

## Newsletter of the Mycological Society of America

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## President's Corner

As the holidays approach, I find myself reflecting on my many blessings. The Mycological Society of America is certainly among them. From my first MSA meeting in 1988 (Davis, California), the Society has supported and encouraged the development of my interests, and it has provided me with many cherished colleagues and friends. Today, there are lots of meetings where one can hear the occasional paper about basic research concerning Fungi, and there is even one biennial meeting devoted to fungal genetics (not to mention the annual plant pathology meetings), but only MSA integrates across all the fungal disciplines. By drawing together researchers, educators and students with diverse interests, the MSA provides the central organizing structure that supports our science.

Our mycological community is more important now than ever. Competition for funding and jobs is severe. Readers of this article all know that Fungi are beautiful, important and useful, but most biologists (not to mention the lay public) consider Fungi obscure, if they think about them at all. Fungal biologists can help themselves, and each other, by banding together to pursue collective interests that have broad impact and enhance the visibility of the discipline. A great example of this kind of undertaking was the "Deep Hypha" Research Coordination Network, which was led by MSA members Meredith Blackwell, Joey Spatafora, and John Taylor, and that eventually spawned the Assembling the Fungal Tree of Life (AFTOL) project. More recently, the Fungal Environmental Sampling and Informatics Network (FESIN), led by Tom Bruns, Betsy Arnold and Karen Hughes, provided a venue for fungal ecologists and contributed to successful proposals to the NSF Dimensions of Biodiversity program. Finally, MSA members have been instrumental in launching the ambitious new 1000 Fungal Genomes Project (<http://1000.fungalgenomes.org/home/>) that is supported through the Fungal Genomics Program of the DOE Joint Genome Institute (<http://genome.jgi-psf.org/programs/fungi/index.jsf>). I think it is fair to say that all of these endeavors benefit mycology broadly, and were facilitated by the MSA.

Of course, MSA does not just support giant collaborations and Research Coordination Networks; MSA also supports and rewards the efforts of individual researchers and students, through numerous grants and awards that honor teaching, research and service in support of mycology. Our fine journal *Mycologia* offers a venue for all MSA members to publish their work, and our community provides an army of knowledgeable reviewers who promote our science while maintaining high standards (if you have had a grant proposal or manuscript rejected recently, then you may not be so sympathetic to this last argument, but can you imagine

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how successful you would be if there were no fungal biologists to handle your manuscripts and proposals and point out what makes them important?).

### MSA WANTS YOU

I hope that I have convinced you that MSA is vital to fungal biology and that the continued strength of the MSA will benefit all scientists with interests in Fungi. Running the MSA is not a trivial business, and it is done almost entirely by volunteers. In fact, there are over 130 service positions in the MSA, including standing and ad hoc committees and various special assignments. It is a testament to the community spirit of MSA members that almost all of these positions are currently filled, but there are several critical committees that have vacancies, which are listed below along with the current members. If you would like to contribute to the operations of the MSA, please consider volunteering for one of these committees. You can also nominate a colleague. In either case, you can write to me ([dhibbett@clarku.edu](mailto:dhibbett@clarku.edu)) or to MSA Secretary Jessie Glaeser ([msasec1@yahoo.com](mailto:msasec1@yahoo.com)) to express in-

terest. To learn about the roles of these committees, please consult the MSA Manual of Operations (affectionately known as the MOP, available at <http://msafungi.org/msa-business>).

### CURRENT MSA COMMITTEES WITH VACANCIES:

#### Electronic Communication & Web Page Management Committee

Current members: Kathie T. Hodge, Jason Stajich  
One vacancy

#### Finance Committee

Current member: Martha Powell  
Three vacancies

#### Student Awards Committee

Current members: John McKemy, Imke Schmitt, Antonio Izzo  
One vacancy

#### Program Committee

Current members: D. Jean Lodge, Kerry O'Donnell, Sharon Cantrell  
One vacancy

—David Hibbett  
Biology Department  
Clark University

## Second Year of Fungal Biodiversity Program in Thailand

This past summer marked the second year of the “Studies of Fungal Diversity in Northern Thailand” program being funded by a grant from the National Science Foundation to the University of Arkansas. On June 16, the four of us who had been selected from a pool of applicants flew to Chicago, where we met Steve Stephenson, the coordinator for the Thai program and a research professor at the University of Arkansas, and two of his former students (Adam Rollins from Lincoln Memorial University in Tennessee and Randy Darrah from Farmington, West Virginia). We flew from Chicago to Bangkok, with a brief layover in Tokyo, and then on to Chiang Mai in northern Thailand, finally arriving at the Mushroom Research Centre, which is located 64 km north of the city of Chiang Mai. At the Chiang Mai airport, we were met by Thida Win Ko Ko, a mycologist from Myanmar but currently at Mae Fah Luang University, who would work with us throughout the entire period we would spend in Thailand. Steve Miller, a professor at the University of Wyoming and co-director of the project, was to join our group at the end of June (Fig. 1)

The Mushroom Research Centre (“MRC” to us) is situated in a beautiful forested area that offers a bountiful supply of fungi to collect and observe (Fig. 2). MRC itself consists of a number of chalets (our “homes” for the month-long program), a kitchen and meeting area and laboratory facilities.



**Fig. 1. Participants in the 2011 summer program from the United States (left to right): Steve Stephenson, Steven Trowbridge, Klara Scharnagl, Derrick Lindsay, Miranda Ganci and Steve Miller.**

Our meals were prepared on site, and we had the opportunity to try many different kinds of traditional Thai food, some of which is difficult to describe to anyone who is familiar only with American dishes! As soon as we arrived at MRC, we met a number of students with whom we would be spending the next month. These students were from Chiang Mai University and Mae Fah Luang University. We spent all of our time together on research trips, in the laboratory, sharing research interests, playing games, singing karaoke, and gen-

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**Fig. 2. The Mushroom Research Centre in northern Thailand.**

erally getting to know one another. The students from Chiang Mai University were citizens of Thailand, but some of the students from Mae Fah Luang University were from China, Laos, the Philippines, and Sri Lanka. We all communicated with each other in English; however, the Thai students taught us all some Thai words and we tried our best to pronounce them correctly. Not only did we learn about the Thai language, but we also learned about Thai culture. In addition, we learned about the customs and way of life in China, Laos, the Philippines, and Sri Lanka. In fact, one of the best parts of this program is that we lived, worked, looked for fungi, studied and ate at the same location—MRC. Over meals, when we weren't busy getting to know each other or sharing in the merriment of how it sounds for us to try to learn each other's languages, we were talking about fungi. As we walked from laboratory to chalet, or chalet to the dining room, we were always looking for [and finding!] a vast array of fungi. During this program, the purpose of which is to foster international exposure and cooperation to survey fungal biodiversity in the amazingly gorgeous and diverse tropical forests of northern Thailand, we lived and breathed mycology, and we loved it!

Some of us arrived at MRC without ever having taken a formal course in mycology. As such, the workshops, field trips and laboratory time at MRC served as our immersion into the world of mycology. The overall experience not only served as an excellent introduction

to the world of mycology but also allowed us to get a glimpse of other people's research relating to the other components of the fungal world. This in turn helped us to make connections with each other in terms of our interests. If one person was working with slime molds, we would excitedly go to them with our 'myxo' collection. If someone else was studying *Agaricus*, we would call them over in the field when we found a specimen that appeared to represent this genus. Through sharing our interests, we also shared our excitement with each other; it was fun to be surrounded by people who also get excited when someone shouts from the depths of the forest "*Xylaria!*" or "*Plasmodium!*" or "*Cortinarius!*" I was struck by the fact that all of us, wherever we came from and whatever level of education we had reached, shared an eagerness to

learn. When someone had something to share, we would all cluster around, peering at such things as the dendroid structure of *Ceratiomyxa fruticulosa* or at the bright yellow pores of a particularly beautiful *Boletus*. We shared an appreciation and eagerness for fungi, and it was inspiring, invigorating, and refreshing.

Before embarking upon our first collecting trips, we participated in lectures and workshops on slime molds, ascomycetes (particularly pyrenomycetes), basidiomycetes and fungal ecology. We learned where to look for specimens, how to collect and then describe the specimens in the laboratory, and (to the extent possible) how to identify them. When Steve Miller arrived at the end of June, we were treated to a

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**Fig. 3. The entire group involved in the 2011 summer program.**



**Fig. 4. Describing specimens in the lab.**

workshop on the family Russulaceae. Our collecting trips were spent in the beautiful rainforests of northern Thailand (Fig. 3). The rainforests we visited represented primary and secondary growth broadleaf forests, and we also collected in one pine-dominated forest. Our collections included slime molds, basidiomycetes, and ascomycetes, and some emphasis was placed on the “little fungi” that are often overlooked. We found fungi on leaf litter, on and under the ground, on trees, on dead logs, on fence posts, and even on insects. Back in the lab, we all worked on describing our specimens (Fig. 4). It was a great learning experience to spend time doing this. We were taught how to photograph and describe the macroscopic and microscopic features of fungi and slime molds. It was incredibly interesting to look at such features as spore size and shape under the microscope.

The students and professors spent time exploring other parts of northern Thailand aside from the rainforests. We all interacted with elephants at the Mesa Elephant Camp. The camp is an elephant sanctuary designed to protect elephants from inappropriate labor. The elephants were extraordinarily friendly and they love to hug people with their trunks. At the

time that we visited the camp, there were several baby elephants. They were adorable, and we had to peel bananas before we fed them. In addition to Mesa Elephant Camp we traveled to temples, an orchid nursery, a mushroom farm, a tea plantation, hot springs, and multiple night bazaars. We spent time at a number of temples, including the unique Wat Rong Kun or white temple in Chiang Rai. At the orchid nursery, we admired (and photographed some of) the hundreds of varieties of orchids on display. The mushroom farm we visited was producing *Volvariella* mushrooms. At the tea plantation, we witnessed the production, drying, and fermentation of tea leaves. We also cooked eggs at a hot springs and enjoyed shows and shopping at the night bazaars.

Towards the end of our trip each of us prepared a PowerPoint presentation. The presentations included information about our experiences at MRC, current research, and a summary of the research projects we had carried during the four weeks we spent in Thailand. These presentations were given at Mae Fah Luang University. The research projects were an excellent learning experience, and presenting a summary of the project proved to be challenging and intriguing as well.

Between collecting, describing, and photographing mushrooms, as well as conducting an independent research project, each of us gained invaluable hands-on experience relating to many different aspects of mycology while in Thailand. No classroom setting could provide what the 2011 Fungal Biodiversity Program gave us. Any student would be fortunate to be selected for this program during some future summer.

The application period for the 2012 program in Thailand is now open and is due to close on January 15, 2012. Information on the application process is available from Steve Stephenson ([slsteph@uark.edu](mailto:slsteph@uark.edu)). It should be noted that any undergraduate or graduate student interested in being considered for the program must be enrolled as a student at his/her college or university during the summer of 2012.

