSA during that time.



Scott Redhead

Emeritus membership status is conferred upon long-time members who have retired and have been MSA members in good standing for at least 15 years. Those who have recently requested Emeritus membership status include **DG Ahearn, Ralph Kurtzman, David L Largent, and Larry Don Robertson**.

-- Lorelei Norvell
MSA Secretary

2002 MSA Foray

The **2002 MSA Foray** will occur on **Sunday, June 23, 2002**. Although the details have not yet been worked out, a brief overview of the foray is presented below. For complete details, including a description of the various habitats, cost, etc., please see the next issue of *Inoculum* [53(2)].

Due to the impactability of parking three large buses at one site, participants of this year's foray will collect at different sites. One bus will go to Iron Mountain for a one stop all day hike. These participants could hike to the top of the mountain or look around the woods. This site is excellent for Spring flowers and mushrooms. The other two buses will go to different Old growth forests for the morning session. These participants will meet at Clear Lake for lunch. After lunch both buses will go to Tombstone meadow for the afternoon collecting session. (Please note: this itinerary is based on a foray with three buses or approximately 120+ participants.)

-- Francisco (Ankie) Camacho
Foray Local Arrangements
-- Donald Ruch
Foray Coordinator
druch@bsu.edu

YEAR 2002: CALL FOR PAPERS

The Annual Meeting of the MYCOLOGICAL SOCIETY OF AMERICA

will be held on June 23-26

in CORVALLIS, OREGON

The Society cordially invites those who are participating in a symposium or who wish to present a paper or poster to visit the MSA abstract submission web site:

<http://www.erin.utoronto.ca/~janderso/msa/>

To be listed on the program each contributed paper, poster and symposium presentation must be submitted separately, and an abstract must accompany each submission.

Graduate students must indicate whether they wish to be considered for a prize for the oral presentation or poster that is most outstanding in mycological content and manner of presentation.

Complete instructions and full abstract searches are available on the web site.

Submission Deadline is March 1, 2002

Late submissions will not be accepted due to the tight publication schedule.

Questions should be directed to

Keith Egger <egger@unbc.ca>; PHONE 250-960-5860; FAX 250-960-5538

Seeking Nominations

MSA has elected as Honorary Members a number of distinguished mycologists (see <http://msafungi.org>). The Honorary Members Committee will be reviewing nominations for 2002. Members of MSA may submit nominations. For the purpose of evaluation an Honorary Member is a distinguished senior scientist with a long record of significant contributions to knowledge of fungal biology and who reside in and work in countries other than the U.S.A. and Canada. Nominations typically consist of a brief nominating letter that highlights the scientists achievements, a CV, list of publications and a select few letters of support. Nominations should be sent or emailed to me at <ginnsj@telus.net>.

– *Jim Ginns, Chair*
Honorary Members Committee

New Membership Directory

Approximately every three years MSA prints a membership directory. The next edition is scheduled to be mailed with the July-August, 2002 mailing of *Mycologia*. If you have any suggestions, such as the color of the cover or the formatting, let me know. If your mailing address, phone, fax or email address has changed, please take five minutes and revise your data at <www.msafungi.org>. If anyone is interested in gaining valuable experience by proofreading the manuscript, please contact me.

-- *Jim Ginns*
Managing Editor, *Mycologia*

Student Travel Award Opportunity

The Coordinating Committee of the Third International Congress on the Ecology and Systematics of Myxomycetes (ICSEM 3) solicits applications for travel grants to students to attend the *Fourth International Congress* (ICSEM 4) meeting in Brussels in August of 2002.

The Committee will fund as many as three grants for up to \$500 each.

Preference will be given to students who will be making oral or poster presentation at ICSEM 4.

Applications, which should include a curriculum vitae, a letter of support (which should address the student's abilities and potential and briefly summarize the student's current research) from the applicant's major professor, and an abstract of any planned presentation,

should be submitted to:

Dr. John C. Landolt

Department of Biology, Shepherd College

Shepherdstown, WV 25443

no later than April 1, 2002.

Awards will be announced by April 30, 2002.

– *John C. Landolt, PhD*
jlandolt@shepherd.edu

MYCOLOGICAL NEWS

Second Chance: *Should the Type of Coprinus be Changed?*

As I thought this deserved a wider circulation, I have posted a copy Lorelei Norvell's *Coprinus* article (e.g., the title above) from *Inoculum* 52(5):5, October 2001, on the **Mycovescence section** of my web site, **Mycolegium** <www.science.ulst.ac.uk/rtm/index.html>. Lorelei has indicated that to date she has received very few replies to her question, "Should the type of *Coprinus* be changed?" If you have not yet done so, please take time to send her your thoughts on the subject. The formatting of the web site includes a mailto link to Lorelei.

-- *Royall T. Moore*
RT.Moore@ulst.ac.uk

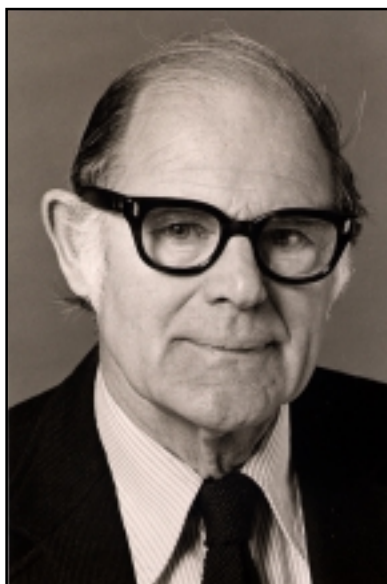
Joan W. Bennett Visits Japan

From December 6 to 13, Prof. **Joan W. Bennett** was invited to Japan to participate in the 16th Symposium organized by Kanto Branch of the Mycological Society of Japan. The symposium focused on the impact of genomics on the society and mycology. Her presentation, entitled "Fungal genomics and modern mycology: annotation and analysis," and included history, examples of genomic projects of fungi, and expectations in the future, was very well received by the audience. In addition, Professor Bennett was invited to give a special lecture on "Biotechnology and Dr. **Jokichi Takamine**, a private diplomat between the USA and Japan" at Tamagawa University, Tokyo. After these two events, she made a short visit to Kanazawa, by invitation of Mr. **Yamamoto** of Shin Nihon Chemical, in order to investigate the footprints of Dr. Takamine.

