

# inoculum

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Newsletter of the Mycological Society of America

## Species 2000 Initiative

Species 2000: Indexing the World's Known Species is a new program launched by the International Union of Biological Sciences (IUBS) at its General Assembly in September 1994. It will operate in collaboration with CODATA (ICSU Committee on Data for Science and Technology) and IUMS (International Union of Microbiological Societies), as well as interacting with the existing DIVERSITAS and Bionomenclature programs of IUBS.

Species 2000 has the objective of enumerating all known species of plants, animals, fungi and microbes on Earth as the baseline dataset for studies of global biodiversity. The names of these species provide the crucial link both in the communication of biodiversity information and in accessing the data of pure and applied biological disciplines. The objective is to facilitate the creation of global master species databases, by augmenting existing taxonomic databases and where appropriate establishing new systems.

The output will be an important element in the information needed for the implementation of the Convention on Biological Diversity, providing support for the preparation of surveys and inventory of biodiversity, and a common medium for global communication about biotic resources, their utility and conservation.

Implementation of Species 2000 will involve: 1) forming a federation of existing taxonomic databases; 2) establishing a user access framework and common gateway to member databases using electronic (e.g., Internet) and non-electronic media; 3) stimulating the establishment of global master species databases for all groups of organisms by accelerating the completion of existing systems and developing new ones; 4) working to an ultimate goal of providing a computer-based index of all known species; 5) developing procedures both to maintain the databases and to update the taxonomy; and 6.) cooperating with international nomenclatural authorities in stabilizing nomenclature. The Species 2000 program will thus provide a clearing house for taxonomic data on the world's known species.

Global master species databases, as envisaged here, are those which: cover a group of organisms worldwide; include structured information for all known species in the group, in particular names and synonyms; provide links to any species-relevant information such as common names, descriptions, images, hosts or substrates, geographical or ecological distribution, threats, uses, chemical or molecular data, germplasm sources and identification aids; and subject records for each species to expert taxonomic scrutiny, with regard to the distinctness and appropriate position of the species within a consistent taxonomic hierarchy.

Species 2000 seeks as members of the federation holders of taxonomic databases. Taxonomic databases contain data relevant to specified taxa, designated by scientific names and including synonyms; they need not be worldwide in coverage or primarily taxonomic in purpose.

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### Important Dates

- June 1 – Deadline for next  
*Inoculum*.
- June 30 – MSA Annual Meeting,  
deadline for early registration.
- August 6–10 – MSA Meeting  
with AIBS in San Diego, CA

The Species 2000 program will develop rapidly during 1995. Funding proposals will be made, contacts established with prospective members and a discussion meeting will be held for both the users and holders of existing taxonomic databases.

Initial Steering Committee: Frank Bisby, Chair (ILDIS, University of Southampton, UK); Chris Thompson, Vice Chair (BIOTA, U.S.D.A. Systematic Entomology Lab, USA); Peter

Schalk, Secretary (ETI, University of Amsterdam, The Netherlands); Simon Duffield, Project planning (University of Southampton, UK); Lois Blaine (ATCC, American Type Culture Collection, USA); Mike Boulter (Plant Fossil Record, University of East London, UK); Werner Greuter (Liaison with IUBS Bionomenclature Program); David Hawksworth (President, IUBS); Larry Speers (Agriculture Canada, Canada); and

Nigel Stork (Liaison with IUBS DIVERSITAS Program)

For further information contact : Species 2000 Secretariat, Biology Department, University of Southampton, Southampton, SO16 7PX, UK. Tel: +44 1703 592444. Fax: +44 1703 594269. <sp2000@soton.ac.uk>.

## MSA Official Business

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### Annual Meeting Update

#### MSA Breakfast

The MSA Breakfast/Business Meeting was accidentally omitted from AIBS/MSA-conference registration packet. The MSA Breakfast is scheduled for Wednesday, August 9, and the cost of tickets is \$13.00. Registration fliers for this event will be sent by AIBS to all MSA members.

[John Klironomos. Phone: 619-594-4460. Fax: 619-594-5676. <klironom@sunstroke.sdsu.edu>]

#### Call For Applications: Mentor Student Travel Awards for 1995 MSA Annual Meeting

The Mycological Society of America has designated funds to be used for travel awards for MSA student members who are participants in the 1995 Annual Meeting. Contributions from individual members have been received for this purpose. Twelve Mentor Student Travel Awards of \$150 each will be granted. The mentor awards will be in the names of some of our famous forebears: C. J. Alexopoulos, H. Bigelow, E. Butler, W. C. Denison, M. Fuller, R. P. Korf, E. S. Luttrell, H. Thiers, and K. Wells.

Applicants must be MSA members. Applications should include the following: 1) Abstract of paper or poster; 2) Curriculum vita; 3) A one-page description of the research project

and an explanation of how this award will further their research/study; and, 4) A letter of support from their major professor. Send application in triplicate by 15 May 1995 to the Chair of the Travel Awards Committee: Dr. Walter Sundberg, Department of Plant Biology Mail Code 6509, Southern Illinois University at Carbondale, Carbondale, IL 62901-6509.

<sundberg@qm.c-plant.siu.edu>

Early applications appreciated!

#### Accommodations Options

John Klironomos and Sharon Harney (local arrangements, San Diego State University) have sent the following list of motels within easy walking distance of the Town and Country Hotel (meeting headquarters):

- Days Inn, 619-297-8800, \$50-55.
- Budget Inn, 619-692-1288, \$35-50.
- Holiday Inn, 619-291-5720, \$85.
- Quality Resorts, 619-298-8281, \$60-150.
- Seven Seas Best Western, 619-291-1300, \$60-70.
- Vagabond Inn, 619-297-1691, \$55-65.

#### MSA Photo Display and Contest

Bring micrographs and photos (8x10 format) mounted on poster board to the 1995 San Diego Meeting (no frames or glass please, we will supply

generic matting). On back of photo supply photographer's name, affiliation, fungal species, details of photography, and magnification. Participants may enter up to three photos in each of the following categories:

- Mushrooms and fungi in the field.
- Fungi under the light microscope (all types, fluorescence etc.).
- Transmission electron micrographs of fungi.
- Scanning electron micrographs of fungi.
- Mycologists at work.
- Mycological comedy.

The photos will be displayed during the Annual Meeting and participants will vote on the most popular entries in several categories. Appropriate prizes will be awarded to the winners. (Selected photos will be available for the MSA auction.)

Please notify Don Hemmes, Biology Department, University of Hawaii at Hilo, Hilo, HI 96720. <hemmes@uhunix.uhcc.hawaii.edu> or Fred Spiegel, Department of Botany and Bacteriology, University of Arkansas, Fayetteville, AR 72701 <fspiegel@uafsysb.uark.edu> of intent to participate.