—**Miranda Lynn Ganci**  
North Carolina State University  
—**Anthony Derrick Lindsay**  
Lincoln Memorial University  
—**Klara Scharnagl**  
Florida International University  
—**Steven Trowbridge**  
University of Wyoming

## Conservation of Desert Truffles

**A pilot project.** The *Mohamed bin Zayed Species Conservation Fund* has provided financial support for a pilot project to begin evaluating the conservation status of desert truffles. This will be the first ever assessment of a group of ascomycetes clearly defined in ecological and taxonomic terms. It will also be the first time a specialist group of the IUCN has been involved in the formal assessment of a group of fungi.

**Target species.** The target species will be subterranean members of the ascomycete families Pezizaceae and Terfeziaceae occurring in deserts. In particular, it will include

species of the following genera: *Amylascus*, *Cazia*, *Delastrea*, *Hydnobolites*, *Hydnotryopsis*, *Kalahariturber*, *Loculoturber*, *Mattiolomyces*, *Muciturbo*, *Mycoclelandia*, *Pachyphloeus*, *Sarcosphaera*, *Sphaerozone*, *Terfezia* and *Tirmania*. These truffles occur in desert areas globally. Best known are the species occurring in the Middle East (including Bahrain, Dubai, Iraq, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria, UAE, Yemen), and around the Mediterranean (including Algeria, Egypt, Greece, Italy, Libya, Morocco, Spain, Tunisia, Turkey). Other desert truf-

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fles occur elsewhere in Africa, in arid areas of Australia, North America and, although information is scanty, possibly also central Asia and South America. Some desert truffles are harvested for human food, and a few species are prized gastronomically, sometimes with fruitbodies exported, for example from north Africa to Europe. There is also a small ecotourism industry associated with some species. It will be necessary to take into account such economic aspects, including harvesting and trade in these species, both local and international.

**Why desert truffles are important.** The single most important habitat occupied by this group of subterranean fungi is hot arid desert. In this harsh environment, all life is marginal. As a result these ecosystems have organisms highly specialized to survive difficult conditions. Not surprisingly, there is a complex interdependence so that one animal species, for example, may only survive if a particular plant is also present, and that plant may only be present if accompanied by its associated mycorrhizal symbiont - the desert truffle. The subterranean fungi that are the topic of the present project thus form an important component of that network of interdependence. As mycorrhizal symbionts of desert shrubs, they are a key factor in ensuring the continuation of desert vegetation. There is widespread lack of understanding that hot arid deserts are fragile ecosystems: they tend to be regarded as places suitable, for example, for military purposes or for developing huge schemes to harvest solar energy, without consideration of the organisms present. One objective of the work will therefore be to contribute to a better understanding of their ecological value.

**What information is needed.** To make high quality evaluations, a lot of information is needed. In particular, the geographical distribution of each species needs to be understood, together with the timing of different stages in the life cycles, and the factors affecting such distributions and timings. Will it be possible to tell for any species if distributions and/or populations are changing? It is also important to know what are the substrata, and what other organisms are associated with these fungi: mycorrhizal plants, associated ani-

mals, other fungi, etc. Possible threats to the fungi need to be identified and assessed, as do knock-on impacts from other organisms and on other organisms. Are any of these species going to be affected by climate change? Is habitat destruction or pollution a factor? The economic factors relevant to trade in these species also need to be understood. What is the nature of the trade? Are there checks and balances, or is this an unregulated activity? Which species are involved? What is the size of the trade in terms of amounts collected and financial turnover? Is the trade sustainable and, if not, can practices be modified to make it so? There is a strong sense that this is pioneering work.

**Contributions welcome.** There is also a strong sense that a lot of relevant expertise and resources exist out there among mycologists, amateur and professional alike. This note is also therefore a cordial invitation to such people. If you have relevant expertise (not just mycological - lots of other skills are also needed, for example to make economic assessments, or to identify threats), or if you have information about these wonderful organisms (about their distribution, their substrata, associated species etc.) in whatever form (reprints, PDF files, database records, photographs - good illustrations of these species are particularly needed) you are most welcome to contribute. This project will be a learning exercise in the practicalities of fungal conservation and, by contributing, individuals will have the opportunity to participate in and benefit from that learning. The Mohamed bin Zayed Species Conservation Fund has kindly provided start-up resources, but they will have been used up long before this job is completed. The work can only be completed if there are volunteers, and every care will be taken to ensure that the contributions made by those volunteers is fully acknowledged. If you are interested in participating, please contact the author at the e-mail address supplied.

—David Minter

Chair, IUCN Species Survival Commission Specialist  
Group for Cup Fungi, Truffles and their Allies  
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## A Point of View: Use of Types While They Still Exist

The situation that we are going to describe here probably is not new for many (and serious) fungal taxonomists: the need to review type specimens to ascertain fungal names.

To perform this task you must ask the loan of a fungal type from a herbarium or an institution. In a few days you will receive the material that you have been waiting on. However, sometimes, when you carefully open the exsiccate envelope, all you see is dust. If you are lucky, you can microscopically find some spores mixed with the dust, which come from ascomata or basidiomata completely degraded or very poorly preserved.

But if the main point of your research is, for example, to analyze macroscopic structures of the type, what would you do now? You could propose a neotype for the species if the type

is totally destroyed or vanished, according to International Code of Nomenclature for Algae, Fungi and Plants. Nevertheless, it will be very difficult to select and propose a neotype if you are not familiar with the species in the first place.

These circumstances are very important because in the next years or decades many type collections are going to be like this. Of course, the preservation status of a dried fungal specimen depends much on the herbarium conditions (rooms with low air humidity, low temperature, free of insects), but even in very good preserving conditions, specimens can deteriorate (they were, after all, once living organisms). It is also the case that not all types have been well preserved at the time they were first incorporated into the herbarium.

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But apart from herbarium room conditions and careless preparation, it is expected that biological material deteriorates with time. Accordingly, we should not wait for the next generations to review herbarium materials. At least with respect to type specimens, we should pay special attention and review these materials as soon as possible, while some exsiccata are still in good condition and taxonomists still exist. As we all know, the number of taxonomists is shrinking every decade.

We have to take advantage of the fact that many types are still in good condition and provide accurate morphological descriptions and good images (photographs and/or illustrations) of these materials. Many original descriptions, especially the oldest ones, are brief and incomplete, often making identification impossible. In the future, if the types are completely degraded, new generations of mycologists

can select neotypes or epitypes based on accurate descriptions that we can do now.

One can also employ types in molecular studies. There is no point in proposing new species simply by comparing the “new” sequence with others from sequence databases. All mycologists are aware that not all described species have their sequences deposited in databases. It is still possible to extract molecular data from many types, so let’s do it while we can. This genetic material can be very precious in future taxonomic works and monographs of species and genera.

Let’s enjoy types while we can!

**ACKNOWLEDGMENTS:** we would like to thank Dr. Richard P. Korf for suggestions and improvement in English grammar.

—**Larissa Trierweiler-Pereira**

Universidade Federal do Rio Grande do Sul, Brazil

—**Andrea I. Romero**

Universidad de Buenos Aires, Argentina

## MSA BUSINESS

### Secretary’s Report

Hello everyone! It’s not too early to start thinking about the 2012 annual meeting that will be held at Yale University, New Haven, CT in July, 2012. The program that is being put together by Jean Lodge and other members of the Program Committee, as described in this issue of *Inoculum*, will be stunning! The awards announcements have already been described in the previous issue of *Inoculum*, so please let your students and coworkers know of opportunities to apply – one of the huge benefits of MSA membership. And if you have colleagues in genetics, medical mycology, and other associated fields who do not see MSA as their primary society, please send them our way! There are also many openings on various MSA committees, so now is an excellent opportunity to get involved with the operation of the society if you have not done so in the past. If you are interested in serving on a committee, please let me know and we shall see where your interests lie and what is a good fit for you and for MSA!

**Council Business:** There was one email poll conducted by Council to approve Dr. Barbara Valent from Kansas State University as the 2012 Karling lecturer.

**New Members:** It is my pleasure to extend a warm welcome to new or returning members. Their membership will be formally approved at the 2012 Annual Business Meeting at Yale University.

**United States** -Jack Cooper, Max Lawrence Elfelt, William Frerichs, Seth Kauppinen, Scott Lagreca, Richard Severin Laufenberg, Nastassja Lee Noell, Amy J. Powell, Jennie Sirota.

**Emeritus Requests:** The following members have requested Emeritus status for 2012. Granting such status will be voted on by the membership at the 2012 Annual Business Meeting. 1) Thomas G. Mitchell, Durham, NC, MSA member for 29 years.



**Jessie Glaeser,**  
**Secretary**  
(Photo by Tom Volk)

2) Akihiko Tsuneda, Nanaimo, British Columbia, Canada, MSA member for 33 years.

**Reminder:** Renewing your MSA membership is easier than ever! Just log in to the MSA website at <http://www.msafungi.org>. There is now an email reminder system available if you have forgotten your MSA user id or password.

**REMINDER: MSA Directory Update:** Is your information up-to-date in the MSA directory? The Society is relying more and more on email to bring you the latest MSA news, awards announcements and other timely information, and our newsletter. To ensure that you receive Society blast emails and the *Inoculum* as soon as it comes out, and so that your colleagues can keep in touch, please check the accuracy of your email address and contact information in the online directory. This can be accessed via our web site at

[www.msafungi.org](http://www.msafungi.org). If you need assistance with updating your membership information, please contact our Association Manager at Allen Press, the always-helpful Kay Rose at [krose@allenpress.com](mailto:krose@allenpress.com).

Please do not hesitate to contact me about MSA Business or any questions that you may have about the Society. **It is not too late to renew your membership for 2011!** In recent years we have suffered an alarming decline in membership and it would be wonderful to reverse this trend. The first step is for everyone who is currently a member to renew for the upcoming year. And don’t forget to recommend MSA to your amateur or professional colleagues who are interested in fungi – be they pathologists, geneticists, ecologists, or people who like to wander around in the woods. There is room in MSA for all!

—**Jessie A. Glaeser**  
MSA Secretary  
[msasec1@yahoo.com](mailto:msasec1@yahoo.com)

# MSA 2012 Meeting at Yale University

The 2012 MSA meeting will be held 15-18 July in the culturally and historically rich city of New Haven, Connecticut, home to Yale University. This location provides a range of accommodations from very economical dormitories and on-campus suites at Yale, to discounted rates at the three-star Omni Hotel in the heart of downtown New Haven, just steps away from the Yale campus. New Haven offers diverse dining, entertainment, and cultural options and has easy access to the shoreline, hiking, and New York City. The meeting theme is “Integrative Fungal Biology: linking disciplines in basic and applied mycology”. The foray will take place on Sunday 15 July at West Rock Ridge State Park just 5 miles from the Yale campus. We have an exciting program on timely and important topics with the following mini-symposia and round tables:

- **The mycologist’s guide to the new International Code of Nomenclature for algae, fungi, and plants.** Co-chairs: Lorelei Norvell, Scott Redhead & Keith Seifert.
- **The science that underpins fungal conservation.** Co-chairs: Paul Cannon & Greg Mueller
- **Phylogenetic, ecological, and functional diversity of fungi.** Co-chairs Brendan Hodkinson & Toby Sprilbe.
- **The fungal DNA barcode and beyond.** Co-chairs: Conrad Schoch & Ning Zhang

- **Fungi in a changing world.** Co-chairs: Erik Hobbie, Linda van Diepen & Jacqueline Mohan.
- **Comparative genomics of fungi.** Co-chairs: Joey Spatafora and Jason Stajich.
- **Using cellular structure and biochemistry as indicators of fungal phylogeny.** Co-chairs: Robby Roberson & Brian Shaw.