-- **Toru Okuda, Ph D**
Tamagawa University Research Institute
torula@lab.tamagawa.ac.jp

Herman J. Phaff Receives Award of Distinction from UC Davis

Herman J. Phaff (deceased) joined the UC Davis Department of Food Science and Technology faculty in 1954 when the department was transferred from the UC Berkeley campus. Recognized as an international authority on the biology of yeasts, he made contributions in both pure and applied areas, including his early studies on fruit dehydration. Two yeast genera and several yeast species, were named for Phaff by other yeast taxonomists, a



Herman J. Phaff

rare honor and an indication of the high esteem of his colleagues. In 1996, the college of Herman's home department formally dedicated the Herman J. Phaff Culture Collection: Yeasts and Yeast-like Microorganisms as an official biological collection of the University of California. Phaff's widow, **Diane Phaff**, accepted his award posthumously.

-- **Sharon Lynch**
selynch@ucdavis.edu

Stephen T. Moss Dies

Stephen T. Moss, President of our Honorary Society, the British Mycological Society, died suddenly of a heart attack at home 25 October 2001. Many US mycologists first met Steve when he was a postdoctoral associate in **Bob Lichtwardt's** laboratory at the University of Kansas. His superb electron micrographs helped to elucidate trichospore development, and his work on the group as well as marine aquatic fungi is well known. His is a tragic loss, doubly so because in addition to his mycological contributions, Steve was a kind and generous person devoted fully to furthering mycology (see <<http://www.britmycolsoc.org.uk/about/president.htm>>).



Stephen T. Moss

The Annual General Meeting of the British Mycological Society held 8 December 2001 was dedicated to Steve. Condolences may be expressed to his wife Mrs. **Jan Moss**, 81 St Thomas's Road, Gosport, Hants. PO12 4JU, United Kingdom.

-- **Meredith Blackwell**
btblac@unix1.sncc.lsu.edu



An interesting image from Tom Volk's Fungi Web Site:
<http://www.wiscinfo.wisc.edu/botany/fungi/volkmyco.html>.

THE MYCOLOGIST'S BOOKSHELF

In this first issue of the New Year we feature books received from October through December 2001, and list previously featured books received since January 2001. Reviews are needed for several new books if you have the time over the next several months. Please check the list, send me an Email at YZJOZ@TTACS.TTU.EDU and I will try to accommodate your request as soon as possible. I hope that your holidays were restful and that you all have a successful and well funded 2002. John Zak, BOOK REVIEW EDITOR

BOOKS & PUBLICATIONS RECEIVED OCTOBER THROUGH DECEMBER 2001

▪ **Candida and Candidiasis.** 2001. RA Calderone (ed). ASM Press. PO Box 605, Herndon, VA 2017, books@asmusa.org, 472 pp. Price: \$100 US. *Review needed.*

▪ **The Mycota Vol VII A & B, Systematics and Evolution.** 2001. DJ McLaughlin, EG McLaughlin, and PA Lempke (eds.). Springer-Verlag New York, Inc., PO Box 19386, Newark, NJ 07195-9386,

service@springer-ny.com, Part A 366 pp, Part B 259 pp. Price: Part A is \$215 US, Part B is \$159 US. *Review needed.*

PREVIOUSLY LISTED BOOKS FROM OCTOBER 2000

▪ **A Laboratory Guide To Common Penillium Species,** 3rd ed. 2000. JI Pitt, Copies available from Dr. JI Pitt, Food Science Australia, 16 Julius Avenue, Riverside Corporate Park, Delhi Road, PO Box 52, North Ryde NSW, 1670 Australia, John.Pitt@foodscience.afisc.cisro.au, 197 pp. Price: \$65 US including shipping. *Review in progress.*

▪ **Advances in Verticillium: Research and Disease Management.** 2000. EC Tjamos, RC Rowe, JB Heale, DR Fravel (eds.). APS Press, 3340 Pilot Knob Road, St. Paul, MN 55121-2097, aps@scisoc.org, 376 pp. Price: \$54 US. *Requested from publisher.*

▪ **The Amanita caesarea-Complex.** Bibliotheca Mycologica No 187. 2001. G Guzman and FRamirez-Guillen. J Cramer in der Gebruder Borntraeger Verlagsbuchhandlung, D-14129, Berlin, Germany, 66pp, Price: Unknown. *Reviewer needed.*

▪ **Atlas of Clinical Fungi,** 2nd edition. 2000. GS de Hoog, J. Guarro, J. Gené and MJ Figueras. Centraalbureau voor Schimmelcultures, Padualaan *, Utrecht, NL-3584 CT, The Netherlands, 1126 pp. Price: Not confirmed. *Review in progress.*

▪ **Basic Biotechnology,** 2nd edition. 2001. C Ratledge and B Kristiansen (eds.), Cambridge University Press, The Edinburgh Building, Cambridge CB2 2RU, UK, 568 pp. Price: \$45 US. *Review needed.*

▪ **Bio-Exploitation of Filamentous Fungi.** 2000. SB Pointing and KD Hyde (eds.), Fungal Diversity Press, The center for Research in Fungal Diversity, Department of Ecology & Biodiversity, Kadoorie Biological Sciences Building,

The University of Hong Kong, Pokfulam Road, Hong Kong SAR, China, kdhyde@hkucc.hku.hk, Price: \$100 US. + \$16 for air mail. *Requested from publisher.*

▪ **Cell Biology of Plant and Fungal Tip Growth.** 2001. A Geitmann, M Cresti, and IB Heath (eds). NATO Science Series I. Life and Behavioural Sciences, IOS Press, Nieuwe Hemweg 6B, 1013 BG Amsterdam, Netherlands, www.iospress.nl, 241pp, Price: unknown. *Review needed.*