## ***Mycologia* Reviewers Needed**

Thanks to all who have responded to the request for reviewer profile information to facilitate the manuscript reviewing process for *Mycologia*. More are needed. Obtaining quality reviews from qualified reviewers in a timely fashion is critical to the continued success of *Mycologia*, and a well-developed database of willing people will facilitate this. Please consider volunteering your service to the Society and take a few minutes to fill out the form on page 16 of *Inoculum* 46(1). Send it to me by post, fax or e-mail.

David H. Griffin

Department of Environmental and Forest Biology, 350 Illick Hall, College of Environmental Science and Forestry, One Forestry Drive, Syracuse, NY 13210-2788.

## **Members, Your Help Is Needed**

Sales of the Index to Vols. 59–80 of *Mycologia* have been slow. Fewer than 150 of the nearly 1200 Institutional (mainly library) Subscribers have purchased a copy. Your help is needed. Please ask your librarian if a copy has been purchased and if not bring the order form found on the inside back cover of *Mycologia* 86(1) to the librarian and strongly request the purchase of the Index. This benefits MSA immensely because \$70 of the \$82 price comes back to the Society. That money will help recoup the money spent by the Society to compile and print the Index and, once those funds are recovered, will be used for future publication efforts of many kinds. ***Talk to your librarian.***

Mary Palm

April 11, 1995

Dear MSA members,

Never dull! That's life here in Beltsville for your current President. I would like to keep you informed regarding details of the MSA Annual Meeting with AIBS in San Diego and other MSA activities.

First, twelve Mentor Student Travel Awards will be available to students this year for travel to the MSA Annual Meeting. The details are outlined elsewhere in this *Inoculum*. In addition, a notice of these awards is included with the ballot mailing to ensure that all students are aware of these funds. Applications should be sent to Walt Sundberg by May 15.

Second, the traditional MSA Breakfast will be part of the Annual Meeting in San Diego and will take place on Wednesday, August 9. AIBS will be sending information to you in a separate mailing with an opportunity to purchase tickets for the MSA Breakfast along with your registration for the AIBS meeting.

In regard to the program for the upcoming MSA Meeting, Rytas Vilgalys, Program Chair, with John Klironomos and Mike Allen, Local Arrangements, are putting together an exciting event. The session about which I am most familiar is the discussion group on the use of fungi in sustainable development that brings together mycologists from Canada, the United States, and Mexico. Organized by Ignacio Chapela and Mary Palm, this is intended as a true brain-storming discussion with opportunity for input from invited participants and attendees. As one example of this concept, Ignacio Chapela is working with people in Oaxaca, Mexico, who are financially successful in harvesting wild edible mushrooms for the export market and desire to sustainably manage these biological resources. As you can imagine, this topic is a hot one because the fungi lend themselves so well to potential use without damage to their native habitat and are untapped as a biological resource.

On another subject, the distribution of back issues of *Mycologia* ground to a halt when we were notified that the cost to assemble and ship sets to each foreign institution is \$359.19. Individually this isn't an outrageous sum, but for all thirty institutions desiring *Mycologia* this adds up to more than the MSA can dedicate for this project. If you have the energy, ideas and/or knowledge of a potential source from which funds to cover these mailing costs could be obtained, please write me an e-mail message.

Sending the *Inoculum* with the journal is working well and Ellen Farr has done an outstanding job in presenting a newsletter that is functional and pleasing in appearance. With six issues per year comes an opportunity for YOU to write an article on a topic of mycological interest. If you need encouragement or are unsure of the appropriateness of your ideas, write me an e-mail message. You can submit information and opinions, book reviews and notices, at anytime. Send these to Ellen Farr, preferably via e-mail.

I hear snippets of good news on the mycological front, jobs for mycologists here, new funding there. These signs may be the results of everyone who has worked to educate others about the importance of fungi. I remain optimistic that interest in mycology and appreciation of fungi is increasing!

Amy Y. Rossman, President  
Mycological Society of America  
<amy@fungi.ars-grin.gov>

# MSA Auction

Yes, Virginia, there is an MSA Santa Claus, who can give travel awards and prize money, because of the funds raised by the MSA Auction and T-shirt sales.

The Auction comes at a time when we need to be getting teaching materials ready for the fall term. Therefore, our auction wish list contains many items that would be useful for teaching. Also, note that these items cost very little to supply. They rely on your special knowledge of certain fungi and your ingenuity in packaging them. Other items that have sold well in the past are photographs, mushroom kitsch, T-shirts, sets of reprints, and books.

The following "Auction Wish List" is a direct appeal to return something to the MSA and to help in the development of the next generation of mycologists.

- A set of teaching specimens of common rusts.
- A set of specimens illustrating the major groups of ascomycetes.
- A few collections of *Cordyceps* or something spectacular on insects.
- A set of presentation slides from last year's meeting (or this year's) with notes on the subject.
- Photographic slides of slime molds illustrating microscopic structures.
- A set of identified corticioid fungi to illustrate major families.
- A collection of downey mildews to illustrate diversity of sporangiophores.
- Original drawing or photographs from your thesis.
- Unusual types of substrates for moist chamber.
- Teaching notes or a laboratory exercise.
- Any of those loculoascomycetes with names on them.
- A selection of ascomycetes showing a variety of ascus dehiscence types.
- Your latest unpublished cladogram illustrating exciting fungal relationships.
- A tape of a special lecture on fungi.
- Parodies with fungal themes sung by your entire lab group.
- Selected basidiomycete specimens illustrating different basidium types.
- Cultures of unusually good fungi for lab demonstrations.

Note again that these contributions, except for your effort, cost very little. We feel that this is an excellent way for graduate students to begin to contribute to the MSA. Several mycologists might cooperate by e-mail to make this easier if a certain organism is rare in one region. However, if you plan to include plant pathogens, abide by the quarantine rules.

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Please send items to Dr. John Klironomos, Department of Biology, San Diego State University, San Diego, CA 92182-0057. You may also take things with you to San Diego.

Whatever you decide to contribute, please let Meredith Blackwell know so that an auction catalog may be prepared. Her e-mail address is <btblac@lsuvm.sncc.lsu.edu>. Fax: 504-388-8459. Address: Department of Plant Biology, L.S.U., Baton Rouge, LA 70803.

## Minutes MSA Executive Council Mid-Year Meeting

18 February 1995  
Beltsville, Maryland

1. The meeting was called to order by President Rossman at 8:45 a.m.

2. President Rossman presented her report, summarizing her activities and highlighting important topics for the Executive Council and Council to consider.

A. Letters were sent to all new committee members and also to all retiring committee

members and officers, who were thanked for their efforts on behalf of the Society.

