MSA Auction Donation Request

I look forward to seeing you at the 2016 MSA meeting in Berkeley in August, particularly for the auction to be held at the closing party on August 11th. If you would like to send donated items ahead to Berkeley, please send them to MSA Auction c/o Taylor Lab at the address below.

As you are likely aware, the auction is an important fundraiser for the society; your donation goes directly to the MSA’s general endowment fund and supports all MSA programs. So send us classic mycological books, illustrations and other art work, memorabilia, photographs (incriminating or otherwise compromising is always a plus), knickknacks, gimeracks, tchotchkes and schwag!

Send items to:
MSA Auction
C/o Taylor Lab
Plant and Microbial Biology
111 Koshland Hall
University of California
Berkeley, CA 94720-3120

—David Geiser
Temporary Endowment Chair
Greetings! As I write this column, preparations are in full swing for the annual meeting in Berkeley, CA from August 7-11. The results of the MSA 2016 Spring Ballot were announced and warm congratulations are due to all of our elected officers to MSA Council (Sharon Cantrell – Vice President, Chris Shardl – Treasurer, Lisa Grubisha – Genetics/Molecular Biology Councilor, Heather Hallen-Adams – Cell Biology/Physiology Councilor, Todd Osmundson – Ecology/Pathology Councilor and Else Vellinga – Systematics/Evolution Councilor).

Council Business: Two email polls were approved by MSA Council since my last column. MSA Poll 2016-10: naming of the best graduate student oral presentation - “The Meredith Blackwell Award for Best Student Oral Presentation” was approved by Council and MSA Poll 2016-11: requests for discounted membership from three members in Pakistan (Drs. Najam ul Sehar Afshan, Abdul Rehman Khan Niazi, and Prof. Abdul Nasir Khalid) were approved by Council. The annual Council meeting will be held on Saturday, August 6 from 9 am – 3 pm at the Clark Kerr campus in Berkeley CA. The annual Business Meeting will be on Wednesday, August 10 at a time TBA in the Joseph Wood Krutch Theatre.

New Members: I would like to extend a warm welcome to the following new members who joined the MSA since March. Their membership will be formally approved at the 2016 Annual Business Meeting in Berkeley, CA.

Australia: Giles Hardy
Canada: Jessie Furze, John Krug, Cyrus Taheri, Wenjing Xia
China: Qian Chen, Li-Wei Zhou
Czech Republic: Jan Boroviccka
Denmark: Lene Lange
India: T K Arun Kumar
Japan: Ayaka Minoshima
Republic of Korea: In-Geol Choi, Qian Chen, Joo-Hyun Hong
Netherlands: Sofia Fernandes Gomes, Vincent Merckx, Jorinde Nuytinck
New Zealand: Ian Alexander Dickie
Nigeria: Momodu Foluke Olorunfemi
Panama: Monica Roxana Pachar
Slovakia: Slavomir Adamcik
South Africa: Jameke Aylward
Sweden: Brendan Furneaux
Thailand: Nattawut Runjindamai

Turkey: Mazhar Rafique
United Kingdom: Emma Christine Gilmarthin III

Annual Meeting: This year’s annual meeting, “Sequencing the Fungal Environment: from Populations to Communities,” will be held August 7-11 at the Clark Kerr campus of UC Berkeley in Berkeley, CA. Three fieldtrips are planned which include a Napa Winery, the Watsonville Mushroom Farm, and a forest pathology trip to Pt. Reyes and Tomales Bay State Park. One preconference workshop is planned for Sierran truffle fungi. The meeting site (http://msa2016.berkeley.edu) has information on the meeting schedule and abstracts are published in this issue of Inoculum.

2016 Membership Renewal: Membership dues remain the same as for 2016. If you haven’t yet renewed, please consider doing so today. Your membership and donations support the MSA by funding awards to students and postdoctoral members and, it is this commitment that strengthens the wonderful study of fungi by supporting present and future mycologists. Please feel free to contact myself (sarah.bergemann@mtsu.edu) with any suggestions, complaints, or feedback on the membership renewal process. Taylor Hrabe (thrabe@allenpress.com) is the Association Manager Administrator at Allen Press and can assist with updating membership information in the MSA directory.
**REMINDER: MSA Directory Update**: Did you receive the email notices on the 2016 membership renewal and on the call for nominations? If not, it may be because your email address is not up to date in the MSA directory. The Society relies on email to bring you timely information on MSA news, awards, elections, meetings and other activities. To ensure that you receive those important Society blast emails and *Inoculum*, take a few minutes to confirm the accuracy of your contact information in the online directory. This can be accessed via our website (http://msafungi.org/directory-of-msa-members/), look for the log in to manage directory entries. If you have renewed your membership and don’t find your name in the online directory, contact me for assistance. If you need assistance with updating any of your membership information, contact our Association Manager Administrator at Allen Press, Taylor Hrabe (thrabe@allenpress.com).