▪ **Check List of Hong Kong Fungi.** 2000. BS Lu, KD Hyde, WH Ho, JE Taylor, KM Tsui, MKM Wong, Y Zhou and DQ Zhou (eds.), Fungal Diversity Press, The center for Research in Fungal Diversity, Department of Ecology & Biodiversity, Kadoorie Biological Sciences Building, The University of Hong Kong, Pokfulam Road, Hong Kong SAR, China, kdhyde@hkucc.hku.hk, 376 pp. Price: \$20 US. + \$8 for air mail. *Requested from publisher.*

▪ **Common Florida Mushrooms.** 2000. J Kimbrough. University of Florida Institute of Food and Agricultural Sciences (IFAS), Building 116, PO Box 110810, Gainesville, FL 32611-0810, esquires@gnv.ufl.edu, 342 pp. Price: \$20 US + shipping. *Review needed.*

▪ **Colletotrichum: Host Specificity, Pathology, and Host-Pathogen Interaction.** 2000. D Prusky, S Freeman, and M Dickman (eds.). APS Press, 3340 Pilot Knob Road, St. Paul MN 55121-2097. Aps@scisoc.org, or APS Press Europe Branch Office, Brokestraat 47, B-3001, Heverlee, Belgium, apspress@pophost.eunet.be, 448 pp. Price: \$99 US. *Requested from publisher.*

▪ **Current Advances in Mycorrhizae Research.** 2000. GK Podilla and DD Douds, Jr (eds). APS Press, 3340 Pilot Knob Road, St. Paul, MN 55121. 214 pp. aps@sisoc.org. Price: \$38. *Book requested from publisher.*

▪ **The Deuteromycetes: Mitosporic Fungi Classification and Generic Key.** 2000. E Kiffer and M Morlet. Science Publishers Inc. PO Box 699, Enfield, NH 03748. The book is a translation of: Les Deuteromycetes Classification et Cles d'Identification Generique. 1997. Text updated by the authors for the English edition in 1999. 273 pp. Price: \$85 US. *Reviewed in Inoculum vol 52(6): 33.*

▪ **Dictyostelium: Evolution, Cell Biology, and the Development of Multicellularity.** 2001. RH Kessin and J Franke, Cambridge University Press, The Edinburgh Building, Cambridge CB2 2RU, UK. Price: \$90.00 US. *Review in progress.*

▪ **A Dictionary of Plant Pathology** 2nd edition. 2001. P Holliday. Cambridge Univ. Press, The Edinburgh Building, Cambridge CB2 2RU, UK, www.cambridge.org, 536pp. Price: Hardback - \$120 US, Paperback - \$45 US. *Review needed.*

▪ **Dimorphism in Human Pathogenic and Apathogenic Yeasts.** 2000. JF Ernst and A Schmidt (eds.). S Karger Publishers, Inc., 26 West Avon Road, PO Box 529, Farmington, CT 06085, 246pp, Price: \$109 US. *Review needed.*

▪ **Flora Agaricina Neerlandica: Volume 4. Strophariaceae, Tricholomataceae.** 2000. C Bas, THW Kuyper, NE Noordeloos, and EC Vellinga (eds.). AA Balkema Uitgevers B.V.,

THE MYCOLOGIST'S BOOKSHELF *con't*

Postbus 1867, NL-3000 BR Rotterdam, Netherlands, sales@balkema.nl, 191 pp. Price: Hfl 2.2. Review in progress.

▪ **Funghi Ipogei d'Europa.** 2000. A Montecchi and M. Sarasini. Fondazione centro Studi Micologici dall'Associazione Micologica Bresadola, PO Box 296, 36100 Vicenza, Italy, 714 pp. Price: unknown. *Review in progress.*

▪ **Fungal Associations,** The Mycota Vol 9. 2000. B Hock (ed). Springer-Verlag New York, Inc, 175 Fifth Avenue, New York, NY 10010, textbooks@springer-ny.com, 250 pp. Price: \$159 US. (Hardcover). *Requested from publisher.*

▪ **Fungal Conservation: issues and Solutions.** 2001. D More, MM Nauta, SE Evans, and M Rotheroe (eds.), Cambridge University Press, The Edinburgh Building, Cambridge CB2 2RU, UK, www.cambridge.org, 262pp. Price: \$95 US. *Review in progress.*

▪ **Fungal Protoplasts: A Biotechnological Tool.** 2000. D Lalithakumari, Science Publishers, Inc, PO Box 699, Enfield NH 03748, info@scipub.net, 184 pp. Price: \$50 US. *Review needed.*

▪ **Funghi Ipogei d'Europa.** 2000. Associazione Micologica Bresadola, Via A. Volta, 46 - 38100 Trento, Italia *Book requested from publisher.*

▪ **Fungal Strategies of Wood Decay in Trees.** 2000. FWMR Schwarze, J Engels, and C Mattheck. Springer-Verlag New York Inc, 175 Fifth Ave., New York, NY 10010, link@springer-ny.com, 220 pp. Price: \$54 US. *Book requested from publisher.*

▪ **Fusarium: Paul E Nelson Memorial Symposium.** 2001. BA Summerell, J Leslie, D Backhouse, WL Bryden, and LW Burgess (eds.), APS Press, 3340 Pilot Knob Road, St. Paul, MN 55121-2097, aps@scisoc.org, 408 pp. Price: \$59 US. *Book requested from publisher.*

▪ **Genera of Ascomycetes from Palms.** 2000. KD Hyde, JE Taylor, J Frohlich (eds.). Fungal Diversity Press, The center for Research in Fungal Diversity, Department of Ecology & Biodiversity, Kadoorie Biological Sciences Building, The University of Hong Kong, Pokfulam

Road, Hong Kong SAR, China, kdhyde@hkucc.hku.hk, Price: \$100 US. + \$16 for air mail. *Requested from publisher.*