## Round Table Discussions

- **Toward a roadmap for fungal conservation research in North America: tools, data needs and collaborations.** Organized by Else Vellinga & Todd Odmundson.
- **1000 Fungal Genome Project.** Organized by Joey Spatafora.

We sincerely hope you will join us at the MSA meetings in 2012. The following meeting webpage links should go ‘live’ in mid-December:

**MSA 2012 Meeting Homepage:** <http://msa2012.net/>

**Registration & housing:** <http://www.regonline.com/Registrar/Checkin.aspx?EventID=1033055>

—D. Jean Lodge

MSA Membership Chair and 2012 Program Chair  
**David Hibbett, Erik Hobbie and Robert Marra**  
Local Arrangements Committee

# Mycological Society of America 2011–2012 Official Roster

## EXECUTIVE COUNCIL

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### Inoculum

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Latin American Mycological Society (ALM)  
Mycological Society of China (MSC)  
Mycological Society of Japan (MSJ)  
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British Mycological Society  
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# MYCOLOGICAL NEWS

## CBS symposium: One Fungus = Which Name?

**Fungi** are now explicitly recognized in the newly named International Code of Nomenclature for Algae, Fungi and Plants. The radical changes to naming pleomorphic fungi resulting from the complete revision of Article 59 will require unprecedented collaboration among mycological taxonomists.

**Linking** DNA sequence data to the right morph; who decides which is the right genus name and species epithet, and based on what criteria?

**Who** will serve on the committees that manage the names in the anamorph-teleomorph database?

**How** will effective publication work in practice now that hard copies are no longer required?

**Now** that registration of taxonomic novelties is mandatory (1 Jan. 2012), names and descriptions need to be linked to all specimens, DNA sequences and strain data.

**What** is the Lists of Protected Names, and do they require sequence data to be so recognized or not?

These fundamental questions in modern fungal taxonomy are the focus of this two day meeting organised by the CBS-KNAW Fungal Biodiversity Centre on the theme "One Fungus = Which Name?".

This symposium is organized by CBS in collaboration with the Nomenclatural Committee for Fungi (of the IBC) and the International Commission on the Taxonomy of Fungi (of the IMA and IUMS), in an effort to communicate accurate information about the new Code, and organize community activities to address the opportunities it provides.

Invited keynote speakers are: **Paul Kirk, Scott Redhead, Lorelei Norvell, Mike Wingfield, Uwe Braun, Keith Seifert, Amy Rossman, John Taylor, Kevin Hyde, XingZhong Liu,** and **David Hawksworth.** The "One Fun-

gus=Which Name" concept will be discussed and applied in various breakout sessions which will be divided based on selected fungal orders, based on the recent Fungal Tree of Life. A database of anamorph-teleomorph genera and their hierarchy will soon be placed on the IMA Website ([www.IMA-Mycology.org](http://www.IMA-Mycology.org)), where mycologists should express their interest in specific orders, to enable us to estimate the size of the various discussion groups for the breakout sessions.

**Date and Venue:** The symposium will be held in Amsterdam from **12–13 April 2012** at the Trippenhuis, Royal Netherlands Academy of Arts and Sciences (KNAW). **Presentations:** The meeting will consist of invited and offered presentations, and posters.

### Book launches

*Taxonomic Manual of the Erysiphales (Powdery Mildews)*

(Uwe Braun and Roger T.A. Cook)

*Atlas of Soil Ascomycetes* (Josep Guarro, Josepa Gené, Alberto M. Stchigel & M. José Figueras)

### International Commission on the Taxonomy of Fungi (ICTF) Council Meeting:

14 April, at CBS (contact [keith.seifert@agr.gc.ca](mailto:keith.seifert@agr.gc.ca) for details)

**IMA Executive Council Meeting:** 14 April, at CBS (contact [p.crous@cbs.knaw.nl](mailto:p.crous@cbs.knaw.nl) for details)

**Registration:** Euro 200,— (includes the lunches, coffee and tea for two days and cocktail party).

Updated information will be posted at [www.cbs.knaw.nl](http://www.cbs.knaw.nl) <<http://www.cbs.knaw.nl>>

## Course Announcement

*Introduction to Food- and Air-Borne Fungi*, 18-22 June 2012, Ottawa, Canada. We are pleased to offer our five day course for mycologists interested in food spoilage, indoor air quality, industrial hygiene, mycotoxins, pharmaceuticals, biodeterioration, etc.. More than 100 mould and yeast species common in indoor air and on food will be examined, including important species of *Penicillium*, *Aspergillus*, *Fusarium*, *Trichoderma*, *Cladosporium*, *Mucor*, *Rhizopus*, *Alternaria* and *Scopulariopsis*. The text for the course is the recently published *Food and Indoor Fungi* by R.A. Samson *et al.*, now in full colour. For more information please contact

Keith Seifert, Eastern Cereal and Oilseed Research Centre, Ottawa, Ontario K1A 0C6, Canada. Email: [keith.seifert@agr.gc.ca](mailto:keith.seifert@agr.gc.ca) or visit the course web site at [www.indoormold.org/courses.htm](http://www.indoormold.org/courses.htm)

### Robert L. "Gil" Gilbertson 1925-2011

Robert Gilbertson, long-time professor and emeritus professor at the University of Arizona, and former president of the MSA, passed away in Tucson in late October. A memorial will appear in *Mycologia*.

## Crossroads of the Americas

In mid July 2011, the Latin American Mycological Association (ALM in Spanish and Portuguese) held its VII International Congress at the University of Costa Rica in San Jose, Costa Rica. This event was attended by approximately 350 people from more than 20 countries around the world, making it the most important activity of the association in 2011. The event took place for the first time in Central America, representing an important incentive for the advancement of mycological research in the region. As such, 39 students from Guatemala, El Salvador, Costa Rica, Panama, Mexico, Brazil and Ecuador were given awards to attend pre-congress workshops on ascomycetes, basidiomycetes and ecological techniques focused on myxomycetes. These workshops were facilitated by 15 professors from Colombia, Venezuela, Cuba, United States, Costa Rica and Mexico. An additional workshop on ethnomycology was facilitated by faculty from Mexico.

The meeting was organized according to subjects such as medical mycology, mycorrhizae, phytopathology, mushroom cultivation, ecology, bioremediation, fungal chemistry and physiology, taxonomy and systematics among others. Using this thematic arrangement, 9 conferences, 13 organized symposia, 14 talk sessions and 256 posters were offered by both invited lecturers and researchers. During the general

meeting of the association Leif Ryvar den, Richard Korf, Rafael Castañeda, Francisco de Diego Calonge and David Minter were awarded the distinction of new Honorary Members of the ALM. These researchers have provided substantial support to the development of mycological studies and local training in Latin America. During the same activity, Dr. Ana Esperanza Franco Molano from the University of Antioquia in Medellin, Colombia was elected as the new President of the ALM for the period 2011-2014.

The success of this meeting was possible thanks to the support from the Costa Rican government. President Laura Chinchilla Miranda declared the event of “national importance for the advancement of science”, and this made possible further support from the Ministry of Science and Technology, the University of Costa Rica, the National Museum of Costa Rica and the Technological Institute of Costa Rica. Additionally, external support from the Mycological Society of America, the International Mycological Association, Cybertruffle and private donors, made the event a total success. The organizing committee of the event expresses deep gratitude to all the people, institutions and professional organizations that made the meeting possible.

*Continued on following page*



**Participants at the VII International Congress of the Latin American Mycological Association.**

The ALM was created in Cuba in 1990 and incorporates all mycologists and specialists in similar branches in Latin America. The VII Latin American Mycological Congress was organized by the board of the ALM for the period 2009-2011: Dr. Julieta Carranza (President), Lic. Milagro Mata (Vicepresident first year), Lic. Loengrin Umaña (Secretary

first year), Lic. Armando Ruiz (Treasurer), Dr. Priscila Chaverri (Scientific Advisor), Dr. Walter Marin (Administrative Advisor), Dr. Carlos Rojas (later Vicepresident) and M.Sc. Melissa Mardones (later Secretary).

—**Julieta Carranza**  
Carlos Rojas  
University of Costa Rica

## ***The Fifth Kingdom and The Genera of Hyphomycetes***

Bryce Kendrick is still updating his CD-ROM of *The Fifth Kingdom* as an ideal adjunct to the teaching of Mycology. It has information about the use of fungi in moulded packing materials and car parts, among many other things, and a completely revised classification using the latest mo-

lecular information (\$25 each for class orders). He also has a number of copies of the 2011 book ‘The Genera of Hyphomycetes’ for sale (\$125 plus postage). You can reach him at [bryce@mycolog.com](mailto:bryce@mycolog.com). web sites: [www.mycolog.com](http://www.mycolog.com) and [www.fungi.ca](http://www.fungi.ca)

## ***Wood-inhabiting Microfungi of New York***

*Wood-inhabiting Microfungi of New York* by CJK Wang, August 2010, is now online: <http://www.esf.edu/nymicrofungi/>. This final research report to the New York Biodiversity Research Institute (of the Nature Conservancy) concerns wood-inhabiting conidial fungi collected in 24 New York counties from 1965 to 2004 and 2008. A small number of collections from Massachusetts, Vermont, Indiana, Ontario, Canada and Wales, UK are included.

A total of 2,034 collections representing 166 genera and 297 species are listed alphabetically in the text. Distribution of each species is presented in table format and in GIS map (total of 175 maps). Keys to species of genera with multiple species were presented. Photomicrographs of already published species are included.

## ***Fungi Treasures***

The English edition of *Fungi Treasures* book will be forthcoming. With a total of 1,198 pages, it is divided into 12 volumes, consisting of descriptions for 250 edible mushroom species, 992 color pictures, and 13 black-and-white illustrations. Each picture has a caption with the mushrooms’ scientific name, English common name, and Chinese com-

mon name, along with contributing author’s and photographer’s name. The website is [http://ucjeps.berkeley.edu/people/chen/fungi\\_treasures/](http://ucjeps.berkeley.edu/people/chen/fungi_treasures/)

—**Mo-Mei Chen**  
University of California, Berkeley  
[momeichen@berkeley.edu](mailto:momeichen@berkeley.edu)

## ***Truffles!***

The winter 2011 issue (vol 4 no.5) of *FUNGI* magazine features truffles and false truffles of North America (and beyond). And as usual, *FUNGI* continues to push the myco-publishing envelope: as an added bonus to subscribers, copies mailed out will be truffle-scented! Besides smelly hypogeous sporocarps, the winter issue will also feature “the most dangerous mushroom (you’ve never heard of)” (hint: it’s a species of *Podostroma*), what happens when pets eat poisonous mushrooms, Else Vellinga’s roundup of myco-literature in *Mycolegium*, mushrooms behind the Iron Curtain, easy cultivation techniques for *Hericium*, Unusual Sightings, and much more. *FUNGI* is running a holiday special offer currently, see our website ([www.fungimag.com](http://www.fungimag.com)) for details and for sneak peeks at all previous and current issues.