—Sarah Bergemann  
sarah.bergemann@mtsu.edu  
MSA Executive Vice President

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**MYCOLOGICAL NEWS**

**Researcher crowdfunds basic science**

There is a crisis in research funding, and grassroots support may hold the answer for the most foundational branches of science.

Dr. Roo Vandegrift, a recent graduate of the doctoral program through the Institute of Ecology and Evolution at the University of Oregon, has launching a crowdfunding effort to attempt to address issues surrounding the systematic defunding of basic sciences in the United States. The campaign is available on Kickstarter from June 22 to July 22, and will fund a project to create and illustrate a guide book to the *Xylaria* fungi (Ascomycota, Xylariales, Xylariaceae) of the cloud forests of Ecuador as a test case for crowdfunding in the basic science of taxonomy. The campaign is available here: [Xylaria of the Cloud Forests of Ecuador](http://kickstarter.com/xylaria).

This project will create one of the most ambitious taxonomic works on *Xylaria* this century, and will certainly be the best illustrated. Moreover, this is a test-case for crowdfunding taxonomic work: **Dr. Vandegrift believes that we, as advocates for science and lovers of the beauty of nature, can help to curb the systematic defunding of basic sciences** like taxonomy and natural history. Projects like this one don’t just breathe a little life into the study of a particular group of organisms, like the *Xylaria*, they send a strong message about the importance of funding basic scientific research, and the need for taxonomy and natural history.

**Brazilian Mycology Meeting: October 3–6, 2016**

The organizing committee of the VIII Congresso Brasileiro de Micologia invites you to Florianópolis for the VIII Congresso Brasileiro de Micologia! You can participate by presenting a poster or oral presentation. Abstract submissions will be open between April 4th and May 15th 2016. The registration period will start on May 1st.

Save the date and please help us spread the word! Check out our webpage (http://micologia2016.paginas.ufsc.br/) and follow us on Facebook and Instagram (MICOLAB.micologia2016).

—Maria Alice Neves  
President of the Organizing Committee

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**UFSC, Florianópolis - SC**
**03-06 Out 2016**

@viiicbmicologia

www.viiicbmy2016.com.br
Miriam Hutchinson is a 5th year PhD student in the Biology program at the University of New Mexico. She discovered mycology quite by accident, while working with Dr. Andrea Porras-Alfaro as a work-study student. During that time, she helped conduct research on how endophytic fungal communities change during a warming experiment. Miriam completed her undergraduate degree at the University of New Mexico in biology in 2009. While there, she was awarded a Presidential scholarship. Upon completion of her Bachelor’s degree, Miriam spent a year working as a lab technician in the lab of Dr. Don Natvig at the University of New Mexico. The following year, she began a PhD with Dr. Natvig. Since beginning her PhD, Miriam has been awarded both Crawford and Springfield scholarships for Graduate students at UNM. She expects to be looking for a post-doctoral research opportunity in 2017.

In Dr. Natvig’s lab, Miriam has been hard at work researching the genetics and ecology of thermophilic fungi. She received a Travel Award from the MSA to attend the 2015 annual meeting, where she presented a poster detailing some of her work entitled: “Experimental and genomic approaches to understanding the reproductive systems of the thermophile Myceliophthora heterothallica and other members of the Chaetomiaceae”. Miriam looked at the mating type genes in several members of this group, including some that are heterothallic, some that are homothallic, and some with unknown mating behavior, in order to determine the arrangement of genes at the mating type locus. She discovered that all examined heterothallic species of mating type a have a fragment of a gene for the other mating type in their mating type region, the function of which is as yet unknown. The results of this research have recently been published in Fungal Genetics and Biology (Hutchinson et al. 2016) under the title “Genetics of mating in members of the Chaetomiaceae as revealed by experimental and genomic characterization of reproduction in Myceliophthora heterothallica”.