▪ **Hemp Diseases and Pests: Management and Biological Control.** 2000. JM McPartland, RC Clarke, DP Watson. CABI Publishing: Wallingford, Oxon, OX10 8DE, UK. 251 pp. Price: Hardback - \$90 US. *Reviewed in Inoculum 52(1):15-16.*

▪ **Illustrated Dictionary of Mycology.** 2000. M Ulloa and RT Hanlin. APS Press, 3340 Pilot Knob Road, St. Paul MN 55121-2097. aps@scisoc.org, or APS Press Europe Branch Office, Brokestraat 47, B-3001, Heverlee, Belgium, apspress@pophost.eunet.be, 448 pp. Price: \$99 US. *Requested from publisher.*

▪ **Illustrated Genera of Trichomyces: Fungal Symbionts of Insects and Other Arthropods.** 2000. JK Misra and RW Lichtwardt. Science Publishers, Inc., PO Box 699, Enfield, NH 03748, info@scipub.net. 155 pp. Price: \$30 US. *Review needed.*

▪ **Les Champignons Forestiers, Recolte, Commercialisation et Conservation de la Ressource** (Conference proceedings, articles in French and English). 2000. JA Fortin and Y Piche (eds.), CRBF, Université Laval, Quebec, Canada, G1K 7P4. 119 pp. *Review needed.*

▪ **Lichens.** W. Purvis. 2000. Smithsonian Institution Press, Washington, DC. 112 pp. Price: \$14.95 US. Available through the Smithsonian Institution Press Warehouse at 1-800-782-4612 or at amazon.com or borders.com. *Reviewed in Inoculum 52 (3): 72.*

▪ **Lichens of Antarctica and South Georgia: A Guide to their Identification and Ecology.** Studies in Polar Research. 2001. DO Ovstedal and RL Lewis-Smith. Cambridge University Press, The Edinburgh Building, Cambridge CB2 2RU, UK, www.cambridge.org, 411 pp. Price: \$100 US. *Review in progress.*

▪ **Lichens of North America.** 2001. IM Brodo, SD Sharnoff, and S Sharnoff. Yale University Press, P.O. Box 209040, New Haven, CT 06520, 795 pp. Price: \$70 US. *Review in progress.*

▪ **Marine Mycology – A Practical Approach.** 2000. KD Hyde and SP Pointing (eds.). Fungal Diversity Press, The center for Research in Fungal Diversity, Department of Ecology & Biodiversity, Kadoorie Biological Sciences Building, The University of Hong Kong, Pokfulam Road, Hong Kong SAR, China, kdhyde@hkucc.hku.hk, 376 pp. Price: \$100 US. + \$16 for air mail. *Requested from publisher.*

▪ **Microbial Endophytes.** 2000. CW Bacon, JF White, Jr (eds). Marcel Dekker, Inc, New York. 487 pp. *Review needed.*

▪ **Molecules, Morphology and Classification: Towards Monophyletic Genera in the Ascomycetes. Studies in Mycology 45.** 2000. KA Seifert, W Gams, P W Crous, GJ Samuels. Centraalbureau voor Schimmelcultures: Baarn/Delft, The Netherlands. 230 pp. Price: 100 HLG. *Reviewed in Inoculum 52(5): 27-28.*

▪ **Molecular and Cellular Biology of Filamentous Fungi.** 2001. N Talbot (ed). Oxford University Press, Great Clarendon Street, Oxford OX2 6DP, UK. www.oup.co.uk/pas, see Practical Approaches Series for additional information, 267pp. price: \$115 US. *Review needed.*

▪ **Mushroom Science XV, Science and Cultivation of Edible Fungi.** 2000. LJLD. Van Griensven (ed). AA Balkema, PO Box 1675, 3000 BR Rotterdam, Netherlands <www.balkema.nl.com>, Ashgate Publishing, Old Post Road, Brookfield, VT 05036, Volume 464 pp. Volume 2 pages 467-964, Hardbacks Price: \$160 U.S. <www.ashgate.com> <info@ashgate.com>. *Reviewed in Inoculum 52 (3):72-73.*

▪ **Mushrooms of CapCod and the National Seashore.** 2001. AR Bessette, AE Bessette, and WJ Neill. Syracuse University Press, 621 Skytop Rd, Suite 110, Syracuse, NY 13244-5290, sumweb.syr.edu/su_press/, 174pp. Price: Hardback - \$60 US, Paper - \$27 US. *Review needed.*

▪ **Mycotoxin Protocols. Methods in Molecular Biology Vol. 157.** 2000. MW Truckess, AE Pohland (eds). Humana Press Inc: 999 Riverview Drive, Suite 208, Totowa, NJ 07512 USA. 244 pp. *Review needed.*

THE MYCOLOGIST'S BOOKSHELF *concl'd*

▪ **Myxomycetes: A Handbook of Slime Molds**, paperback edition, 2000. SS Stephenson, H Stempen. Timber Press, Inc, 133 SW Second Avenue, Suite 450, Portland OR 97204, mail@timberpress.com, 183 pp. Price: \$19.95 US. *Review in progress.*

▪ **The Neurospora Compendium**. 2000. DD Perkins, A Radford, and MS Sachs. Academic Press, 6277 Sea harbor Drive, Orlando FL 32887, or 24-28 Oval Road, London NW1 7DX, UK, ap@acad.com. 350pp. Price: \$85 US. *Requested from publisher.*

▪ **North American Boletes: A Color Guide to the Fleshy Pored Mushrooms**. 2000. AE Bessette, WC Roody, AR Bessette. Syracuse University Press, 621 Skytop Road, Suite 110, Syracuse, NY 13244-5290, twalsh01@syr.edu. 356 pp. Price: \$95 US. *Reviewed in Inoculum 52(3):73-74.*

▪ **Palm Microfungi**. 2000. J Frolich and KD Hyde (eds.), Fungal Diversity Press, The center for Research in Fungal Diversity, Department of Ecology & Biodiversity, Kadoorie Biological Sciences Building, The University of Hong Kong, Pokfulam Road, Hong Kong SAR, China, kdhyde@hkucc.hku.hk. Price: \$100 US. + \$16 for air mail. *Requested from publisher.*

