National Science Foundation Funding Opportunities

The last couple of months have brought announcements of a series of new or recurring funding programs sponsored by the National Science Foundation that provide some outstanding funding opportunities for mycologists not only in the United States, but in other countries as well. The following is a summary of these major programs. Copies of the complete announcements of these programs are available from the National Science Foundation, from your local grants management office, or, in some instances, from the MSA Bulletin Board.

Special Competition in Systematic Biology:
Partnerships for Enhancing Expertise in Taxonomy (PEET)

Retirement of taxonomic specialists, shifts in academic recruitment and staffing, and reductions in graduate training all conspire to diminish the knowledge that is needed to answer what the National Science Board has labeled a global biodiversity crisis ("Loss of Biological Diversity: A Global Crisis Requiring International Solutions", NSB 89-171). The rate of "extinction" among professional taxonomists led a National Science Foundation task force to call for enhanced training in taxon-specific expertise ("Adapting to the Future: Report of the BBS Task Force Looking to the 21st Century", NSF 91-69).

In partnership with academic institutions, botanical gardens, freshwater and marine institutes, and natural history museums the National Science Foundation seeks to enhance taxonomic research and help prepare future generations of experts. NSF announces a Special Competition, Partnerships for Enhancing Expertise in Taxonomy (PEET), to support competitively reviewed research projects that target groups of poorly known organisms. Projects must encourage the training of new generations of taxonomists and translate current expertise into electronic databases and other formats with broad accessibility to the scientific community.

Projects designed for 5 years of effort are encouraged, with yearly budgets not to exceed $150,000 (direct plus indirect costs), or $750,000 total. Group Proposals could increase the budget according to the number of Principal Investigators involved. Standard components of taxonomic monography -- species description and diagnosis, geographic distribution, scientific nomenclature, identification keys, illustration -- are expected in all projects; training of two students and computerization activities are also required. NSF anticipates making
10-20 awards in Fiscal Year 1995 in this Special Competition, contingent upon availability of funds and quality of proposals received.

Proposals should be submitted for a March 1, 1995 postmark deadline to the address given in the "Grant Proposal Guide" (NSF 94-2, page 2). NSF's "Grant Proposal Guide" provides relevant forms and rules for proposal preparation. On the cover sheet, upper left corner, write "DEB-PEET (NSF 94-109)" to expedite processing.

Institutional cost-sharing in accordance with standard NSF rules is expected on all projects. Institutional commitment to the employment of taxonomists during and beyond the duration of PEET projects provides one clear example of partnership in answering the scientific and societal challenge of diminishing taxonomic expertise.

For the PEET Special Competition announcement, contact: Division of Environmental Biology (PEET), National Science Foundation – Suite 635, 4201 Wilson Boulevard, Arlington, VA 22230, 703-306-1481; fax: 703-306-0367; e-mail: sysserv@nsf.gov

The brochure on the PEET program (NSF 94-109) is also available electronically through NSF's "STIS" system (accessed as stisserv@nsf.gov using the simple command "get index" (without the quotes).

### NSF Biotic Systems and Inventories Program

The National Science Foundation has now released new guidelines for its Biotic Surveys and Inventories program, which is part of the Division of Environmental Biology in the Directorate for Biological Sciences. These guidelines (NSF 94-4) replace NSF 91-10. The Biotic Surveys and Inventories program, which in the past has been the program to which floristic and faunistic proposals have been directed, is explained as follows: "Proposals submitted to the Biotic Surveys and Inventories Program should involve collecting specimens of extant and extinct organisms as samples of taxa of geographic or oceanographic regions and/or geographic horizons; conducting inventories of existing collections; developing and disseminating electronic databases of the collected or inventories specimens and taxa; and producing biotic treatments, authenticated species lists, catalogs, manuals, keys, expert identifications systems, and/or other documents in electronic and printed form... The primary product of a biotic survey or inventory project is expedited to be new collections and/or inventories of existing collections and taxa. These projects should result in the production of electronic and electronically accessible (e.g., linked via Gopher or World Wide Web on Internet to the scientific community), specimen-based databases to permit more efficient maintenance, dissemination, and revision of the products of the research - and other electronic and printed products such as keys, expert identification systems, checklists, descriptions, and other databases and authority files to assist in identification of included taxa..." Proposals must include detailed project management plans and a full description of database activities including information on hardware and software specifications, the data model, elements and structure of the database, networking protocols, means of electronic access to the data sets, and capabilities for expansion. For new collections, investigators are strongly encouraged to make use of appropriate Global Positioning System technology to record locality data, when appropriate, and to link the biodiversity databases to a Geographic Information System. General inquiries or questions about the guidelines should be directed to the Biotic Surveys and Inventories program, 703/306-1483; internet: jmoorefi@nsf.gov or jestes@nsf.gov.

Get 'Em While You Still Can!

### MSA's IMC5 T-Shirts and Tote Bags Still Available!

A second printing of MSA's extremely successful 1994 T-shirts is now available for sale. These are the same designs and styles as those that sold out so quickly at the IMC-5. *Fungus Man and Raven*, a striking Northwestern Native American design, is available in maroon on natural, 100% cotton, pre-shrunk, crew neck. Sizes: S, M, L, XL, XXL; also available in maroon on white, scoop neck (women's), sizes M, L, XL. Also available:

- Canvas tote bags with the *Fungus Man and Raven* in maroon on natural cotton.
- Still only $12!!!!, plus $2.00 for mailing.

**To Order:** Specify number, style and size -- e.g., 1 fungus man, crew neck, size L -- and send check or money order for $14 for each item to: Jeffrey Stone, Dept. of Botany & Plant Pathology, Cordley 2082, Oregon State University, Corvallis, OR 97331-2902.
Biodiversity

Systematics Agenda 2000: Charting the Biosphere

The following is the Executive Summary of a much longer document describing the goals and organization of the effort now known worldwide as Systematics Agenda 2000. Your comments on this effort or requests for the full text of this document is posted on the MSA Bulletin Board, or can be obtained by contacting the New York Botanical Garden or members of the Steering Committee (whose names are listed in the following journal articles:

- Cladistics 7:407-414 (1991);
- Systematic Botany 16:758-761 (1991);

or:

Systematics Agenda 2000
Department Of Ornithology
American Museum Of Natural History
Central Park West at 79th Street
New York, NY 10024 USA
(Fax: 212-769-5759)

Earth's species, including humans, comprise an intricate fabric, a fabric that has shaped the atmosphere, climate, soil, water and other ecological features of the planet that are essential for the very existence of life. More than a million of the individual threads (species) that make up this fabric have been discovered and described by systematic biologists, the scientists responsible for exploration of the world's biological diversity. Descriptions of species set the stage for studies of their relationships, as well as for classifications that tell us about the organization and history of life's diversity. These classifications are powerful tools that help us to understand, maintain and rationally utilize the great biological wealth we have inherited.

Yet, despite over two centuries of accomplishment in systematic biology, we have much to learn about the fabric of life. Tens of millions of species remain unknown to us, species that stabilize the delicate balance of ecosystems, species that have potential for expanding and diversifying our agricultural production, and species that hold new and effective cures for the diseases that plague human populations. Fortunately, recent advances in systematics offer the prospect of undertaking in a timely fashion the daunting task of charting the biosphere in a way that will capture the enormous scope of species diversity.

Meeting this challenge, now more than ever, is pivotal to our survival and well-being. We are faced on a worldwide scale with rapidly declining diversity, disappearing habitats, and increasing demand for precious biological resources. Basic systematic research on species diversity is urgently needed for international efforts by natural resource managers, pharmaceutical explorers, conservation biologists, ecologists, and many others. The more we know about Earth's biological diversity, the better will be our capacity to conserve natural habitats on land and in the oceans. This knowledge is critical if future generations are to share this planet with the myriad life forms on which we depend.

The international community of systematic biologists proposes the Systematics Agenda 2000 to achieve a scientific objective sought by the nations of the world: To discover, describe, and classify the world's species within 25 years. Meeting this goal will require an intensive international effort involving three interrelated scientific missions:

- **Mission 1**: To survey, discover, inventory and describe global species diversity accurately, efficiently, and rapidly.
- **Mission 2**: To analyze and synthesize the information derived from this global discovery effort into a predictive classification system that reflects the history of life.
- **Mission 3**: To organize the information derived from this global program in an efficiently retrievable form that best meets the needs of science and society.

The benefits to science and society will be significant:

- The newly discovered species will multiply society's inventory of usable resources.
- New systematic data will arm conservationists, policy makers, and biological resource managers with the knowledge necessary to sustain and use their nation's species diversity.
- Knowledge of species diversity will assist in the discovery of new products and will guide the selection of new and improved food crops and medicines.

Baseline data will be generated to monitor global climate and ecosystem change, including rates of species extinction, ecosystem degradation, and the spread of exotic, disease-causing, and pest organisms.
ICTF Subcommissions on *Alternaria*, *Colletotrichum* and *Pythium*

The International Commission on the Taxonomy of Fungi is planning to establish two additional subcommissions within its structure to facilitate integrated systematic work on taxonomically difficult genera of fungi of economic importance. The subcommission on *Aspergillus* and *Penicillium* established in 1986 (now also a commission within IUMS), the subcommission on *Trichoderma* established in 1989, and the subcommission on *Fusarium* (also a subcommission of the International Society for Plant Pathology), have already made valuable contributions to improving the taxonomy of the genera concerned. At the Fifth International Mycological Congress held in Vancouver, August 1994, the ICTF proposed the establishment of two additional subcommissions on *Alternaria* and *Colletotrichum*. In addition, it was agreed that the international working group on *Pythium* be accepted as an ICTF subcommission. Mycologists with particular interests in these subjects and who are prepared to participate in collaborative systematic projects should write to Keith A. Seifert, Secretary, ICTF, Centre for Land and Biological Resources Research, Agriculture Canada, Ottawa, Ontario K1A 0C6 Canada (Fax: 613-943-0953, Email: seifertk@nccct2.agr.ca) indicating their current research interests and approaches they are adopting. Suggestions of mycologists to be contacted are also welcome.

Identification of plant families

Watson, L. & M. J. Dallwitz. 1993. *The Families of Flowering Plants. Interactive Identification and Information Retrieval*. CSIRO Information Services, PO Box 89, East Melbourne, Victoria 3002, AUSTRALIA. (telephone: [61] 3/418-7217; fax: [61] 3/419-0459). ISBN 0-643-05507-X. Interactive program, including CD-ROM and illustrated manual. $US180, plus postage & handling. This package applies the interactive identifications and information retrieval program INTKEY to 563 world-level, DELTA descriptions of the families of angiosperms. The CD-ROM carries MS-DOS files containing the program and data, along with 680 high-quality line drawings and some sample color and black and white photographs. Also included are references and a complete set of conventional descriptions, which may be displayed on screen or printed in typeset forms.
On-Line with Systematists of Invertebrates and Microbes

BioNET-INTERNATIONAL is a Global Technical Cooperation Network of institutions and people concerned with biosystematics of invertebrates and microorganisms. The goal of this network is the mobilization and enhancement of the world's biosystematic resources for the benefit of developing countries. BioNET-INTERNATIONAL is building and sustaining realistic biosystematic self-reliance in developing sub-regions and providing the biosystematic backup to biodiversity.

BioNET-INTERNATIONAL is convening a Global Workshop (BIGW, 1995) in Cardiff, Wales, on 23-26 August 1995 to provide an interface between the providers and users of biosystematic information and the donors who fund biosystematic projects. The BIGW will:

- Alert governments, international organisations and donors to the present, critical, biosystematic impediment to sustainable agricultural development and the wise-use of biodiversity in developing countries, and will recommend action to solve the problem.
- Review BioNET-INTERNATIONAL's current role and achievements, its objectives, scope and progress, and devise operational and financial strategies for its further development.
- Review and inventory the needs of developing country LOOPs and the resources on offer to them through developed country LOOPs (BIOCON), and devise costed work programs and structures for donor-funding to deliver resources and satisfy needs.

For more information on BioNET-INTERNATIONAL or on BIGW, 1995 please write to us at the address above or send an E.Mail message with your postal address to CABI-BioNET@CABI.ORG.

Yours sincerely
Dr. Mark Cook
on behalf of Prof. Tecwyn Jones, Director,
BioNET-INTERNATIONAL Technical Secretariat

Mycological Resources on the INTERNET

Ulf Thrane and Keith Seifert are continually revising and expanding their listing of the rich diversity of mycological resources available over the INTERNET. A copy of the latest version of this document will be printed in the next issue of Inoculum.

If you cannot wait for a hard copy of it, however, the current version is posted on the MSA Bulletin Board, or is available from either Ulf Thrane [UT@IBT.DTU.DK] or Keith Seifert [SEIFERTK@NCCCOT2.AGR.CA].

Bud Uecker, a widely known and well respected mycologist in the USDA-ARS Systematic Botany and Mycology Laboratory, Beltsville, MD, has a malignant, rapidly spreading brain tumor in his right front lobe. He underwent surgery 16 September and will now be undergoing physical therapy and radiation therapy. Bud had planned to write a letter for Inoculum. He wanted people to know.

For those of you who have sent condolences and who have kept Bud in their thoughts, thank you very much. If anyone wants to send a card, Bud's address is:

4611 Barbara Dr.
Beltsville, MD 20705
(phone: 301-937-2318).

Mary Palm
for the Systematic Botany & Mycology crew
Mycological Society of America
Prizes and Awards for 1994

The 1994 Awards Committee was made up of John C. Cooke (Chair), Linda M. Kohn, Rodney Roberts and Dennis E. Desjardin. Andrew S. Methven substituted for Linda Kohn in judging for the poster awards.

Distinguished Mycologist Awards

The Distinguished Mycologist Award is given annually to an individual whose career has been outstanding on the basis of published research and service to MSA. This year the committee selected two individuals to receive this honor recognizing the significance of their research and service to the advancement of biology as well as mycology.

Salomón Bartnicki-Garcia completed his B.S. and M.S. degrees in chemistry, bacteriology and parasitology at the Instituto Politécnico Nacional, in Mexico City in 1957. He then earned his Ph.D. in microbiology at Rutgers University in 1961. He remained at Rutgers, first as a research associate, and in 1962 he moved to the University of California at Riverside then as an assistant microbiologist and later as an associate professor of plant pathology and microbiology. In 1971 he accepted his present position as professor of plant pathology and microbiology at the UC, Riverside, and assumed the chair of the Department of Plant Pathology in 1989. In making major contributions to our understanding of cell biology he has consistently utilized fungi as models while his background in microbiology and chemistry furthered his molecular approach to their study.

Bartnicki-Garcia has published well over 100 papers and books. His initial work led to our understanding of the environmental conditions that regulate dimorphism in the Mucorales. His interests then focused on the chemistry of cell walls and he eventually proposed a taxonomic classification of the fungi based on cell wall composition that was published in the Annual Review of Microbiology, and became a "Citation Classic." His collaborative studies with J. Ruiz Herrera and Charles Bracker on the synthesis of fungal cell walls laid the foundation for our present understanding of fungal hyphal growth and morphogenesis. During this research period, a significant breakthrough was made in isolating chitosomes and using them to show in vitro synthesis of chitin microfibrils. The significance of his work did not stop there. He developed a method of quantification of cell wall material involved in forming the hyphal tip, using autoradiography, and most recently, has been active in developing mathematical models related to fungal morphogenesis. His innovative, pioneering research has received deserved international recognition and is widely cited. His papers have appeared in journals outside of those traditionally used by mycologists, resulting in a wider appreciation of fungi by other biologists.

Bartnicki-Garcia’s work also has had a significant influence on the teaching of mycology and biology. Most texts dealing with cell walls make reference to his studies. He has directed the programs of 10 Ph.D. students and collaborated with 18 visiting scientists and postdoctoral fellows. He is sought after as a speaker, having delivered over 150 invited lectures. He has been the recipient of numerous awards from allied societies including American Association for the Advancement of Science, Botanical Society of America, American Phytopathological Society, British Mycological Society and Mexican Society of Microbiology.

Bartnicki-Garcia has given generously of his time in service to mycology. As a member of the Mycological Society of America, he has been a councilor, a member of the MSA self study committee and a member of the editorial board of Mycologia. He is a co-founder of, and is a member of the editorial board, and chairperson of the advisory board of Experimental Mycology. He was a member of the program committee of IMC 2 and served as chairperson of the mycology committee of the American Phytopathological Society. He was a founder and director of the UCR Mexico Collaborative Research and Training Group as well as meeting co-organizer and co-chairperson of the steering committee to oversee creation of a US-Mexico Science Foundation.

In presenting Salomón Bartnicki-Garcia with an award as Distinguished Mycologist we recognize an outstanding professional researcher and colleague whose publications and other contributions have and will continue to influence our understanding of fungal growth.
Robert L. Gilbertson received a Bronze Star and a Purple Heart while serving three years of army combat service in Europe during World War II. Upon returning to his home state, he attended the University of Montana and completed an undergraduate degree in botany with honors. He advanced to the University of Washington and earned an M.S. in mycology before starting a Ph.D. program at the State University of New York in the College of Forestry at Syracuse. His interests in plants, fungi, and forestry led him to concentrate in mycology and forest pathology under Josiah L. Lowe. Thus Gil was a direct descendent in the lineage of Overholts to Lowe to Gilbertson. Gil completed his degree in 1954 and stayed on for a short time as a researcher in forest botany before leaving SUNY to become an assistant professor of forestry at the University of Idaho. Five years later, he returned to SUNY as an associate professor of forest botany for eight years then assuming his current position as professor of plant pathology at the University of Arizona in 1967.

Robert Gilbertson is a key player in the study of wood decay fungi as evidenced by his publication of over 140 papers and books. The books include fungi that decay ponderosa pine and the two volume work with Leif Ryvarden, North American Polypores. His knowledge of the European polypores is reflected in two additional volumes with Ryvarden, the second volume currently in press. This team compri ses the best source of knowledge on these fungi in the world.

