

## Newsletter of the Mycological Society of America

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#### July 15, 2013

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## Outrageous Mid-Atlantic States Mycology Conference!

The 35<sup>th</sup> Annual Mid-Atlantic States Mycology Conference (MASMC) was the largest ever with 86 mycologists attending (see photograph). Held at the USDA ARS Beltsville Agricultural Research Center (BARC) on April 26-28, 2013, in Beltsville, MD, this outstanding meeting was organized by members of the Systematic Mycology & Microbiology Laboratory with collaboration with University of Maryland. Participants came from all compass directions including New Hampshire (Roz Lowen), Ohio (Hannah Reynolds) and South Carolina (Julia Kerrigan). Julia may have come the farthest with Rytas Vilgalys and the Duke University contingent of 14 competing for the largest single group with University of Tennessee led by Brandon Matheny having a mere 12 participants.

This MASMC was dedicated to our good friend Larry Grand, North Carolina State University, with remembrances presented by Steve Shafer, Director, BARC, and Marc Cubeta, NCSU. Marc also served as the keynote speaker providing a talk partly in Swedish about his recent Fulbright exchange to Sweden where he studied rhizoctonia-like mycorrhizae associated with orchids. If interested in applying for a Fulbright, he has some sage advice.

The program consisted of twenty oral presentations and twenty posters all of truly high quality. Awards were given for the top three in each category. For the presentations, first prize went to Alicia Knudsen (Clark University) working with David Hibbett on "Ancestral reconstruction of fruiting body morphology in Gomphales" (see photo), second prize to Joshua Birkebak (University of Tennessee) with Brandon Matheny on "Using fungal genera to assess general mixed Yule-coalescent (GMYC) model for species delimitation" and third prize to William Lane (Hood College) with William Bruckart and Farivar Eskandari on "First report of *Bipolaris microstegii* in Maryland causing leaf necrosis of Japanese stiltgrass (*Microstegium vimineum*)". First prize for the posters went to Serenella Linares (University of Maryland) with four other authors including MASMC participants Yilmaz Balci and Priscila Chaverri on "Microbial diversity associated with Saharan dust storms: A tale of emerging pathogens", second prize to Lily Cornelius (Eleanor Roosevelt High School/USDA-ARS) and five MASMC participants on "Linking fungal community diversity, host genotype and the environment in the boxwood rhizosphere", and third prize to Bonnie To (Eleanor Roosevelt High School/USDA-ARS) and seven co-authors on "Phylogeny and microscopic characteristics in boxwood".

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**Participants at the 35th Annual Mid-Atlantic States Mycology Conference held on April 27, 2013, in Beltsville, Maryland**

Tours of the U.S. National Fungus Collections (BPI) were given by Collections Manager Shannon Dominick and, as usual, the most popular item in the Collections was the hat made of *Fomes fomentarius*. Megan Romberg presented a crowd sourcing opportunity to review data on scanned cards reporting fungi on plant hosts for which there were a number of volunteers (thank you!).

The MASMC dinner and beer fest was hosted by Priscila Chaverri whose house extended from the living and dining room out onto the deck, backyard and beyond. The usual Beltsville beer was obtained by bier meister (or friend of the bier meister) Steve Rehner.

At the Foray on Sunday morning the unofficial prize for best fungus collected was given for the lone *Cordyceps* fruiting body found by Kathleen Burchardt (North Carolina State University) and immediately cultured by Ryan Kepler (see photo). The many trained eyes produced about ten morels along with a potpourri of mushroomy things and assorted polypores and ascomycetes.

This one-day meeting provided stimulating a dose of mycology with a chance to communicate with colleagues. Many thanks to all who came!