B. President Rossman has been working with Ken Cochrane on the new NAMA Award, a graduate fellowship to be awarded, with MSA Awards, at the MSA Annual Meetings. The \$1,000 award will follow the same guidelines as the MSA

Graduate Fellowship with the additional requirement that the awardee write an article for *McIlvainea*. While plans were made too late to offer the award in 1994, it will be awarded at the MSA meeting at San Diego in 1995.

C. Back issues of *Mycologia*. There are now 15,000 items in storage at the Allen Press. At Beltsville there are additional items that complement the inventory at the Allen Press. President Rossman, Mary Palm, and Gary Samuels have been assembling sets of back issues at Beltsville. The objective is to send these complete or almost complete sets to the approximately 50 institutions in developing countries that have requested them. Richard Howard has compiled a list of institutions requesting the sets and has determined how to ship to them. President Rossman requested authorization to hire an assistant to complete the assembly of sets at Beltsville; this was not resolved at this meeting but Council will be polled on approving this expenditure. The plan is to coordinate shipment of the sets with the Allen Press, who estimate their charge at \$359 per set for shipping and assembly. Shipment will be by m-bag.

Funding the shipment of these sets was discussed. A total of 60 sets (30 from Allen Press, 30 from Beltsville) are expected to be shipped, mainly to India and Central and South America. Past-President Petersen will investigate organizational sources of funding. Support through donations was also discussed; a proposal that donors could check off a box on their membership forms indicating that a set is to be sent off and then pay for that shipment as a donation was considered. Donors could be paired to specific institutions and the "sponsorship" list published in *Inoculum*.

D. Endowment. President Rossman has been working with Finance Committee Chair, O. K. Miller on implementing a new investment plan.

E. Meredith Blackwell will serve as liaison to the International Botanical Congress scheduled for 1999 in St. Louis.

F. Richard Howard has agreed to serve as a liaison between the Society and the journal, *Experimental Mycology*.

G. President Rossman has been working with Editor Farr on implementing the transition of the editorship of *Inoculum*.

H. The Call-for-Papers for the 1995 San Diego meeting has been coordinated by Francois Lutzoni at Duke University.

3. Vice President Ginns reported that 46 nominations have been received for the following offices: Vice President, Treasurer, and Councilors in all categories.

Charles Mims, Chair of the Nominations Committee, has provided a slate of candidates selected by the Committee. Vice President Ginns will tally the nominations and compile a slate of candidates from the nominations by the membership. Ballots will be mailed to the membership in April. One difficulty with the nominations from the membership is that individuals with the most nominations for Councilor may have been nominated in more than one category and may not hold the most nominations in any one category.

4. Treasurer Baroni reported that to date, 900 members have renewed. At the request of Karen Hickey, who handles membership services at Allen Press, the Executive Committee approved moving the current November 30 deadline for membership renewals forward to December 31 for 1995 and future years. Members are encouraged to pay dues by December 31 and are reminded that a \$10.00 late fee is required for renewal after that date.

The request of incoming *Mycologia* Editor-in Chief, David Griffin, for support to attend the 1995 San Diego meeting was approved in the form of a subsidy of up to \$500. Dave will be able to attend Council and *Mycologia* Board meetings, facilitating the transition between Editors-in-Chief and long range planning of journal activities.

The investment plan developed by the Finance Committee, chaired by Orson Miller, was unanimously approved. Miller will be the investment

officer for the Society for some MSA Endowment Fund monies. The investment program is a conservative one, combining Mutual Funds and Federal Notes, and is expected to provide a much better return than we are currently getting. A summary of the investment plan will be provided by Chairman Miller for the MSA Annual Report.

A proposal from George Carroll, Chair of the Endowment Fund was discussed. This was a request for a transfer of \$12,000 from the General Endowment to supplement some mentor travel endowments and through this, to increase the annual award from \$100 to \$150. Several Executive Council members expressed misgivings about transferring monies from flexible to inflexible accounts, spending principal rather than tailoring award payouts to income from interest, and creating new travel endowments at such a rapid pace. The proposal was not accepted. The Executive Council approved the transfer of \$2,000 from the General Endowment for 1995 to the Awards Committee to be used toward 13 Mentor Travel Awards at \$150 each. Also, the Executive Council approved a new procedure for funding for Mentor Travel Awards which will be added to the Manual of Operations. From 1996 forward, the Finance Committee and the Endowment Committee will report to the Executive Council prior to the Mid-year Meeting as follows. Based on Society income, as reported by Finance, and on the current size of each mentor travel endowment and the number of awards anticipated for the year, as reported by the Endowment Committee, the funding of these awards will be vetted by the Executive Council. Based on the decision of the Executive Council, the Treasurer will disburse funds to the Chair of the Awards Committee. An additional proposal to cap a fund if it has received no contribution within the last five years, transfer it to the General

Endowment, and stop advertising it was not accepted. The consensus of the Executive Council was that donations contributed in an individual's name should retain that identity.

5. Secretary Kohn reported on the progress of the new Directory. The Directory will include information received through the last membership renewal; the membership list is maintained by Karen Hickey at the Allen Press. The Directory will also include the other types of information provided in 1992 Directory plus an Internet access guide to be reprinted from the December 1994 *Inoculum*. It is expected that the Directory will be mailed with issue 2 or 3 of volume 87 of *Mycologia*. The Directory will be put on the Smithsonian Internet Gopher Server by Ellen Farr and will be updated four times a year by Karen Hickey (Allen Press).

A revised 1995 Membership Application was approved for distribution in *Inoculum*, in *Mycologia*, and by Society Officers.

6. *Mycologia*. David Griffin, incoming Editor-in-Chief of *Mycologia*, has written a letter to be published in *Inoculum*, outlining his objectives for the journal. These include increasing institutional subscriptions and developing materials to promote the journal.

7. The 1995 Annual Meeting. Program Committee Chair, Rytas Vilgalys, reported that the program for San Diego is in place. Abstracts will be published in *Inoculum*. A proposal to make the paste-up of abstracts the duty of the second-most-senior member of the Program Committee was approved, to be implemented from 1996 forward. Robert Metzenberg will be the Annual Speaker at the San Diego meeting.

8. The 1996 Annual Meeting will be held in conjunction with that of the American Phytopathological Society, 27-31 July, in Indianapolis, Indiana.

9. Possible locations for the 1997 Meeting were presented by Vice President Ginns. These include a joint meeting with the BSA and CBS in Montreal and freestanding meetings in Wisconsin, Seattle, North Carolina, or Rhode Island. Some felt that the time had come for a meeting in the east. Much will depend on the availability of local organizers.

10. A proposal from Rodney Roberts, Chair of the Awards Committee, to provide free tickets to the Awards Ceremony for MSA Awards recipients was approved. The tickets will be for the MSA Breakfast and Business Meeting.

11. A request for a waiver of registration fees and some support for travel for symposium speakers forwarded by the Program Chair was not accepted. The Executive Council supported the idea but in considering past precedent, determined that symposium organizers have been quite effective in finding external sources of support. The Executive strongly encourages symposium organizers to seek support outside of the MSA.