Miriam’s favorite thing about MSA 2015 was that it was held jointly with the Botanical Society. Having a combined conference provided an opportunity to be exposed to other areas of biological research. At the conference, Miriam was able to discuss her research with a variety of other interested people, and found that other groups of fungi also possess a similar genetic arrangement. Her next steps in this research area are to determine the function of the mating gene fragment using knock-out techniques.

Miriam considers her most influential mycological idol to be Ralph Emerson (1912-1979), a well-known researcher on thermophilic fungi at UC Berkeley. When not working with her favorite thermophilic fungus (M. heterothallica!), Miriam likes to spend her free time doing yoga, caring for her orchids and succulents, and enjoying the company of her two cats: Ezra and Juno.

—Miriam Hutchinson and Donald J. Nelsen
**Fungi in the News**

*In case you missed it, some news articles about fungi...*

**Hijacked cell division helped fuel rise of fungi**

“The more than 90,000 known species of fungi may owe their abilities to grow, spread, and even cause disease to an ancient virus that hijacked their cell division machinery, researchers report. Over a billion years ago, a viral protein invaded the fungal genome, generating a family of proteins that now play key roles in fungal growth. The research could point to new antifungals that inhibit cell division in fungi but not in their plant or animal hosts.”


**When fungus foes become friends**

“A few modifications in the genome turn a fungal plant pathogen into a potentially beneficial organism.”


**Social wasps promote social behavior in *Saccharomyces* spp.**

“Research scientists demonstrated how it is possible to suppress the resistance of fungi to antifungal drugs. The results of the work can serve as a basis for the development of effective antifungal pharmaceuticals.”

From: [http://www.pnas.org/content/113/8/1971.extract](http://www.pnas.org/content/113/8/1971.extract)

Truffle: A Global History


Reading the first few pages of this attractive little book, I thought “Oh boy, I’ll encounter a blizzard of anthropomorphisms and oversimplifications here.” My science-trained mind rebelled. But the further I read, the more my mind relaxed and the more I enjoyed the book, because it became evident that the author’s engaging but clearly well informed style was not targeted only at the science part of me but also to my interests in history and culture. Simultaneously, Nowak hits the mark for anyone interested in truffles, including those with little biological background. He does it all well, and no matter the readers’ backgrounds, all will finish the last line of text feeling well rewarded and, even better, happy for the experience.

Author Nowak is Associate Director for the Food Studies Program at the Umbria Institute, Perugia. His English is impeccable, and he displays a love for and expertise in all aspects of truffles.

The history of truffles goes back nearly 2,000 years BC along the Euphrates River. These were desert truffles, in later millennia exported from Egypt to the Roman Empire at high prices. I have long wondered why the Romans, living in the midst of a landscape legendary for its production of Tuber melanosporum and T. magnatum, would import relatively bland desert truffles from across the Mediterranean. Nowak tells us why, but informing you here would spoil your surprise when you let him do the telling. The same is true about why truffles didn’t become prized in European cuisine until more than another millennium. Again, Nowak helps us understand what seems beyond understanding in today’s world of extravagant cuisine.

Having covered truffles in history, Nowak turns to truffle culture and commerce, bringing to life and entertainment these potentially dry topics, including ingenious scams to convert low value fungi into high value “truffles.” Native truffles of North America are briefly covered, as is the expansion of Perigord truffle production to the Americas, New Zealand and Australia. The Australian scene is neglected in a single sentence, given that Australia now produces literally tons of Perigords per annum with major export to Asian markets. The low-value Chinese black truffles and their invasion of European and American truffle orchards are reported but without the often overwrought handwringing of those in the truffle industry: “The usual cast of corpulent French chefs and lithe truffle hunters decried the invasive truffle: the former suggested that the mafia was behind the truffles’s importation and that he would be killed if he revealed who cooked with it…”

The last section of “Truffle” includes a brief introduction to identification of the most prized culinary species, recipes, bibliography, websites, opportunities to go truffle hunting, truffle museums and fairs, truffle products.

Readers from beginners to specialists in truffles will enjoy this book. Don’t expect in-depth coverage of any aspect of truffles; that’s not its goal. Rather, think of it as an overview generously peppered with observations and facts that you may not encounter anywhere else. What’s more, it’s fun to read!