▪ **The Rainbow Beneath my Feet: A Mushroom Dyer's Field Guide**. 2001. AR Bessette and AE Bessette. Syracuse

University Press, 621 Skytop Rd, Suite 110, Syracuse, NY 13244-5290, sumweb.syr.edu/su_press/, 176pp. Price: Unknown. *Review needed.*

▪ **Slayers, Saviors, Servants, and Sex: An Expose of the Kingdom Fungi**. 2001. D Moore. Springer Verlag Customer Service, PO Box 2485, Secaucus, NJ 07096, orders@springer-ny.com. Price not confirmed. *Book requested from publishers.*

▪ **Symbiosis: An Introduction to Biological Associations**, 2nd edition. 2000. S Paracer and V Ahmadjian, Oxford University Press, 2001 Evans Road, Cary, NC 27513, 304 pp. Price: \$35 US (Softcover). *Book requested from publisher.*

▪ **Synopsis of Fossil Fungal Spores, Mycelia and Fructification**. 2000. RM Katgutkar and J Jansonius. Order from: Vaughn M Bryant, Jr., Secretary AASP Foundation, c/o Palynology Laboratory, Texas A&M University, College Station, TX 77843-4352, ybryant@neo.tamu.edu, 423pp. Price: \$33 US. *Reviewed in Inoculum 52 (3):74-75.*

▪ **Yeasts: Characteristics and Identification**. 3rd edition. 2000. JA Barnett, RW Payne, D Yarrow. Cambridge University Press, The Edinburgh Building, Cambridge CB22RU, UK. 1139pp. Price: \$320 US Hardback. *Review needed.*

Of Related Interest....

▪ **Enfoques Contemporaneos para el Estudio de la Biodiversidad**. 2001. HM Hernandez, AN Garcia Aldrete, F Alvarez and M Ulloa (eds.), Instituto De Biologia, Universidad Nacional Autonoma de Mexico, Ciudad Universitaria, 04510 Mexico, DF, 413pp. The book is written in Spanish and contains a series of presentations that cover topic as diverse as "Molecular systematics and evolution of cultivated plants", "Biodiversity and conservation of corals", and the "World and regional diversity of mushrooms." *Contact Book Review Editor if interested in this book.*

▪ **Plant Galls of India**, 2nd edition, 2000. MS Mani, Science Publishers, Inc, PO Box 699, Enfield NH 03748, info@scipub.net, 184pp. Price: \$112 US. *Book Available.*

▪ **Structure and Function in Agroecosystem Design and Management**. 2001. M Shiyomi and H Koizumi (eds.). CRC Press LLC, 2000 NW Corporate Blvd., Boca Raton, FL 33431, www.crcpress.com, 435 pp. Price: \$65.00 US.

▪ Editors Note: Dr. Robert Lichtwart has informed me that: **The Revised Edition of the Trichomyces: Fungal Associates of Arthropods** is available to anyone at the following website: www.nhm.ukans.edu/~fungi. *Review in progress.*

MYCOLOGICAL CLASSIFIEDS

Mycological Goods and Services

Mold testing and identification services. Identification and contamination control for indoor air quality including home and building mold test kits, food technology, spawn technology, plant diseases. ASTM & Mil-Spec testing for aerospace, controlled environments and environmental engineering. 10% discount for regular and sustaining MSA members. Email

<microbe@pioneer.net>; Voice mail 541.929.5984; Surface mail **Abbey Lane Laboratory LLC**, PO Box 1665, Philomath, OR 97370 USA. For more information see <www.pioneer.net/~microbe/abbeylab.html>.

– *Steven E. Carpenter*
Abbey Lane Laboratory, LLC

Book Wanted

Olive, L. S. (1975) **The Mycetozoans**. Academic Press, New York. Contact: **Steve Stephenson**, Department of Biology, Fairmont State College, Fairmont, WV 26554 USA. Email: <ss Stephenson@mail.fscwv.edu>.

-- *Steven L. Stephenson*

MYCOLOGICAL CLASSIFIEDS *con't*

Fleshy Fungi of the Highlands Plateau Course

July 15-27, 2002. 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 \$50-70 per week (with linen). The station does not serve meals but a fully equipped kitchen is available with grocery stores and restaurants available in town. Three semester hours of advanced undergraduate credit is available from Western Carolina University or UNC-Chapel Hill. Tuition is \$400. For additional information contact Dr **Andrew S Methven**, Department of Biological Sciences, Eastern Illinois University, Charleston, IL 61920; phone 217.581.6241; Email: <cfasm@eiu.edu> or Dr **Robert Wyatt**, Director, Highlands Biological Station, PO Box 580, Highlands, NC 28741; Website: <www.wcu.edu/hibio>.



Andrew Methven, Instructor

Upcoming Mycological Meetings . . .

Mid-Atlantic States Mycology Conference (MASMC)

The Mid-Atlantic States Mycology Conference (MASMC) will be held at the USDA Systematic Botany and Mycology Laboratory in Beltsville, MD from April 20-21, 2002. Dr. Jean Lodge, USDA-Forest Service, Puerto Rico, is the invited speaker whose expertise on ascomycetes and basidiomycetes, systematics, ecology and biodiversity, will provide something mycological of interest to everyone!

The two-day meeting includes an informal gathering on Friday evening followed by one day of paper and poster presentations and a banquet dinner with Jean. Sunday is reserved for collecting in the Catocin Mts. where the morels should be out! Here's a chance to get a small dose of the latest research and meet with mycologists. For more information or questions, contact **Amy Rossman** at amy@nt.ars-grin.gov or look for MASMC at our website <<http://nt.ars-grin.gov/masmc/>>.