12. A proposal to endorse CEEFAR (Coalition for Science Education About Environment, Food, Agriculture, and Renewable Resources) was tabled.

13. Several queries from Editor Ellen Farr regarding changes in the *Inoculum* were addressed. Postage at the third class rate was approved, with shipment of *Inoculum* to foreign subscribers at the first class rate tabled until a more accurate cost estimate could be acquired from Rich Humber. The Executive Council approved the use of Gladfelter Cream paper, in stock at Allen Press, rather than white paper, to be decided at the discretion of the Editor. Each issue of *Inoculum* will include a list of Sustaining Members, as well as forms for membership, Endowment and other charitable contributions. Expenses incurred by Editor Farr will be covered by the Soci-

ety. The press run of *Inoculum* will be determined after checking with Rich Humber; it is easier to have one press run than to reprint. A proposed run of 1300 copies was determined to be inadequate, considering that individuals joining the Society mid-year must receive back issues. The Executive Council was amenable to the suggestion that back issues of each issue of *Mycologia* and *Inoculum* be shrink-wrapped together, but suggested that this issue be pursued further with the Allen Press.

14. A proposal from President Rossman to set up an ad hoc Computer Committee was accepted. The Committee will inform the Society about software, databases and Internet use.

15. The importance of nominating AAAS Fellows from the MSA membership was discussed. The deadline is 1 June. It was suggested that the MSA Bulletin Board readership be queried as to whether users know any members of AAAS who would be appropriate.

16. The suggestion by past-Secretary Palm that the by-laws be reviewed was discussed. It was determined that review or revision of the by-laws is not a high priority.

17. A query from President Rossman concerning bonding for the Treasurer was discussed. It was determined that bonding was not necessary.

18. Awards. There will be a supplementary announcement on Awards in *Inoculum* to announce the Martin/Baker Award. This award is in the amount of \$1,000 for an early career scientist. There was some discussion on ways to distinguish the four Graduate awards (the two MSA Graduate Fellowships, the NAMA Award, and the Backus Award) such as the possible differentiation of selection criteria.

19. General policy regarding MSA support of Officers to attend the Annual Meeting was discussed. A pro-

posal to make \$500 per year available to the President, President-Elect, Treasurer and Secretary was rejected in favor of considering requests on a case-by-case basis. The Executive Council supported a proposal to provide Treasurer Baroni with the equivalent of plane fare and registration cost for the 1995 San Diego Meeting. It was concluded that bringing Karen Hickey (Membership Services, Allen Press) to the 1995 Meeting was not necessary. Support for the purchase of a small, portable laser

printer for Secretary Kohn was approved.

20. II Congreso Latinoamericano de Micología will be held in Havana, Cuba, 23-26 October 1996. Past-President Petersen will investigate the many facets of potential MSA sponsorship of this meeting. President Rossman will set up an ad hoc liaison committee.

21. The Executive Council approved sending a letter to Congress about the importance of the DOI National Biological Service submitted by M. Palm, AIBS Representative for Public Re-

sponsibility, and Al Torzilli, AIBS Representative.

22. Reports were circulated from the following committees: Annual Speaker (T. Harrington), Awards (R. G. Roberts), Honorary Members (R. Gilbertson), and *Mycologia Memoirs* (M.R. McGinnis).

Submitted by Linda M. Kohn (Department of Botany, University of Toronto, Erindale College, Mississauga, Ontario L5L 1C6. Tel. 905-828-3997. Fax 905-828-3792.)

## Mycology Online

### Finding Mycological Information

Remember to check the Smithsonian Natural History Gopher Server (nmnhgoph.si.edu) for copies of *Inoculum*, a directory of MSA members, and a link to the MSA Bulletin Board. Look on the Botany menu for the "Mycological and Lichenological Information" submenu.

Send news for immediate distribution to the MSA Bulletin Board. Submit news as an e-mail message to <msa-news@huh.harvard.edu>.

Remember that I will enclose Internet addresses within "greater than/less than" symbols (<>) to avoid confusion with punctuation and line breaks within addresses. The symbols are not part of the address.

Ellen Farr

### URLs Briefly Noted

Uniform Resource Locators (URLs—pronounce each letter, U R L, or say "earl") are pointers to data on the World Wide Web. The addresses have three parts: protocol; host name; and, in some cases, a directory and file name. The protocol is the method. This might be Gopher, FTP, Telnet, or

the protocol of the World Wide Web (HTTP).

I would like to include a few URLs for Internet sites of interest to mycologists in each issue. Please send me your favorites with a brief description.

<<http://muse.bio.cornell.edu/taxonomy/fungi.html>>

Pointers to many information resources of interest to mycologists. See *Inoculum* 46(1): 8.

<<http://www.scri.sari.ac.uk/bspp>>

A new web server for the British Society for Plant Pathology (BSPP) has been established at the Scottish Crop Research Institute.

<<http://www.kumc.edu/research/fgsc/main.html>>

If you were unable to attend the recent Fungal Genetics Conference at Asilomar but would like to know what was presented there, you can read abstracts of talks and posters given at the meeting from the FGSC WWW site.

<<http://www.prairienet.org/~xx143/homepage.htm>>

Koeltz Home Page.

Ellen Farr

<mnhbo001@sivm.si.edu>

### Madrid Types Online

Types of the MA Herbarium Historical Fungus Collection are available on the CSIC Gopher (Consejo Superior de Investigaciones Científicas, Spain). The address for the Gopher Server is: gopher.nogal.csic.es port 70 (Europe / Spain / All registered Spanish gophers / CSIC-CTI / Otros Centros del C.S.I.C. / Real Jardín Botánico / Types of the MA-Herbarium).

This database comprises 1003 records on nomenclatural types from the collection, including a few specimens labeled as "type" by the author though probably never validly published. The records have been taken from the historical collection database, which includes information on 25,000 specimens.

Most of the specimens were described and named by Romualdo González Fragoso (773), Raffaele Ciferri (200), and Frantisek Bubak (47). Although specimens belong to over 30 orders, about 50% of them are found among Sphaeropsidales, Coelomycetes, and Dothideales. Regarding geographic origin, there are specimens from Spain (577), Dominican Republic (226), Portugal (86), Iran (20), and some 14 other countries.