Gil has been the recipient of ten major research grants and has directed the programs of 16 master students and 9 Ph.D.s. The strength of his studies on wood decay fungi relate not only to his descriptive characterizations and illustrations of their macro- and microscopic features but extends also to their hosts and their biogeographical distribution patterns, the type of wood decay they cause, their cultural characters, and their sexual compatibility systems. His publications also deal with the sensitivity of wood decay fungi to selected organic compounds as well as their role in biodegradation. While his major interest may be in wood decay fungi, he has acquired a broad knowledge of other fungi; he has published on Pythium, Albugo, Pseudopeziza, Cordyceps and the Myxomycetes.

It is abundantly clear from comments concerning his research ability that Gil is highly respected. One supporting letter summed it up "...he has become known as one of the very best among a large number of taxonomists concentrating on the higher basidiomycetes.”

Robert Gilbertson has maintained an on going collaborator and consultant relationship with researchers at the Center for Forest Mycology in Madison, Wisconsin. Through his interests in insect vectors, he also serves as a resource for the identification of fungi for forest entomologists working as far away as Cornell and Harvard. In addition, his outreach service to the scientific community has included appointments as chairman, secretary and program director for the Western International Forest Disease Work Conferences. He has also served as an associate editor of Plant Disease for the American Phytopathological Society. His service to the Mycological Society of America has been and continues to be exemplary, with appointments to the Council, Foray Committee, Awards Committee (twice as chairperson), Honorary Members Committee (current chairperson), and as chairperson for local arrangements for the annual meeting in Tucson. He was elected Vice President, President Elect and President (1979).

Bob Gilbertson's genuine enthusiasm and humanity have encouraged others to pursue their interests in the study of fungi. In honoring Gil with an award as Distinguished Mycologist, we recognize these qualities and the importance of his research, service and teaching to the advancement of mycology.

The Constantine J. Alexopoulos Prize

The Alexopoulos Prize is awarded annually to a young mycologist in recognition of the quality and originality of his research and who has received the Ph.D. within the last ten years. It is given in memory of the late C.J. Alexopoulos.

Thomas Dickinson Bruns completed a B.S. in Forest Science (1978) and an M.S. in Botany (1982) at the University of Minnesota. He proceeded to earn his Ph.D. at the University of Michigan in 1987. This was followed with a two year appointment as a postdoctoral associate in the laboratory of John W. Taylor in the Department of Plant Sciences University of California at Berkeley before accepting his present position with the Department of Plant Pathology.
While at the University of Michigan, Tom began studies on the evolutionary relationships within the Boletes using mitochondrial DNA and nuclear rRNA genes. He was among the first to use these molecular techniques on fungi and it became necessary for him to develop and refine the techniques then in use. Many of his innovations became the standard techniques used by others on fungi. The results of this research demonstrated systematic relationships between *Rhizopogon*, a gasteroid basidiomycete and members of the Boletales. During his postdoctoral studies, Tom used the newly devised polymerase chain reaction (PCR) to produce the first PCR derived fungal nucleotide sequences. Some of the work done on dried herbarium specimens indicated that herbaria holdings can serve as a "resource for modern systematics."

Tom has developed techniques for identifying ectomycorrhizal fungi from field samples. These techniques have far reaching ecological implications to other mycologists and biologists who frequently cite Tom's publications. We can expect his contributions in the fields of fungal phylogeny, molecular evolution and ecology to continue as his career develops. It is a pleasure to present the Alexopoulos Award to Thomas Bruns in recognition of his outstanding research and his most accommodating attitude.

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**Myron P. Backus Graduate Fellowship**

**Paul T. Geiser** is a Ph.D. student in the Department of Plant Biology at the University of Minnesota in St. Paul with G. May. Paul is studying the molecular characteristics of the A mating type genes in the Basidiomycete, *Coprinus cinereus*. His research involves the cloning, mapping and sequencing of the regions related to non-self recognition. The results will help to correlate functional specificity with allelic diversity. He has written a paper titled: Comparison of two B1 alleles from within the A mating type of the basidiomycete *Coprinus cinereus* published in Gen. Paul's background in mycology, microbial engineering, genetics, and cell biology should result in novel findings related to the sexual compatibility systems in *Coprinus*. As the first recipient of the Myron P. Backus Graduate Fellowship, we extend our best wishes for your continued success with this research.

**G.W. Martin - G.E. Baker Faculty Research Fellowship**

**Dr. Sabine M. Huhndorf**, of the Field Museum of Natural History, Chicago, Illinois, is the recipient of the 1994 award from the Martin/Baker Faculty Research Fund. This is the first such award by the MSA. Dr. Huhndorf was granted a Ph. D. degree from the University of Illinois, Urbana-Champaign, in 1990 on the basis of her studies of the species of *Leptosphaeria* on the Rosaceae. She has published 13 papers dealing with her investigations of several taxa of the pyrenomycetes and loculoascomycetes and has become a recognized authority of these difficult taxa. Dr. Huhndorf plans to use this award to partially support a collecting trip to central French Guiana.

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**Graduate Fellowships**

**Wendy A. Untereiner** a Ph.D. student with D.W. Malloch and N.A. Straus at the University of Toronto is studying the systematics of the Herpotrichiellaceae (Chaetothyriales of the Loculoascomycetes) and allied black yeasts. Her work involves the use of morphology, physiology and molecular sequence analysis in *Capronia* and its known anamorphs. Her present work indicates that species of *Capronia* with *Exophiala* or *Ramichloridium* anamorphs and species of *Exophiala* without known teleomorphs form a monophyletic group within the Ascomycotina. Her high motivation and analytical approach to the study of the anamorphs as they relate to each other and the holomorphs will further advance ascomycete taxonomy. We are pleased to present her with a Mycological Society of America Graduate Fellowship and wish her continued success.

**David M. Geiser** is a Ph.D. student in the Department of Genetics at the University of Georgia with M.L. Arnold and W.E. Timberlake. David's research is a study of the population genetics and evolution of *Aspergillus* section *Nidulantes*. His work involves an analysis of variation in fungal chromosomal structure and determination of the role of meiosis in the evolution of fungal species. Towards this end, he has recently published a paper titled: Sexual origins of British *Aspergillus nidulans* isolates. David is recognized for his strong background in mycology and his conceptual approach to the study on fungal populations. As a Mycological Society of America Graduate Fellowship recipient, we recognize him for his potential influence in modern mycology.
Graduate Research Poster Awards

Poster Presentations are judged on five criteria: aesthetics and artistic effort; clarity of explanation of text and/or visual aids; scientific significance; creativity of methodology; and technical quality. This year’s awards went to the following:

Lisa A. Castelbury — Dept. of Plant Pathology, University of Illinois at Urbana, IL.
Title: Small subunit ribosomal RNA gene phylogeny of Plasmopara brassicae

Susan Huffine — Dept. of Biology, University of Texas, Arlington, TX.
Title: The infection of Cynodon dactylon by Gaecumannomyces graminis

Kevin A. Kuehn — Dept. of Biological Sciences, University of Alabama, Tuscaloosa, AL.
Title: Diel fluctuations in fungal activity associated with standing dead litter of the aquatic macrophyte Potamogeton ephemeroides.

Kurt A. Zeller — Dept. of Biological Sciences, Purdue University, West Lafayette, IN.
Title: The evolution of host specificity in the obligate plant parasite Erysiphe cichoracearum: A comparative phylogenetic examination.

William H. Weston Award for Teaching Excellence

John W. Taylor is the 1994 recipient of our society’s William H. Weston Award for Teaching Excellence. Dr. Taylor continues a tradition of excellence in mycological teaching at the University of California at Berkeley established by Ralph Emerson and Melvin Fuller. After earning his baccalaureate degree at Berkeley, John went to UC-Davis to earn his Masters and Ph.D. degrees, and then returned to his alma mater, where he has stayed.

Dr. Taylor is an excellent researcher, as evidenced by over 50 published journal articles and nine grants from USDA, NIH, and NSF. John has been the academic advisor for 13 graduate and postdocs. He has shared his skills and knowledge of molecular biology techniques with mycological colleagues throughout the world.

John Taylor has a long and active association with our mycological society. He has been a member since 1974 and was the recipient of a graduate fellowship and of the Alexopoulos Prize (awarded to a young mycologist for excellence in published research). Dr. Taylor has served the society as a councilor, member of the editorial board, chairman of an annual meeting committee and currently serves as our society’s representative to AAAS.

In the statement expressing his teaching philosophy, Dr. Taylor states that there are six points to remember when teaching mycology. These are: 1) The most important part of a mycology course is the laboratory; and living material is the best material to examine, especially if collected on field trips. 2) In a mycology course, emphasize the unique features of fungi. 3) Where fungi offer the best system for studying some basic biological concept, such as chemical communication, emphasize these features. 4) Generating interest in mycology is as important as relating facts about fungi. Student interest is directly proportional to instructor enthusiasm. 5) Relate stories about fungi to the student clientele. If the bulk of students are plant pathologists, use examples that are plant pathogens. And lastly, 6) Remember that we are teaching TA’s to be college instructors, and give them meaningful responsibilities without exploiting them. These guidelines have served John well, as evidenced by the letters from students and colleagues supporting his nomination.

One PhD student commented how his contact with Dr. Taylor changed his career goals from becoming a botanist to becoming a mycologist. He and several others state that John Taylor serves as their role model for teaching. He also serves as their role model for their professional development as a scientist.

Dr. Taylor’s department chairman had many nice comments including those about student evaluations. John’s evaluations are consistently higher than the departmental average.

As we’ve seen earlier, John Taylor likes to use field trips to spark student interest. His students visit the world’s largest above-ground mushroom farm, a fungal cheese factory, and a winery. The annual weekend field trip to Mendicino is becoming legendary.

“Perhaps Dr. Taylor’s greatest asset as a teacher is his enthusiasm.” Thus states one letter, the sentiment of which was repeated frequently.

One letter of support was from a graduate student whose mother was a grad student at Harvard in the early 50’s and knew Dr. Weston. His mother’s description of Dr. Weston has convinced this student that “Dr. Weston and Dr. Taylor have been cut from the same cloth...”

Thus, it is with pleasure that we present to Dr. John W. Taylor the William H. Weston Award for Teaching Excellence.
Dear Inoculum ...

An Yet Another Word From E.M. Fries

The following item appeared in my e-mail, but I have been unable to send a reply (his e-mail address comes up as "address unknown"):  
To:  rpkl@cornell.edu  
From: EMagnusFr@heaven.edu (Elias Magnus Fries)  
Subject: Thank you to MSA for Invitation to Celebrate my 200th Birthday

I have been unable to locate an e-mail address for the Mycological Society of America, though they do have a record of your address (perhaps you are slated to join me here and they are not?), and so hope that you will forward these thanks to the appropriate person(s) involved:

It was for me a very great pleasure to receive your invitation to a 200th birthday party for me that you held during the MSA Social and Auction at Vancouver during the Fifth International Mycological Congress. You will realize that permission to leave here and to attend such a function is most difficult to come by, but apparently my good works and deeds allowed those in charge to permit me that one evening with my "descendents" and followers.

To have a chance to address so many mycologists after such a long silence was also very heartwarming. I was only slightly disappointed with the kind introduction by the retiring President of your Society, Professor Ronald H. Petersen, since I had thought that with such a fine Swedish name he would know better how to pronounce my name. He was apparently convinced that I am known as "ee-lee-as M. Fries," whereas he certainly should have known that my name is "A-lee-as MAGNUS Fries" and, as I pointed out, with the decline in the use or even basic knowledge of Latin, those present at my party might not be aware that "Magnus" means "The Great."

I apologize for spending so much of my brief talk in reminiscing about my life, and reminding the assembled mycologists that even though there is today a Scandinavian mycological "boy wonder" that I was the FIRST boy wonder, having entered the University of Lund in 1811 at the age of 17, and graduating three years later with a Ph.D., being immediately appointed to the faculty at that University.

There was another disappointment for me at Vancouver, for when I asked how many present knew about or had read my autobiography not a single hand was raised. True enough, my autobiography was published in a small edition of 100 copies in Latin, which of course you today don't read, but that is no excuse for the lack of knowing my autobiographical details, for the Danish Mycological Society published an ENGLISH translation of that on the occasion of their 50th anniversary, in volume 5 of the journal they wisely called FRIESIA. Perhaps the apparently illiterate modern-day mycologists will now have a chance to read it.

It would have been dishonest of me not to have reported that I have been looking down on all of you for over 100 years, and that I have not always been very pleased with what you have done with my classification! I shall continue those observations, and hope you will realize the error of your ways.

As you might suspect, I listened to the talks at Vancouver with great interest, and I was particularly taken with the controversy which you seem to be having with what you have called "anamorphs" and "teleomorphs." I could not help thinking about what I had written in my autobiography, published in 1857, which I quoted and quote here again, since there may be a lesson to be learned:

"A-lee-as M. Fries," whereas he certainly should have known that my name is "A-lee-as MAGNUS Fries" and, as I pointed out, with the decline in the use or even basic knowledge of Latin, those present at my party might not be aware that "Magnus" means "The Great."

I apologize for spending so much of my brief talk in reminiscing about my life, and reminding the assembled mycologists that even though there is today a Scandinavian mycological "boy wonder" that I was the FIRST boy wonder, having entered the University of Lund in 1811 at the age of 17, and graduating three years later with a Ph.D., being immediately appointed to the faculty at that University.

There was another disappointment for me at Vancouver, for when I asked how many present knew about or had read my autobiography not a single hand was raised. True enough, my autobiography was published in a small edition of 100 copies in Latin, which of course you today don't read, but that is no excuse for the lack of knowing my autobiographical details, for the Danish Mycological Society published an ENGLISH translation of that on the occasion of their 50th anniversary, in volume 5 of the journal they wisely called FRIESIA. Perhaps the apparently illiterate modern-day mycologists will now have a chance to read it.

It would have been dishonest of me not to have reported that I have been looking down on all of you for over 100 years, and that I have not always been very pleased with what you have done with my classification! I shall continue those observations, and hope you will realize the error of your ways.

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In 1812, the second year of my studies at the University of Lund, “I collected especially HYPMOMYCETES and epiphyllous fungi, which had so far been neglected, but I soon realized that the greater part of them are nothing but elementary stages of the, as we now say, higher ones; and these species always seemed to me mean and insignificant and not worthy of being recorded separately, except perhaps by those glad merely to increase the number of species.”
Perspective on the National Biological Survey

In her article in the July, 94 issue of Inoculum, K. Elaine Hoagland, Executive Director of the Association of Systematics Collections notes that government funding for the National Biological Survey Program and basic biological field research is in trouble because private property owners fear that discovery of new or rare species on their land will prevent development and reduce the land's economic value. The owners are right.

Hoagland urges the readers of Inoculum to contact their representatives and oppose proposed rules which will make it harder for biologists to do research on private land.

While few, if any, scientists would oppose the expansion of scientific research and knowledge, the fears of the property owners are well-founded. As the Endangered Species Act is currently written, if an endangered species is found on your property, its rights take precedence over yours, as far as development is concerned. The fact that you paid money for the land in order to use it is your tough luck.

The problem with the Act is that it forces a few selected individuals to bear the full burden of what is considered to be a public good.

In the old days, society used to buy land from individuals that it needed for public purposes. If the law were modified to require the government to buy land that was needed to preserve an endangered species, I'm sure the current opposition to biological field research would disappear. Readers of Inoculum should contact their representatives to suggest that the present law be changed so as to require fair compensation for property used in this way.

S. L. Rosenberg
Castro Valley, CA
Phone/fax: 510-537-0326

Job-Hunting, Deadlines, and Dignity

There was a job advertisement in the July 1994 edition of the Inoculum which was mailed to me in August. I applied for the job the same day I received my newsletter only to find out that the applicants were already screened and interviewed and an offer was about to me made to the successful candidate.

My request to you is that from now on, if possible, please publish the application deadline, or do not publish the advertisement. To be unable to find an employment in spite of having a Ph.D. with teaching and research experience is humiliating enough. We do not want to feel worse by going for jobs long after the application deadline.

In this context, my opinion is that the MSA Placement Committee should be made more effective than what it is now. The Committee on Curriculum (Teaching of Mycology) should also be revamped. The number of graduate or undergraduate students willing to take mycology courses has been very low for a number of years. This is because courses are designed by many of our teachers not to train students for jobs, but to satisfy the ego and competence of the teachers. In many cases, mycology teachers make very little attempt to learn new and upcoming techniques and use them to enhance the acceptability of the students to the job market. I know, many of us will be upset to hear such arrogance, but believe me, this is true.

Unless something is done very soon to change the dismal situation about placement and curriculum in mycology, we will see more frustration and disappointment among our graduates, and more apathy among the new students. The question is, do we care?

Partha Banerjee
One Latham Village Lane,
Apt. 7
Latham, NY 12110
Phone: 518-782-0948

[Editor's note: It has always been my goal to print only job advertisements that are current and for which deadlines for submissions are still far enough ahead to warrant their inclusion. Offerings without such dates are now listed with their date of receipt. Please note in the Committee Reports that the MSA Placement Committee voted itself out of existence because of the greater effectiveness of the Bulletin Board.]
**UPCOMING EVENTS**

※ See the MSA Bulletin Board for more information on these events!

**ATCC Laboratory Workshops for 1994** (partial listing).
Contact ATCC/Workshop Manager, 12301 Parklawn Dr., Rockville, MD 20852; phone 301-231-5566 or fax 301-770-1805.

Freezing and Freeze-Drying of Microorganisms – October 19-21
Recombinant DNA: Techniques and Applications – Oct. 31 - November 4
Polymerase Chain Reaction (PCR) Applications/Cycle DNA Sequencing – November 8-11

※ Nov. 10-11, 1994: **International Symposium on Biotechnology of Ectomycorrhizae: Molecular Approaches**, Urbino, Italy. The 2-day program focuses on the ecology and taxonomy of ectomycorrhizal fungi; the identification of these fungi; molecular approaches to their functioning; genetic bases for development; and molecular approaches to truffle biotechnology. The registration fee is Lit. 400,000, and should be deposited by bank transfer directly on the Symposium bank account. Checks must be payable to: Biotechnology of Ectomycorrhizae: Molecular Approaches, Tesoreria dell’Universita di Urbino cc. No. 20130, Cassa di Risparmio di Pesaro Succursale di Urbino, Via dei Fornari, 61029 Urbino (Italy). For more information, contact: Prof. Vitberto Stocchi, Istituto di Chimica Biologica Giorgio Fornaini, Via Saffi 2, 61029 Urbino (PS), Italy [phone +39-722-305262/305220; fax +39-722-320188]. For information about hotel reservations in Urbino, contact the travel agency Agenzia Viaggi Marchionni, Via Pucciniotti 7, 61029 Urbino (PS), Italy [Phone +39-722-328877; fax +39-722-4153].