—**Britt A. Bunyard**  
Publisher and Editor-in-Chief  
[bbunyard@wi.rr.com](mailto:bbunyard@wi.rr.com)



## Mushroom Research Center in Northern Thailand

The Mushroom Research Center (MRC), located 64 km north of the city of Chiang Mai in northern Thailand, represents an excellent potential base of operations for any mycologist who might want to consider collecting and studying fungi in the tropical forests of this region of SE Asia. The center itself is situated on a tract of land that is largely forested, and a number of different collecting sites exist within easy driving distance. These include dipterocarp forests, mixed forests, pine-dominated forests, bamboo forests, and even a rhododendron forest at the summit of Doi Inthanon, the highest mountain in Thailand and only about four hours driving distance from MRC.

MRC itself consists of a number of chalets that provide housing for visitors, a kitchen and meeting area and a laboratory with plenty of bench space. Arrangements can be made with Mae Fah Luang University to have compound microscopes, stereomicroscopes and mushroom driers available for use in the laboratory. Meals (traditional Thai food) are prepared on site. During the summers of 2010 and 2011, a project (entitled "Studies of fungal biodiversity in northern

Thailand") funded by a grant from NSF was based at MRC. This project involved four students from the United States living and working with a number of Thai students, with whom they collaborated on studies of fungi. Information on this project and images of MRC, various fungi that have been collected by visiting mycologists and scenes of northern Thailand are available on the web site <Thailand.uark.edu>. Mycologists who have carried out mycological studies at MRC, to name a few examples, include Kevin Hyde, Dennis Desjardin, Gaston Guzman, Roy Halling, Eric McKenzie, Jean-Marc Moncalvo, Dirke Stubbe, Larissa Vasilyeva, Mieke Verbeke, Else Vellinga and Philippe Silar.

Chiang Mai can be reached by means of a short flight from Bangkok, which has international connections with airports throughout the world. With sufficient warning, visitors arriving in Chiang Mai can be met at the airport and transported to MRC. For additional information and inquiries relating to a possible visit, contact Kevin Hyde ([kdhyde3@gmail.com](mailto:kdhyde3@gmail.com)) or Steve Stephenson ([slsteph@uark.edu](mailto:slsteph@uark.edu)).

## Charles Drechsler Papers Available Online

One hundred and fifty-five of the collected papers of noted Mycologist Charles Drechsler (1892-1986) are now available electronically on the Smithsonian Institution's Biodiversity Heritage Library database. To access Drechsler's

papers, Google *CiteBank.org*. Click *Home-CiteBank*, an on the Search line type *Charles Drechsler*. Articles may be accessed by title, keywords, journal or date of publication.

## Entertainment: A Song by Norman Dart

Humor, music and nice pictures all together, courtesy of Norman Dart:  
<http://youtu.be/oVXoR5dT6UM>

## MSA AWARDS 2011-2012

### CALL FOR NOMINATIONS AND APPLICATIONS

Deadline: 15<sup>th</sup> February 2012

Please also visit the MSA website at [www.msafungi.org](http://www.msafungi.org) and follow the link to "Awards."

For over 20 years the **Mycological Society of America** has been recognizing excellence in research, teaching and service among its membership by celebrating **Students, Teachers and Researchers**. This is your chance to do something for that promising student or deserving colleague.

*If you don't nominate them, they surely will not receive an award!*

### MSA AWARDS COMMITTEES 2011-2012

#### Mycological Society Distinctions Committee

*Awards administered: Distinguished Mycologist Award, Alexopoulos Prize, Weston Award for Excellence in Teaching*

**Chair:** Dr Alex Weir, SUNY-ESF, Environmental Science and Forestry, 353 Illick Hall, 1 Forest Drive, Syracuse, NY 13210, USA. Voice: (315)470-6791; Fax: (541)737-3573; Email: [alexw@esf.edu](mailto:alexw@esf.edu). **Members:** Walter Sundberg, [sundberg.wj.407@frontier.com](mailto:sundberg.wj.407@frontier.com); Linda Kohn, [linda.kohn@utoronto.ca](mailto:linda.kohn@utoronto.ca); Louise Glass,

[lglass@nature.berkeley.edu](mailto:lglass@nature.berkeley.edu); Francois Lutzoni, [flutzoni@duke.edu](mailto:flutzoni@duke.edu); Joey Spatafora, *ex officio*, Past Chair; Tom Bruns, *ex officio*, Past President.

#### Honorary Awards Committee

*Awards administered: MSA Fellows, Honorary Members*

**Chair:** Dr. Gregory Mueller, Chicago Botanic Garden, 1000 Lake Cook Road, Glencoe, IL 60022, USA. Voice: (847)835-8226; Fax: (847)835-4484; Email: [gmueller@chicagobotanic.org](mailto:gmueller@chicagobotanic.org). **Members:** John Taylor, [jtaylor@berkeley.edu](mailto:jtaylor@berkeley.edu); Mary Palm, [Mary.Palm@aphis.usda.gov](mailto:Mary.Palm@aphis.usda.gov); Tim Baroni, *ex officio*, Past Chair.

#### Student Awards Committee

*Awards administered: MSA Graduate Fellowships (2), NAMA Memorial Fellowship, Backus Award*

**Chair:** Dr. John McKemy, USDA APHIS PDQ, Rm 329, Bldg 0011a, Barc-w, 10300 Baltimore Ave, Beltsville, MD 20705, USA. Voice: (301)504-5280;

Fax: (301)504-5810; Email: [john.mckemy@aphis.usda.gov](mailto:john.mckemy@aphis.usda.gov). **Members:** Imke Schmitt, [imke.schmitt@senckenberg.de](mailto:imke.schmitt@senckenberg.de); Antonio Izzo, [aizzo@elon.edu](mailto:aizzo@elon.edu); Brian Perry, *ex officio*, Past Chair.

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## Mentor Travel Awards Committee

Awards administered: *Mentor Student Travel Awards*

Chair: Dr. Todd Osmundson, Institute of Systematic Botany, The New York Botanical Garden, Bronx, NY 10458-5126, USA. Voice: (503)853-6923; Fax: (503)768-7658; Email: [tosmundson@nybg.org](mailto:tosmundson@nybg.org). Members: Heather Hallen-Adams, [hhallen-adams@unl.edu](mailto:hhallen-adams@unl.edu); Melissa McCormick, [mccormickm@si.edu](mailto:mccormickm@si.edu); Matias Cafaro [matcafa@gmail.com](mailto:matcafa@gmail.com); Peter Kennedy, *ex officio*, Past Chair.

## Research Awards Committee

Awards administered: *Martin-Baker Award, Clark T. Rogerson Student Research Award, Forest Fungal Ecology Research Award, Alexander H. and Helen V. Smith Research Award, John W. Rippon Research Award, Salomon Bartnicki-Garcia Award*

Chair: Dr. Dennis Desjardin, San Francisco State University, Department of Biology, 1600 Holloway Avenue, San Francisco, CA 94132, USA. Voice: (415)338-2439; Fax: (415)338-2295; Email: [ded@sfsu.edu](mailto:ded@sfsu.edu). Members: Teresa Pawlowska, [Tep8@cornell.edu](mailto:Tep8@cornell.edu); Ning Zhang [zhang@aesop.rutgers.edu](mailto:zhang@aesop.rutgers.edu); David Geiser [dgeiser@psu.edu](mailto:dgeiser@psu.edu); Betty Strack, [bstrack@fieldmuseum.org](mailto:bstrack@fieldmuseum.org), Thorsten Lumbsch, *ex officio*, Past Chair

## DISTINGUISHED MYCOLOGIST AWARD

Awarded annually to an individual who has established an outstanding mycological career, this is one of the highest awards bestowed by the MSA and marks a distinguished career. Nominees for the award will be evaluated on the basis of quality, originality, and quantity of their published research, and on the basis of service to the MSA or to the field of mycology in general.

**Application Deadline:** February 15<sup>th</sup>

### Requirements:

- (1) The nominee must be a current member of MSA or eligible for emeritus membership.
- (2) The nominee must have received his or her terminal degree at least twenty years prior to January 1 of the year in which the award is given. There is no requirement for a minimum age or impending or actual retirement. Honorary degrees shall not be considered in determining the time interval.
- (3) An individual may receive the Distinguished Mycologist Award only once.
- (4) Self nomination is not allowed.
- (5) Nominators must be members of the MSA.
- (6) Nominees who are not chosen for the award in the year in which they are nominated will be reconsidered for up to two additional years. The MSA Distinctions Committee Chairperson will request updates of the nominee's materials.

**Documents required:** The nomination folder should contain:  
(1) A nominating letter, including a detailed evaluation of the nominee's outstanding contributions to Mycology.

- (2) A current curriculum vitae, including a list of the nominee's publications.
- (3) Up to five additional letters of support.

**Apply to:** The nominator should a) prepare a single electronic file, preferably in pdf format, containing all of the items listed above and email it as an attachment; b) prepare as much as possible electronically in one email with attachments followed by FAX or hard copy of the non-electronic portions; or c) submit all documents by FAX or mail; and send all to the **Chair of the MSA Distinctions Committee**.

**Note:** The Chair of the Distinctions Committee will appoint ad hoc committee members in place of committee members whose major professor may be nominated for the award. The committee may choose to make more than one award or no award in a given year, if it is appropriate. Presentation of the award, a plaque, will take place at the awards ceremony during the Breakfast and Business Meeting at the annual meeting of the MSA. The recipient will be notified in time to plan to attend the presentation. The name of the winner of the award will be published in the annual meeting program and in *Inoculum*.

## ALEXOPOULOS PRIZE

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

**Application deadline:** February 15<sup>th</sup>

### Requirements:

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

**Documents required:** The nomination folder should contain:

- (1) A nominating letter, including a detailed evaluation of the nominee's contributions to Mycology.
- (2) A current curriculum vitae, including a list of the nominee's publications.
- (3) Reprints of the nominee's 5 most significant papers.
- (4) Up to five additional letters of support.

**Apply to:** The nominator should a) prepare a single electronic file, preferably in pdf format, containing all of the items listed above and email it as an attachment; or b) prepare as much as possible electronically in one email with attachments followed by FAX or hard copy of the non-electronic portions; and send all to the **Chair of the MSA Distinctions Committee**.

**Note:** The award consists of a plaque and a monetary award derived from either the annual interest on the principle deposited in the MSA Alexopoulos Fund or \$1,000, whichever is greater. The committee may choose to make no award in a given year, if it is appropriate. Presentation of the award will take place at the awards ceremony during the Breakfast and Business Meeting at the annual meeting of the MSA. The recipient will be notified in time to plan to attend the presentation. The name of the winner of the award will be published in the annual meeting program and in *Inoculum*.

## WILLIAM H. WESTON AWARD FOR EXCELLENCE IN TEACHING

Awarded annually to an outstanding teacher of mycology at the undergraduate and or graduate levels

**Application deadline:** February 15<sup>th</sup>

### Requirements:

- (1) The nominee must be a current member of the MSA.
- (2) An individual may receive the Weston Award only once.
- (3) Self nomination is not allowed.
- (4) Nominators must be members of the MSA.
- (5) Nominees who are not chosen for the prize in the year in which they are nominated will be reconsidered for up to two additional years. The MSA Distinctions Committee Chairperson will request updates of the nominee's materials.