Generic names have been checked, and the spelling standardized, mainly with the reference of "the 7<sup>th</sup> edition of Ainsworth & Bisby's Dictionary of the Fungi" (Hawksworth et al., 1983). "On-line Information on Fungi" (Systematic Botany and Mycology Lab, USDA, ARS, USA; available by Telnet, see *Inoculum* 45(1): 6.) has been of special help in this task. Authors have been standardized according to "Authors of Plant Names" (Brummitt, R. K. and C. E. Powell, Eds. 1992. Authors of Plant Names. Kew: Royal Botanic Gardens. 731 p.). For geographic recording, "World geographical Scheme for Recording

Plant Distribution" (Hollis, S. and R. K. Brummitt. 1992. World Geographical Scheme for Recording Plant Distributions. Plant Taxonomic Database Standards No. 2. Pittsburgh: Hunt Institute for Botanical Documentation.) has been followed, and level 4 precision is given for almost all the records. Locality, as well as other label details are recorded as stated on the labels. No effort has been made to check the names against the literature.

As a follow-up, we expect to make available in a not too distant future, the entire cryptogamic collections database, which currently contains

information of over 75,000 specimens of Algae, Bryophytes, Lichens, and Fungi. In the meantime, information requests can be made to the address given below. We welcome any suggestion to improve the data as well as the way they are presented.

Francisco Pando, Curator of Cryptogams, MA Herbarium, Real Jardin Botanico-CSIC, Plaza de Murillo 2, 28014 Madrid, Spain. Tel.: +34-1-585 4654, Fax: +34-1-420 0157  
<pando@ma-rjb.csic.es>

## Mycological News

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### News of Mycologists

**Alice W. Chen**, a *Ganoderma* specialist, was invited to visit Mushroom Factory in Theodosia, Missouri, in early April. Mushroom Factory is an important grower of medicinal and specialty edible mushrooms. She was also invited to visit K & M Mushroom Enterprise in Simcoe, Ontario, Canada. Dr. Chen published "Prospectus for Marketing Reishi" in the April *Mushroom Growers' Newsletter*.

**Joe Hennen** will officially retire from Purdue University as of 1 July 1995. He has been on "phased" (or "half-time") retirement since July 1994. Joe was Professor of Botany and Plant Pathology and Director of the Arthur Herbarium for 27 years. He plans to spend full time doing research in rust fungus systematics, working primarily at BRIT (the Botanical Research Institute of Texas) in Fort Worth. He has been appointed Research Associate at BRIT, and also Adjunct Professor in the Biology Department at the University of Texas-Arlington. He hopes to be able to continue field work in Brazil, Argentina, Mexico, and elsewhere.

**R. T. Moore** is now an editor of *Mycologist*, a journal of the British Mycological Society. The *Mycologist* is an

international journal of general mycology attempting to provide a world wide forum for all facets of mycology, including not only the central interests of systematics, ecology, conservation, natural history etc., but also relevant aspects of medical and industrial mycology, and any aspect where fungi and human affairs intersect. Contributors do not need to be members of the BMS. The general nature of *Mycologist* complements the society's professional journal, *Mycological Research*. Contact R. T. Moore: School of Applied Biological & Chemical Science, University of Ulster, Coleraine, Northern Ireland, UK. <RT.Moore@ulst.ac.uk>.

### Deaths

**Dr. James G. Horsfall**, director of the Connecticut Agricultural Experiment Station from 1948 to 1971, died March 22, 1995 at his home in Hamden, Connecticut. He was 90 years old.

Jim Horsfall was a pioneer in the development of organic fungicides; he authored two books on their action. He edited two editions of a treatise on plant pathology. The second edition, "Plant Diseases," co-edited with Ellis

Cowling, was published in five volumes from 1977–1980.

The prestigious National Academy of Sciences elected him to membership in 1953. He was then one of only a few of its members from the field of agriculture. He also served on the advisory commissions of NASA, the Atomic Energy Commission, the President's Science Advisory Committee, and the Environmental Protection Agency.

Dr. Horsfall was elected to the American Academy of Sciences in 1951, and received the Distinguished Service Award of AIBS in 1974. He was honored with several awards and high-level assignments in Connecticut. In 1970 Governor John Dempsey chose Horsfall to head the Governor's Committee on Environmental Policy which laid the foundation for State policies, including the establishment of the Department of Environmental Protection and the Power Facilities Evaluation Council, on which he served for 15 years.

Dr. Horsfall was president of APS in 1951 and received its highest honor, the Award of Distinction, in 1972. He served as editor of the Society's "Annual Review of Plant Pathology"

from 1962 to 1972. He was president of the Society of Industrial Microbiology in 1954. Several international societies elected Jim as Fellow. These include the AAAS, Societa Italiana di Fitoatria (Italy), Ordre Merite Agricole (France), Phytopathological Society (India), and International Congress of Plant Pathology (Honorary Member). His alma mater, the University of Arkansas, named Jim Distinguished Alumnus in 1952 and awarded him an honorary LLD in 1969. He also received honorary doctorate degrees from the University of

Vermont in 1958 and the University of Turin, Italy, in 1964.

Born in Mountain Grove, Missouri in 1905, he grew up in Monticello, Arkansas. He earned his B.S. at the University of Arkansas in 1925 and his PhD. in plant pathology at Cornell University in 1929. He was married to Sue Belle Overton, who died in 1990. Dr. Horsfall is survived by his brother, William R. Horsfall of Champaign, IL His brother Frank Horsfall, Jr. and his sister, Margaret H. Gates predeceased him. He is also survived by two

daughters and sons-in-law, Margaret and Harvey Schadler of Schenectady, NY, and Anne and David Thomas of Bethlehem, PA, six grandchildren, and six great grandchildren.

Memorial contributions may be sent to the James G. and Sue B. Horsfall Memorial Fund of the Connecticut Agricultural Experiment Station, 123 Huntington St., New Haven, CT. [Jack Barnes]

## Calendar of Events

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Items will remain on the calendar until the information is out of date. After the initial detailed announcement, the item will be shortened and given a reference to the issue of *Inoculum* where the full announcement last appeared. See the MSA Bulletin Board for more details about items marked with an asterisk. See *Inoculum* 46(1) for a more complete calendar.

May 21–25. **95<sup>th</sup> General Meeting of the American Society for Microbiology**, Washington, DC. Contact: Meetings Department, American Society for Microbiology, 1325 Massachusetts Ave., NW, Washington, DC 20005-4171. Phone: 202-942-9356.

May 23–25, 1995: **Measuring and Monitoring Forest Biological Diversity: The International Network of Biodiversity Plots**. Washington, DC; an International Smithsonian/MAB Symposium. Contact: Dr. Francisco Dallmeier Chair, Symposium Planning Group, 1100 Jefferson Drive, SW, Suite 3123, Washington, DC 20560. (202)357-4793. <IC.FGD.@ic.si.edu>.

June 2–6, 1995. **10<sup>th</sup> Annual Meeting of the Society for the Preservation of Natural History Collections (SPNHC)**, Royal Ontario Museum Toronto, Ontario, Canada. Contact: Brad Millen, SPNHC '95, Ornithology, R.O.M., 100 Queen's Park, To-

ronto, Ontario, Canada M5S 2C6. <bradm@rom.on.ca>. (*Inoculum* 46(1)).