February 15, 1995: A Technical Session on **Forest Tree Diseases and Their Management**; Rajasthan Agricultural University, Udaipur - 313 001, Rahasthan, India. The Society of Mycology and Plant Pathology is organizing a Global Conference on Advances in Plant Diseases and their Management on the occasion of its Silver Jubilee celebration (12-17 February 1995). The tentative scientific program includes 11 technical sessions. One of these technical sessions will deal with “Forest Tree Diseases and their Management” and will include both invited and contributed papers. The session will attempt to focus on newer research and management strategies for major pathological and weed problems which influence the sustainability of forest and urban trees and their environment. Contact: Dr. Pritam Singh, Coordinator, Integrated Pest Management and Forest Pathology, Science and Sustainable Development Directorate, Place Vincent Massey - 20th Floor, 351 St. Joseph Blvd, Hull, Quebec, Canada K1A 1G5 [phone 819-997-1107; fax 819-994-3389].

※ March 21-26, 1995: **18th Fungal Genetics Conference**, Asilomar, CA. See p. 13 for more information. Contact: Dick Weiss, Dept. of Chemistry & Biochemistry, UCLA, Los Angeles, CA 90024-1569 [phone 310-825-3621; fax 310-206-4038; email <rkw@arg.chem.ucla.edu> or <rkw@chem.ucla.edu>.

※ June 5-6, 1995. A workshop, **Managing the Modern Herbarium**, sponsored by the Society for the Preservation of Natural History Collections will be held in Toronto, Canada. See p. 13 for more details. Contact: Deborah Metsger, Dept. of Botany, Royal Ontario Museum, <dmetsger@botany.utoronto.ca>.

July 16-21, 95 — Annual meeting of the **Society for Invertebrate Pathology**, Ithaca, NY. Contact: Dr. John Van-Denberg (phone 607-255-2456; fax 607-255-2459; <jdv3@cornell.edu>.

August 6-10, 1995 — **Mycological Society of America** meets with AIBS at San Diego (CA) Town & Country.

August 29 – 2 September 1995 — **A Symposium on Follicolous Cryptogams** will be held at the Eszterházy Teachers College, Universitas of Northern Hungary, Eger, Hungary. This symposium will be sponsored by the International Association of Bryologists and International Association for Lichenology and follows after the 7th European Ecological Congress in Budapest (20-25 August 1995); information available from Dr. László Gallé, Dept. of Ecology, JATE University, H-6722 Szeged, Egyetem u. 2, Hungary). The scientific program includes general lectures on various aspects of the environmental conditions of follicolous organisms [climatic, microclimate, leaf-surface parameters, etc.], zoological subjects, and the characterization of rainforest follicolous communities; the scientific sessions will cover all levels of studies on bryophytes and lichens. For the Second Circular or other information, contact: Dr. Edit Farkas, Institute of Ecology and Botany, Hungarian Academy of Sciences, H-2163 Vácrtó, Hungary.

**For Other Long-Range Planning:**

1996 (August): **IUMS, Bacteriology and Applied Microbiology Division**. Three back-to-back congresses will occur in Jerusalem, Israel: Virology (12-16 August), Bacteriology (19-23 August), and Mycology (19-23 August).


※ 1999 (August 1-7): **The International Botanical Congress** will be held in St. Louis, MO. The time of the meeting was planned to assure that mycologists might be included. The organizers want mycology to be included and would like to have some fully integrated symposia including mycology. Although the meeting will not occur until 1999, we must offer suggestions now if they are to be considered. Mycology needs to nurture its botanical roots! Contact Don Pfister with any ideas of topics that will be of interest to the botanical community as a whole, as well as mycology.
New Course and Conference Announcements

18th Fungal Genetics Conference
21-26 March 1995. Asilomar, CA
The Eighteenth Fungal Genetics Conference will be held on the Asilomar Conference Grounds, Pacific Grove, California, from 21-26 March 1995 (Tuesday--Sunday). Information and forms are being mailed with the Fungal Genetics Newsletter. In addition, the information and forms will be mailed to participants of the 1993 meeting. If you are not on either of these mailing lists or do not receive the information in the next few weeks, I will be happy to send the information to you. Contact: Dick Weiss, Dept. of Chemistry & Biochemistry, UCLA, Los Angeles, CA 90024-1569 [tel. (310) 825-3621; FAX (310) 206-4038; Email rlw@argon.chem.ucla.edu or rlw@chem.ucla.edu]. Dr. Weiss will reply to all Email requests, but will mail the information.

Managing the Modern Herbarium
5-6 June 1995. Toronto, Canada
The workshop, sponsored by the Education and Training Committee of the Society for the Preservation of Natural History Collections (SPNHC) will immediately follow the SPNHC 10th anniversary annual conference, which is being held at the Royal Ontario Museum in Toronto, Ontario, Canada, June 3-4, 1995. This workshop is designed for all those concerned with the maintenance of botanical or mycological collections. Through instruction, focused discussion, hands-on participation, and publication, the program will strive to:
- promote dialogue on conservation and collection management issues, solutions and resources;
- establish a discipline consensus on policies and procedures for the uses of collections in molecular research, with emphasis on extant collections and the making of new collections;
- exhibit and demonstrate a range of specimen preparation and field techniques;
- facilitate communication among institutions and professional societies.

A preliminary list of topics includes adhesives, bar-coding, care of botanical prints and illustrations, collecting techniques, cryopreservation, destructive sampling, papers, pest management, specimen preparation, and storage.

For input, or for more information contact: Deborah Metsger, Department of Botany, Royal Ontario Museum, 100 Queen's Park, Toronto, Ontario, Canada M5S 2C6. Email: DMETS-GER@BOTANY.UTORONTO.CA; fax: (416) 586-5516.

The Society for the Preservation of Natural History Collections (SPNHC) is a multidisciplinary organization composed of individuals who are interested in development and preservation of natural history collections. Natural history collections include specimens and supporting documentation, such as audio-visual materials, labels, library materials, field data, and similar archives. Preservation refers to any direct or indirect activity providing continued and improved care of these collections and supporting documents. The Society actively encourages the participation of individuals involved with all aspects of natural history collections.

Summer Mycology Course
11 June - 7 July 1995
Flathead Lake Biology Station, Polson, MT
Dr. Orson K. Miller Jr. will teach a 4 week mycology course at the University of Montana's Flathead Lake Bio-logy Station in Northwest Montana. The course dates the are June 11 to July 7, 1995, with 2 1/2 days per week in the field, lecture room, and laboratory. Use of the lab will be allowed and encouraged during non-course days. Coverage will include the larger fungi and mushrooms (Homobasidiomycetes, and Gasteromycetes in the Basidiomycetes and cup fungi, morels; truffles and Discomycetes in the Ascomycetes). The course enrollment will be limited to 13 students and is a 3 credit course. Enrollment information can be obtained by writing to: Dr. Jack Stanford, Director, Flathead Lake Biology Station, University of Montana, 311 Bio Station Lane, Polson, MT 59860.

Food and Air Borne Fungi
24-28 June 1995. Central Plant Health Laboratory, Ottawa, Canada
Sponsored by the Centraalbureau voor Schimmelcultures and Centre for Land and Biological Resources, Research Branch, Agriculture & Agri-Food Canada, Ottawa. A course for personnel from educational, research or industrial settings, with an interest in food spoilage, indoor air quality, industrial hygiene, biodeterioration etc. Participants will learn to identify more than 100 common microfungi, including species of genera such as Penicillium, Aspergillus and Fusarium. For details contact: Keith A. Seifert or J. Bissett, CLBRR, William Saunders Bldg., Agriculture Canada, Ottawa, Ontario K1A 0C6, Canada, Phone: 613-996-1208, Fax: 613-943-0953, Email: seifertk@ncctc02-agr.ca or bissettj@ncctc02-agr.ca or Dr. R.A. Samson, Centraalbureau voor Schimmelcultures, P.O. Box 273, 3740 AG Baarn, Netherlands, Fax: (31) 2154-16142, Phone: (31) 2154-81234, Email: samson@cbcs.nl.

Latin American Congress of Mycology
October 1996. Havana, Cuba.
The second Latin American Congress of Mycology will be held at the Institute of Tropical Medicine "Pedro Kouri" in Havana, Cuba, in October 1996. The Congress will be held under the auspices of the Latin American Association of Mycology and other national and international entities. There will be oral and poster presentations and sessions on Biotechnology, Ecology, Ethnomycology, Phytopathology, Industrial Mycology, Medical Mycology, and Taxonomy as well as other topics.

If you are interested in participating or obtaining more information contact Dr. Miguel Rodriguez, Pres. ALM, National Botanical Garden, Carretera del Rocio km 3 1/2, C.P. 19230 Calabazar, Boyeros, Ciudad de La Habana, Cuba. Indicate your name, address, subscription telephone number, email address, and area of interest.

If you are interested in becoming a member of the Latin American Association of Mycology notify Dr. Rodriguez at the above address or, if you are in the U.S. send $10.00 U.S. to Dr. Mary E. Palm, Rm. 329, B-011A, BARC-West, Beltsville, MD 20705-2350 USA. She will facilitate the transfer of money and information to Dr. Rodriguez.
Dear members of the MSA:

The sunshine and beauty of the mountains in Vancouver provided the background for the inspiration and excitement of the Fifth International Mycological Congress. Despite the problems with logistics, the quality of presentations and the congeniality were outstanding! Did you know that Tony Griffiths has offered a free meal to any IMC5 attendee returning to Vancouver? many of you are owed that meal! Now, back in the reality of our everyday lives, I have the privilege of serving as the 64th President of the Mycological Society of America. In this letter to you, the members of the Society, I invite all of you to participate in contributing to the mission of the Society – to promote and advance the science of mycology.

Over the past year evidence exists of increased interest in the fungi as part of the biodiversity discussion, as a promising source of pharmaceuticals, as versatile teaching and research tools, and awareness of fungi as a group of organisms fundamentally important for the future of humanity. Although you and I recognize the importance of fungi in many facets of our lives, we face a massive educational task among our peers and elected officials. These folks include the administrators who control our research and teaching budgets, members of Congress who only think of fungi as a gourmet food item, and even our parents who still can’t understand our thesis topic and wonder why anyone would want to spend their lives looking at these weird creatures, much less why we should be paid to do so!

The increased awareness is due in large part to individual efforts in educating others that, for example,

- 90% of vascular plants depend on fungi associated with their roots as mycorrhizae for nutrient uptake and transfer of phosphorus;

- fungi control the rate of nutrient cycling in forest ecosystems thus they control biomass productivity through saprophytic decay of organic material and release of nutrients back into the ecosystem;

- natural products produced by fungi include the antibiotic penicillin and, more recently, cyclosporin, the drug used to prevent the rejection of human organ transplants;

- the absorptive mode of fungal nutrition affects living organisms negatively by devastating human and plant parasitism and positively as agents for biological control of weeds, nematodes, and plant pathogenic fungi.

Many mycologists have contributed to educating the republic, working with medium, and communicating with members of Congress and other government officials. here are some examples of which I am aware: Mary Palm called into Ira Pflado’s afternoon radio talk show “Science Friday” on National Public Radio educating thousands of listeners about the role of fungi in ecosystems. Henry Aldrich and others wrote to the National Biological Survey about
the importance of fungi to their program and as a result the fungi are included with three chapters and a box in the NBS Status and Trends Reports. Did you recognize Jim Trappe in the Smithsonian article on harvesting wild mushrooms in the Pacific Northwest? Please let Rich and myself know of your activities and successes in promoting and advancing the science of mycology. Now is the time for each of us to become personally involved in educating the "mycologically challenged" about fungi as a group of organisms vital to humankind.

The MSA is a thriving, forward-looking scientific society. The net increase in members this year is encouraging and bodes well for our future. The number of travel grants remains high, particularly those awarded to graduate students, thanks to the work of our tireless Endowment Chair, George Carroll, and his Committee. The MSA Bulletin Board now located on a gopher out of New York continues to serve the national and international community. Changes of the format and cover of *Mycologia* have been positive and we thank *Mycologia* Editor-in-Chief Dave McLaughlin and MSA newsletter editor Rich Humber and the Associate Editors of *Mycologia* for the taking the time to develop and implement these changes.

Changes in the near future include the selection of Dave Griffin as new Editor for *Mycologia* starting in 1996, and starting in 1995 a new Editor for the MSA newsletter, Ellen Farr. We are looking for a new *Mycologia* Index Editor. If you like computers and want to make a contribution, David Farr would be pleased to advise you about the responsibilities of this position. Gene Yetter is working to database the Index of *Mycologia* vols. 1-5 so that soon the entire Index to *Mycologia* will be available as a database. Hard copies of the Index to Vols. 59-83 can still be purchased from the New York Botanical Garden.

If you see an opportunity to promote and advance the science of mycology, do it. Know that you are the one who can best grasp it. If you have an idea and would like to work through the Society, contact one of the officers listed on this letterhead, a Councilor, member of a Committee, or me. Finally and most importantly, the Mycological Society of America is just "us" — there is no "they"! We all must become part of the voice for the fungi.

Sincerely,

Amy Y. Rossman, President
MSA Organization 1994-95

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AFFILIATED SOCIETIES
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Illinois Mycological Association
Oregon Mycological Society
Minutes of Official Meetings

MINUTES — MSA COUNCIL
14 August 1994, Fort Camp Lounge, Gage Bldg.
University of British Columbia — Vancouver, B.C.

1. The meeting was called to order by President Ronald Petersen at 8:08 a.m. All Council members were present except Martha Powell and Georgiana May. John Kliromonomos was present as Michael Allen's representative.

2. The minutes of the 1993 Council meeting as printed in *Inoculum* 44(3) were approved.

3. The minutes of the 1994 mid-year Executive Committee meeting, which had been distributed by mail to Council and available on-line on the MSA Bulletin Board were approved and will appear in the fall issue of *Inoculum*.

4. Vice-President Donald Pfister reported the results of the 1994 election. They are as follows: Vice-President, James H. Ginnis; Secretary, Linda M. Kohn; Councilor for Cell Biology/Physiology, Faye Murriin; Councilor for Ecology/Pathology, Tom Harrington; Councilor for Genetics/Molecular Biology, Karen Nakasone; and Councilor for Systematics/Evolution, Keith Seifert. All three by-laws were approved which included the elimination of the MSA Placement Committee, changing the name of the Memorial fund to Mentor Fund, and moving the Publications Fund from the Endowment (restricted) to the General Operating (unrestricted) Fund.

5. Secretary Palm's report had been circulated by mail and was amended to include the notice of the death of Richard Nolan. Additionally, information was recently received from NSF regarding a North American Research Fellows Program aimed at U.S., Canadian or Mexican scientists who are within approximately 10 years of receipt of their Ph.D. and whose research program would benefit from the international exposure. Secretary Palm expressed her thanks to Presidents Powell, Blackwell, and Petersen, with who she has served, as well as Treasurer Baroni, for their communication, enthusiasm and support. She has enjoyed her term as Secretary and looks forward to working with incoming Secretary Kohn, in order to facilitate a smooth transition.

6. Treasurer Baroni circulated his report. He indicated that the Society is in excellent financial shape. The Society finances were officially audited recently. The final report from the auditors will be available soon. Current assets are approximately $246,000.00. Some minor adjustments of the 1993 report are necessary and will be published in *Inoculum*. Baroni reminded Council of the need to wisely invest the endowment monies in order to increase the low rate of return. He also indicated that in his report he has labeled as "contingency funds" the money in the MSA checkbook which was previously unaccounted for. These are part of the General Operating Fund.

Baroni reported that Allen Press, especially our MSA manager Karen Hickey, is doing an excellent job in their first year of managing our membership services. He requests comments. As of 31 July 1994 Society membership consisted of 121 6 members, a net increase of 76 members. He encourages current members to continue to recruit new members as this is essential to the health of our Society. Don Pfister has received the entire MSA membership list electronically for placement of the Bulletin Board. However, many e-mail addresses are missing. A printout will be available at this meeting for corrections. Baroni recommended that we increase our charge for MSA mailing label sets, which cost the Society approximately $50.00, from $150 to $20, to go to the General Operating Fund. This was unanimously approved. Council voted to accept Baroni's report.

7. President Petersen reported that there will be some additional expenses for MSA for unticketed functions held at IMCS, including room rental fees, and a charge of $3.00 per person for each function. Additionally, MSA functions are noted only in the IMCSevents calendar at the beginning of the schedule so members should remind others of these events, namely the MSA Breakfast with business meeting and presentation of awards at 7:30 Tuesday morning, the Presidential Address at 7:30 Tuesday evening, and the MSA Social and Auction Saturday evening.

8. **MYCOLOGIA**

A. Editor-in-Chief McLaughlin reported that the redesign of the journal is now completed. He also reported that the flow rate of manuscripts is about the same as last year and the journal is more or less on schedule. The associate editor system is in pace, with twelve associate editors currently serving. Manuscripts are now handled through review and revision by associate editors, with copy-editing and final approval or rejection by the Editor-in-Chief. The Editorial Board serves in an advisory capacity and, as a result of the new associate editor system, will shrink from 15 to 5 members in the next five years. The terms of Martha Christensen, Cletus Kurtzman and Rytas Vilgalys expire this year. In order to implement that change, the Editorial Board nominated one person, Jean Lodge, to serve a five year term. That nomination was unanimously approved by Council.

B. The *Mycoologia* Managing Editor's report was presented by Roy Halling. Halling pointed out that the subscriber base has increased 2.5% and membership base more than 5% since 1993. He reported that some of the early issues of Volume 86 were somewhat late due to the development of the new journal format implemented in that volume. Changes in cost due to new format will not be analyzed until the end of the first year of its publication. As of May 1994 income exceeded expenditures. The final number for Fiscal Year 1993-1994 ending 30 June 1994 will be available soon. Seventeen copies of the *Mycoologia* Index were available soon. Seventeen copies of the *Mycoologia* Index were sold totaling $850.00. Palm reports that at least 100 additional copies must be sold for the Society to break even on production costs for the Index. The journal and Index will be promoted at IMCS and in the next issue of *Mycoologia*. There was some discussion on the number of back issues of *Mycoologia* currently stored at NYBG and Allen Press and what to do with them. As a result of the presence

C. President-Elect Rossman reported that a new *Mycologia* Index Editor is needed and requested that she be notified of interested candidates.