**Documents required:** The nomination folder should contain:

- (1) A current curriculum vitae, including lists of a) courses taught in mycology, plant pathology or related areas, b) publications related to the teaching of mycology, c) teaching seminars, symposia or workshops given by the nominee to either lay or academic groups and, d) memberships on national, regional, state or local committees, panels, etc., on teaching.
- (2) A list of graduate students with thesis titles, degrees and dates, publications, and current addresses (where known), or explanation for the absence of such.
- (3) A statement from the nominee on teaching philosophy, i.e., what the nominee personally believes it takes to make an excellent teacher, what the nominee is trying to accomplish in teaching mycology, and how various teaching techniques and strategies help to accomplish this goal.
- (4) A list of previous awards or recognition for outstanding teaching.
- (5) Evaluation of the nominee's teaching, including a) solicited and unsolicited

letters from students and colleagues who have taken or audited the nominee's courses, or been supervised by the nominee, b) course evaluation forms (or numerical summaries thereof) and c) any other information documenting teaching excellence.

**Apply to:** The nominator should a) prepare a single electronic file, preferably in pdf format, containing all of the items listed above and email it as an attachment; or b) prepare as much as possible electronically in one email with attachments followed by FAX or hard copy of the non-electronic portions; and send all to the **Chair of the MSA Distinctions Committee**.

**Note:** The committee may choose to make no award in a given year, if it is appropriate. Presentation of the award, a plaque, will take place at the awards ceremony during the Breakfast and Business Meeting of the annual meeting of the MSA. The recipient will be notified in time to plan to attend the presentation. The name of the winner of the award will be published in the annual meeting program and in *Inoculum*.

### MSA FELLOWS

Members of the MSA are encouraged to submit nominations for MSA Fellows to the Chair of the MSA Honorary Awards Committee.

**Application deadline:** February 15<sup>th</sup>

#### Requirements:

- (1) MSA Fellows are to be selected from members who have completed at least 11 years of service after their Ph.D., with no upper limit.
- (2) MSA Fellows are members who are outstanding mycologists on the basis of one or more criteria: a solid record of mycological research, and/or successful teaching and development of teaching materials for mycology, and/or significant service to the Society. This is meant to recognize a core group of mid-career mycological achievers and outstanding MSA volunteers.

**Apply to:** Please submit a one-page overview preferably as a pdf email attachment to the **Chair of the MSA Honorary Awards Committee**.

### HONORARY MEMBERS

Members of the MSA are encouraged to submit nominations for MSA Honorary Members to the Chair of the Honorary Awards Committee.

**Application deadline:** February 15<sup>th</sup>

#### Requirements:

- (1) Honorary members are distinguished senior scientists with a long record of significant contributions to the science of fungal biology and who reside in and work in countries other than the U.S. and Canada. They may or may not be members of MSA.
- (2) To nominate a mycologist who resides outside of the U.S. and Canada for this Award, please submit a brief curriculum vitae and three letters of support, preferably in a single pdf file, to the **Chair of the MSA Honorary Awards Committee**.

### GRADUATE FELLOWSHIPS

Graduate Fellowships: **Two MSA Graduate Fellowships** (\$2,000 each), the **NAMA Memorial Fellowship** (\$2,000), and the **Backus Award** (\$1000) are awarded annually to promising graduate students in mycology. Applicants are evaluated on the basis of their scholastic merit, research ability and promise shown as a mycologist. These fellowships are intended as supplementary grants and may be used by the recipients in any way to further their graduate studies. They are awarded in addition to any fellowship or assistantship support from other sources.

**Application deadline:** February 15<sup>th</sup>

**Requirements:** Applicants must be:

- (1) Student members of the MSA.
- (2) Candidates for the Ph.D.
- (3) Resident during the tenure of the fellowship in a university in Canada or the United States. Previous recipients of these fellowships are not eligible to apply. The NAMA Fellowship comes with the stipulation that the awardee prepare an article for *Mcllvainea*.

### Documents required:

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

**Plan of study** should include the following:

- 1) A 200- or 250-word Abstract;
- 2) An Introduction that explains what you want to do and why it is interesting or important;
- 3) A Methods section that convinces the reader that the project is feasible and describes how the study will be conducted; and
- 4) A Discussion section that explains preliminary results of your study (if any) and their significance. Be concise. Use section headings and double spacing between paragraphs to make your proposal easier to read.

**Apply to:** Send one copy of your completed application, including all items listed above, in electronic format and preferably as a single pdf file, to the Chair of the MSA Student Awards Committee. Confidential letters of reference and transcripts that are not available electronically should be sent, in quadruplicate by regular mail to **Chair of the Student Awards Committee**. **All documents must be in English to be considered.**

**Note:** The Chair will appoint an ad hoc member to replace any Committee member who has a student applying for a fellowship or who otherwise feels a conflict of interest. The successful applicants will be notified upon selection (usually within four weeks of the closing date for nominations) so that they may plan to attend the awards presentation at the annual meeting. Those applicants not notified within this time were not selected as awardees, but all applicants will be notified of their status. The stipends are awarded following confirmation that the applicants meet the requirements for eligibility.

### MENTOR STUDENT TRAVEL AWARDS

**Application deadline:** February 15<sup>th</sup>

#### Requirements:

- (1) Must be MSA student members or past student members who have been awarded the degree within one year of the annual meeting
- (2) Must be presenting a paper or poster at the meeting. Previous recipients may apply again; if applicant numbers are higher than the number of awards available, preference will be given to those who have won the award less than two times.

#### Documents required (four copies):

- 1) A cover letter requesting consideration for an MSA Mentor Student Travel Award. Provide telephone number and, if available, fax and email addresses, and include information on any past Mentor Travel Award(s). If matching funds are available from the applicant's institution, provide an address the committee can use to officially verify the receipt of an award.
- 2) Abstract of paper or poster (note which).
- 3) Curriculum vita.
- 4) A one page description of the research project including an explanation of how this award will further the applicant's research/study.

5) A letter of support from the applicant's major professor addressing the student's abilities and potential and briefly summarizing the student's current research. **All documents must be in English to be considered.** To assist the judging committee in making Mentor "assignments" to award winners, inclusion of comments regarding which Mentor(s) would be most appropriate for the student are welcome but not required.

**Apply to:** Send your application as a single electronic file, preferably in pdf format, containing all documents listed above to the **Chair of the MSA Mentor Travel Awards Committee.**

#### **MARTIN-BAKER AWARD**

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

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

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

**The Award:** As an underlying philosophy, the initiators of this fund required that all of the following criteria be fulfilled for the fund to be awarded: 1) meaningful research conducted by an individual in a small department, who, because of heavy teaching schedules, may find it difficult to attract major grant support 2) a recent (within the past five years) PhD mycologist and 3) research in areas of expertise related to the works of Drs. Martin and Baker and which includes a field component. Recipient must have teaching responsibilities. Grants should not be given for indirect costs, but should be applied directly to research needs. Funds are not to be awarded for travel to meetings, although research-related travel may be supported, if adequately justified. This award is made directly to the individual and is not an institutional award. Recipients of grant awards are expected to submit to the MSA Research Awards Committee a report of their use of grant funds and the results of their research efforts. The latter may be in the form of a reprint of a published work.

**Award amount: \$2000**

**Application deadline:** February 15<sup>th</sup>

**Documents required:**

- (1) Cover letter
- (2) Curriculum vita, with publication list and alternative support sources
- (3) Research proposal not to exceed three single-spaced pages including references and a proposed budget.

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

#### **CLARK T. ROGERSON STUDENT RESEARCH AWARD**

The purpose of this award shall be to support student travel to herbaria and/or field sites to conduct research. Grants are available to undergraduate or graduate students who are members of the Mycological Society of America.

**Award Amount: \$1000**

**Application deadline:** February 15<sup>th</sup>

**Documents required:**

- (1) Cover letter.
- (2) Curriculum vitae.
- (3) A description not to exceed three single-spaced pages of the research project, including an explanation of how this award will further the applicant's research. References and a proposed budget should be included within the three page limit.
- (4) A letter of support from the applicant's major professor or mentor addressing the student's abilities and potential and briefly summarizing the student's research and the appropriateness of the award. Letters of support must be in English to be considered.

**Apply to:** Send all of the items listed above in a single electronic file, preferably in electronic format to the **Chair of the MSA Research Awards Committee.** Confidential letters of reference may be submitted separately and directly from the referee to the Chair. A CD with the PDF file and a hard copy of the application would be appreciated as they may be useful in case there are problems with the electronic file. The application will be considered to have arrived once all electronic files have been received in working order by the Chair. **All documents must be in English to be considered.**

#### **FOREST FUNGAL ECOLOGY RESEARCH AWARD**

This award supports ecological studies of fungal interactions in old growth forests or other unique or endangered ecosystems.

**Award Amount: \$1000**

**Application deadline:** February 15<sup>th</sup>

**Requirements:** Applicants must be students working on their Masters or Ph.D. degrees or be recent recipients of a Ph.D. Honors theses for BA/BS degree students may be considered. Proposals should address innovative approaches to examining fungal systems or interactions of individuals, or groups of fungi, with hosts or substrates in old growth forests or other sensitive ecosystems. Floristic and systematic studies will not be considered.

**Documents required:**

- (1) Cover letter.
- (2) Proposal of not more than 6 single-spaced pages that includes the rationale for the study and the hypotheses to be tested, a detailed description of the site to be studied, methodologies to be used, description of the study design, including specifics on the timeline to complete the proposal (generally one year), and a plan for dissemination of results. References and a generalized budget should be included within the 6 page limit.
- (3) A letter of support from the major professor.
- (4) Copy of the permit or letter requesting a permit if it is needed to work in a sensitive site.

**Apply to:** Send all items listed above in a single electronic file, preferably in pdf format to the **Chair of the MSA Research Awards Committee.** Confidential letters of reference may be submitted separately and directly from the referee to the Chair. A CD with the PDF file and a hard copy of the application would be appreciated as they may be useful in case there are problems with the electronic file. The application will be considered to have arrived once all electronic files have been received in working order by the Chair. **All documents, with the exception of the collecting permit, must be in English to be considered.**

## ALEXANDER H. AND HELEN V. SMITH RESEARCH AWARD

The primary purpose of the fund shall be to encourage the study of specimens of macrofungi — fleshy Basidiomycetes and Ascomycetes — collected by Alexander H. Smith and his associates. These collections and materials relating to them are currently deposited at the University of Michigan Herbarium. The Fund will distribute grants-in-aid to cover all or a significant part of the expense of visiting the Herbarium and working with the collections and materials relating to them.

**Award Amount: \$1200**

**Application deadline:** February 15<sup>th</sup>

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

### Documents required

- 1) A proposal indicating how the study of Alex’s specimens and manuscripts would advance the applicant’s work.
- 2) An estimated budget to cover all or part of the anticipated expenses (e.g. travel, per diem, copying, etc.).
- 3) A current curriculum vitae.