June 16–19, 1995. **Genetics and Cellular Biology of Basidiomycetes III**, King's College London. Contact: Dr. C. F. Thurston, Division of Life Sciences, King's College London, Campden Hill Rd., London, W8 7AH, UK.

June 28–July 1, 1995. **International Rhizoctonia solani Symposium**, Noordwijkerhout, The Netherlands. Information from Mrs. Francine Verwoert or Dr Jaap Keijzer, IPO-DLO, P.O. Box 9060, 6700 GW Wageningen, The Netherlands.

June 30–July 2, 1995. **The 1995 ASC Annual Meeting** will be hosted jointly by the University of California, Berkeley and the California Academy of Sciences and will feature a workshop on "Natural History Collections on the Information Superhighway." Partnerships among systematics collections of various kinds, and state and federal agencies will be the topic of another session. Finally, ASC members and friends will discuss ASC's strategic planning initiative, in light of these partnerships. Contact: ASC, 730 11th Street, NW, Second Floor, Washington, D.C. 20001-4521. Phone: 202-347-2850. Fax: 202-347-0072.

July 2–7, 1995. **13<sup>th</sup> International Congress of Plant Protection**. The Hague, The Netherlands.

July 8–12, 1995. **The 1995 Annual Meeting of the Society of Systematic Biologists** will be held at McGill University, Montreal, Quebec. Contact: EVOL Secretariat, Conference Office, McGill University, 550 Sherbrooke Street West, West Tower, Suite 490, Montreal, Quebec, Canada H3A 1B9.

July 8–15, 1995. **6<sup>th</sup> International Marine Mycology Symposium**, University of Portsmouth, UK. Contact: IMMS VI Secretariat, School of Biological Science, University of Portsmouth, King Henry 1 Street, Portsmouth, PO1 2DY, UK.

July 16–21, 1995. **Society for Invertebrate Pathology 28th Annual Meeting**. Cornell University, Ithaca, NY. Contact: Dr. John Vandenberg for program information. Phone 607-225-2456. <jdv3@cornell.edu>. For information on local arrangements, Dr. Alan Wood. Phone: 607-254-1200. <haw5@cornell.edu>. (*Inoculum* 46(1)).

July 31–August 4, 1995. **Aspergillus/Penicillium Workshop**, San Antonio, Texas. A week-long workshop on identification of *Aspergillus* and *Penicillium* species presented by Drs. John Pitt and Maren Klich. Contact:

Jim Harris, Training Coordinator, Bureau of Laboratories, Texas Dept. of Health. Phone: 512-458-7566. Fax: 512-459-7662.  
<jharris@laba.tdh.state.tx.us>.  
(*Inoculum* 45(4): 14).

August 6–10, 1995. **Mycological Society of America** meets with AIBS. Town & Country Hotel, San Diego, California..

August 6–11. **Annual Meeting, Society for Industrial Microbiology**. Fairmont, San Jose, CA. Contact: SIM Business Office, 3929 Old Lee Hwy. Suite 92A, Fairfax, VA 22030. Phone: 703-691-3357, Fax: 703-691-7991.

August 12–16, 1995. **Annual Meeting of the American Phytopathological Society**, Pittsburgh, PA.

August 23–26 1995. **BioNET-INTERNATIONAL Global Workshop (BIGW)**. National Museum and University of Wales, Cardiff, UK. BioNET-INTERNATIONAL is a global network of people and institutions comprised of inter-linked sub-regional LOOPS in developing countries supported by a central Technical Secretariat (TECSEC) and a consortium of the world's major centres of biosystematic excellence. It is particularly concerned with Invertebrates and Microorganisms and the objective is to

provide developing countries with realistic self-reliance in biosystematics of these groups to support national programmes for sustainable agricultural development and wise-use of biodiversity. The Cardiff Workshop will be an interface for LOOPS, technical supporting organizations and donors and will address funding and operational strategies and priorities needed to achieve B.I.s objectives. Contact: Professor Tecwyn Jones, Director TECSEC at CAB International, Bakeham Lane, Egham, Surrey TW20 9TY, UK. Phone: (01784) 470111. Fax: (01784) 470909. <bionet@cabi.org>.

August 24–27, 1995. The **Annual NAMA Foray**, the Mary S. Whetstone Foray, Bemidji State University, Bemidji, MN. Contact: Anna Gerenday. Phone: 612-624-3241. Fax: 612-625-5299. <geren002@maroon.tc.umn.edu>. (*Inoculum* 46(1)).

August 24–27, 1995. The **15<sup>th</sup> annual Telluride Mushroom Conference** will be held in Telluride, Colorado. The Conference is designed for persons interested in the identification of edible poisonous, and psychoactive mushrooms and mushroom cultivation. For further information, contact Fungophile, P.O. Box 480503, Denver Colorado, 80248-0503. Phone/Fax: 303-296-9359.

August 27–September 1, 1995. **7<sup>th</sup> International Symposium on Microbial Ecology**, São Paulo, Brazil. Contact: Professor M. T. Martins, Brazilian Society for Microbiology, 13774 Ave. Prof. Lineu Prestes, Ed. Biomédicas II, Cep 05508-900, São Paulo, Brazil. Phone: +55-011-818-7205. Fax: +55-011-813-9647.

August 29–September 5, 1995. A **Symposium on Foliicolous Cryptogams**. Eger, Hungary. Contact: Dr. Edit Farkas, Institute of Ecology and Botany, Hungarian Academy of Sciences, H-2163 Vácraót, Hungary. (*Inoculum* 45(4): 17).

August 29–September 2, 1995. British Mycological Society in Association with the British Society for Plant Pathology. **The Downy Mildew Fungi** (first European Meeting) Gwatt Conference Center, CH-3645 Gwatt, Thunersee, Switzerland. (*Inoculum* 46(1)).

September 3–7, 1995. **12<sup>th</sup> Congress of European Mycologists**, Wagenin-gen, Netherlands. Contact: Dr. Thomas Kuyper, Biological Station, Kampsweg 27, 9418 PD, Wijster, Netherlands.

## Book Reviews

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Crisci, Jorgé V., Joseph D. McInerney, Patricia J. McWethy et al. 1993. **Order & Diversity in the Living World: Teaching Taxonomy & Systematics in Schools**. National Association of Biology Teachers, 11250 Roger Bacon Dr. #19, Reston, VA 22090. Phone: 703-471-1134. Fax: 703-435-5582. ISBN 0-941212-11-4. Paper. Pp. vii + 89, illus. \$12 plus \$2 postage and handling.