D. President-Elect Rossman reported that a new *Mycologia* Editor-in-Chief is needed when McLaughlin's term is over at the end of 1995 and that we have two excellent candidates, differing mainly in scientific area of expertise. Discussion centered on what the Society wants from the journal and its Editor-in-Chief as well as the process for selection. It was agreed that we would like to move towards electronic submission which saves time and money and is now possible through Allen Press. It is therefore important that the editor be computer literate, is able to get the journal out in a timely fashion, is an active researcher, has good communication skills, and who will help broaden the perceived and real scope of the journal. The advisability of paying for copy-editing was discussed. The suggestion was made that *Mycologia* should be on Med-Line. Halling will discuss this with Sandi Frank. Following additional discussion the Council voted by paper ballot to elect David Griffin as the next *Mycologia* Editor.

9. Michael McGinnis reported that the *Mycologia Memoirs* Committee received a request for information but that no other outstanding business is currently before the committee. President Petersen reported that he wrote to the Editor-in-Chief of APS Press requesting that the Lubrecht be given a greater discount for the *Mycologia Memoirs* published by APS Press. He received a response indicating that an increase was not possible and no-
11. INOCULUM
A. Inoculum Editor Humber submitted his report and a financial statement. Much of the effort during the last year was aimed at streamlining the operation, and Humber provided a number of suggestions as to how this can be accomplished further in the future. The Newsletter was placed on the MSA Bulletin Board this year with favorable response. Humber indicated that material from the membership has dropped off substantially and that much of his information has come from other newsletters, the MSA bulletin board, as well as Elaine Hoagland at ASC and Amy Rossman, MSA Liaison for Public Responsibility. Providing courtesy copies of Inoculum to other societies and persons at various funding and policy agencies has been worthwhile. Humber moved that the editors of Mycologia and Inoculum cooperate with the AIBS to study the feasibility and desirability of standardizing literature citation formats across a broad range of biological publications. This was unanimously approved. Humber expressed his thanks to President Petersen and other members of the Council for cooperation, concern, guidance, and support.

B. President-Elect Rossman reported that Ellen Farr has volunteered to serve as the next Editor of Inoculum and that the Executive Committee was favorable to this offer. Rossman discussed Farr’s expectations as newsletter Editor. Farr would make Inoculum available electronically as well as producing camera-ready copy and at present is willing to publish the newsletter up to six times per year and distribute it with Mycologia. Estimates from Allen Press indicate that reproducing Inoculum and distributing the journal with the journal will be inexpensive and will relieve the editor of those tedious tasks. It was noted that the newsletter is mailed first class and reaches foreign members much more quickly than does the journal. Council supported the idea of mailing the newsletter to foreign members via first class in order to reach all members in a timely manner. Discussion followed over the need for and place to publish abstracts. It was suggested that the Program Committee could gather abstracts and make arrangements for their publication. Incoming President Rossman and the Publications Committee will explore this further.

C. The MSA Bulletin Board has been a success and reaches a wide international audience. Vice-President Pfister indicated that he would like someone to take over the responsibility of the MSA Bulletin Board. Volunteers should contact Incoming President Rossman.

D. Secretary Palm reported that a more up-to-date membership directory is needed. This can be compiled, printed and distributed with the journal by Allen Press. Palm and incoming Secretary Kohn were appointed to begin making arrangements for a new directory with a target date of late Fall 1994. An up-to-date directory will also be available on-line on the MSA Bulletin Board.

12. ENDOWMENT
A. Finance Committee. Council has long-supported the idea of the need to more wisely invest Society endowment monies to increase our rate of return and therefore successfully fund awards and increase the size of some awards. As a result of deliberation by the Executive Committee on President Petersen’s proposed changes in the responsibilities of the MSA Finance Committee, the following by-laws changes were approved by Council (and will need approval by membership):

XIII(A) - The investment of Society Endowment Funds shall be under the supervision of the Finance Committee.

XIII(E) - The Endowment Fund shall consist of the restricted monies.

The Manual of Operations will read the “The Finance Committee shall oversee and supervise investment of Society Endowment funds and advise the Council on other financial matters. This will be a standing committee with five members. The chairperson will be appointed by the President with Council approval. In addition to the chairperson, other committee members will be the MSA Treasurer (ex officio), President (ex officio), and two additional presidential appointees.”

B. Endowment Committee. Endowment chair George Carroll reported that between 1 June 1993 and 1 June 1994 a total of $15,202.71 was contributed to named subfunds of the MSA Endowment Fund, with an additional $3,540 donated since 2 June 1994. The total for the named subfunds now stands at $42,206.99 with a target of $48,000 in order to fully vest these subfunds. The Smith Fund and Alexopoulos Prize Fund stand at approximately $16,000 and $9,500, respectively. At IMC5 nine graduate travel awards, 1 Backus graduate research award, 1 Martin/Baker senior research award, 1 Alexander and Helen Smith Award, and one Alexopoulos prize will be presented. Additionally, monies from t-shirt sales, the annual auction, and a raffle will be placed in the General (Uncommitted) Endowment Fund. These fund-raising activities have raised $5000-6000 in the past two years. This year’s social will celebrate E. M. Fries’ 200th birthday, and Fries himself will be in attendance.

Carroll presented a number of ideas for the future, including an increase in the size of student travel awards. A letter requesting mycologists to remember the MSA in their wills and bequests has been drafted and sent to a limited number of prominent members of the Society. Carroll again encouraged the Council to implement the necessary changes in the finance structure in order to more wisely invest the endowment monies.

13. President Petersen acknowledged the large amount of work carried out by Tony Griffiths, Brent Heath, and the other IMC organizers. Local forays held prior to IMC5 yielded few fungi, but excelled in scenery and food thanks to Bob Bandoni’s planning.

14. AWARDS
A. The A. H. and H. V. Smith Research Fund Awards Committee granted the 1994 award to Andrew Methven. Chairperson Baroni revised the guidelines for applications as per the request of Helen Smith and after consultation with the Executive Committee. The revision broadened the types of studies that could be conducted by awardees. Discussion took place as to whether receipt were needed by the Treasurer or whether this was considered an outright prize. Baroni will check with the auditor.

B. Baroni and incoming Secretary Kohn will explore with Allen Press the possibility of charging contributions to the Endowment Fund on a credit card. It was noted that there are now two senior research awards, the Martin-Baker and the Smith, and that two committees determine these awards. It was suggested that there be a stabilization and standardization of the committee that determines senior research awards.

C. The Awards Committee report was submitted by chair John Cooke. Awards were made as follows: Distinguished Mycologist, Salomon Barthnicki-Garcia and Robert L. Gilbertson; Alexopoulos Prize, Tom Bruns; Graduate Student Fellowships, David Geiser and Wendy Untereiner. The first Backus Graduate Research Award was given to Paul Gieser. Four MSA Graduate Research Prizes for poster presentations will be given at the end of IMC5. The committee recommended that the information published in Inoculum about the awardees, also be provided to other information sources such as the People and Places Section in Bioscience and Phytopathology News.

D. The IMC5 Travel Awards Committee, chaired by Bill Cibu- la, funded nine MSA Senior Travel Awards, nine named Student Mentor Travel Awards, and 13 additional awards to students including Sustaining Member Travel Awards, MSA Travel Awards,
and two Travel Awards from money donated by a member for that purpose.

15. The 1995 MSA meeting will be held in conjunction with AIBS in San Diego from 4-9 August at the Town and Country Convention Center. Rytas Vilgalys is program chair and Michael Allen is in charge of local arrangements.

16. President-Elect Rossmann made several suggestions for the location of the 1996 meeting and asked for further suggestions. Options include meeting with APS in Indianapolis, AIBS in Seattle, or the Ecological Society of America in Providence, Rhode Island. A subcommittee will look into these and other suggestions and make a decision in the near future. Elwin Stewart will be program chair.

17. The 1999 International Botanical Congress will be held in St. Louis. The MSA is an integrated participant. Past-President Blackwell indicated that the program is in preparation and strongly requested ideas for symposia. The Mycology Division of IJU will meet in Jerusalem in 1996 and IMA will meet in Jerusalem in 1998 for IMC6.

18. Biodiversity liaison Jean Lodge suggested that the MSA form a committee to work with Roy Watling and the BMS biodiversity committee to draft policy statements mutually agreeable to both Societies so that both groups can speak with one voice. Council endorsed this suggestion. Lodge and Rossmann will contact Watling. Rossmann will look into how "lobbying" is defined so that we are sure to protect our tax-exempt status which prohibits lobbying as a Society.

19. Amy Rossman, Representative to AIBS for Public Responsibility, reported that she provided input on the importance of fungi for the strategic plan to be developed by AIBS. She also reported that MSA was an Endorsing Society for the Microbial Biodiversity Briefing organized by AIBS, APS and ASM to brief government administrators on the importance of microbial diversity. She also reported that several persons instrumental in biodiversity policy making have recognized the importance of fungi.

20. ATCC Representative Rossmann reported that Frank Degan has been hired to oversee the maintenance and quality of the 26,000 fungal cultures maintained by ATCC.

21. ASC Representative Rossmann reported that ASC is moving ahead on biodiversity and systematic issues. As a result of many requests for information on the number, location, and expertise of systematic mycologists, Rossmann and President Petersen developed a questionnaire which was mailed with Mycologia 86(3). Additionally, ASC has requested development of a database of scientific names of all fungi in North America. In coming President Rossmann will appoint a committee to plan such a project.

22. Genetics Councilor Georgiana May reported that she is putting together a symposium entitled "Genetic Approaches to Mycology" for the 1995 San Diego meeting.

23. Diane Te Strake has been appointed AAAS Representative to replace outgoing representative John Taylor. It was suggested that a roster of MSA members that are also AAAS members would be useful.

24. A report from Jerry Motta, Representative to the AIBS Council, was received.

25. Representative to IMA Meredith Blackwell reported that the IMA Council will meet at IMCS and that the Society will be represented by at least 4 MSA members.

26. Roger Goos, Representative to IUMS, reported that $35,000 had been awarded in travel grants from NSF to assist young scientists in attending the IUMS meeting in Prague.

27. Michael Allen, Representative to NIE, reported that a bill has been introduced in Congress and that debate centers on whether the NIE should be independent, under NSF or under DOI.

28. Representative to the Conservation of Culture Resources Greg Mueller reported that the Society for the Preservation of Natural History Collections will be holding a meeting in June, 1995 at the Royal Ontario Museum entitled "Managing the Modern Herbarium." Mycological and botanical herbaria will be emphasized. Deborah Metsger is the contact person.

29. The Annual Lecture Committee chair Don Hemmes reported that the committee will meet in Vancouver to review nominations for the 1995 annual lecturer.

30. Lynne Sigler, chair of the Committee on Culture Collections, reported that the committee and the U.S. Federation of Culture Collections is sponsoring a joint symposium at IMCS entitled "Role of Culture Collections in Biotechnology." The proceedings will be published as Volume 3 of the series Advances in Culture Collections and will be edited by Sigler and Steve Peterson.

31. The names of three mycologists were forwarded to Council by the Committee on Honorary Members for approval as honorary members. All three, Drs. David Hawksworth, Brian Sutton, and Joseph Wessels, were unanimously approved and will be voted on by the membership at the annual business meeting.

32. Liz Farwell, chair of the Committee on Liaison with Amateur Mycological Societies and Clubs, reported that NAMA would like to sponsor a graduate student award to honor those deceased members of NAMA who have made important contributions to the development of amateur mycology in North America. NAMA would like to have this award administered by the MSA Awards Committee. Incoming President Rossmann will explain the logistics of administering this award with the committee. The Committee also reported that proposals for the development of fungus gardens have been made by various groups to the U.S. National Arboretum and the Chicago Botanic Garden.

33. Michael Dykstra, chair of the Medical Mycology Committee, reported that six symposia pertinent to medical mycology are scheduled for IMCS5.

34. David McLaughlin reported that memorials have been published for Edith Cash, O Neil "Ray" Collins, and Mildred Nobles, are in press for W.B. Cooke and Rene Pomerleau, and are in preparation for Ross Davidson, Bernard Lowy, Lauritz Olson, and Rolf Singer.

35. Chair of Phytopathology Committee Larry Dunkle reported that the APS Mycology Committee and the MSA Phytopathology Committee suggest that the MSA consider meeting with APS in the near future. The chair also helped organize a 1994 colloquium at the AP meeting entitled "Flagellated Plant Pathogens: Fungi in Exile?"

36. The MSA Placement Committee has been terminated based on the vote of the MSA membership.

37. Van Cotter, Chair of the Sustaining Membership Committee, reported three new MSA Sustaining Members for a current total of 31. Sustaining Members were invited to send a representative to the MSA breakfast/business meeting at the expense of the Society. This would allow MSA to express thanks and acknowledge our Sustaining Members. A number of Sustaining Member Student Travel Awards were given this year with money derived from Sustaining Member dues. The Committee and Council urge all MSA members to express appreciation to and support of all of our Sustaining Members.

38. John Clausz, Teaching Committee Chair, reported that John Taylor has been selected as the recipient of the 1995 Weston Award. The committee has sold a large number of kodachrome teaching slides and prepared a listing of readings on fungi that come from the popular press and magazines. The committee suggested that information on undergraduate and graduate courses in mycology offered in North America would be useful in order to respond to requests for such information.

39. Council approved the motion to pass the names of Drs. Grosklag and Sequiera to the membership for Emeritus status.

40. Secretary Palm noted that Ludmila Mavranova has sets of postcards commemorating Corda for sale to benefit the journal Czech Mycology.

41.Incoming President Rossmann would like suggestions for persons to appoint to MSA committees who will serve enthusiastically and energetically.
42. The meeting was adjourned at 3:29 p.m. by President Petersen. That must be a record!

Respectfully submitted,
Mary E. Palm, Secretary

Minutes, MSA Business Meeting
16 August 1994, Ponderosa Room
University of British Columbia, Vancouver

1. The meeting was called to order by President Petersen at 7:40 a.m.
2. President Petersen made a number of general announcements, introduced the persons sitting at the head table, and thanked various officers and members for their many efforts over the past year.
3. The 1993 Business Meeting Minutes that had been published in Inoculum 44(3) were approved.
4. Vice-President Pfister announced the results of the election.
5. Secretary Palm’s report was circulated.
6. Treasurer Baroni circulated his report and presented highlights from that report.
7. All new 1994 members were approved as were the two new emeritus members.
8. Drs. D. Hawksworth, B. Sutton, and J. Wessels were elected unanimously as honorary members.
9. President Petersen announced the recipients of the travel awards for IMC5.
10. Awards Chair John Cooke announced Dr. Tom Bruns as the recipient of the 1994 Alexopolous Prize. Graduate Fellowships were awarded to Wendy Untereiner and David Geiser. The Backus Award was presented to Paul Gieser.
11. Teaching Committee Chair John Clausz presented the Weston Award to Dr. John Taylor.
12. President Petersen presented the Distinguished Mycologist Awards to Drs. S. Bartnicki-Garcia and R. L. Gilbertson.
13. Because of the limited amount of time available for the business meeting the remainder of the reports usually presented at that meeting were omitted but will be published in the fall issue of Inoculum.
14. President Petersen introduced Amy Y. Rossman as the 1994-95 President.
15. The meeting was adjourned at 8:30 a.m. by President Rossman.

Respectfully submitted,
Mary E. Palm, Secretary

Officers’ Reports

SECRETARY’S REPORT
11 June 1993 - 10 August 1994

1. Prepared minutes of the 1993 Council meeting and Business meeting and sent them to Inoculum and Council members.
2. Sent list of 1993-1994 Council to AIBS, AAAS, NSF, NAS, and IUMS.
4. Composed announcement for travel awards to IMC5 for Newsletter.
5. Received letters of gratitude from the Inst. de Botanica de la Univ. de Guadalajara and from the Dept. Biol. Sci., Pontificia Univ. Catolica del Ecuador for receipt of Mycologia.
7. Mailed renewal forms and nomination ballot directly to members. The Emeritus, Sustaining and Associate categories were inadvertently omitted so revised renewal forms were sent to all members in those membership categories.
8. Sent request for agenda items and reports for the mid-year Executive Committee meeting to Council and others.
9. Held mid-year Executive Committee meeting in Beltsville, Maryland on Saturday, 26 February 1994. Minutes were taken and distributed to Council and placed on the MSA Bulletin Board, and will be printed in Inoculum.
10. Sent nominations for two IUMS Member-at-Large positions to IUMS Secretary General.
11. Mailed MSA Ballot, Endowment Fund contribution form, and request for auction items to members.
12. Mailed request for agenda items and reports for the annual Council meeting.
13. Sent letter of welcome, a copy of A Brief History of Mycology in North America (to North American members), and a 1992 Directory of Members to new MSA members.
14. Corresponded with various members and responded to inquiries via phone, mail and e-mail.
15. Corresponded with AIBS, ASC, IUMS, and AAAS.
16. Polled Council (all items passed):
   a) $10,000 to organizing committee of IMC5 with the agreement travel grants totaling the same amount would be given to individuals chosen by MSA
   b) $2500 from MSA Reserve fund for 5 Sustaining Member Student Travel Awards
   c) $500 for third Denison Student Travel Award
   d) Move Publications Fund from Endowment to General Operating Fund
   e) Abolish Placement Committee
   f) Endorse Biodiversity Briefing arranged by AIBS, APS, and ASM and support with $300
   I thank Martha Powell, Meredith Blackwell, and Ron Petersen, the MSA Presidents with whom I’ve served, and Treasurer Tim Baroni, for their communication, cooperation, enthusiasm and support. Serving as Secretary of the Society has been a rewarding experience. I also learned how the contributions of ALL Society members are essential to the health and effective functioning of MSA. I encourage even further action on the part of the membership in order to maintain the vitality of our Society and thereby promote the importance of mycology to the world in general. I look forward to working with Linda Kohn in making the transition to her tenure a smooth one.