-- Amy Rossman



Fourth International Congress on the Systematics and Ecology of Myxomycetes

The Fourth International Congress on the Systematics and Ecology of Myxomycetes (ICSEM-4) will be held in Brussels, Belgium from 4 August to 9 August 2002. Specifically, it will be held at the National Botanic Garden of Belgium which is situated in the historic Domain of Bouchout, a part of the small village of Meise located near Brussels. Professor **J. Rammeloo**, Director of the National Botanic Garden of Belgium and President of the ICSEM-4 Congress. For further information, contact **Dr. Rammeloo** at Secretariat, Domein van Bouchout, B-1860 Meise, Belgium or email <Rammeloo@br.fgov.be>.

-- *Harold Keller, PhD*
Keller@cmsu1.cmsu.edu

Second Circular and Registration Information for IMC 7

The second circular and registration information for IMC 7 to be held 11-17 August in Oslo, Norway is available at <<http://www.uio.no/conferences/imc7/>>. The updated site includes the scientific program, excursion information, on-line registration, and an electronic abstract submission form among other items. Check it out today!

-- *Meredith Blackwell*
btblac@unix1.sncc.lsu.edu

Positions Available

Senior Research Biologist in Borate Research

We are looking for a Senior Research Biologist that can think innovatively to help develop new uses for Borate, currently used as a wood preservative to control bacteria and fungal growth. In addition to research and development, other responsibilities will include performing trial runs of new processes

with customers, making presentations, and writing reports.

The successful candidate will have a PhD in microbiology or a related field. A background in water treatment, agricultural biocides, or microbiology, along with strong chemistry skills, will provide a candidate with the scientific knowledge they need to couple with innovative thinking for the R&D process. Knowledge of EPA

MYCOLOGICAL CLASSIFIEDS *con't*

Positions Available con't

regulations associated with new product development is highly desired. This position is located in Southern California. A competitive package of compensation, benefits, and relocation is available. Qualified candidates should send a CV to <ksr157m@searchmastersinternational.com>.

– **Angela Wallace**
858.453.4526
wallaad@searchmastersinternational.com

EMLAB has Two Positions in the San Francisco Bay Area

Microbiologist/Mycologist/Aerobiologist: Core Responsibilities: Analysis of bioaerosol and microbial samples for fungi & bacteria. Responsible for day-to-day analysis of culturable and non-culturable surface and air samples. Work with a variety of sampling media for optimal results. **Qualifications:** BA/BS or Master's in Biology, Botany, Microbiology, or related field; 2-3 years experience doing fungal and/or bacterial analysis in a lab environment

Each microbiologist is responsible for the day-to-day analysis of culturable and non-culturable surface and air samples. The work is performed in our laboratory and is done on a client-based priority, depending on the urgency of the needed results. Each analyst is required to be knowledgeable, thorough, and efficient in his or her analysis of samples, while working in a team based environment.

Laboratory Technician: Core responsibilities: Prepare bioaerosol and microbial samples for bacterial and/or fungal analyses; possibly train to become a qualified indoor air quality analyst. **Qualifications:** BA/BS in Biology or related field. Two years laboratory work experience. Work experience in sterile technique and microscopy preferred.

For more information about either position, please visit our website at <www.emlab.com>. Email resume to houston@emlab.com or FAX to 650-991-2243.

– **Heather Houston**
Human Resources, EMLAB

EMSL Analytical, Inc.

EMSL Analytical, Inc., a nationwide leader in Indoor Air Quality, Materials and Environmental Testing, with 20 laboratory locations seeks **Mycologist, Aerobiologist and Microbiologist** candidates for positions at the following laboratory locations:

Houston, TX; Dallas, TX; Baton Rouge, LA; Atlanta, GA; Miami, FL; Orlando, FL; Greensboro, NC; Beltsville, MD; Westmont, NJ; Piscataway, NJ; Elmsford, NY; New York, NY; Buffalo, NY; Carle Place, NY; Ann Arbor, MI; Indianapolis, IN; Chicago, IL; Minneapolis, MN; Milpitas, CA; Los Angeles, CA.

Candidates to be considered should have a degree in Mycology, Microbiology or Aerobiology with knowledge of viable and non-viable fungal analytical methodologies. Candidates should have excellent communication, supervisory and organizational skills.

EMSL Analytical, Inc. offers competitive salary and benefit packages.

Email Resume to jfrasca@emsl.com or mailto: jfrasca@emsl.com; or visit us at <<http://www.emsl.com>>.

– **Joseph Frasca**

Position at Kansas

The University of Kansas Department of Ecology & Evolutionary Biology has available a position for an Evolutionary Plant Ecophysicologist. Among areas to be considered is the evolution and physiology of plant-microbe symbioses (e.g. mycorrhizae). For a full notice of this position, go to www.ukans.edu/~eeb, Positions Available. Review of applications will begin Dec. 7, 2001 and will continue until the position is filled.

-- **Robert W. Lichtwardt**

Dept. of Ecology & Evolutionary Biology
University of Kansas
Lawrence, KS 66045-2106, USA
Tel. (785)864-3740
FAX (785)864-5321
E-mail licht@ku.edu (NOTE NEW ADDRESS)

Fellowship and Research Assistantship at the University of Minnesota

We are seeking qualified applicants for MS and PhD degrees in Plant Pathology. We are a diverse and active faculty, and we maintain a challenging graduate curriculum with international internship opportunities for interested students. Details on current research in the Department of Plant Pathology can be found on the World Wide Web at <www.plpa.agri.umn.edu>. For consideration for current competitive fellowships, application documents must be received by **February 15, 2002**. For further information, please contact **Dr. Linda Kinkel**, Dept. Plant Pathology, 495 Borlaug Hall, University of Minnesota, Saint Paul, MN 55108 or at <lindak@puccini.crl.umn.edu>.