We all are aware of the complex of world crises involving the loss of the planet's biota. Aside from actually inventorying organisms (especially the fungi and other lower life forms, of

which we have a bare minimum of information), the most critical responsibility of organismal biologists is to teach about biodiversity. We need to teach about specific groups and about biodiversity in general, and about the disciplines used in the study of biodiversity: taxonomy, systematics and those disciplines that fall within the realms of ecology. Ironically, just when the need for field-focused systematists is most critical, many academic departments are eliminating such positions. Likewise, curricula are losing many courses in systematics. These losses are particularly critical

from (smaller) schools that pride themselves in teaching, and thus these losses are recursive.

All of us with knowledge about groups of organisms (or of these disciplines) should double our efforts to tell the world what we know about biodiversity and about the approaches our disciplines take in its study. Audiences should include all groups: primary and secondary schools, colleges, governmental organizations and general public. Unfortunately there are few general resources to help in such presentations. The booklet by Crisci et al. is a useful addition to the list of

resources for talks and courses dealing with general systematics. This booklet is the product of the Commission for Biological Education of the International Union of Biological Sciences in cooperation with UNESCO.

This publication is more of an instructor's guide and outline of topics, rather than a text. It would be particularly useful in organizing the systematics part of an introductory biology course, and in developing faculty proposals to colleagues for advanced courses dealing with systematics. Although it would first seem to be directed only to the elementary and secondary school levels, there is much in it to recommend for introductory college courses. The stated intent of this document is to: 1) Create a coherent vision of what it means to be literate in systematics, 2) Establish a set of standards to guide the revision of school curricula in biological systematics, and 3) Provide examples of classroom (including laboratory) instruction that are consistent with 1) and 2) above.

The booklet includes background on the social contexts of systematics (why teach about systematics?), what systematists do (our current knowledge about the biodiversity and threats to it; the history and mechanics of

categorizing and naming), a section on goals of education in systematics, a short glossary, and a long list of references. About half the book is devoted to sample instructional activities for age ranges 6–12 and 13–18. Included (for the latter age range) are exercises delving into key construction (having students observe and construct simple databases for a variety of groups, including their own class), phylogeny (how taxonomy relates to evolution), the species concept (study of genetic data for Cougar subspecies), and a molecular systematic study of great apes. These exercises seem well thought out and could all be adapted to local groups or expertise.

The coverage of topics is well balanced but only a basic minimum of detail is covered. One must turn to other resources or to personal experience to find the interesting tidbits that will make the material engaging for the beginner. I would strengthen the discussion relating systematics to other types of scientific inquiry and point out that systematics may function in other social contexts than science (I'm thinking of indigenous systems of classification). Also, lest the presentation of historical and mechanical details of naming things be-

come too dull, it is important to liven up presentations in the context of real organisms (and not just present a set of rules to know). After all, some of the most interesting and educational aspects of systematics as a discipline are the unusual organisms and controversial stories (and we mycologists have plenty of both). The exercises on Cougar subspecies and systematics of great apes are also helpful in this regard but it would have been appropriate to have a larger variety of references to other taxonomic groups.

At the college level, what is really needed is a non-majors biology text (or text supplements) that focuses on biodiversity, in which systematics is covered as one of several tools used. I would urge instructors to push publishers for such resources (those publisher representatives I have talked to say there is no felt need for such texts). In the interim we will have to develop our own course materials. Crisci et al. will help us do so.

Fred Rhoades, Research Associate,  
Biology Department, Western Washington University, Bellingham, WA 98225.

## Mycological Classifieds

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Read the Mycological Classifieds for announcements of courses, employment opportunities, positions wanted, and mycological goods and services offered or needed.

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### Computer Software

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Fred Rhoades is now distributing **PC-TAXON, Version 2.6**, a synoptic key editor for DOS. Further information and demo key/key driver sets are available by email.

<fredr@henson.cc.wvu.edu>

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### Courses

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#### International Mycological Institute

The International Mycological Institute (IMI) is a center for systematic, applied and environmental mycology. IMI organizes a wide range of courses in agricultural, industrial, environmental and systematic mycology and bacteriology covering identification, characterization, isolation and preservation techniques and methods. Brief details of courses available in 1995 are given below. For further details on any of these, please indicate the course(s) of interest and send your postal ad-

dress to: Miss Janet Pryse (Training Officer), International Mycological Institute, Bakeham Lane, Egham, Surrey TW20 9TY UK. Tel +44 (0) 1784 470111. Fax +44 (0) 1784 470909. <j.pryse@cabi.org>

#### International Course on the Identification of Fungi of Agricultural Importance

7 August–15 September 1995

Six week course giving plant pathologists training in the classification and identification of agriculturally important groups of microfungi. The course will be of particular relevance to those working in the tropics. Course fee £2600 to include self catering ac-

commodation. This course is held each year.

#### **Basic Mycological Techniques**

23 & 24 October 1995

A short introductory course aimed at microbiology technicians or others needing help with traditional mycological techniques. Course fee £275. For participants also registered for our Culture Preservation Techniques course, 25-27 October, a combined discounted fee of £545 will apply.

#### **Culture Preservation Techniques**

25-27 October 1995

A popular course aimed at microbiology technicians, laboratory managers or others needing to maintain and preserve fungal isolates.

The course will consist of lectures and demonstrations but most time will be spent in experience building practical sessions. Course fee £370 (includes manual and the reference book by Smith & Onions, (1994). The Preservation and Maintenance of Living Fungi 2<sup>nd</sup> edition. For participants also registered for our Basic Mycological Techniques course, 23 & 24 October, a combined discounted fee of £545 will apply.

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#### **Degree Programs**

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**MSc in Pure & Applied Plant and Fungal Taxonomy** (a joint course between the University of Reading and the International Mycological Institute).

**MSc in Biotechnology (specializing in fungal technology).** The course is taught jointly by the Biological Laboratory, University of Kent and the International Mycological Institute. A research project forms an important part of the course and will be undertaken full-time at Kent or IMI. In appropriate cases, candidates on secondment from industry may carry out project work in their own laboratories.

Contact: Miss Janet Pryse (Training Officer), International Mycological Institute, Bakeham Lane, Egham, Surrey TW20 9TY UK. Tel +44 (0) 1784 470111. Fax +44 (0) 1784 470909. <j.pryse@cabi.org>

#### **Opportunity for graduate studies at McGill University/PAPRICAN**

**(Pulp and Paper Research Institute of Canada).** The project involves the development of a genetic system in the lignin-degrading white rot fungus, *Trametes versicolor*. Preference will be given to those with experience or interest in genetics, mycology or molecular biology. Research will be carried out at the Macdonald Campus of McGill University, in the Microbiology Unit of the Department of Natural Resource Sciences.