Agreement of the Director of the University of Michigan Herbarium (or its successor as custodian for Alex’s specimens and materials relating to them) to have the potential recipient(s) work there must be obtained before the grant is awarded. In the event there are no suitable applications requesting the utilization of Alex’s collections for floristic or monographic studies, the Awards Committee, at its discretion, may award grants to support field work on the fleshy fungi of North America, or for other types of studies on the fleshy macrofungi of North America. If support for a field project is awarded to an applicant, duplicate/representative collections resulting from the field work are to be deposited at the University of Michigan Herbarium. Prior arrangement should be made with the Director of the Herbarium. Recipients of these grants-in-aid are asked to provide the University of Michigan Herbarium with copies of any publications that result from this support. A summary of activity should be forwarded to the Awards Committee in a timely manner. In compliance with Internal Revenue Service Regulations, the grant recipient must submit all original receipts of expenditures of grant funds to the Treasurer of the MSA. The receipt of documented expenditures by the Treasurer may be necessary before complete funding of the proposal will be made.

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

## JOHN W. RIPPON RESEARCH AWARD

This award supports graduate student research on medically important fungi and is open to M.S. and Ph.D. degree students.

**Award Amount: \$500**

**Application deadline:** February 15<sup>th</sup>

**Requirements:** Applicants must be students working on their Masters or Ph.D. degrees. Student must be a current member of the MSA.

Proposals should address innovative approaches to studying medically important fungi, including those that cause mycoses, mycotoxicosis, mycoallergies, and mycetismus. Studies may be clinical in nature or may encompass various re-

search areas, such as genetics, systematics, genomics, ecology, distribution, epidemiology, mechanisms of pathogenicity, life cycles, or other appropriate areas, as long as the emphasis of the study addresses the medical importance of the fungus.

### Documents required:

- (1) Cover letter
- (2) Current CV, including career plans and a paragraph regarding training for the proposed work.
- (3) Proposal of not more than 5 single-spaced pages that includes the rationale for the study and the hypotheses to be tested, a detailed description of the fungus to be studied, methodologies to be used, description of the study design, including specifics on the time line to complete the proposal (generally one year), and a plan for dissemination of results. Students are encouraged to present their results at a MSA meeting.
- (4) Include description of how the proposed research will benefit the field of medical mycology.
- (5) Two letters of support, one of which is from the major professor.

**Apply to:** Send all items listed above in a single electronic file, preferably in pdf format to the **Chair of the MSA Research Awards Committee**. Confidential letters of reference may be submitted separately and directly from the referee to the Chair. A CD with the PDF file and a hard copy of the application would be appreciated as they may be useful in case there are problems with the electronic file. The application will be considered to have arrived once all electronic files have been received in working order by the Chair. **All documents must be in English to be considered.**

## SALOMON BARTNICKI-GARCIA AWARD

This award honors Dr. Salomon Bartnicki-Garcia and his many contributions to fungal cell biology. The award was established by contributions from several of Dr. Bartnicki-Garcia’s many colleagues and admirers, including a generous donation from Novozymes Inc. Through his over forty years of research in fungal biochemistry, cell structure, and theoretical biology, Professor Bartnicki-Garcia stands as the preeminent contributor to our current understanding of the fungal cell, and he has been a major influence in the careers of numerous young scientists. The goal of this award is to encourage continued participation in MSA by young mycologists who are working in the areas of biochemistry, genetics, and cell biology.

**Award Amount: \$500**

**Application deadline:** February 15<sup>th</sup>

**Requirements:** Graduate and undergraduate students are eligible to apply. Undergraduate applicants must be carrying out senior honors research or its equivalent. Applicants must be members of MSA or must have applied for membership at the time of the award application.

### Documents required:

- (1) A cover letter, which includes a description of the applicant’s career goals.
- (2) The applicant’s curriculum vitae.
- (3) A brief description of the research project, not to exceed one single-spaced page, explaining how the award will be used. Literature citations, if needed, should be included in the single page.
- (4) A letter of support from the applicant’s major professor or mentor. For undergraduates, the letter should address the nature and promise of the applicant’s career goals.

**Apply to:** Confidential letters of support may be sent by the recommender in electronic format directly to the **Chair of the MSA Research Awards Committee**. The remaining items should be sent to the Committee Chair by the applicant, in the form of a single electronic document. **All materials must be in English and must be received in readable form by the application deadline.**

# MYCOLOGIST'S BOOKSHELF

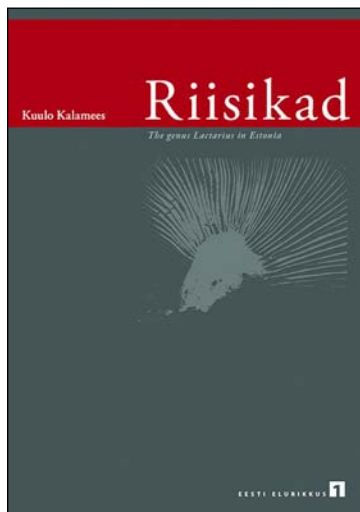
I would like to take this opportunity to introduce myself as the new editor of the "Mycologists' Bookshelf". Please bear with me as I familiarize myself with the process of acquiring review copies, sending them out, and compiling reviews. Needless to say, this issue's list of books in need of review may be shorter than what we've become accustomed to under the expert management of Dr. Amy Rossman, who I wish to thank for all her help and advice these past few months, and for her years of service to the MSA. While I'll be staying abreast of new titles coming out of the major, and not so major, publishing houses, please do not hesitate to contact me ([robert.marra@ct.gov](mailto:robert.marra@ct.gov)) if there is a book that you would like to review, or see reviewed. I'll do my best to obtain a review copy. For this issue we have two reviews (one from Amy!), and a list of 11 new books. My policy will be nearly the same as Amy's: a book goes to the first person requesting it, and once it's been received, its review is due three weeks before the deadline for the next issue of *Inoculum*.

—Bob Marra

## Riisikad. The Genus *Lactarius* in Estonia

### Riisikad. The Genus *Lactarius* in Estonia.

2011. Kuulo Kalamees. Natural History Museum, University of Tartu. Available from Katrin Kolnes ([katrin.kolnes@ut.ee](mailto:katrin.kolnes@ut.ee)). ISBN: 978-9985-4-0619-9. 187 pp. Price: 15 € plus postage.



If you are the kind of mycologist who gets excited when you find latex-*pimmahl* in Estonian—then this book printed in a high quality and sturdy format might be for you. This first book in a series on Estonian biodiversity provides a national mycota of the milk mushrooms, genus *Lactarius* (Russulales). Based on 80 years of collecting, which according to the author dates back to the beginning of formal scientific documentation of mushrooms in Estonia, this work includes 60 species and notes on 22 others that could possibly be found in Estonia. Most of the prose is in Estonian, but essential elements are also presented in English. The book begins with short sections on the phylogenetic placement of *Lactarius*, Estonian common names for species, ecology, and important macroscopic and microscopic features for species identification in Estonian. More or less dichotomous keys are presented in two languages with each species in the keys being associated with thumbnail color images of fruiting bodies, which greatly reduces the need

for thumbing back and forth! The bulk of this book is the species descriptions. Each description includes (in Estonian) diagnostic features, descriptions geared towards macroscopic features along with essential notes on microscopic features, ecology and distribution in Estonia, lists of vouchered herbarium material, and more. Diagnostic features and notes on ecology and distribution are also given in English. Each description is presented with large, beautiful color images of fruiting bodies. Following the detailed descriptions of the 60 species, abbreviated descriptions not associated with images are given for the 22 others that could possibly be found in Estonia. As a bonus, a plastic pocket at the end of the book has a small pocket field guide that includes short descriptions (in Estonian) and small color reproductions of the plates. *Lactarius* experts may lament that there are no plates of microscopic images in the species descriptions, and I will have to let them determine the accuracy of the identification of the included taxa. Overall, this is an excellent book for which the author should be congratulated. I would recommend it to mycological travelers who might need to learn the term *porgan-driisikas* if they want to find *Lactarius deliciosus* in Estonian markets; professors who may be amused by the idea of their students running around shouting *piparriisikas* after tasting *Lactarius piperatus* for the first time; monographers who might need an Estonian/English glossary for mycological terms (if you read this book for example) or ideas on how to present a regional mycota; and *Lactarius* experts, especially those looking to study good images and vouchered material of European species.

—Drew Minnis

Systematic Mycology and Microbiology Laboratory  
Beltsville, MD

[Drew.Minnis@ars.usda.gov](mailto:Drew.Minnis@ars.usda.gov)

## European Species of *Hypocrea* Part II

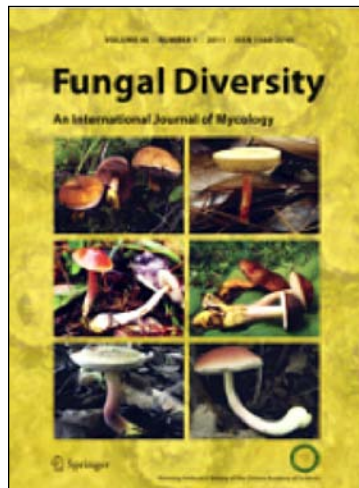
**European Species of *Hypocrea* part II: Species with Hyaline Ascospores.** 2011. Walter Jaklitsch. *Fungal Diversity* 48: 1-250. ISSN 1560-2745.

Appearing as an issue of *Fungal Diversity*, this publication is an outstanding book-length monograph of the 56 hyaline-spored species of the genus *Hypocrea-Trichoderma* known

in Europe. Walter Jaklitsch had previously completed a comprehensive account of the 19 green-spored species of *Hypocrea-Trichoderma* in Europe published as *Studies in Mycology* 63, 2009. These two publications are complementary and provide a comprehensive account of the 75 species of *Hypocrea-Trichoderma* known to produce a hypocrea state in Europe. Each of the species included here is supported by a multigene phylogeny that also provides the outline for the presentation with the species organized into five groups.

Each species is thoroughly described and exquisitely illustrated with one or two full plates of photographs. For example, for *H. neorufa*, the stromata are illustrated in both immature and mature stages, fresh and dried condition, with sections of the stromata and perithecia as well as asci with ascospores both in water and stained with cotton blue. This species even includes a photograph of an insect larva on a fresh stroma. For species with a known asexual state a second plate illustrates colony characteristics along with the *Trichoderma* state showing branching patterns, phialides, ascospores, and chlamydospores. In addition, each species is thoroughly documented with type and multiple specimens examined and cultures deposited in public repositories. Who could ask for anything more?