– **Linda Kinkel, PhD**

Positions Available at SUNY at Syracuse

Position 1: Announcement of Professional Vacancy at the Research Foundation Of The State University Of New York, College of Environmental Science and Forestry, Syracuse, NY, in the Faculty of Construction Management and Wood Products Engineering. The position of **Research Support Specialist** with a salary of mid to high 20's+ depending on qualifications, for the duration of 2 years. **Brief description of duties:** Processing and maintaining cultures of fungi from air samples. Duties include performing total spore counts and colony counts of impaction samples and identification of fungal genera and species. Other duties include supporting molecular analysis of fungi, maintaining records of air samples and fungal cultures, interfacing with field teams. **Qualifications:** Master's Degree in Mycology or Microbiology or related field is strongly preferred. Candidates with a BS degree in Mycology or Microbiology or related field will be considered. Basic molecular techniques

MYCOLOGICAL CLASSIFIEDS *concl'd*

Positions Available con't

and knowledge in the systematics of microfungi are also strongly preferred. Experience is necessary in media preparation, aseptic technique, maintaining cultures of fungi, light microscopic methods of identifying fungi. Basic statistics, demonstrated written and oral communication skills are desirable. **Start Date:** As soon as possible after application deadline. **Application deadline:** Applications will be accepted through December 21, 2001, or thereafter until the position is filled. It is anticipated that final candidates will be interviewed in January 2002.

Position 2: Announcement of Professional Vacancy at the Research Foundation Of The State University Of New York, College of Environmental Science and Forestry, Syracuse, NY, in the Faculty of Construction Management and Wood Products Engineering. The position of **Research Scientist** with a salary of: \$30,000 to mid 30's+ depending on qualifications, for the duration of 2 years. **Brief description of duties:** This position is part of an EPA-sponsored research project that has the primary objective of accurate assessment of molds in indoor air. A second objective is to assist in the development of

alternative methods of identifying critical fungal species or genera. As part of an affiliated study that is conducting a survey of indoor pollutants and their relationship to the development of asthma, this person will be responsible for overseeing certain aspects of the sample collection and fungal identification procedures. The duties also include assisting in the development of molecular-based identification of critical fungal species found in indoor air samples.

Qualifications: Ph.D. degree in Mycology or related field is strongly preferred. Candidates with a Master's degree in Mycology or related field will be considered. Expertise in the systematics of microfungi, knowledge of light microscopic and cultural methods of identifying fungi, experience in designing and implementing research studies and basic statistics are required. Training or experience with molecular techniques, in the analysis of air samples, and a variety of microscopy and image analysis techniques are preferred. The successful candidate should show strong communication skills, competence in writing research reports and/or proposals. Strong interpersonal skills are essential to maintain an effective working relation-

ship with technical staff and field teams.

Start Date: As soon as possible after application deadline. **Application deadline:** Applications will be accepted through December 21, 2001, or thereafter until the position is filled. It is anticipated that final candidates will be interviewed in January 2002.

Application Procedure: For either position, send letter of application, résumé, and letters of three professional references to **Dr. Susan Anagnost**, SUNY College of Environmental Science and Forestry, 403 Baker Lab, 1 Forestry Drive, Syracuse, NY 13210-2786. Please specify the title of the position(s) you are applying for, since we are currently recruiting for other positions in this department.

The New York State Clean Indoor Act and the Federal Drug-Free Workplace Act are in effect at the State University of New York College of Environmental Science and Forestry. The Research Foundation of the State University of New York is an Equal Opportunity/Affirmative Action employer. Women, minorities and people with disabilities are encouraged to apply. Visit SUNY-ESF at <www.esf.edu>.

Change of Address

Send all corrections of directory information, including e-mail addresses, directly to Allen Press

Mycological Society of America

Vox 800.627.0629 (US and Canada)

Attn: Linda Hardwick, Association Manager

or 785.843.1221

PO Box 1897 [810 E 10thSt]

Fax 785.843.1274

Lawrence, KS 66044-8897

Email lhardwick@allenpress.com

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

MYCOLOGY ON-LINE

MYCOLOGY ON-LINE DIRECTORY

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

- ASCOMYCOTA—NEW CLASSIFICATION (51-5)
<http://194.131.255.3/cabipages/Names/FundicNew.asp>
- ASOCIACION LATINOAMERICANA DE MICOLOGIA (51-5)
<http://www.ecologia.edu.mx/alm/>
- BIBLIOGRAPHY OF SYSTEMATIC MYCOLOGY (51-6)
<http://194.131.255.3/cabipages/BSM/bsm.htm>
- EUROPEAN POWDERY MILDEWS (52-2)
<http://nt.ars-grin.gov>
- GOOGLE: NIFTIEST GENERAL SEARCH ENGINE (51-6)
[WWW.GOOGLE.COM](http://www.google.com)
- HADRIANUS JUNIUS STINKHORNS (52-2)
<http://www.collectivesource.com/hadrianus>
- IMC7 (51-3)
<http://lsb380.plbio.lsu.edu/ima/index.htm>
- ING (INDEX NOMINUM GENERICORUM) DATABASE (52-5)
<http://rathbun.si.edu/botany/ing/ingForm.cfm>
- INOCULUM (51-6)
<http://www.erin.utoronto.ca/~w3msa/inoc2-00.htm>
- INTERACTIVE CATALOGUE OF AUSTRALIAN FUNGI (52-1)
<http://www.rbgmelb.org.au/fungi/>
- INTERACTIVE KEY, DESCRIPTIONS & ILLUSTRATIONS FOR *HYPOMYCES* (52-6)
<http://nt.ars-grin.gov/taxadescriptions/hypomyces/>
- MSA BULLETIN BOARD (51-5)
<http://msafungi.org/bulletinboard/>
- MYCOLOGICAL PROGRESS (52-3)
<http://www.botanik.biologie.uni-muenchen.de/botsyst/mycpro.html>
- MYCOSEARCH WEB DIRECTORY/SEARCH ENGINE (51-5)
<http://www.mycosearch.com>
- MUSHROOM WORLD [NEW KOREAN/ENGLISH SITE IN 2001] (51-6)
www.mushworld.com
- NAMA POISON CASE REGISTRY (51-4)
<http://www.sph.umich.edu/~kwcee/mpcr>
- PATHOGENIC FUNGI FROM SOUTH AFRICA (52-4, page 29)
<http://nt.ars-grin.gov/fungaldatabases/southafrica>
or <http://www.saspp.co.za/>
- WEB MSA (51-6)
<http://msafungi.org>