Send CV to: T. Charles, Department of Natural Resource Sciences, McGill University, Ste-Anne-de-Bellevue, Québec, CANADA H9X 3V9. <charles@nrs.mcgill.ca>

#### **The Penn State Plant Pathology Department has several assistantships available for M.S. or Ph.D. students.**

Programs include field and greenhouse crop pathology, forest pathology, sustainable agriculture, molecular fungal taxonomy, mushroom culture and pathology, fungal genetics, epidemiology, virology, plant responses to environmental stress, air pollution effects to forest trees and ecosystems, root-specific metabolism, root-pathogen interactions, host-parasite interactions. Contact: Dr. J.E. Ayers, Graduate Admissions Committee, Plant Pathology Department, 211 Buckhout Laboratory, University Park PA 16802. Phone 814-865-7069; Fax: 814-863-7217.

<htreaste@psupen.psu.edu>. Affirmative Action/Equal Opportunity Employer; women and minorities encouraged to apply.

Montana State University has established a **Medical Mycology Predoctoral Training Program (MMPTP)** with the help of a training grant from the National Institute of Allergy and Infectious Diseases (NIH). The intent of the MMPTP at MSU is to develop Ph.D. scientists who will pursue a research career in medical mycology. In addition to dissertation work, trainees take a science core which includes medical and general mycology courses at MSU and participate in clinical my-

ecology laboratory training and workshops.

Trainees will receive an annual stipend of \$14,000 to defray living expenses and they will receive fee waivers for graduate studies.

Minimum criteria for admission are US citizenship, baccalaureate degree in science, GPA 3.0 in science courses and Graduate Record Exam combined verbal + quantitative score of 1150. Please note that women and minorities are especially encouraged to apply.

Contact: Jim E. Cutler, Ph.D., Director MMPTP, Department of Microbiology, 109 Lewis Hall, Montana State University, Bozeman, MT 59717; Fax: 406-994-2373. <umbjc@gemini.oscs.montana.edu>

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#### **Literature Wanted**

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The Association of Systematics Collections (ASC) is embarking on a second round of obtaining biosystematic literature for the Biodiversity Information Exchange with Cuba Project. This time, literature acquired will be distributed to institutions outside of Havana. In trying to build biodiversity information resources (including marine biodiversity), Cuban research institutions have a great need for current and back issues of *Mycologia* and other biosystematic and ecological literature. To donate and for more information, please contact Elizabeth Hathway, ASC, 730 11th Street, NW, Second Floor, Washington, D.C. 20001-4521. Phone: 202-347-2850. Fax: 202-347-0072.

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#### **Positions Available**

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The Systematic Botany and Mycology Laboratory, USDA-Agricultural Research Service, Beltsville, MD, has funding for a 2-4 year **postdoctoral position in the molecular systematics of agriculturally important fungi.** Research will concentrate on the molecular systematics of *Fusarium*, particularly *F. oxysporum*, and related species. Salary starts at GS 11 level or about \$36,000 plus benefits. Send curriculum vita by 15 May 1995 to: Dr. Amy Y. Rossman, Research

Leader, Systematic Botany and Mycology Laboratory, B011A, Rm. 304, 10300 Baltimore Ave., Beltsville, MD 20705 USA. <amy@fungi.ars-grin.gov>.

University of Colorado Health Science Center has **three postdoctoral positions** available beginning July 1 to study the molecular biology of cell-wall assembly of *Neurospora crassa*. These positions are funded from a 3-year NIH RO1. Requirements for two positions include experience with fungal growth and molecular biology of filamentous fungi, including screening libraries by sibselection, the isolation and cloning of genes and cDNAs. Some experience with *Candida albicans* a plus. The other position will involve the purification of an integral membrane enzyme complex, (1,3)B-glucan synthase. Experience concerning protein purification a must. Contact: Claude P. Selitrennikoff, Professor, University of Colorado Health Sciences Center, Denver CO 80262.

A **one year postdoctoral fellowship** will be available in the Laboratoire de Phytoparasitologie INRA/CNRS in Dijon, FRANCE, for research into the spatio-temporal expression of symbiosis-related genes in arbuscular mycorrhiza. This will entail the use of RNA and cDNA probes to localize the expression of plant or fungal genes specifically linked to mycorrhiza formation and function. The fellowship is available to non-French scientists, preferably with experience in molecular cytology. Knowledge of mycorrhizal

systems would be an advantage, but is not essential. The position will start in September/November 1995. Contact: Dr. Vivienne Gianinazzi-Pearson, Laboratoire de Phytoparasitologie INRA/CNRS, Station de Genetique et d'Amelioration des Plantes, BV 1540 21034 DIJON CEDEX. Phone: (33) 80.63.31.55/31.46. Fax: (33) 80.63.32.63. <GIANINA@EPOISSES.INRA.FR>.

A post of **research lichenologist** within the Division of Cryptogamic Plants, Department of Botany (Natural History Museum) will be advertised shortly. The department has a long term commitment to research on lichens; the post will be advertised as a three year position in the first instance. A search committee has been formed and we are inviting interested candidates to send a current CV. Contact: Dr Mary Gibby, Head of Cryptogamic Plants, Department of Botany, Natural History Museum, Cromwell Road, London SW7 5BD, U.K.

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#### Publications Available

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The National Biological Service's Information Transfer Center announces the availability of **Endangered Ecosystems of the United States: A Preliminary Assessment of Loss and Degradation**. This is the first in a continuing series of NBS reports to be released electronically prior to publication in hardcopy. The document is in WordPerfect 5.1 format (400KB zipped to 150KB) and is available from an e-mail server. Send a

message to <NBSITCLIB@mail.fws.gov> following these instructions: Type SEND ECOSYSTEM MS as the only entry on the subject line. Do not type information on the message line. It will not be read. For information about other documents on the NBS cc:Mail library server, send a message to the above address and type SEND HELP as the only entry on the subject line. Internet email users may need to decode the file with UUDECODE. Contact your systems administrator for assistance.

Dr. Alan R. Fisher, National Data Administrator, U.S. Fish and Wildlife Service. <fishera@mail.fws.gov>.

For sale or swap: **Wollenweber's Index to Fusaria Autographice Delineata, 1916**. This is a bound volume extracted from Annales Mycologici (vol XV, No. ½, 1917): Collectio specierum et ex herbariis variis selectarum et ab auctore lectarum culturarumque synonymis et excludendis additis quas determinavit, in sectiones digessit, comparavit cum Hypocreaceis analogis praemissis ad methodi naturalis normas et culturae purae experientiam. Includes plates 1-659 (a small box containing reproductions of drawings of microconidia, macroconidia, chlamydospores, etc. and handwritten notes re sizes). In reasonably good shape, but fragile. Contact: M. Putnam, Botany and Plant Pathology, Oregon State University. <putnamm@bcc.orst.edu>.

## Change of Address

Allen Press now handles such MSA membership services as maintaining the MSA mailing list, preparing mailing labels, and processing membership applications and renewals. Send all corrections of directory information (including e-mail addresses) directly to Allen Press. MSA's contact at Allen Press, Karen Hickey, can be reached by any of the following:

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Ellen R. Farr, Editor

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