Respectfully submitted,
Mary E. Palm, Secretary
Treasurer's Report
Fiscal Year 1993
1 August 1993 – 31 July 1994

Fiscal — The 1992 financial activities of the Society were filed with the IRS in December of 1993. The 1993 financial activities of the Society will be filed with the IRS in December of 1994. The information in this report has been audited by Mr. John O. Reagan, C.P.A., Cortland, NY. The final report and official audit are being prepared and will be published in the MSA Newsletter, the Inoculum, in the fall of 1994. The year end accountings of the current President, Secretary, Treasurer and Newsletter Editor must be reconciled before these reports are complete.

All official materials of the MSA have now been received from the former Treasurer (i.e., the Society's complete ledgers, the Society's Incorporation Stamp, all past IRS files, etc.). A chronological accounting of the receipt of MSA funds from the former Treasurer follows:

Transfers from the Colorado Accounts to the current Treasurer
15 September 1992 - from checking acct. $10,000.00
20 September 1992 - from CD acct. $102,038.00
14 October 1992 - from checking acct. $20,000.00
1 March 1993 - from checking acct. $7,000.00
13 July 1993 - from checking acct. $2,250.06
Total received from former Treasurer $141,288.06

New receipts and disbursements from 1 August 1993 to 31 July 1994 were as follows: Receipts of $109,975.25 and disbursements of $79,031.94 (see accompanying ledgers for details). Some of the figures may have to be changed before the final official report is filed.

The Society made an effort to provide extra support for student and regular membership travel to the IMCS meetings in Vancouver, British Columbia this year. In this regard, the Society offered $14,300.00 in Travel Awards on a competitive basis. A portion of these moneys were donated to the travel funds by Dr. Charles Bracker. His thoughtfulness and generosity is gratefully acknowledged. The funds contributed by our Sustaining Members played a major role, along with the Mentor Travel Funds and the Society's "Contingency Funds", in supporting student travel to these meetings.

As stated in last year's report, interest rates remain very low. None of our current accounts earn more than 4.00%, with the checking account earning as low as 1.75%. Nonetheless, the Society is in very sound financial condition with receipts plus interest exceeding disbursements.

Membership — On 31 July 1994, the Society membership consisted of 1216 members in the following categories: 846 regular members, 140 student members, 18 honorary members, 47 emeritus members receiving the journal, 47 emeritus members receiving only the Newsletter, 43 life members, 31 sustaining members, 31 associate members, 12 family members, and 1 affiliate member. The Society had a net increase of 76 members over the last year. Please continue to recruit new members as this activity is essential to the health of our Society.

Comments — Our new membership services group at Allen Press is doing a fine job from my perspective. I am anxious to receive comments about this service from our membership, whether these comments are positive or negative. We truly wish to provide the best possible service to our membership, and we need your input. I would be pleased to share your comments with the MSA Council at our annual meetings, so please feel free to send me your input.

The Mycological Society of America is a Section 170(c) Organization of the IRS Code of 1954, and is listed in the official IRS publication List of Organizations (Department of Treasury, IRS Publication 78, Rev. 10-91). Contributions to the MSA are deductible for most individuals. Consult a tax specialist if you have any questions (please do not call me) or if you are considering donating a large sum to the Society.

As always, please feel free to contact me if you are experiencing any difficulty receiving Mycologia or the newsletter. I will gladly make every effort to help correct any problems or inconsistencies with the handling of your membership.

Financial Summary - Fiscal Year 1993
1 August 1993 – 31 July 1994

Balances as of 31 July 1993

Cortland Accounts
Checking Account (Citizen's Savings Bank acct. #82047101) $52,986.43
Savings Account (CD Cortland Savings Bank acct. #65-46692) $106,279.93
Savings Account (CD Citizen's Savings Bank acct. #820471-20) $50,666.08

Maryland Accounts
Savings Account (M. Palm - Credit Union) $368.83

Total Fund Balances (31 July 1993) $210,301.27

Receipts
Membership dues $63,696.66
Sustaining Members $8,030.00
Interest on checking & savings accts. $7,063.15
T-shirt sales - 1993 $517.76
Teaching slides - 1993-1994 $163.11
Brief History of Mycology $126.00
Mycology Guidebook $60.40
Revenues - 1993 Meetings at UGA $2,273.31
Reimbursed seed money IMCS - Venue West $10,000.00
Reimbursed residual funds - Society Brochure $164.86
Sales of Mycologia Index $850.00
Sales of Mailing Labels - Allen Press $525.00
Contribution - IMCS Travel Funds $500.00
Smith Fund $25.00
Contribution to Endowment - 1993-1994 $15,530.00

Total for 1993-1994 $109,975.25

Disbursements
Mycologia (Vol.85, 1993) subscriptions and other fees $20,217.50
Bad checks (Citizen's Savings) $75.00
Mid-year Executive Council meeting $1,459.75
Annual Incorporation fee (Washington, DC) $25.00
Mailing labels from NYBG $400.00
Seed money loan IMCS - Venue West $10,000.00
Univ. Minn. - PS2 computer: Editor $2,539.00
Univ. Minn. - computer set up $241.53
Univ. Minn. - computer consulting $163.48
Treasurer expenses IMCS $883.06
President's expenses $109.33
Secretary's expenses (allocation) $2,000.00
Newsletter Editor expenses (allocation) $10,000.00
Treasurer's expenses $458.07
Amer. Soc. Micro. - biodiversity briefing $500.00
Allen Press - back issues $10.00
Allen Press - membership services $7,449.92
Smith Fund Awards for 1993 and 1994 $900.00
J. Wright (1993) $840.30
A. Methven (1994) $900.00
Dues to other Societies
ABS $360.00
International Mycological Association $400.00
Association of Systematics Collections $100.00

Meeting expenses for IMC5 meeting.
Aug. 1994 (in part)
MSA IMCS Travel Awards $10,000.00
Mentor Travel Awards $1,300.00
Sustaining Membership Travel Awards $2,500.00
Additional Travel Awards (Bracker) $500.00
T-shirt expenses $2,100.00
Graduate Fellowships $2,000.00
Research Awards $1,500.00

TOTAL FOR 1993-1994 $79,031.94

ITEMIZATION OF FUNDS

Operational Funds (includes part of checking CD accounts)


1. "Contingency Fund" (Unrestricted)
Balance, 1 August 1993 $27,685.34
RECEIPTS $18,933.87
DISBURSEMENTS $10,050.00
Bracker ($500)
IMCS Travel ($10,000)
NET $36,569.21
Balance, 31 July 1994 $36,569.21

2. Reserve Funds (Unrestricted)
Balance, 1 August 1993* $63,166.38
RECEIPTS:
Sustaining Member Dues $8,030.00
TOTAL $71,196.38
DISBURSEMENTS:
(Travel, fellowships, awards) $4,500.00
NET $66,696.38
INTEREST $2,048.27
Balance, 31 July 1994 $68,744.65

3. Life Membership Fund (Unrestricted)
Balance, 1 August 1993* $18,323.21
RECEIPTS $1,000.00
DISBURSEMENTS $0.00
NET $19,323.21
INTEREST $706.30
Balance, 31 July 1994 $20,029.51

4. Publication Fund (Unrestricted)
Balance, 1 August 1993* $22,994.97
RECEIPTS:
Myc. Guide Book $60.40
Brief Hist. Myc. $126.00
Mycologia Index $850.00
DISBURSEMENTS $0.00
NET $24,031.37
INTEREST $918.19
Balance, 31 July 1994 $24,949.56

Endowment Funds

1. Memorial Fund (Restricted)
Balance, 1 August 1993* $2,820.11
RECEIPTS $0.00
DISBURSEMENTS $0.00

2. General Fund (Restricted)
Balance, 1 August 1993* $19,794.26
RECEIPTS:
T-shirts (1993) $517.00
Teaching slides (1994) $163.11
DISBURSEMENTS:
T-shirt production (1994) $2,100.00
NET $18,374.37
INTEREST $776.93
Balance, 31 July 1994 $19,151.30

3. Alexopoulos Fund (Restricted)
Balance, 1 August 1993* $8,999.83
RECEIPTS:
1994 (T. Bruns) $350.00
NET $8,649.83
INTEREST $494.41
Balance, 31 July 1994 $9,144.24

4. Smith Fund (Restricted)
Balance, 1 August 1993* $17,192.89
RECEIPTS $25.00
DISBURSEMENTS:
1993 (L. Wright) $900.00
1994 (A. Methven) $840.30
NET $15,477.59
INTEREST $706.30
Balance, 31 July 1994 $16,183.89

5. Travel Funds
C. J. Alexopoulos (est. 1992)
Bal. 1 Aug. 1993 $500.00
RECEIPTS $720.00
DISBURSEMENTS (S. Harney) $100.00
NET $1,120.00
INTEREST $70.63
Balance, 31 July 1994 $1,190.63

H. E. Bigelow (est. 1992)
Bal. 1 Aug. 1993 $4,075.00
RECEIPTS $1,175.00
DISBURSEMENTS $200.00
(L. Law; P. Leacock)
NET $5,050.00
INTEREST $141.26
Balance, 31 July 1994 $5,191.26

E. S. Luttrell (est. 1992)
Bal. 1 Aug. 1993 $1,950.00
RECEIPTS $1,300.00
DISBURSEMENTS (J. Shields) $100.00
NET $2,100.00
INTEREST $70.63
Balance, 31 July 1994 $2,170.63

E. E. Butler (est. 1992)
Bal. 1 Aug. 1993 $1,189.28
RECEIPTS $575.00
DISBURSEMENTS (E. Frieders) $100.00
NET $1,664.28
INTEREST $70.63
Balance, 31 July 1994 $1,734.91

W. C. Denison (est. 1992)
Bal. 1 Aug. 1993 $1,300.00
RECEIPTS $3,435.00
DISBURSEMENTS $200.00
(K. Zeller; H. Lu)
(L. Castlebury "cont. fund")
NET $4,535.00
FINANCIAL SUMMARY OF MSA ASSETS

Certificates of deposit in Cortland Accounts
  Cortland Savings CD #65-46692: closed (matured) 3-24-94 $109,499.36
  Citizen's Savings CD #82047120: closed (matured) 3-24-94 $51,865.20
  Cortland Savings CD #60-47883: opened 3-24-94 (incl. int. to 6-30-94) $62,080.05
  Citizen's Savings CD #82047121: opened 3-24-94 (incl. int. to 6-30-94) $100,941.81

Checking account, Cortland Accounts
  Citizen's Savings Acct. #82047101 $54,985.25
  Douglas County Bank Acct. #027944 $22,931.12

Savings account, Maryland Accounts $368.83

TOTAL ASSETS IN ACCOUNTS, 31 July 1994 $241,307.06

Total assets as of 1 August 1993 $210,301.27

Net Change in Assets $31,005.79

Respectfully submitted,
Timothy J. Baroni, Treasurer

MSA Publications

Mycologia, Editor-in-Chief
1 August 1993 – 31 July 1994


I. Manuscripts:
   Number carried over from 1991-92 91
   Number received 182
   Total: 278
   Accepted or published 136
   Rejected 38
   Withdrawn 5
   On hand, pending final action (in review process or under revision by author) 99
   Total: 278

Volume 86: Numbers 1-3 published: Nos. 4, 5 in press; No. 6 manuscripts on hand for a partial issue.

II. Editorial Board.
   The Editorial Board will shrink in size from 15 to 5 members over the next 5 years, thus only a single candidate is being forwarded to Council for approval.

   Terms of 3 members, Martha Christensen, Cletus P. Kurtzman, and Rytas J. Vilgalys, expire at the end of this calendar year. The Editorial Board was polled for names of replacements and an election held. D. Jean Lodge is nominated to serve a 5 year term on the Editorial Advisory Committee and has agreed to serve if confirmed by Council.

III. Associate Editor System.
   The Associate Editor System was begun in October. From September through November nine Associate Editors were appointed after approval by Council. The policy of accepting or rejecting manuscripts was submitted for approval by Council. Each Associate Editor was sent hard copies and computer files of form letters along with a computer file containing names and addresses of reviewers in selected subject areas. All manuscripts are now being handled for review through revision by the Associate Editors.

IV. Journal Modernization.
   The final models for the redesign of the journal were submitted by R. Humber and approved by the Scientific Publications Office in January. The first issue in the new format appeared in April.

V. Editorial Office.
   The new computer and new journal management software have been installed and are fully operational.

David J. McLaughlin, Editor-in-Chief

Mycologia, Managing Editor

Publishing Activity
During NYBG FY 1994, Mycologia was published as issue nos.: 85(4) — August 18, 1993
85(5) — October 29, 1993
85(6) — January 27, 1994
86(1) — March 25, 1994
86(2) — May 2, 1994
86(3) — **

Circulation
The circulation records for NYBG FY 1994 are as follows:
We anticipate that some costs will go up during the next fiscal year. A postage increase and higher prices from Allen Press are expected in January 1995, as well as some salary adjustments. A comparison of costs of producing Mycologia in the old format vs. the new format will await production of six issues so that there is a realistic yearly comparison. Final numbers for Fiscal Year 1994-95 are not available yet, but as of May 1994, income was greater than expenditures. The budget for Fiscal Year 1994-95 was recently submitted for review and approval. It takes into account the anticipated increases in costs.

Roy E. Halling, Managing Editor

Inoculum - MSA Newsletter

Much of the behind-the-scenes efforts of the editor’s effort with the newsletter through the last year have been aimed at the streamlined operation and to try to determine how Inoculum should best be positioned for the near-term future in view of the upcoming change in editors and the increasing dependence of the MSA membership on the use of electronic networks for the exchange of information.

As of the time of preparing this report, the value of the on-line experiment with on-line presentation of a newsletter, Inoculum 45(11), in an electronic format via the MSA Bulletin Board remains unevaluated. The editor received no written, telephonic, or electronic comments of any sort regarding this service, and Don Pfister, as the keeper of the Bulletin Board, had not monitored the usage of the newsletter files on the Bulletin Board. Whether or not this electronic experiment proved to be successful, the preparation of both electronic and hard-copy versions of Inoculum does mean the preparation of two separately formatted versions of the newsletter and a substantial increase in the overall time required to put out the issue. The way that information is received and processed for the newsletter does not necessarily make it any simpler to prepare an unformatted version of the newsletter content before working on the formatted hard-copy with page layout software. The content of the newsletter is, in part, necessarily driven by the physical layout and space available in the hard-copy version; to this extent, the hard-copy version must be prepared before a text-based electronic version.

Discussion with Dick Korf in the wake of his letter regarding the role and form of Inoculum has provided valuable perspectives both to the current editor, and, I trust, to the officers of the MSA and, eventually, to the future editor. I support the continued dependence on the printed form as the official format for Inoculum, while recognizing the value of an electronic version (despite the additional work entailed in the preparation of two different forms of the contents). There is much that might be gained by shifting of the major responsibility for the printing and distribution of the newsletter to Allen Press. The transfer of major membership service functions from the Secretary and Treasurer to Allen Press has had a mixed benefit for the newsletter by making it easier to transfer changes in directory information but the accumulation of directory information for new members has been much more sluggish than it was when both the Secretary and Treasurer were providing this information for the newsletter.

Submissions of material from the membership seem to be tapering off from what they were in the earliest editions of the newsletter in its current format. Over the last several months, the newsletter has drawn many of its items from the MSA bulletin board (especially items on on-line mycology, meeting notices, and job offerings).

Efforts to obtain permission to reprint a couple of items (on George Hudler’s remarkable course on fungi given to more than 200 Cornell undergraduates each time it is given, and on the mentoring of female students) that appeared in newsletters of the American Phytopathology Society have met with silence from that society; I will continue to seek permission to reprint these items since I am confident that both of them would be of considerable interest to the MSA membership. A constant source of information for whose reprinting has not presented problems is from the Association of Systematics Collections regarding the National Biological Survey and various biodiversity issues; I am particularly grateful to both Elaine Hoagland of the ASC and to Amy Rossman as the MSA Liaison for Public Affairs and, arguably, the most active and effective mycologist in the executive levels of the biodiversity efforts in the US.

The provision of courtesy copies of Inoculum to the Association for Systematics Collections and to Dr. James Rodman (NSF’s liaison to the MSA) appears to be a worthwhile effort. There is no doubt of the value of the mutual exchange of newsletters between the MSA and ASC; there has been little communication with the MSA by Dr. Rodman despite a standing invitation to him to submit information to the membership through the newsletter and officers.

I would like to take this opportunity to thank President Peter- sen and the other members of the Council for their cooperation, concern, guidance, and support during my tenure as the editor of the newsletter. I look forward to cooperating fully with the incoming editor to make the transition as seamless as possible.

Inoculum Expenses and Assets

1 June 1993 — 10 August 1994

Balance of Inoculum assets, 1 June 1993 $ 4214.90

EXPENSES

Inoculum 44(2)
Addressing & Mailing (late billing) $ 796.50
Inoculum 44(3); 50 pp; 1250 copies 2101.64
Media Services 903.06
Addressing & Mailing
Inoculum 44(4); 28 pp; 1250 copies — 25 —
funding level: Since these awards are designated Travel Awards, distance the applicant was from Vancouver was a factor. With

Other items:
- Submit this report on the awards granted from the applications
- The mode of presentation, i.e., oral versus poster. Where possible, an assessment of the study being reported.

Richard A. Humber, Editor

Mycologia Memoirs Committee

The committee has received one letter requesting information regarding the process used to evaluate potential manuscripts for publication. The requested information was given to the individual.

MSA Committees

Ad hoc Travel Awards Committee

As chair of the MSA Travel Awards committee I respectfully submit this report on the awards granted from the applications received. I am indebted to my other committee members, Drs. Steve Stephenson and Bob Gessner. The final awards are the result of discussions on the criteria of ratings to be applied to each applicant.

A total of $14,300 was available - $10,000 MSA IMC5 money, $1,300 from the Mentor Fund (Endowment), $500 donation from Dr C. Bracker, and $2,500 from Sustaining Membership Reserve Fund.

The following criteria were used in arriving at a decision for a funding level: Since these awards are designated Travel Awards, distance the applicant was from Vancouver was a factor. With student applications, the relative position in terms of time from completion of the Ph.D. The mode of presentation, i.e., oral versus poster. Where possible, an assessment of the study being reported.