—Jim Trappe
Department of Forest Ecosystems and Society
Oregon State University
trappej@oregonstate.edu
Mushrooms of Nepal


Nepal is a land-locked country located along the Himalayan mountain range. It is bordered to the north by China and to the south, east, and west by India. Nepal is home to the Earth’s highest mountain, Mount Everest. There are eight climate zones in Nepal, ranging from tropical (under 1000’) to perpetual snow (above 5000’) where there is no human habitation. These naturally extreme variations in topography and climate occur within short distances, creating a fascinating diversity of plants and fungi.

The first survey of mycoflora in Nepal was conducted in 1850 by the British botanist, Sir Joseph Dalton Hooker. Since then, there have been other mycological investigators of the Himalayan region. One of those investigators is the author of this book, Dr. Mahesh Kumar Adhikari. Dr. Adhikari is a Nepal native who has contributed nearly 200 publications to this book, Dr. Mahesh Kumar Adhikari. Dr. Adhikari is a Nepal native who has contributed nearly 200 publications about the fungi of Nepal. He has also produced several books about medicinal plants of Nepal.

Hinduism, the primary religion in Nepal, profoundly influences its social structure. There are different ethnic groups (also known as ethnic castes) in Nepal. Some ethnic castes are forbidden to consume mushrooms, while other castes are avid foragers that consider mushrooms an integral component of their cultural heritage. Regardless of ethnic caste, the Nepali have abundant knowledge about how to utilize forest products for food, medicine, and various socio-religious purposes.

A unique focus of this book is a 19-page chapter about ethnomycolgy. Some of the topics covered in this chapter include Ayurvedic concepts, Hindu mythology, the sociological impacts of fungi, and also the many traditional uses of fungi in Nepal. The Nepalese commonly use fungi for medicinal applications, natural healing, and to produce fermented beverages for drinking. The ethnomycolgy chapter also indicates how face masks made with polypores are sometimes used in rituals and ceremonies.

The typical Nepalese mushroom collector lacks proper mushroom identification skills. Since ancient times their mushroom knowledge was simply transmitted to successive genera-
tions by word-of-mouth, trial-and-error, folk tales, and legends. Thus, even to this day, indigenous tribes continue to abide by many potentially hazardous beliefs and myths about how to avoid mushroom poisoning. Following these beliefs and myths has led to a considerable number of fatal poisonings. Food insecurity, poverty, lack of education, and poor nutrition, are all major concerns in Nepal. Additionally, in remote areas of Nepal, the death count due to mushroom poisoning is estimated to be much higher than officially reported.

Rural markets occasionally sell wild mushrooms that are identified incorrectly or unfit for human consumption. Dr. Adhikari suggests that the government should intervene and develop regulations to control mushroom sales at local market places. To date, insufficient action has been implemented in order to satisfactorily alleviate these concerns. Another solution suggested for improving the safety of mushroom products is to educate merchants how to cultivate their own edible mushrooms from strain cultures that are verified to be safe. The cultivation of edible mushrooms can also provide a source of financial gains for people living in impoverished areas.

This book treats a wide spectrum of fungal taxa, including gilled mushrooms, boletes, chanterelles, clubs, corals, cordyceps, cups, earthstars, polypores, and more. The author claims there are 1271 species of fungi recorded in Nepal, and some are said to be new to science. However, due to a lack of early formal scientific reports in Hindi, many of the species throughout this book were identified using a compilation of books and field guides from Western literature. Today, with DNA sequencing available, future generations of mycologists may be able to provide the scientific community with a more accurate census of species in Nepal.

There are 240 photographic plates in color and 25 in black and white. Overall the photos are small with an average size of 1-2 inches. Some photos are vintage and low-resolution but they are serviceable. There are three country maps of Nepal; one illustrates the positions of climatic belts, the second depicts the extreme variance in altitudes, and the third illustrates transects and routes taken in the field by previous research mycologists. The transect map suggests that about 75% of the country’s mycota remains under-sampled, under-represented, and underexplored by science.