Although one might think that this relatively conspicuous genus was well known in Europe, about half of the species presented here are new to science thanks to the extensive collecting of the author. Perhaps “hedging his bets” about which generic name will predominate with the move to one name for fungi, new scientific names are included for both the *Hypocrea* and the *Trichoderma* states when they exist. Given that Europe serves as the type locality for many previously described *Hypocrea* species, this publication accounts for many known species, often including a



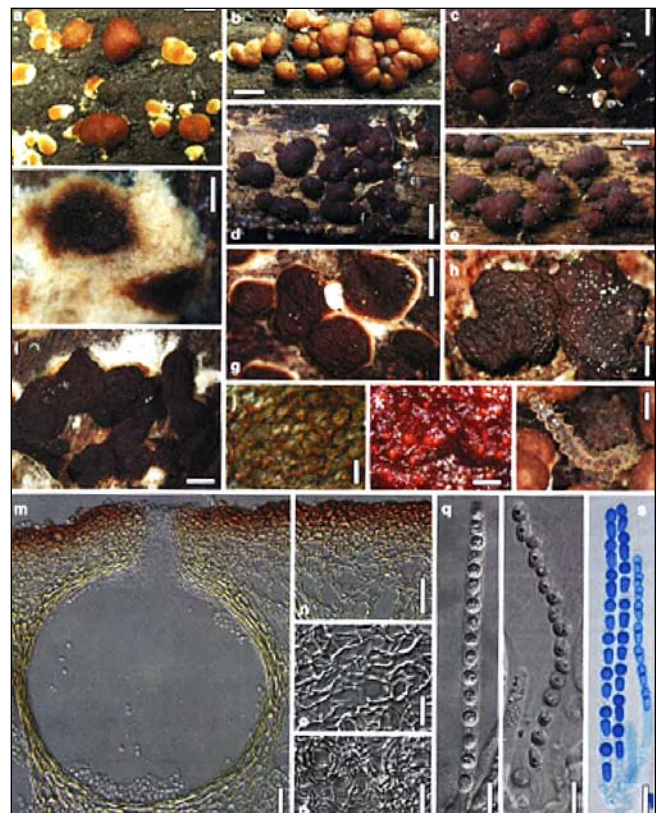
thorough description of the previously unknown asexual state.

A dichotomous key is provided, although the author acknowledges the difficulty of using such a key, including the need to know the anamorph in culture and the fact that “generally gene sequences are more reliable in identification.” However, for those interested in a rough identification or having in hand a host-limited or morphologically unusual species such one with a stipitate stroma, the key will be useful.

In summary, this monograph provides a complete account of species of *Hypocrea* in Europe having hyaline ascospores. It illustrates the need to study the biological diversity of supposedly well-known groups of fungi in supposedly well-studied areas of the world. This ideal product of systematic research that combines morphological and molecular approaches will prove useful over decades to all concerned with these fungi.

—Amy Y. Rossman

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Beltsville, MD  
[Amy.Rossman@ars.usda.gov](mailto:Amy.Rossman@ars.usda.gov)



From Jaklitsch 2011 (Fig 8 from the book)

## Recently Received Books (Reviews Needed)

- **Forest Health: An Integrated Perspective.** 2011. John D. Castello, Stephen A. Teale (eds.). Cambridge University Press, Cambridge, UK. [www.cambridge.org](http://www.cambridge.org). ISBN: 9780521766692. 404 pp, 80 b/w illus. 7 tables. Price: £65.00 (hardcover). *Reviewer assigned.*
- **21<sup>st</sup> Century Guidebook to Fungi.** 2011. David Moore, Geoffrey D. Robson, Anthony P. J. Trinci. Cambridge University Press, Cambridge, UK. [www.cambridge.org](http://www.cambridge.org). ISBN: 9780521186957. 640 pp, 406 b/w illus., 57 tables, plus 1 CD-Audio. Price: £40.00 (paperback). *Review needed.*
- **Yeast Research: An Historical Overview.** 2011. James A. Barnett, Linda Barnett. ASM Press, Washington, DC. [www.asmpress.org](http://www.asmpress.org). ISBN: 978-1-55581-516-5. 392 pp, illus. Price: \$159.95 (hardcover). *Review needed.*
- **Medically Important Fungi: A Guide to Identification, 5<sup>th</sup> ed.** 2011. Davise H. Larone. ASM Press, Washington, DC. [www.asmpress.org](http://www.asmpress.org). ISBN: 978-1-55581-660-5. 508 pp, illus, color plates. Price \$109.95 (hardcover). *Review needed.*
- **Cryptococcus: From Human Pathogen to Model Yeast.** 2010. Joseph Heitman, Thomas R. Kozel, Kyung J. Kwon-Chung, John R. Perfect, Arturo Casadevall (eds). ASM Press, Washington, DC. [www.asmpress.org](http://www.asmpress.org). ISBN: 978-1-55581-501-1. 646 pp, full-color insert, illus. Price: \$169.95 (hardcover). *Review needed.*
- **The Mycota, Vol. 10: Industrial Applications, 2<sup>nd</sup> ed.** 2011. Martin Hofrichter (Ed.). Karl Esser (Series Ed.). Springer-Verlag, Berlin. [service-ny@springer.com](mailto:service-ny@springer.com). ISBN: 978-3-642-11457-1. 485 pp, 152 illus. Price: \$269.00 (hardcover). *Review needed.*
- **The Mycota, Vol. 14: Evolution of Fungi and Fungal-Like Organisms.** 2011. Stefanie Pöggeler, Johannes Wöstemeyer (Eds.). Karl Esser (Series Ed.). Springer-Verlag, Berlin. [service-ny@springer.com](mailto:service-ny@springer.com). ISBN: 978-3-642-19973-8. 345 pp, 60 illus., 10 in color. Price: \$269.00 (hardcover). *Review needed.*
- **Key For Identification of Common Phytophthora Species.** 2011. Jean Beagle Ristaino. APS Press, St. Paul, MN. [www.apsnet.org](http://www.apsnet.org). ISBN: 978-0-89054-397-9. CD-ROM. Price: \$269.00 (single user). *Review needed.*
- **Practical Guide to Turfgrass Fungicides.** 2011. Richard Latin. APS Press, St. Paul, MN. [www.apsnet.org](http://www.apsnet.org). ISBN: 978-0-89054-392-4. 280 pp, 115 images, 29 chemical structures. Price: \$139.95 (hardcover). *Review needed.*
- **Conspectus of World Ethnomycology: Fungi in Ceremonies, Crafts, Diets, Medicines, and Myths.** 2011. Frank M. Dugan. APS Press, St. Paul, MN. [www.apsnet.org](http://www.apsnet.org). ISBN: 978-0-89054-395-5. 160 pp, 18 color images, 9 b/w figures. Price: \$69.96. *Review needed.*
- **Smut Fungi of the World.** 2011. Kálmán Vánky. APS Press, St. Paul, MN. [www.apsnet.org](http://www.apsnet.org). ISBN: 978-0-89054-398-6. 1480 pp, 650 line drawings, 2800 micrographs. Price: \$499.00 (hardcover). *Review needed.*
- **Microbial Biofilms: Current Research and Applications.** 2012. Gavin Lear, Gillian D. Lewis (Eds.). Caister Academic Press, Norfolk, UK. [www.caister.com](http://www.caister.com). 228 pp. Price: GB £159, US \$310 (hardcover). *Review needed.*

### Mycological Society of America – Gift Membership Form

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

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

Name \_\_\_\_\_  
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Please send renewal notices to:

(YOUR name) \_\_\_\_\_  
(YOUR address) \_\_\_\_\_  
Phone \_\_\_\_\_ FAX \_\_\_\_\_ Email \_\_\_\_\_

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

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

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

# MYCOLOGICAL CLASSIFIEDS

## Mold and Fungus Testing and Identification Services

Mold and fungus testing and identification services. Identification of fungi from buildings, animal and plant diseases. Epifluorescent microbial detection in deionized water systems, microfluidic devices, manufactured goods, and medical technology. Biochallenge tests for ink and

other microfluidic materials, testing for fungal resistance of materials. 10% discount for regular and sustaining MSA members. Email [info@pacificanalytical.com](mailto:info@pacificanalytical.com). For more information see [www.pacificanalytical.com](http://www.pacificanalytical.com).

## Biological Control, Biotechnology and Regulatory Services

Center for Regulatory Research, LLC specializes in regulatory permit application services for biological control and biotechnology organisms/products. Let us evaluate your research discoveries for commercial potential and environmental impacts. We also offer assistance with writing proposals for SBIR grant programs (Small Business

Innovation Research) that fund new commercial ventures. Contact Dr. Sue Cohen by email ([sdcohen@regresearch.com](mailto:sdcohen@regresearch.com)) or by phone (612-623-8089). For more information about our company, visit our website at [www.regresearch.com](http://www.regresearch.com).

## MYCOLOGIA – Back Issues

Back issues are one dollar each. Buyer pays shipping. Contact Dr. Eric Boehm, 42 Longacre Drive, Livingston, NJ 07039. Email: [eboehmjr@gmail.com](mailto:eboehmjr@gmail.com)

Year (volume) – issues

1971 (63) – 3,5,6  
1972 (64) – 1,4,5,6,  
1973 (65) – 1,2  
1974 (66) – 4,5,6

1975 (67) – 1-6 (complete)  
1976 (68) – 1,3-6  
1977(69) – 1-6 (complete)  
1978 (70) – 1-6 (complete)  
1979 (71) – 1-6 (complete)  
1980 (72) – 1-6 (complete)  
1981 (73) – 1-6 (complete)  
1982 (74) – 1-6 (complete)  
1983 (75) – 1,2  
1996 (88) – 4  
1998 (90) – 1-6 (complete)  
1999 (91) – 1-6 (complete)

2000 (92) – 1-6 (complete)  
2001 (93) – 1-6 (complete)  
2002 (94) – 1-6 (complete)  
2003 (95) – 1-6 (complete)  
2004 (96) – 1-6 (complete)  
2005 (97) – 1-6 (complete)  
2006 (98) – 1-6 (complete)  
2007 (99) – 1-5  
2008 (100) – 1-6 (complete)  
2009 (101) – 1  
2010 (102) – 1-6 (complete)  
2011 (103) – 1-5...

# MYCOLOGICAL JOBS

## Tenure Track Position - Microbiology

Biological Sciences/Microbiology: The Department of Biological Sciences at Western Illinois University seeks applications for a tenure-track Microbiology position beginning August of 2012. Ph.D. required. We seek a broadly trained microbiologist with expertise in genetics, genomics, and /or microbial bioinformatics. Candidates must demonstrate oral English proficiency requirements evaluated through presentation during the interview and must have teaching experience at least at the graduate assistant level. Preferred candidates will have postdoctoral

experience, peer reviewed publication(s) and grants obtained from competitive granting programs. To view complete job posting and instructions on how to apply, see <http://wiu.edu/employment/faculty-admin.php?id=993>. Review of applications will begin January 30, 2012 and will continue until the position is filled. AA/EO employer. WIU has a non-discrimination policy that includes sex, race, color, sexual orientation, religion, age, marital status, national origin, disability, or veteran status.

# MYCOLOGY ON-LINE

Below is an alphabetical list of websites featured in *Inoculum*. Those wishing to add sites to this directory or to edit addresses should email [dnatvig@gmail.com](mailto:dnatvig@gmail.com). **Unless otherwise notified**, listings will be automatically deleted after one year (at the editors discretion).