[See next page for a listing of award recipients.]

Bill Cibula, Chair

Awards Committee

The official call for applications and nominations for the Graduate Research Fellowships, the Alexopoulos Prize and the Distinguished Mycologist Award were published in the December 1993 issue of Inoculum [44(4): 17-18]. Included were revisions passed by by Council (1993) on the nominations for the Distinguished Mycologist Award and the Alexopoulos Prize. During April, the committee made the following awards: Distinguished Mycologist – Salomón Barriwick-García and Robert Lee Gilbertson; Alexopoulos Prize – Thomas D. Bruns; Graduate Student Fellowships – David M. Geiser and Wendy A. Untereiner. President Ron Petersen wrote congratulatory letters to the award recipients. The committee members involved in determining the award recipients were Linda Kohn, Rodney Roberts, Dennis Desjardin and John Cooke (Chair).

Four MSA Graduate Research Prizes for poster presentations will be awarded during the 1994 meetings in Vancouver.

Some members of the committee felt that in addition to having information about award recipients published in the newsletter,

Michael R. McGinnis, Chair

Publications Committee

In this year, the Publications Committee has dealt with a number of issues and has defined a couple of projects for the coming year.

1. With the aid of the Executive Committee, the issue of a new Mycological Guidebook has been laid to rest. There will be no new Mycological Guidebook project initiated for the foreseeable future.

2. On the subject of #1, the old Guidebook is still listed in Books-in-Print and copies are still available. Jean has volunteered to write to the University of Washington to confirm availability of the books and details for purchase. Jean will also distribute the information to the appropriate newsletters.

3. The use of CD-ROM in publishing is a very current topic and Keith is currently gathering information on CD-ROM production for a brief to be submitted to Council in 1994-95.

4. Ron Petersen brought up the topic of abstracts when the MSA meets on its own. Currently, these abstracts are published in Inoculum. The question here seems to be, in part, one of the cost of mailing, timeliness and the additional workload placed on editors and assistants of Inoculum. It has been suggested that the abstracts might be published in Mycologia but, getting this out in time could be more of a problem than Inoculum.

When Chris discussed this topic separately with Jean and Keith, he came away with the impression that abstracts are viewed as advance information to assist conference attendees in selecting the talks they wish to go to especially when multiple sessions are being offered (this is certainly his view). Abstracts are not seen as publications to be referenced. In many instances (i.e. other societies) abstracts are only provided to conference attendees. This subject will be considered further by the Committee.

Chris Lucarotti, Chair
that the information for the newsletter should also be given to
the MSA AIBS representative for inclusion in BioScience (People
& Places section). This would be additional recognition for
awardees and help promote MSA recognition amongst other bio-
logists. If this seems appropriate to Council, the above bold type
is given as a motion for inclusion in procedural manual.

John C. Cooke, Chair

A.H. & H.V. Smith Research Fund
Awards Committee

The recipient of the 1994 Smith Research Fund Award is Dr.
Andrew S. Methven. Dr. Methven is working on various projects
involving floristic and monographic treatments of the genus
Lactarius made by Dr. A.H. Smith and associates which are
deposited at the University of Michigan Herbarium. These mor-
phological studies are intended to help clarify species concepts so
that manuscripts on this genus for California, Illinois and eventually Costa Rica can be published.

Timothy J. Baroni, Chair

Teaching Committee

1. The Committee evaluated candidates for the William H.
Weston Award for Teaching Excellence in Mycology. Dr. John
Taylor has been selected as this year’s recipient. The award will
be presented at the MSA annual meeting in Vancouver, B.C.

2. The Committee is maintaining the teaching slide collection.
We received 4 requests for slides selling 554 slides. An ac-
counting for costs and receipts follows. Given the cost of having
the slides prepared professionally, $0.64/slide, the society might
consider the purchase of a slide copier attachment that mounts
right onto a camera. I’ve priced this apparatus locally at $110.
Assuming student assistant funds at the chairperson’s university
would pay for the time involved, within one year the attachmen
would have paid for itself. Of course there is the processing costs for the duplicated slides.

I am exploring the possibility of having the slides digitized using equipment that is available at a nearby campus. We would provide them with a complete set of digitized slides providing they allow us to use their equipment free of charge and agree not to sell or give away digitized copies we provide them.

3. We received 6 requests for the Careers in Mycology, sending 20 copies. We currently have 20 copies left. We also received one request for the paper version of the Mycology Test Bank. The reorganization of the electronic version of the Test Bank project is still waiting to be done.

4. The committee prepared a bibliographic listing of readings in fungi that come from the popular press and magazines. This listing titled Popular Mycological Articles Appropriate for Teaching was presented at the Georgia meeting last year. No new submissions have been received.

5. We received two requests from high school students requesting information about where to go for a degree pertaining to the study of the fungi. I responded as best I could. I think we could respond in a more informative way if we surveyed the society members about courses available, emphasis of programs and other information about undergraduate and graduate programs with an emphasis in mycology. Perhaps a future committee should undertake this delicate project.

6. An accounting of funds received and spent by the committee:

**Receipts**

<table>
<thead>
<tr>
<th>Item</th>
<th>From</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purchase, 71 slides</td>
<td>Southern Univ.</td>
<td>$71.00</td>
</tr>
<tr>
<td>Purchase, 221 slides</td>
<td>Stephen F. Austin State Univ.</td>
<td>$221.00</td>
</tr>
<tr>
<td>Purchase, 51 slides</td>
<td>University Hospital, Cleveland</td>
<td>$51.00</td>
</tr>
<tr>
<td>Purchase, 210 slides</td>
<td>Clemson Univ.</td>
<td>$210.00</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td></td>
<td><strong>$554.00</strong></td>
</tr>
</tbody>
</table>

**Expenses**

<table>
<thead>
<tr>
<th>Item</th>
<th>To/Date</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slide Copying/holders</td>
<td>Arts Camera Plus (9/18/93)</td>
<td>$128.19</td>
</tr>
<tr>
<td>Slide Copying/holders</td>
<td>Arts Camera Plus (10/6/93)</td>
<td>$43.06</td>
</tr>
<tr>
<td>Slide Copying/holders</td>
<td>Arts Camera Plus (6/6/94)</td>
<td>$128.19</td>
</tr>
<tr>
<td>Mail Slides</td>
<td>Carroll College (9/17/93)</td>
<td>$2.69</td>
</tr>
<tr>
<td>Mail Slides</td>
<td>Carroll College (1/28/94)</td>
<td>$1.67</td>
</tr>
<tr>
<td>Mail Weston Award Mat.</td>
<td>Carroll College (6/22/94)</td>
<td>$4.60</td>
</tr>
<tr>
<td>Weston Award Plaque</td>
<td>Geiser Award (7/18/94)</td>
<td>$50.64</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td></td>
<td><strong>$190.89</strong></td>
</tr>
</tbody>
</table>

**BALANCE** (Check sent to MSA treasurer) $163.11

John Clausz, Chair

**Committee on Culture Collections**

In taking up the suggestion of the outgoing chair, Dr. Gary Samuels, to develop collaboration between the MSA Culture Collection Committee and the U.S. Federation of Culture Collections, the main activity of the committee this year has been the development of a symposium, jointly supported by the two societies. The symposium, to be presented at IMC5 is entitled "Role of Culture Collections in Biotechnology" and will be offered on Saturday, August 20 from 4-6:30 p.m. Steve Peterson, who is currently serving also as President of the USFCC came forward with the idea of the symposium and the USFCC will publish the proceedings as Volume 3 of the series Advances in Culture Collections. Steve and I will serve as editors for this publication. The speakers represent collections both in industry and in government and their presentations should foster a positive awareness and appreciation of the multifaceted work of modern collections.

Lynn Sigler, Chair

**Phytopathology Committee**

In accord with the established responsibilities of the Phytopathology Committee, the Chair of this committee served as a liaison to the APS as a member of the APS Mycology Committee. Through membership on that committee, the chair suggested and helped organize a colloquium on "Flagellated Plant Pathogens: Fungi in Exile!" for the 1994 national meeting of APS. The session was well attended, and the organizers and speakers received positive comments from those who attended.

At the APS meeting, members of the Mycology Committee voted unanimously to request that MSA meet on a regular basis with APS. The frequency was not determined. However, every three years (or more frequently if convenient) would be advantageous for members of both societies to learn more about (or keep abreast of) the approaches, progress, and problems of mutual concern and to promote communication among investigators. The last joint meeting of the two societies - Portland in 1992 - was extremely beneficial. A topic suggested by the APS Mycology Committee for co-sponsorship was "Taxonomy of Penicillium (and Aspergillus)" because of the mutual interest among members of the two societies.

Thus, the Phytopathology Committee of MSA and the Mycology Committee of APS suggest that the MSA consider meeting together at the next available meeting date (1996).

Larry Dunkle, Chair

**Medical Mycology Committee**

Medical mycology will be well-represented at IMC5, with 6 symposia that are pertinent. There will be symposia on antifungal, fungal pathogenesis and the role of fungal molecules in this process, pathogenicity genes in fungi, signals between hosts and fungal parasites, and fungi and environmental health. These symposia should lay a healthy foundation for further presentations on and interest in matters pertaining to medical mycology at future MSA meetings.

Michael Dykstra, Chair

**Placement Committee**

During the past twelve months, three individuals filed "Employee Data Forms" and a curriculum with the chair of the Committee on Placement. Currently seven individuals have "Employee Data Forms" and curriculum vitae on file with the committee. During this period, three potential employers and one graduate program contacted the chair of the committee regarding job opportunities for a mycologist or funding for M.S. and Ph.D. students. Each of the individuals with a vita on file was notified of the opportunities by mail. None of the job opportunities were advertised in the Inoculum due to the short period of time available to fill the position and the publication schedule of the newsletter.

At the mid-year meeting, the MSA Executive Committee voted to eliminate the Placement Committee (as did the membership on the spring ballot). This decision was based on the small number of mycologists who utilized the service during the past two years (sven) as well as the lack of prospective employers who knew of the committee and exploited the database files. The fact that many employment listings and fellowship/post-doctoral opportunities are more readily accessible through the MSA and APS Bulletin Bards, as well as a number of other on-line services, the need to maintain the Placement Committee was considered to be superfluous.

Andy Methven, Chair
Committee on Liaison with Amateur Mycological Societies and Clubs

Ken Cochrane, Executive Secretary of the North American Mycological Association (NAMA), notified this committee of a new NAMA scholarship, to be administered by the MSA Awards Committee. It was established "to honor deceased members of NAMA who have made important contributions to the development of amateur mycology in North America," the first to be awarded in memory of Dr. Sam Mitchel. It is noted here not only as a very welcome gift, but as bearing witness that MSA's liaison with NAMA is indeed a two-way street. Our hat is tipped to Dr. Bryce Kendrick for legislating the proposal for this scholarship through NAMA.

The proposal of the Mycological Association of Washington, D.C. to the U.S. National Arboretum for the establishment of a fungus garden based on the model of that at the Royal Botanic Garden, Edinburgh (Dr. Roy Watling), was brought to the attention of this chair by Dr. Amy Rossman. The Chicago Botanic Garden has been approached with a similar, but not identical, plan for introducing the public in general and especially the young people in the education classes at the Garden to the importance of fungi.

Elizabeth O. Farwell, Chair

Genetics Councilor

As the newly elected Genetics councilor, I am putting together a symposium to be held at the 1995 meeting in San Diego, "Genetic Approaches to Mycology". Recognizing that the strength of MSA lies in organismal biology, the symposium will aim to demonstrate the use of genetic methods to better understand systematics, ecology and evolution of fungi. I plan to invite speakers who both excel in their fields and can explain their methods to a diverse audience. Topics will probably include chromosome structure and variation, population genetics, evolution of mating systems, and biogeography.

Georgiana May, MSA Councilor – Genetics

Election Results

There were 361 ballots received by Vice-President Donald Pfister. The results of the 1994 election are as follows: Vice-President, James H. Ginns; Secretary, Linda M. Kohn; Councilor for Cell Biology/Physiology, Faye Murrin; Councilor for Ecology/Pathology, Tom Harrington; Councilor for Genetics/Molecular Biology, Karen Nakasone; and Councilor for Systematics/Evolution, Keith Seifert. All three by-laws were approved: 1) elimination of the MSA Placement Committee, 2) changing the name of the Memorial Fund to Mentor Fund, and 3) moving the publications fund from the endowment (restricted) to the general operating (unrestricted) fund. The committee was composed of MSA members Jean Cargill, Samuel Hammer, David Hibbett and Donald Pfister, Vice-President.

Donald Pfister, Vice-President

Committee on Honorary Members

The Honorary Member Committee of MSA has reviewed nominations for the following three mycologists and recommend that they be placed on the next MSA ballot for election as honorary members: 1) Dr. David L. Hawksworth, Director, IMI; 2) Dr. Brian C. Sutton, Mycologist, IMI; 3) Dr. J. G. H. Wessels, Univ. of Groningen. These outstanding mycologists have authored or co-authored hundreds of publications that have greatly advanced our knowledge of fungi. All are unquestionably international leaders in our profession. In recognition of their achievements, we strongly recommend they be placed on the ballot for election as honorary members.

Bob Gilbertson, Chair

Annual Lecturer Committee

We have lined-up Bob Metzenberg for the Annual Lecture. He will talk about mating in filamentous fungi. Most of his work concerns pseudohomothallism in Neurospora species. He is very good at speaking to a broad audience and has done so for the British Mycological Society as a special lecturer. He also has an excellent sense of humor and keeps his audience entertained. He is in the Department of Biomolecular Chemistry at the University of Wisconsin.

Thomas Harrington, Chair

The MSA Campaign for Endowment Contributions was very successful last year!

The MSA thanks you sincerely, but thank yourself, too.

Please, keep helping the Endowment to grow.

It comes back to you through the support of more members for travel, fellowships, etc.

Please contact George Carroll, Chair of the Endowment Committee, with questions or any further contributions.
Representative to AAAS

I was unable to attend the San Francisco meeting, but Dr. Kathy LoBuglio attended. The main topic was science education, as might be expected from the interests of both Bruce Alberts and Francisco Ayala. Section Q (Education) is looking for cooperation from section G (Biology).

Regarding Fellows of AAAS, I have located three MSA members who are fellows, and could nominate more. I have had a harder time locating distinguished mycologists who are members of AAAS. Would you ask the council to recommend that members inform the MSA of their membership in AAAS at the time of their annual registration?

John W. Taylor, Representative

Representative to AIBS

There has been no formal Council activity and only minimal communication from AIBS during the past 18 months. As you may be aware, Charles Chambers, Executive Director for AIBS has left that position and it is my understanding that the Society is undergoing a reevaluation of its mission. Dr. Clifford Gabriel has been hired as the new Executive Director. The annual meeting of the Council has been moved from March to November of this year, thus I can give you no indication of what new directions, if any, IBS might be considering.

Jerry Motta, Representative

Representative to U.S. National Committee for IUMS

The annual meeting of the Committee was held on 14 January 1994 in Washington D.C. It was noted that the American Society of Microbiology has been awarded $35,000 in travel grants from the National Science Foundation for the purpose of assisting young scientists to attend the IUMS Congresses to be held in Prague from July 3-8, 1994. Members of the MSA are eligible for these awards, which will each be approximately $1000. Transport of pathogens in domestic and foreign shipments was also discussed.

Roger Goos, Representative

Liaison for Biodiversity

The chair of the British Mycological Society, Dr. Roy Watling, proposes that the BMS join the MSA in speaking with a single voice for fungal biodiversity. As I cannot speak for the MSA in my role as a liaison, I move that the MSA form a committee to meet with Dr. Watling and others of the BMS biodiversity committee to draft a statement on fungal biodiversity that is mutually agreeable to both Societies.

D. Jean Lodge, Chair

Representative for Public Responsibility

The new executive director of AIBS, Dr. Clifford Gabriel, wrote requesting ideas and input for the strategic plan being developed by the officers of AIBS. I wrote a letter in response about the importance of several research initiatives that include the study of fungi. Cliff assisted members of the American Phytopathology Society and American Society for Microbiology in organizing a briefing to government administrators on the importance of microbial biodiversity entitled "Microbial Biodiversity Briefing. The Underpinning of Ecosystem Global Wellness and Economic Prosperity." The briefing included several outstanding presentations and was well worth the minor expenses incurred by the Society.

Amy Rossman, Representative

Representative to the American Type Culture Collection

The Mycology and Botany Department of the ATCC hired a new mycologist, Dr. Frank Dugan, to replace Elmer Davis who retired at the end of March. Knowing that this was a challenging position, the selection committee at the ATCC was pleased with the quality of the candidates in mycology. Working under the leadership of Dr. S.-C. Jong, Dr. Dugan is responsible for the 26,000 fungal cultures maintained by the ATCC. Following the purchase of a building adjacent to the other facilities, the relocation of the ATCC has been postponed for about five years.

Amy Rossmam, Representative

Representative to the Association of Systematics Collections

The ASC negotiated a Memorandum of Understanding with the National Biological Survey (NBS) in late March and is working with NBS administrators to develop mutually beneficial programs. The ASC in addition to NBS and All Taxa Biodiversity Inventory research initiative, requested detailed information on the number of systematic mycologists. As a result a questionnaire was developed with Ron Petersen and mailed to MSA members in the May-June issue of Mycologia.

Amy Rossman, Representative

Didn’t Get to IMC5??

You Can Still Grab Some of the Fun!

Order Your Own Classic 1994 MSA T-Shirts and Tote Bag!

See details on p. 2
A CHALLENGE to the MSA Membership!

Meredith Blackwell has made a contribution to the Alexopoulos Travel Fund of the MSA Endowment Fund and challenges all the many others that have been influenced by C. J. Alexopoulos to contribute as well. $100 would match her contribution. This money provides meeting travel funds for graduate students.

News from the MSA Membership

New or Changed Directory Information

Addresses, Phones, Faxes:

Please send any changes in your address, phone, fax, and electronic mail address to Karen Hickey at the Allen Press (see below). Outdated information in the MSA mailing list is both costly to the MSA and means that you may not get Society mailings in a timely manner.