This book is intended for English-speaking scientists who are interested in the mycological research of the Himalayan Belt. Dr. Adhikari’s work enhances scientific literacy about fungi for his native people, and it also sparks the imaginations of budding scientists around the world. The first edition of this book was published fourteen years ago. In this second edition, most chapters were modified considerably. Some of the new portions added to this second edition include an expanded discussion about ethnomycolgy, over 100 additional photographs, and also the inclusion of 300 additional species. Both books are useful for learning about the mycology of Nepal.
**MYCOLOGICAL CLASSIFIEDS**

**Fifth Kingdom**

The Fifth Kingdom on CD-ROM is now available in an extensively updated form for teaching purposes. Available for class orders at $25 per copy. The book “The Outer Spores - mushrooms of Haida Gwaii” is also available. Check details at: www.mycolog.com

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**MYCOLOGICAL JOBS**

**Positions in Plant and Microbial Biology at Academia Sinica**

The Institute of Plant and Microbial Biology, Academia Sinica, Taipei, Taiwan, is inviting applications for multiple tenure-track research-oriented positions in the area of plant and microbial biology. Applicants should hold a Ph.D. degree and have postdoctoral training. Preference will be given to applicants at the Assistant Research Fellow level (equivalent to Assistant Professor) with expertise in the area of plant-related microbial biology or plant–microbe interactions. Successful candidates will receive excellent starter funds and annual intramural support.

Academia Sinica, the foremost academic institution in Taiwan, comprises 31 world-class research institutes/centers and provides an active research environment including outstanding core facilities. The Institute of Plant and Microbial Biology is a premier research institute focusing on studies of functions of plants and plant-related microbes (http://ipmb.sinica.edu.tw/index.html/?language=en). English is the official language in scientific seminars. Proficiency in Chinese language is not essential but would be helpful in basic communications.

The application folder should include 1) a cover letter, 2) a curriculum vitae, 3) a statement of research accomplishments, 4) future research plans, and 5) reprints of five representative publications. The application folder (in PDF format) and, separately, three letters of recommendation should be sent via email to:

Dr. Erh-Min Lai, Chair of Search Committee (email: emlai@gate.sinica.edu.tw)
Institute of Plant and Microbial Biology, Academia Sinica 128, Sec 2, Academia Rd, Nankang, Taipei, Taiwan 11529

The review of applications will begin on August 15, 2016 and continue until the positions are filled.

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**REMEMBER: MSA Directory Update**

Is your information up-to-date in the MSA directory? The Society is relying more and more on email to bring you the latest MSA news, awards announcements and other timely information, and our newsletter. To ensure that you receive Society blast emails and the Inoculum as soon as it comes out, and so that your colleagues can keep in touch, please check the accuracy of your email address and contact information in the online directory. This can be accessed via our web site at www.msafungi.org. If you need assistance with updating your membership information, or help with your membership log-in ID and password, please contact Allen Press at msa@allenpress.com.
In depth information about the genus Amanita
www.amanitaceae.org
A New Web Page About Tropical Fungi, Hongos Del Parque “El Haya”
(58-5)
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
Bibliography of Systematic Mycology
www.speciesfungorum.org/BSM/bsm.htm
Cold Spring Harbor Laboratory; Meetings & Courses Programs
(58-2)
meetings.cshl.edu
Collection of 800 Pictures of Macro- and Micro-fungi
www.mycolog.com
Cornell Mushroom Blog (58-1)
http://blog.mycology.cornell.edu/
Cortbase (58-2)
andromeda.botany.gu.se/cortbase.html
Corticoid Nomenclatural Database (56-2)
www.phyloinformatics.org/
The Cybertruffle internet server for mycology seeks to provide information about fungi from a global standpoint (59-3).
www.cybertruffle.org.uk
Cyberliber, a digital library for mycology (59-3).
www.cybertruffle.org.uk/cyberliber
Cyberneme provides information about fungi and their associated organisms, with access to over 548,000 records of scientific names (59-3).
www.cybertruffle.org.uk/cyberneme
Dictionary of The Fungi Classification
www.indexfungorum.org/names/fundic.asp
Fungal Environmental Sampling and Informatics Network (58-2)
www.bio.utk.edu/fesin/
German Mycological Society DGfM
www.dgfm-ev.de
Glomeromycota PHYLOGENY
amf-phylogeny.com
International Society for Human and Animal Mycology
www.isham.org
Medical Mycology Journal
www.isham.org
Mycologia
mycologia.org
Humboldt Institute — Located on the eastern coast of Maine, the institute is known for the series of advanced and professional-level natural history seminars it has offered since 1987, along with ecological restoration seminars and expeditions to the neotropics. It publishes the two peer-reviewed journals, Northeastern Naturalist and Southeastern Naturalist.
www.eaglehill.us
Taxonomy of the Hysteriaceae & Mytilinidiaceae (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/
Index of Fungi
www.indexfungorum.org/names/names.asp
Interactive Key to Hypocreales of Southeastern United States (57-2)
nt.ars-grin.gov/sbmlweb/fungi/keydata.cfm
ISHAM: the International Society for Human and Animal Mycology
www.isham.org
JSTOR (58-3)
jstor.org
McCrone Research Institute is an internationally recognized not-for-profit institute specializing primarily in teaching applied microscopy, 59(4)
www.mcrl.org
Mountain Justice Summer (58-3)
www.MountainJusticeSummer.org
Mycology Education Mart where all relevant mycology courses can be posted. www2.bio.ku.dk/mycology/courses/
MycoKey
www.mycokey.com
The Myconet Classification of the Ascomycota
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)
http://www.nemf.org/forays.htm
Pacific Northwest Fungi
www.pnwfungi.org/
Pleurotus spp.
www.oystermushrooms.net
Rare, Endangered or Under-recorded Fungi in Ukraine (56-2)
www.cybertruffle.org.uk/redlists/index.htm
Registry of Mushrooms in Art
http://namyco.org/art_registry/index.html
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
Tree canopy biodiversity project University of Central Missouri (58-4)
http://www.discoverlife.org/nh/tx/Fungi/canopy_biodiversity.html
Trichomycete site includes monograph, interactive keys, a complete database, world literature, etc. (61-4)
www.nhm.ku.edu/~fungi
The TRTC Fungarium (58-1)
bbc.botany.utoronto.ca/ROM/TRTCfungarium/home.php
U.S. National Fungus Collections (BPI) Complete Mushroom Specimen Database (57-1)
www.ars.usda.gov/ba/psi/sbml
Valhalla provides information about past mycologists, with names, dates of birth and death and, in some cases, biographies and/or portraits (59-3).
www.cybertruffle.org.uk/valhalla
Website for the mycological journal Mycena (56-2)
www.mycena.org/index.htm
Wild Mushrooms From Tokyo
www.ne.jp/asahi/mushroom/tokyo/
May 29-June 3, 2016
Fusarium Laboratory Workshop
Pretoria, South Africa
www.fabinet.up.ac.za