- A New Web Page About Tropical Fungi, Hongos Del Parque "El Haya" (58-5)  
**[hongosdelhaya.blogspot.com/](http://hongosdelhaya.blogspot.com/)**
- ASCOFrance.com, a very useful site for illustrations of ascomycetes including anamorphs (accessible in both French and English)  
**[ascofrance.com/?lang=us](http://ascofrance.com/?lang=us)**
- Ascomycota of Sweden  
**[www.umu.se/myconet/asco/indexASCO.html](http://www.umu.se/myconet/asco/indexASCO.html)**
- Basidiomycete Research Group (University of Helsinki, Finland) studies systematics, ecology and evolution of fungi in forest environment.  
**[www.basidio.fi](http://www.basidio.fi)**
- Bibliography of Systematic Mycology  
**[www.speciesfungorum.org/BSM/bsm.htm](http://www.speciesfungorum.org/BSM/bsm.htm)**
- Cold Spring Harbor Laboratory; Meetings & Courses Programs (58-2)  
**[meetings.cshl.edu](http://meetings.cshl.edu)**
- Collection of 800 Pictures of Macro- and Micro-fungi  
**[www.mycolog.com](http://www.mycolog.com)**
- Cordyceps Website  
**[www.mushtech.org](http://www.mushtech.org)**
- Cornell Mushroom Blog (58-1)  
**<http://blog.mycology.cornell.edu/>**
- Cortbase (58-2)  
**[andromeda.botany.gu.se/cortbase.html](http://andromeda.botany.gu.se/cortbase.html)**
- Corticoid Nomenclatural Database (56-2)  
**[www.phyloinformatics.org/](http://www.phyloinformatics.org/)**
- The Cybertruffle internet server for mycology seeks to provide information about fungi from a global standpoint (59-3).  
**[www.cybertruffle.org.uk](http://www.cybertruffle.org.uk)**
- Cyberliber, a digital library for mycology (59-3).  
**[www.cybertruffle.org.uk/cyberliber](http://www.cybertruffle.org.uk/cyberliber)**
- Cybernome provides nomenclatural and taxonomic information about fungi and their associated organisms, with access to over 548,000 records of scientific names (59-3).  
**[www.cybertruffle.org.uk/cybernome](http://www.cybertruffle.org.uk/cybernome)**
- Dictionary of The Fungi Classification  
**[www.indexfungorum.org/names/fundic.asp](http://www.indexfungorum.org/names/fundic.asp)**
- Distribution Maps of Caribbean Fungi (56-2)  
**[www.biodiversity.ac.psiweb.com/carimaps/index.htm](http://www.biodiversity.ac.psiweb.com/carimaps/index.htm)**
- Entomopathogenic Fungal Culture Collection (EFCC)  
**[www.mushtech.org](http://www.mushtech.org)**
- Fungal Environmental Sampling and Informatics Network (58-2)  
**[www.bio.utk.edu/fesin/](http://www.bio.utk.edu/fesin/)**
- Fungi of Ecuador  
**[www.mycokey.com/Ecuador.html](http://www.mycokey.com/Ecuador.html)**
- German Mycological Society DGfM  
**[www.dgfm-ev.de](http://www.dgfm-ev.de)**
- MYCO-LICH facilitates mycology and lichenology studies in Iran.  
**[www.myco-lich.com](http://www.myco-lich.com)**
- Mycologia*  
**[mycologia.org](http://mycologia.org)**
- Humboldt Institute — Located on the eastern coast of Maine, the institute is known for the extensive series of advanced and professional-level natural history seminars it has offered in Maine since 1987, along with ecological restoration seminars and expeditions to the neotropics. It publishes the *Northeastern Naturalist* and *Southeastern Naturalist*, two scholarly, peer-reviewed, natural history science journals.  
**[www.eaglehill.us](http://www.eaglehill.us)**
- Website relating to the taxonomy of the Hysteriaceae & Mytiliniaceae (Pleosporomycetidae, Dothideomycetes, Ascomycota) to facilitate species identification using a set of updated and revised keys based on those first published by Hans Zogg in 1962. 59(4)  
**[www.eboehm.com/](http://www.eboehm.com/)**
- Index of Fungi  
**[www.indexfungorum.org/names/names.asp](http://www.indexfungorum.org/names/names.asp)**
- Interactive Key to *Hypocreales* of Southeastern United States (57-2)  
**[nt.ars-grin.gov/sbmlweb/fungi/keydata.cfm](http://nt.ars-grin.gov/sbmlweb/fungi/keydata.cfm)**
- ISHAM: the International Society for Human and Animal Mycology  
**[www.isham.org](http://www.isham.org)**
- JSTOR (58-3)  
**[jstor.org](http://jstor.org)**
- Libri Fungorum Mycological Publications (58-3)  
**194.203.77.76/LibriFungorum/**
- Mold Testing and Identification Services (58-2)  
**[www.pioneer.net/~microbe/abbeylab.html](http://www.pioneer.net/~microbe/abbeylab.html)**
- McCrone Research Institute is an internationally recognized not-for-profit institute specializing primarily in teaching applied microscopy. 59(4)  
**[www.mcri.org](http://www.mcri.org)**
- Mountain Justice Summer (58-3)  
**[www.MountainJusticeSummer.org](http://www.MountainJusticeSummer.org)**
- Mycology Education Mart where all relevant mycology courses can be posted. **[www2.bio.ku.dk/mycology/courses/](http://www2.bio.ku.dk/mycology/courses/)**
- MycKey  
**[www.mycokey.com](http://www.mycokey.com)**
- The Myconet Classification of the Ascomycota  
**[www.fieldmuseum.org/myconet](http://www.fieldmuseum.org/myconet)**
- New Electronic Journal about mushrooms from Southeast Mexico (61-4)  
**<http://fungavera.blogspot.com>**
- Northeast Mycological Federation (NEMF) foray database (58-2)  
**[www.nemfdata.org](http://www.nemfdata.org)**
- Pacific Northwest Fungi — A peer-reviewed online journal for information on fungal natural history in Alaska, British Columbia, Idaho, Montana, Oregon and Washington, including taxonomy, nomenclature, ecology, and biogeography.  
**[www.pnwfungi.org/](http://www.pnwfungi.org/)**
- Pleurotus* spp.  
**[www.oystermushrooms.net](http://www.oystermushrooms.net)**
- Rare, Endangered or Under-recorded Fungi in Ukraine (56-2)  
**[www.cybertruffle.org.uk/redlists/index.htm](http://www.cybertruffle.org.uk/redlists/index.htm)**
- Registry of Mushrooms in Art  
**[members.cox.net/mushroomsinart/](http://members.cox.net/mushroomsinart/)**
- Robigalia provides information about field observations, published records and reference collection specimens of fungi and their associated organisms, with access to over 685,000 records (59-3).  
**[www.cybertruffle.org.uk/robigalia](http://www.cybertruffle.org.uk/robigalia)**
- Searchable database of culture collection of wood decay fungi (56-6)  
**[www.fpl.fs.fed.us/rwu4501/index.html](http://www.fpl.fs.fed.us/rwu4501/index.html)**
- Small Things Considered — A microbe blog on microbes in general, but carries occasional pieces specifically on fungi.  
**[schaechter.asmblog.org/schaechter/](http://schaechter.asmblog.org/schaechter/)**
- Tree canopy biodiversity project University of Central Missouri (58-4)  
**[faculty.cmsu.edu/myxo/](http://faculty.cmsu.edu/myxo/)**
- Trichomycete site includes monograph, interactive keys, a complete database, world literature, etc. (61-4)  
**[www.nhm.ku.edu/~fungi](http://www.nhm.ku.edu/~fungi)**
- The TRTC Fungarium (58-1)  
**[bbc.botany.utoronto.ca/ROM/TRTCFungarium/home.php](http://bbc.botany.utoronto.ca/ROM/TRTCFungarium/home.php)**
- U.S. National Fungus Collections (BPI)  
Complete Mushroom Specimen Database (57-1)  
**[www.ars.usda.gov/ba/psi/sbml](http://www.ars.usda.gov/ba/psi/sbml)**
- Valhalla provides information about past mycologists, with names, dates of birth and death and, in some cases, biographies and/or portraits (59-3).  
**[www.cybertruffle.org.uk/valhalla](http://www.cybertruffle.org.uk/valhalla)**
- Website for the mycological journal *Mycena* (56-2)  
**[www.mycena.org/index.htm](http://www.mycena.org/index.htm)**
- Wild Mushrooms From Tokyo  
**[www.ne.jp/asahi/mushroom/tokyo/](http://www.ne.jp/asahi/mushroom/tokyo/)**

# CALENDAR OF EVENTS

## NOTE TO MEMBERS:

Those wishing to list upcoming mycological courses, workshops, conventions, symposia, and forays in the Calendar of Events should include complete postal/electronic addresses and submit to *Inoculum* editor Don Natvig at [dnatvig@gmail.com](mailto:dnatvig@gmail.com).

### January 15-20, 2012

Keystone Symposia Meeting  
Fungal Pathogens: From Basic Biology  
to Drug Discovery  
Santa Fe, NM  
<http://www.keystonesymposia.org/Meetings/>

### March 8-11, 2012

*Neurospora* 2012 Meeting  
Asilomar, CA  
<http://www.fgsc.net/>

### March 30 - Apr 2, 2012

11th European Conference on Fungal Genetics  
Marburg, Germany  
<http://www.ecfg.info/>

### April 12-13, 2012

CBS symposium: One Fungus = Which Name?  
<http://www.cbs.knaw.nl/News/NewsDetails.aspx?Rec=70>

### April 27-29, 2012

Mid-Atlantic States Mycological Conference (MASMC)  
University of Tennessee  
Knoxville, Tennessee  
(host: Brandon Matheny, [pmatheny@utk.edu](mailto:pmatheny@utk.edu))

### June 11-15, 2012

18th Congress of the International Society  
of Human and Animal Mycology (ISHAM)  
Berlin, Germany  
<http://www.isham2012.org/index.php>

### July 15-19, 2012

2012 MSA Meeting  
Yale University, New Haven, CT

### August 2-5, 2012

36th Annual Samuel Ristich Foray, NEMF  
East Stroudsburg, PA  
<http://www.nemf.org/files/menu.htm>

### August 4-8, 2012

American Phytopathological Society  
Providence, RI  
<http://www.apsnet.org/Pages/default.aspx>

### Aug 5-10, 2012

Ecological Society of America  
Portland, OR  
<http://www.esa.org/portland/>

### July 31 - Aug 5, 2012

Yeast Genetics and Molecular Biology Meeting  
Princeton University, Princeton, NJ  
<http://www.yeast-meet.org/2012/>

### Sept 3-6, 2012

BMS Fungal Interactions  
Alicante, Spain  
<http://www.britmycolsoc.org.uk/science/scientific-meetings/2012-alicante/>

### Dec 13-16, 2012

NAMA Foray  
Scotts Valley, CA  
<http://www.namyco.org/>

## REMINDER: MSA Directory Update

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

# The Mycological Society of America Sustaining Members 2011

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

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[mward@genencor.com](mailto:mward@genencor.com)

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[info@mycotaxon.com](mailto:info@mycotaxon.com)

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You are encouraged to inform the Membership Committee (D. Jean Lodge, Chair, [djlodge@caribe.net](mailto:djlodge@caribe.net)) of firms or foundations that might be approached about Sustaining Membership in the MSA. Sustaining members have all the rights and privileges of individual members in the MSA and are listed as Sustaining Members in all issues of *Mycologia* and *Inoculum*.

# inoculum

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**An Invitation to Join MSA**

# THE MYCOLOGICAL SOCIETY OF AMERICA

## 2011 MEMBERSHIP FORM

(You may apply for membership on-line at [msafungi.org](http://msafungi.org))

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Mark most appropriate area(s)

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