Beneke, Everett S. — 120 Georgetown Dr., Safety Harbor, FL 34695.
Brayford, David — International Mycological Institute, Bakeham Lane, Egham, Surrey TW20 9TY, UK. Phone: 784-470-111; fax: 784-470-909.
Cooper, Chester R., Jr. — Dept. of Pathology, Univ. of Texas Medical Branch, 301 University Blvd., Galveston, TX 77555-0609. Phone: 409-772-2856; fax: 409-772-2500.
Chen, Alice — fax: 716-381-0804 (Attn: Dr. Alice W. Chen)
Gordon, Scott A. — Dept. of Biology, Univ. of Southern Indiana, 8600 University Boulevard, Evansville, IN 47712. Phone: 812-465-7137.
Hospenthal, Duane R. — 121 General Hospital, Box 489, APO AP 96205-0017
Hutchison, Leonard J. — Dept. of Environmental Biology, Univ. of Guelph, Guelph, Ontario, Canada N1G 2W1. Phone: 519-824-4120, ext. 4372; fax 519-837-0442.
Keller, Harold W. — Office of Basic Science and Research, University of North Texas Health Science Center, 3500 Camp Bowie Boulevard, Fort Worth, Texas 76107-2699. Phone: 817-735-2618; fax: 817-735-5485. [Dr. Keller prefers communications to here rather than his home address listed in the last MSA Directory]
Kendrick, W. Bryce — Mycologue, 8727 Lochside Drive, Sidney, BC V8L 1M8, Canada.
Li, De-Wei — Dept. of Environmental Biology, Univ. of Guelph, Guelph, Ontario N1G 2W1, Canada. Phone: 519-824-4120, ext. 4373; fax: 519-837-0442.
Margot, P. — Institut de Police Scientifique et de Criminologie, UNIL-BCH, 1015 Lausanne-Dorigny, Switzerland. Phone: (+41) 21 692 46 00; fax: (+41) 21 692 46 05.
McGinnis, Michael R. — Dept. of Pathology, Univ. of Texas Medical Branch, 301 University Blvd., Galveston, TX 77555-0609. Phone: 409-772-2856; fax: 409-772-2500.
Petrini, Orlando — Téra d’Sottis, CH-6949 Comano, Switzerland
Powell, Martha J. — Dept. of Biology, James Madison University, Harrisonburg, VA 22807. Phone: 703-568-6225; fax: 703-568-3333.
Upadhyay, H.P. — 11232 Morning Creek Drive, San Diego, CA 92129. Phone 619-486-9657.
Zhao, Jiong — Dept. of Microbiology, Univ. of Stellenbosch, Stellenbosch, 7600, South Africa. Phone: 27-21-8083712; fax: 27-21-8083611.

The Allen Press now handles such MSA membership services as maintaining the MSA mailing list, preparing mailing labels, and processing membership applications and renewals. MSA’s contact and liaison at Allen Press, Karen Hickey, can be reached by any of the following:

Mycological Society of America, PO Box 1897, Lawrence, KS 66044-8897
phone: (913) 843-1221  fax: (913) 843-12740  e-mail: allenpresssam@delphi.com
Electronic Mail Addresses:

Note: E-mail addresses for NEW MEMBERS are listed with their directory information in the following section.

A worldwide e-mail directory MYCOLOGIST ONLINE is accessible for Internet users on-line at Biodiversity and Biological Collections Gopher <muse.bio.cornell.edu> (NOTE: the server moved from Harvard to Cornell University in July 1994). For updates and/or corrections contact Pavel Lizon <PL18@cornell.edu>.

Brayford, D — d.brayford@cabi.org
Currah, R — rcurrah@vm.ucr.ualberta.ca
Gams, W — gams@cbs.nl
Gilbertson, RL — rl@ag.arizona.edu
Gordon, SA — sguordon@smtp.usi.edu
Hillman, BI — hillman@mbcl.rutgers.edu
Hoog, GS de — dehoog@cbs.nl or surf280+kub.nl
Keller, HW — keller@hsc.unt.edu
Kendrick, WB — us707@freenet.victoria.bc.ca
Li, DW — dli@uooguelph.ca
Margot, P — PierreAndr.e.Margot@ulsy.unicl
Miller, JD — millerjd@ncctod.agr.ca
Minter, D — d.minter@abi.org
Okada, G — okada@ulumus.riken.go.jp
Powell, MJ — fac_respowell@vax1.acs.jmu.edu
Samson, RA — samson@cbs.nl
Samuels, GJ — gary@fungi.ars-grin.gov
Strongman, D — dstrongman@husky1.1stmarys.ca
Tzean, SS — ss@ccmru.ace.nl.tw
Walker, C — yfcw15@castle.ed.ac.uk
Zhao, Jiong — jz@maties.sun.ac.za

New MSA Members:

For sake of convenience this listing includes e-mail addresses as well as the standard directory information.

Barrera, Cecilio — Biology Dept., New Mexico State Univ., P.O. Box 30001, Las Cruces, NM 88003. Phone: 505-646-3733; fax: 505-646-5665.
Bates, Albert K. — P.O. Box 220, Mushroompeople, Summertown, TN 38483. Phone: 615-964-2200; fax: 615-964-2200.
Baxter, John W. — 4219 Cheyenne Drive, Laramie, WY 82070. Phone: 307-424-515.
Berrson, Burton M. — 2209 Durango Ct., Las Cruces, NM 88011. Phone: 505-521-1609.
Newly Elected Honorary Members

Biographies of the eminent mycologists elected to Honorary Membership in the MSA in 1993 and 1994 will appear in the next issue of Inoculum.

Dr. David L. Hawksworth
Director, International Mycological Institute, U.K.

Dr. Brian Sutton
International Mycological Institute, U.K.

Dr. Joseph G. H. Wessels
Dept. Plant Biology, Univ. Groningen, Netherlands

Emeritus Membership Status Granted:

Dr. James H. Grosklags
Dr. Luis Sequeira

Mycological Deaths Noted

Clyde M. Christensen
Vladimir J. Krajina
Larry P. Lehnen, Jr.
Richard A. Nolan
Dr. C. W. Hesseltine has a list of mycological publications from his personal library that are available for sale. Some titles are between 1952 and 1983 are available for distribution. The collections from Dr. Yen's personal herbarium, comprised largely African localities published by Rebecca W. Dolan, are housed at the Friesner Herbarium, Dept. of Biological Sciences, Butler University, 4600 Sunset Avenue, Indianapolis, IN 46208. These specimens are available for loans, and a printed inventory with the identifications and full collection information is available from Dr. Rebecca W. Dolan, Director of the Friesner Herbarium (BUT). Phone: 317-283-9414 or e-mail at rdolan@butler.edu. Denise Silva

H. P. Upadhyay will retire from this Universidade Federal de Pernambuco, Recife in January 1995 and will continue teaching mycology as well as research in the Universidade Federal de Mato Grosso, Cuiaba as a Research Fellow of CNPq (Conselho Nacional de Desenvolvimento Científico e Tecnologico) for one year or so. Although he has moved to Cuiaba, he has established a permanent residence in San Diego, CA, where he plans to establish a laboratory for the identification of fungi.

Cathy Cripps, PhD candidate in Botany at Virginia Polytechnic Institute and State University has received the 1994 Graduate Teaching Award. That there are over 850 Teaching Assistants at Virginia Tech underscores the nature of the award. Cathy not only taught freshman biology but was the coordinator of 80 laboratory sections. The award was presented at Founders Day. Cathy is studying aspen mycorrhizae, and her thesis advisor is Orson K. Miller, Jr.

NASA mycologist, William G. Cibula, of the John C. Stennis Space Center, visited Alice W. Chen in Rochester, NY, at the end of September to isolate Naematoloma sublateritium and other fungi. Collection trips hosted by RAMA (Rochester Area Mycological Association) members were successful. Highlights of the visit included the warm hospitality of impromptu meal invitations by RAMA members. This is a perfect example of how amateur mycological societies can collaborate with or assist professional mycologists.

Fungi Wanted

Glomerella spp — Cultures that produce fertile perithecia to be used for studies on ontogeny and systematics. Please send material to Dept. of Plant Pathology, Univ. of Georgia, Athens, GA 30602-7274; dsilva@uga.cc.uga.edu. Denise Silva

Fungal Specimens Available

G.W. Martin Collection of Myxomycetes. About 130 collections of myxomycetes from the George W. Martin collection are housed at the Friesner Herbarium, Dept. of Biological Sciences, Butler University, 4600 Sunset Avenue, Indianapolis, IN 46208. These specimens are available for loans, and a printed inventory with the identifications and full collection information is available from Dr. Rebecca W. Dolan, Director of the Friesner Herbarium (BUT). Phone: 317-283-9414 or e-mail at rdolan@butler.edu. Rebecca W. Dolan

Publications Available

Dr. C. W. Hesseltine has a list of mycological publications from his personal library that are available for sale. Some titles are pre-1900. If interested, write me for a list at 5407 Isabell, Peoria IL, 61614. C.W. Hesseltine

Natural History Book Dealers — A guide to 51 selected natural history book dealers who deal by mail and trade in taxonomic monographs was compiled by Geoff Read. Via anonymous FTP, the guide is filed as: /pub/academic/biology/ecology+evolution/books/dealers.1st. Via gopher, the guide is: Worlds of SunSITE-by Subject/Ecology and Evolution/Books/Natural History Book Dealers. Geoff Read also can provide copies on request to <read_g@kosmos.wcc.govt.nz> or <gread@actrix.gen.nz>.


Reprints of studies on fungi from South East Asia and selected African localities published by Dr. Jo-Min Yen and his coworkers between 1952 and 1983 are available for distribution. The collections from Dr. Yen’s personal herbarium, comprised largely...
of Cercospora and rusts utilized in these studies are now available on loan from Herbarium LAM. Contact Don Reynolds for a reprint list or for specimen loan requests [phone 213 744 3232; fax 213 746 2999 FAX; email dreynold@mizar.usc.edu].

Don Reynolds

Over 200 reprints dealing with freshwater and marine fungi published between 1900 and 1985, many with original descriptions. Free to a good home! If interested, please respond in writing to: Dr. Ralph Cavaliere, Department of Biology, Gettysburg College, Gettysburg, PA 17325. (Sent by Steven James, Dept. of Biology, Gettysburg College; sjames@cc.gettysburg.edu).

PROFESSIONAL & EDUCATIONAL PLACEMENT

Employment Wanted

Postdoctoral Fellow or Research Assistant position. I anticipate completing my Ph.D. in mycology by the end of 1994. My work, which is under the supervision of Prof. F. B. Reeves, deals with fungal taxonomy and ecology.

My experience and qualifications are as follows. I have a broad background in both theoretical and practical aspects of mycology and plant biology. My special interest in biology was developed while doing my M.Sc. research in plant pathology, and my Ph.D. research in fungal taxonomy. During my M.Sc. work, I developed a new tissue culture technique to study an obligate plant disease, powdery mildew on grape leaves, in sterile and controlled environments. In my Ph.D. work, I discovered one new species in addition to the biological and ecological studies of mycorrhizal fungi in sand dunes. Also included in my training are courses in plant and microbial molecular genetics, techniques in molecular biology and genetics, fungal physiology, biochemistry, virology, fungal taxonomy, plant pathology, industrial microbiology, plant physiology, plant biology, ecology, and computer science. I also have teaching experience. I was a teaching assistant and an instructor of BI 20 - Principles of Plant Biology (a class for biological science majors) at CSU. During my teaching experience, I taught, prepared, and set up labs for biological science courses.

Recently, I gained a great deal of experience from my recent work as a part-time biological technician in the USDA-ARS-NPA-Crops Research Lab. In this job, I manage the greenhouse and assist in molecular biology laboratory.

I have the desire to learn new techniques and to pursue a career in the area of mycology and molecular genetics. If any one finds me to be of value to any research project, please contact me for a detailed description of my training, experience and skill. Also, please feel free to pass my message along to any colleague who may be interested. Thank you for your attention.

You can contact me at: USDA-ARS-NPA Sugarbeet Research, Crops Research Laboratory, 1701 Center Ave., Fort Collins, CO 80536-2083. Phone: (303) 498-4252 Work; (303) 491-0423 School; (303) 491-8138 Home; FAX: (303) 482-2909; e-mail: aalagely@lamar.colostate.edu.

Abid K. Alagely

Seeking a PostDoc or Research Position — I am a Ph.D. candidate in the Population Biology and Ecology area of the school of Biological Sciences at Purdue University, and expect to defend my thesis before the end of 1994. My thesis concerns determining the number of distinctive forms within the obligately parasitic, plant pathogenic powdery mildew Erysiphe cichoracearum, and the extent and evolution of their host specificity. I have primarily used RFLP information from PCR amplified regions of the genomic ribosomal genes to characterize the diversity within this widespread fungal species. During my tenure in the laboratory of Dr. Morris Levy I have also worked on population biology and pathotypic evolution in the rice blast fungus (Pyricularia grisea). I have experience with standard aseptic procedures and microscopic techniques, southern blotting and probing, amplification of RAPDs, and have experience using a number of phylogenetic inference software packages including versions of PAUP, MacClade, Phylip, and DNA Sequence alignment software. My research interests are broad within the areas of understanding evolutionary processes, molecular genetics, and in phylogenetic reconstruction, but I am especially interested in studies of interactions between hosts and their symbionts.

I am looking for post-doctoral or research associate positions, particularly in the areas of plant, fungal or microbial molecular genetics and/or systematics. I will be available for positions beginning in or after the summer/autumn of 1995. My CV (revised 9/94) is available on the MSA Bulletin Board [PostDoc Wanted], 19 Oct 94]. If you have a postdoctoral or research position to offer, please do not hesitate to contact me at: Dept. of Biological Sciences, Purdue University, West Lafayette, IN 47906-1392 (USA). Internet: klzeller@bilbo.bio.purdue.edu. Phone: (317) 497-3596. Fax: (317) 494-0876.

Kurt A. Zeller

Faculty & Professional Vacancies

Assistant Curator, Field Museum. The Field Museum seeks an outstanding systematic botanist for a career-track appointment in the Department of Botany at the level of Assistant Curator. Candidates pursuing innovative specimen-based research in macrofungi including lichens, bryophytes, pteridophytes or angiosperms, and who are also making important contributions in a second field such as conservation, ethnobotany, theoretical systematics, developmental biology or population genetics, will be given special attention. In addition to research, responsibilities include curation of relevant collections and participation in public education and exhibit programs. The successful candidate will have a Ph.D., a proven record of scientific achievement and

Goods & Services Available

Pure natural coconut milk powder for preparation of mycological culture media, and other extracts available. A. Weintraub

Mycological tool (dissecting needle). Dental stainless picks (rust-proof); various kinds, useful for making transfers of mycelium or as transfer lances. May be sharpened. A. Weintraub

Services Sought

Identification service for Zygomycetes. Mycotech Biological, Inc., Rte. 1, Box 182, Jewett, TX 75846; phone/fax 903-626-4429

Larry Robertson

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the ability to establish an externally funded research program. Curators teach at local universities and there are opportunities for participating in undergraduate and graduate training.

The Botany Department is part of the Museum's Center for Evolutionary and Environmental Biology which includes the departments of Geology and Zoology. Facilities include over 2.5 million botanical specimens (including one of the world's richest collections of neotropical plants), an outstanding library, and molecular systematics and biochemical laboratories. Consideration of applications will begin on October 17, 1994. Please submit a Curriculum Vitae; a statement of research objectives; names, addresses and contact numbers of at least 3 references; and copies of relevant publications to: Search Committee, Department of Botany, The Field Museum, Roosevelt Road at Lake Shore Drive, Chicago, IL 60605-2496. E-mail inquiries: botany@fmnh.org. As an Equal Opportunity/Affirmative Action Employer, we especially encourage applications from women and minorities and we are responsive to dual-career needs.

Maynard A. Amerine Professor of Viticulture and Enology, University of California at Davis. Nominations and applications are invited for a tenured position at the Maynard A. Amerine Professor of Enology and Viticulture. The appointee will have teaching and student advising responsibilities and will be expected to initiate a research program pertinent to the California grape and wine industry. The monetary award from the Amerine endowment is to support research in this area. The appointment to the Amerine Chair is for 5 years, subject to renewal on review. The position is available 1 July 1995. Qualifications include a Ph.D. or equivalent degree in a discipline relevant to viticulture and/or enology, teaching and research experience in a relevant discipline, and a record of scholarly and academic achievement. Disciplines encompassed by the department include plant and microbial genetics and biochemistry, plant physiology, microbiology, chemistry, sensory science, and chemical and biochemical engineering. Applicants should submit a curriculum vitae with a list of publications, reprints of publications, statement of research and teaching interests and background in each, and the names and addresses of at least three references to: Ann C. Noble, Search Committee Chair, Dept. of Viticulture and Enology, University of California, Davis, CA 95616-8749 USA. Closing date extended to 1 February 1995. Applications received after the final filing date will not be considered unless the position is reopened for recruitment. The University of California is an Affirmative Action/Equal Opportunity Employer.

Molecular biology of microorganisms; Université Catholique de Louvain (Belgium). At the College of Agriculture of the Catholic University of Louvain, a full time faculty position has become available: Aim: to develop a research group devoted to molecular biology applied to fungi and bacteria and to supervise the Mycothèque of the University (23,000 strains) with the development and use of molecular biology techniques applied to taxonomy. Teaching will be in the areas of microbiology (mycology) and molecular biology, special qualifications: publications in molecular biology applied to microorganisms; a knowledge of fungal taxonomy will be an asset; otherwise, it will have to be acquired. Duties will include lectures and practical tuition, in French, to undergraduate students, and supervision of postgraduate students. Candidates should have a Ph.D. in the field, postdoctoral experience and internationally recognised publications. They should be well recognised scientists with a broad knowledge of the various aspects of the field. They should have capability for teaching and for research group leadership. The recruitment level will depend upon experience and qualifications. Starting date will be October 1, 1995. The application should include a curriculum vitae, a list of publications and reprints of the 5 most representative ones, a research project for 5 years, three letters of reference and, if possible, the name of two Belgian scientific personalities, not members of the UCL, from whom information could be asked. It should be sent BEFORE November 15th, 1994, to: Professeur P. Macq, Recteur de l'Université Catholique de Louvain, Halles universitaires, Place de l'Université 1, B-1348 LOUVAIN-LE-NEUVE, Belgium. Inquiries may be directed to: Faculté des Sciences agronomiques de l'Université catholique de Louvain, place Croix du Sud 2, bte 1, 1348 Louvain-la-Neuve, Belgium. Tel.: 32.10.47.37.19 - Fax: 32.10.47.47.45 e-mail: Personnages@sagri.ucl.ac.be.