Cellular & Molecular Fungal Biology, Gordon Research Conference
Holderness School, Holderness, New Hampshire
https://www.grc.org/programs.aspx?id=11335

July 25-27, 2016
Myxomycete Blitz and Symposium
Gatlinburg, Tennessee, GSMNP

July 30-August 3, 2016
American Phytopathological Society annual meeting
Tampa, Florida
http://www.apsnet.org/meetings/annual/Pages/default.aspx

August 7-11, 2016
Mycological Society of America annual meeting
Berkeley, California
http://ipmb.berkeley.edu/events/msa-2016

October 3-6, 2016
VIII Brazilian Mycological Congress
Universidade Federal de Santa Catarina
Florianópolis, Brazil
http://micologia2016.paginas.ufsc.br/ and Facebook

December 8-11, 2016
Mushrooms of the Redwood Coast Foray (A Benefit for Santa Cruz Mycoflora Project)
Scotts Valley, Santa Cruz, California, USA

July 23-29, 2017
IBC 2017
XIX International Botanical Congress
hosted by The International Association of Botanical and Mycological Societies (IABMS)
Shenzhen, China

July, 2017
Mycological Society of America annual meeting
Athens, Georgia

July 15-21, 2018
International Mycological Congress: IMC11
hosted by the Mycological Society of America
San Juan, Puerto Rico
MSA Sustaining Members 2016

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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wty@novozymes.com

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You are encouraged to inform the Membership Committee (Andy Wilson, Chair, awilson@chicagobotanic.org) 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 is published six times a year in odd-numbered months (January, March, May, July, September, November). Submit copy to the Editor by email as attachments, preferably in MS Word. If you submit pictures, these need to be sent as separate JPGs or GIFs, not embedded in the word document. The Editor reserves the right to edit copy submitted in accordance with the policies of Inoculum and the Council of the Mycological Society of America.