CALENDAR OF EVENTS

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

- MSA AWARDS NOMINATION DUE DATES**
2002 (March 15): MSA DISTINCTIONS
DETAILS: *Inoculum* 52(6): 9-10.
- 2002 (March 1): MSA GRADUATE FELLOWSHIPS**
DETAILS: *Inoculum* 52(6): 10-11.
- 2002 (February 15): MSA UNDERGRADUATE RESEARCH**
DETAILS: *Inoculum* 52(6): 11.
- 2002 (March 1): MARTIN-BAKER ENDOWMENT FUND and AH & HV SMITH RESEARCH FUND**
DETAILS: *Inoculum* 52(6): 11-12.
- 2002 (January 31): MENTOR STUDENT TRAVEL AWARDS**
DETAILS: *Inoculum* 52(6): 12.
- MYCOLOGICAL MEETINGS**
- 2002 (February 20-23). IV Conference of the World Society for Mushroom Biology and Mushroom Products.**
Cuernavaca, MEXICO
Contact: WSMBMP, Apdo. Postal 36 Tapachula, Chiapas, 30700 Mexico
wsmbmp@tap-ecosur.edu.mx
www.tap-ecosur.edu.mx/wsmbmp
- 2002 (March 22-24). AIBS 53rd Annual Meeting.**
Arlington, VIRGINIA
Casey E. Krol
Communications Representative
admin@aibs.org
- 2002 (April 20-21). Mid-Atlantic States Mycology Conference.**
DETAILS: *Inoculum* 53(1): 15.
USDA-ARS, Beltsville, MARYLAND
Amy Y. Rossman
Amy@nt.ars-grin.gov
- 2002 (May 22-26). IOBC/WPRS Phytopathogens Working Group 7th Workshop – Influence of a-biotic and biotic factors on biocontrol agents.**
DETAILS: *Inoculum* 52(1): 13.
Kusadasi, TURKEY
Dr. Yigal Elad
elady@netvision.net.il
- 2002 (May 13-17). IV Latin American Congress of Mycology.**
DETAILS: *Inoculum* 52(2): 16-17.
Xalapa, State of Veracruz, MEXICO
Gaston Guzman
guzmang@ecologia.edu.mx
- 2002 (June 22-26). 2002 MSA Annual Meeting.**
Corvallis, OREGON
Keith Egger, Chair
Program Committee
egger@unbc.ca
- 2002 (July 27 - August 1). International Union of Micorbiology Societies (IUM).**
DETAILS: *Inoculum* 52(5): 26.
Paris, FRANCE
<http://www.iums-paris-2002.com/>
- 2002 (August 11-17). 7th International Mycological Congress (IMC VII)**
DETAILS Second Circular: *Inoculum* 53(1): 15
Oslo, NORWAY
Leif Ryvarden, Botany Dept
Biological Institute
Box 1045
Blindern, N-0316 Norway
47.22854623 FAX 47.22856717
leif.ryvarden@bio.uio.no
<http://www.uio.no/conferences/imc7/>

CALENDAR OF EVENTS *concl'd*

2002 (August 4-9). 4th International Congress on Systematics & Ecology of Myxomycetes
DETAILS: *Inoculum* 53(1):15

Brussels, BELGIUM

J. Rammeloo, PhD

Director, National Botanic Garden of Belgium

President of the ICSEM-4 Congress

Secretariat, Domein van Bouchout

B-1860 Meise, Belgium

Rammeloo@br.fgov.be

2002 (November 4-8). 3rd Asia-Pacific International Mycological Conference on Biodiversity and Biotechnology

Kunming, Yunnan, CHINA

Dr. Dequn Zhou, Secretary

Southwest Forestry College

Kunming, Yunnan, China 650224

Phone: ++86-871-3862737

zhoudq@public.km.yn.cn

2002 (November 24-29). Biotechnologia Habana 2002. "Agro-Biotech in the New Millennium."

DETAILS: *Inoculum* 52(6):31.

Havana, CUBA

Carlos Borrot, President

<mailto:bioagro@cigb.edu.cu>

<http://bioagro.cigb.edu.cu>

Phones: 53-7-218008, 53-7-218466

2003 (January 28-30). 9th International Fusarium Workshop.

DETAILS: *Inoculum* 52(2): 16

Sydney, AUSTRALIA

Brett Summerell

Royal Botanic Gardens

Mrs Macquaries Rd.

Sydney, New South Wales, 2000, Australia

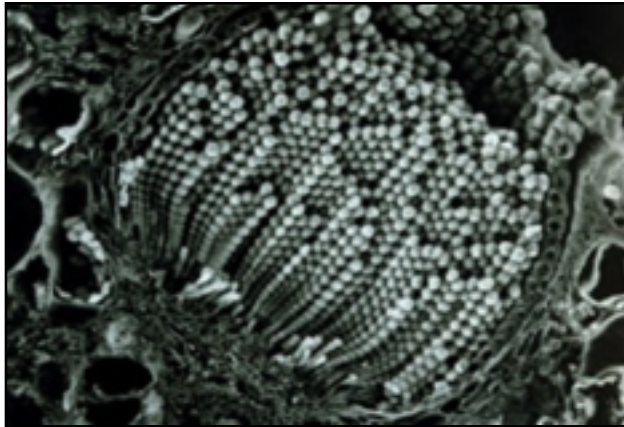
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Some Images from the MSA Slide Collection



Rust, SEM, Section of aecium. (Photo by Charles Mims.)



Achlya on frog. (Photo by Porter, Fuller, Roberson, White.)



Genistelloides helicoides Williams & Lichtwardt (Harpellales, Legeriomycetaceae) from the hindgut of a stonefly nymph (*Zapada haysi*) from a Rocky Mountain stream. Developing trichospores. Note the coiled appendages within the generative cells from which the trichospores grow. In this genus the appendages become visible before the exogenous trichospores begin to develop. (Photo by R.W. Lichtwardt.)

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