Plant Molecular Systematist. The New York Botanical Garden invites applications for the position of Plant Molecular Systematist in the Institute of Systematic Botany. Qualifications include a Ph.D. in Botany or Biology, demonstrated excellence in Molecular Systematics, a strong background in Plant Taxonomy, and several years of postdoctoral experience. The successful candidate will conduct research in botanical or mycological systematics with an emphasis on employing molecular techniques. Work will involve teaching and advising of students in the Garden's Graduate Studies Program, and publishing research results in peer-reviewed scholarly journals. The individual occupying this position will also be expected to secure grant funds and assist in other departmental and division-wide duties. This position begins 1 April 1995. Excellent benefits. To apply submit a letter stating research interests and goals, vita, and the names of three references to Personnel Manager-MS, The New York Botanical Garden, 200th Street and Southern Blvd., Bronx, New York 10458-5126, USA. Fax: (718) 220-6504. AA/EEO/M/F/D/V.

Plant Systematist and Mycologist/Cell Biologist — Miami University, Department of Botany, Oxford, Ohio. Applications are invited for two tenure-track Assistant Professorships beginning August 1995 on the Oxford campus. Successful candidates will join a growing, broadly-based department committed to educational and scholarly excellence and faculty diversity. A Ph.D. in Botany or a closely related discipline is required along with a genuine commitment to excellence as a teacher-scholar. Postdoctoral experience is preferred. Successful candidates will teach courses at the introductory as well as the advanced level and develop a vigorous, extramurally-funded research program.

Plant Systematist. We seek a broadly-trained plant systematist/taxonomist using modern molecular techniques to address fundamental questions in plant systematics and to complement existing departmental and interdepartmental programs. Areas of research interest may include but are not limited to plant evolution, economic/ethnobotany, tropical botany, and conservation biology.

Mycologist/Cell Biologist. We seek a broadly-trained mycologist/cell biologist to complement and expand our core teaching and research programs in mycology and related disciplines. Research interests should emphasize modern cellular, physiological, and/or molecular approaches to fungal biology, including but not limited to fungal physiology, plant pathology, and ecological interactions of fungi. Use of electron and/or confocal microscopy as a research tool is beneficial.

The Miami Botany Department currently has 15 full-time faculty, with over 120 undergraduate majors, and 36 full-time graduate students. The department offers B.S. and B.A. degrees in Botany and Botany-Environmental Science, M.A., M.S., and Ph.D. degrees in Botany, and a Master of Arts in Teaching degree. The Oxford campus, located 35 miles northwest of Cincinnati, has over 16,000 students and is recognized as one of the nations best liberal arts universities. The Turrell Herbarium, an interdepartmental Electron Microscope Facility with state-of-the-art cryofixation capability, greenhouse/plant growth chamber facilities, field research plots, an Ecology Research Center, extensive analytical instrumentation, and partnership in a Howard
Hughes Medical Institute grant offer outstanding support for scholarship. Interaction with faculty and students in other disciplines is encouraged.

Candidates should submit application materials (curriculum vitae, a statement of teaching philosophy and interests, a statement of research interest, and not more than 3reprints of representative research), and should arrange to have three letters of reference sent to: Dr. Kenneth Wilson, Chair, Plant Systematics Search Committee (<Wilsonk@mu-support.acs.muohio.edu>) or Dr. Jerry McClure, Chair, Mycologist/Cell Biologist Search Committee (<McClure@mu-support.acs.muohio.edu>), Department of Botany, Miami University, Oxford, Ohio 45056. Fax: 513-529-4243. Review of application materials begins 1 December 1994. Miami University offers equal opportunity in employment and education.

**Postdoctoral Opportunities**

National Research Council to Award Ford Foundation Postdoctoral Fellowships for Minorities — The National Research Council plans to award approximately 20 Ford Foundation postdoctoral Fellowships for Minorities in a program designed to provide opportunities for continued education and experience in research for Native American Indians, Alaskan Natives (Eskimo or Aleut), Black/African Americans, Mexican Americans/Chicanos, Native Pacific Islanders (Micronesians or Polynesians), and Puerto Ricans. Fellows will be selected from among scientists, engineers, and scholars in the humanities who show greatest promise of future achievement in academic research and scholarship in higher education.

In this national competition sponsored by The Ford Foundation, citizens of the United States who are members of one of the designated minority groups, who are preparing for or already engaged in college or university teaching, and who have held the PhD or ScD degree for not more than seven years may apply for a fellowship award of one year's duration.

Awards in the Ford Foundation Postdoctoral Fellowships for Minorities Program will be made in the behavioral and social sciences, humanities, engineering, mathematics, physical sciences, and life sciences, or for interdisciplinary programs composed of two or more eligible disciplines. Awards will not be made in professions such as medicine, law, public health, social work, library science, and such areas as business, administration, management, fine arts, performing arts, health sciences, home economics, speech pathology, audiology, personnel, guidance, and education. Tenure of a fellowship provides postdoctoral research experience at an appropriate not-for-profit institution of higher education or research of the Fellow's choice. Appropriate institutions include universities, museums, libraries, government or national laboratories, privately sponsored not-for-profit institutes, government chartered not-for-profit research organizations, and centers for advanced study.

The deadline for submission of applications is January 6, 1995. Copies of the program announcement and application materials are available from: The Fellowship Office, National Research Council, 2102 Constitution Avenue, Washington, D.C. 20418 [telephone: (202) 334-2860; e-mail: infofell@nas.edu]. Applicants will be notified by the National research Council in early April 1995 of the disposition of their applications. Applicants who are not awarded fellowships, and are still eligible for the program, may reapply in subsequent competitions.

Postdoctoral position available immediately to study chitin synthase genes in fungal pathogens of humans. Project involves the study of these genes in site-specific deposition of chitin during shifts among polarized and nonpolarized phenotypes (yeasts, hyphae, isotropic forms). Candidates must have experience in molecular biology of filamentous fungi, including transformation, PCR, sequencing and cloning. Send letter of interest, curriculum vitae, and names and phone numbers of references to: Paul J. Szaniszlo, Department of Microbiology, University of Texas at Austin, Austin, TX 78712-1095. [Posting rec'd 19 Sept]

**PLANT PATHOLOGY Postdoctoral Research Associate** (Available from October 1994). A position is available in the Department of Environmental Biology at the University of Guelph in Ontario. The major project examines the use of a fungal antagonist to control snow mould disease of turfgrass. There are a couple of smaller projects also involving turfgrass fungal pathogens. A good background in field-oriented plant pathology is required. The appointment is available immediately for a 12-month period with possibilities of extension. The salary is $25,000 per year with an additional 13% in benefits which covers prescription drugs, vision care and some supplementary health care benefits. Interested applicants should send a resume (with list of references) and unofficial copies of University transcripts to: Dr. T. Hsiang, Dept. Environ. Biol., Univ. Guelph, Guelph, Ontario, N1G 2W1, Canada. Phone 519-824-4120 ext. 2753. FAX 519-837-0442. E-mail tsiang@evbhort.uoguelph.ca. [from MSA Bulletin Board, posted 13 Oct 94]

**Graduate Assistantships**

Graduate Fellowship in Mycology/Entomology, Saint Mary’s University, Halifax, NS, Canada. I am looking for a graduate student interested in work on fungal pathogens of insects. My research program focuses on the population biology of fungal species which cause disease in insects associated with lowbush blueberry. Potential projects include: documenting the species composition and frequency of fungi causing disease in insect populations on blueberry, experimental work on infectivity of fungal pathogens on pests such as blueberry fruitfly or molecular approaches to the study of populations of fungal entomopathogens but I am open to discussing other projects. Starting Date: January 1995. Contact: Dr. Doug Strongman, Biology Dept., Saint Mary’s University, Halifax, N.S. B3H 3C3, Canada [phone: 902-420-5754; email: dstrongman@husky1.stmarys.ca].

Graduate Student Opportunities in Molecular Plant Pathology (Fall 1995) — We are looking for two Ph.D. students to study the molecular biology of fusiform rust of Southern pines. Fusiform rust is the most costly tree disease in the Southeastern U.S. and is characterized by the formation of galls on loblolly and slash pines. The fungus that causes this disease, Cronartium quercuum f.sp. fusiforme, has a complex and fascinating life cycle during which it produces five different types of spores and alternates between its two hosts, pine and oak. Our long-term goals are to understand how C. q. fusiforme causes gall formation on pine and how it regulates the alternation of its growth on pine and oak. We are also studying the genetic variation of C. q. fusiforme field populations.

Ours is a supportive laboratory in which students are encouraged to work independently. The University of Georgia provides an excellent environment for graduate studies in this area as it has strong research programs in genetics, microbiology, plant sciences and forest resources. In general, minimum requirements are a BSc. degree or previous lab experience, a GPA of 3.3 or above, and a GRE score of 1200 or higher.

If you are potentially interested in such a position, please contact Dr. Sarah F. Covert, Warnell School of Forest Resources, University of Georgia, Athens, GA 30602; 706-542-1205; COVERT@BSCR.UGA.EDU.
Catalog of Products: July 1994

**FUNGAL HISTOLOGY STAINS — Chitin-specific stain, will not stain other polymers**
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Fluorescein succimidyl-based; 40-50 tests.  
Kit contains all buffers, reagents and protein blocking solutions.  
$195

**Kit #1202 CF**
Fluorescein succimidyl-based; 100 tests.  
Kit contains all buffers, reagents and protein blocking solutions.  
$350

**Kit #1203 CF**
Same reagents as #1201; 25-30 tests.  
$150

**Kit #1204 CF**
Same reagents as #1201; 15-20 tests.  
$100

**Kit #1205 CF-CFR**
Trial kit with 15 tests each of protein-bound a) FITC, b) fluorescein succimidyl, c) rhodamine succimidyl, and d) rhodamine sulfonyle chloride; 60 tests total.  
$250

**Kit #1206 CF-R**
Rhodamine sulfonyle chloride-based; 40-50 tests.  
$195

**Kit #1207 CE**
ELISA Development Kit; reagents sufficient for 200 tests  
0.1 mg biotin-conjugated protein in 1 ml, azide-stabilized phosphate buffered saline: for use with Horseradish-peroxidase streptavidin reagents (not included) or other ELISA-type assays. Reagent sufficient for 200 tests. Can be used for developing quantitative tests. May be used for development of colorimetric, fluorescent, chemiluminescent or radioactive assays with avidin or streptavidin linked systems.  
$250

**Kit #1208 CE**
Same as #1206 except 0.3 mg biotin-conjugated protein in 3 ml.  
Reagents sufficient for 600 tests.  
$500

**Kit #1209 CH**
Includes HRP reagents.  
$195

**Shipping:**  
*Second-Day Delivery: $4.50 by US Postal Service (Domestic only)*  
*or $6.00 UPS. Other shipping modes at cost*

* Larger quantities quoted upon request
The Last Word

I trust that all of you who attended the 5th International Mycological Congress in Vancouver were pleased with the program and its beautiful setting on the UBC campus. There were many very valuable sessions that have left me well satisfied by my attendance at this meeting, even if many of the lecture halls were uncomfortably crowded. There are so many small memories that can provide warm personal and professional memories of such meetings. As always, however, it is the human side of these meetings – the renewals of old acquaintances, the chance to catch up on the latest news (sometimes, even, from our own institutions!), and the chance to make so many new acquaintances of other members of the MSA and of many foreign mycologists who usually do not attend MSA or other meetings that I attend provide the most lasting memories.

In comparison to the many people attending the Congress itself, the much more intimately scaled meeting of the Anamorph Information Network (AnaNet) before the Congress provided a wonderful breath of fresh air for me after a very hectic schedule leading up to my departure for Vancouver. Although I have professional concerns for many genera of conidial fungi, it was a revelation and joy to meet with the very diverse people there and to learn about some of their interests and concerns. Very clearly, there is a healthy interest in all aspects of the biology, taxonomy, and systematics of these extraordinarily diverse organisms regardless of one's position about the taxonomic or systematic need for the Deuteromycota.

Enrique Descals provided an magnificent display of mycological illustration that focussed on illustrative techniques and modes of graphic presentation of information that, if and when this complex display can be assembled for publication, deserves to become an instant classic; I, however, it is the human side of these meetings – the renewals of old acquaintances, the chance to catch up on the latest news (sometimes, even, from our own institutions!), and the chance to make so many new acquaintances of other members of the MSA and of many foreign mycologists who usually do not attend MSA or other meetings that I attend provide the most lasting memories.

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Enrique Descals provided a magnificent display of mycological illustration that focussed on illustrative techniques and modes of graphic presentation of information that, if and when this complex display can be assembled for publication, deserves to become an instant classic; I urge you all to make your interest in such a publication known to Enrique, to Keith Seifert, and to all other leaders of the AnaNet and to offer any help you can to make this possibility a reality.

I don't think that there would be much disagreement that the most desired souvenirs of the Congress were the two (yes, two!) MSA tee-shirt designs. Fungus Man and Raven is a beautiful work of native art from the Pacific Northwest; the other, Ingold's Aquatic Nightmare, is a piece of pure fungal whimsy, a drawing telling a story that is composed entirely of drawings of aquatic (Ingoldian) hyphomycetes. The shirts and a canvas tote bag (with the Fungus Man image) sold out at the Congress. A second run of these designs has been printed and is available to all members of the MSA (see the ad at the bottom of p. 3).

The MSA Social and Auction was graced by the appearance of a very elderly but still intellectually challenging Elias Magnus Fries (courtesy of the professional theatrical expertise of Dick Korf) who provided the assembled crowd with his unique perspective on the progress of mycology since his birth two hundred years ago. See pages 10-11 for a portrait of the august personage who appeared at the Social and an interesting message to Dr. Korf that materialized from out of the electronic ether by Prof. Fries in the wake of his appearance at Vancouver.

I am pleased to note that Ellen Farr has been selected as the next editor for this newsletter. Arrangements are already being made for what we both hope will be a seamless transition in responsibilities for the preparation of Inoculum in 1995.

Rich Humber

✔ AND FROM YOUR NEXT EDITOR:

Beginning in 1995, Inoculum will be published six times a year to be mailed with issues of Mycologia. Six issues a year allows more timely announcement of dated events, but a continuous stream of news will be needed from the membership. The first deadline will be February 10, 1995. Like Rich, I will encourage submissions by e-mail and on floppy disk (DOS preferred, but Macintosh files can be converted). More details will be provided in the next issue of Inoculum.

Ellen Farr
Smithsonian Institution
mnhbo001@sivm.si.edu

The deadline for receipt of items for the next newsletter is:

Friday, 16 December 1994

Please submit ALL items by electronic mail if this is reasonable for you. There is no need to send computer disks for items that are only a few lines long. For longer items, computer disks labelled with the format (DOS or MAC), word processing software, and title of the file with your items are much appreciated. Send a printed copy of your material together with the disk!
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You are encouraged to inform the Sustaining Membership Committee (Paul Lemke, Chair) of firms or foundations that might be approached about Sustaining Membership in the MSA. Sustaining members have all the rights and privileges of individual members in the MSA and are listed as a Sustaining Members in all issues of *Mycologia* and *Inoculum.*
An Invitation to Join MSA
THE MYCOLOGICAL SOCIETY OF AMERICA
1994 MEMBERSHIP FORM

(Please print clearly!)

Last name: ___________________________ First name & MI ___________________________

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City ___________________________ State/Prov. ______ Country _____________ Zip ______

Telephone: (_____) ______________________ E-mail: ________________________________

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MSA member endorsing application (printed name AND signature, please!):

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AREAS OF INTEREST: [Mark most appropriate area(s)]

____ Cell Biology – Physiology [includes cytological, ultrastructural, metabolic regulatory
and developmental aspects of cells]

____ Ecology – Pathology [includes phytopathology, medical mycology, symbiotic associations,
saprobic relationships and community structure/dynamics]

____ Genetics – Molecular Biology [includes transmission, population and molecular genetics,
and molecular mechanisms of gene expression]

____ Systematics – Evolution [includes taxonomy, comparative morphology molecular systematics,
phylogenetic inference, and population biology]

TYPE OF MEMBERSHIP:

____ Regular Member $60 (includes Mycologia and MSA newsletter)

____ Student Member $30 (includes Mycologia and MSA newsletter)

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includes one copy of Mycologia and individual copies of newsletter and other mailings)

____ Sustaining $250 (benefits of Regular membership plus listing in Mycologia and newsletter)

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PAYMENT:

____ CHECK [Payable to The Mycological Society of America and drawn in US$ on a US bank]

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Mail membership form and payment to:

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I wish to contribute $________ to the following named fund:

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**Dr. George Carroll**  
Chairman, MSA Endowment Committee  
Department of Biology  
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QUESTIONNAIRE
Information for the Newsletter

Submit this sheet or other material to the Editor at your earliest convenience. Early submission of material will expedite the preparation and issuance of Inoculum. Inoculum will be issued four times a year, in January, April, October, and a month before the Annual Meeting (with the program, abstracts and other related material).

⇒ ⇒ Please be sure that information for the Newsletter is legible (preferably, readable by scanning software).

Name: ___________________________________________ [ ] Address change.

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Phone: _______________________________ [ ] New phone number.

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SUGGESTED ITEMS
FOR SUBMISSION:
[Use the current Inoculum as a model] :

Major and minor news items of interest to MSA members
Announcements to MSA
Forthcoming events, meetings, workshops, etc.
Official business of MSA and its committees
News from affiliated societies
New research projects
Mycological essays
Mycological humor
Mycological artwork
Foray checklists
Changes in affiliation
Honor, awards or promotions received
Mycological travel
Other personal news
Letters to the Editor
Fungi wanted or available
Mycological services available or needed
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... or anything else you feel is appropriate!

⇒ Use the back or attach additional pages as needed!