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Gurabo, Puerto Rico 00778
Phone: 787-743-7979
scantrel@suagm.edu

Past President, Jean Lodge
jdlodge@caribe.net

MSA Homepage: msafungi.org

MSA Endowment Funds
Contributions

I wish to contribute $________ to the following named fund(s):

____ Alexopoulos ______ Emerson-Fuller-Whisler ______ Miller
____ Barksdale-Raper ______ Fitzpatrick ______ Thiers
____ Barr ______ Gilbertson ______ Trappe
____ Bigelow ______ Korf ______ Uecker
____ Butler ______ Luttrell ______ Wells
____ Denison

Research Funds
____ Alexander H. and Helen V. Smith Award
____ Myron P. Backus Graduate Award
____ Clark T. Roger Award
____ George W. Martin/Gladys E. Baker Award
____ John Rippon Graduate Research Award
____ Undergraduate Research Award
____ Salomón Bartnicki-Garcia Research Award
____ Robert W. Lichtwardt Student Research Award

Other Funds
____ Constantine J. Alexopoulos Prize
____ John S. Karling Lecture Fund
____ Uncommitted Endowment
____ Other (specify)

I wish to pledge $________ a year for _______ years

_____ to the following fund (s) ____________________________
_____ to some other specified purpose ______________________
_____ to the uncommitted endowment

Name: ________________________________________________
Address:  _______________________________________________
_________________________________________________
___ Check ____ Credit Card (Visa, MC, etc): _____________
Credit Card No. ____________________ Exp. Date: __________
Signature: __________________________________________

Please send this completed form and your contribution to:
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Association Manager
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Lawrence Kansas 66044

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THE MYCOLOGICAL SOCIETY OF AMERICA

2016 MEMBERSHIP FORM
(You may apply for membership online at msa.allenpress.com)

(Please print clearly)

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Univ./Organization __________________________________________________________________________________

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TYPE OF MEMBERSHIP

<table>
<thead>
<tr>
<th>Type</th>
<th>Fee</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><strong>Cyber Memberships</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regular</td>
<td>$90</td>
<td>(Includes on-line access to <em>Mycologia</em> and <em>Inoculum</em>)</td>
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<tr>
<td>Student</td>
<td>$50</td>
<td>(Includes on-line access to <em>Mycologia</em> and <em>Inoculum</em>)</td>
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<tr>
<td>Postdoctoral</td>
<td>$70</td>
<td>(Includes on-line access to <em>Mycologia</em> and <em>Inoculum</em>)</td>
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<tr>
<td>Associate Member</td>
<td>$50</td>
<td>(Does not include online access to <em>Mycologia</em>)</td>
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<tr>
<td>Emeritus Online</td>
<td>$50</td>
<td>(Note: approved Emeritus members pay no dues. This is a new option for Emeritus members who choose online access to <em>Mycologia</em>)</td>
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<tr>
<td>Sustaining</td>
<td>$278</td>
<td>or more</td>
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<tr>
<td>Life</td>
<td>$1,500</td>
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</tr>
<tr>
<td>Family</td>
<td>$90 plus $20 annually for each additional member</td>
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<tr>
<td>Affiliated Society</td>
<td>$90</td>
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</tr>
<tr>
<td>Honorary members</td>
<td>No dues</td>
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Print Subscriptions (in addition to above membership fee)

<table>
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<tr>
<th>Type</th>
<th>Fee</th>
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<tr>
<td>Shipped to a Domestic (USA) destination</td>
<td>$60 annually</td>
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</tr>
<tr>
<td>Shipped to a Non-USA destination</td>
<td>$85 annually</td>
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Discounted Memberships

Members from developing countries may request a 50% reduction in membership dues that includes online only journal access, subject to approval by MSA Council.

AREAS OF INTEREST

Mark most appropriate area(s)

<table>
<thead>
<tr>
<th>Area</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Cell Biology – Physiology</td>
<td>(including cytological, ultrastructural, metabolic regulatory and developmental aspects of cells)</td>
</tr>
<tr>
<td>Ecology – Pathology</td>
<td>(including phytopathology, medical mycology, symbiotic associations, saprobic relationships and community structure/dynamics)</td>
</tr>
<tr>
<td>Genetics – Molecular Biology</td>
<td>(including transmission, population and molecular genetics and molecular mechanisms of gene expression)</td>
</tr>
<tr>
<td>Systematics – Evolution</td>
<td>(including taxonomy, comparative morphology molecular systematics, phylogenetic inference, and population biology)</td>
</tr>
</tbody>
</table>

PAYMENT

_____ CHECK  [Payable to *Mycological Society of America* and drawn in US dollars on a US bank]

_____ CREDIT CARD:   _____ VISA   _____ MASTERCARD

Expiration Date: ____________________________________________

Account No: _______________________________________________

Name as it appears on the card: _______________________________

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