—Amy Rossman  
Systematic Mycology & Microbiology  
Laboratory  
USDA-ARS  
Beltsville, MD 20705



**Prizewinner Alicia Knudson with friends Rachel Martin, Alexis Carlson and Romina Gazis from Clark University**



**Dinner party at MASMC with Renne Johansen, Lindsay Becker, Ryan Kepler and Cesar Herrera**

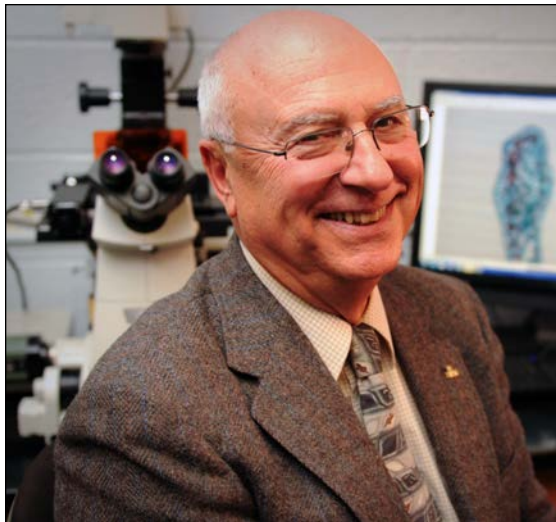
## Tribute to Larry F. Grand 1940-2013

Our beloved friend, colleague and mentor, Larry Grand, passed away suddenly on March 14, 2013. We celebrate him for his contributions to mycology and the amazing friendship he extended to many of us.

Dr. Larry Frank Grand was born in Lock Haven, Pennsylvania on December 30, 1940. He received his Bachelor and Master of Science degrees in Forestry from Pennsylvania State University in 1962 and 1964. While working summers for the Pennsylvania Bureau of Forestry, Larry realized his passion for forest pathology and mycology. He completed the requirements for his Ph.D. degree in Plant Pathology at Washington State University in 1967 under the direction of the eminent mycologist Dr. Jack Rogers. Later that year, Larry accepted a position as an assistant professor at North Carolina State University with a joint appointment in the Departments of Plant Pathology and Forestry. Larry quickly rose through the ranks to professor in 1976, served as interim department head from 1990 to 1992 and retired after 45 years of dedicated service to the profession and university.

Dr. Grand's research program focused primarily on ectomycorrhizal fungi, *Phytophthora* root rot of Fraser fir, and understanding the biodiversity of wood decay fungi in North Carolina ecosystems. Along with his graduate students, Larry investigated the role of plantation fertilization on growth of pine in relation to ectomycorrhizae species diversity and fungal development in pine plantations and natural habitats. He and his students also studied the diversity and role of ectomycorrhizal fungi in mitigating the impact of *Phytophthora* root rot of Fraser fir in Christmas tree plantations. They also assessed disease loss from *Phytophthora* root rot and identified the species of *Phytophthora* involved in disease development. Larry's greatest passion in research, however, was the study of fungi particularly those causing wood decay. As part of the All Taxa Biodiversity Inventory for the Great Smoky Mountain National Park, he and his students made numerous forays to collect and identify wood decay fungi in the Park. As a result a series of papers on the biogeography and hosts of poroid wood decay fungi in North Carolina were published. This research was also expanded to piedmont and maritime forests in North Carolina through the North Carolina Parks and Recreation Areas program of biological inventory in which he collected and identified fungi in all groups.

Dr. Grand had a remarkable career and impact as a teacher and mentor both in and out of the classroom. As an



advisor, Larry counseled numerous undergraduate students in the biological sciences many of whom completed internships with him on various mycological topics. He maintained an 'open door policy' welcoming both undergraduate and graduate students whenever they sought his counsel. Larry taught numerous undergraduate courses including Forest Pathology, Introduction to Mycology, and Kingdom of Fungi as well as graduate courses on Advanced Mycology, Colloquium and Plant Disease Diagnosis. In the classroom, Larry

was a master teacher, able to reach students of all different learning levels and styles. His genuine enthusiasm in lecturing and counseling students was a hallmark of his career. Students have always appreciated his effort to provide well-documented teaching aids for lectures and labs along with well-delivered lectures. As his teaching accomplishments continued he was named Alumni Distinguished Undergraduate Professor. His colleagues' appreciation of his exemplary teaching ability also was recognized by receipt of the William H. Weston Award for Teaching Excellence from the Mycological Society of America in 1998 and the Excellence in Teaching Award from the America Phytopathological Society in 2002. At North Carolina State University, Larry taught more than 1500 undergraduate students and served as an advisor, co-advisor, or committee member for more than 50 graduate students.

In 1972, Larry established the mycological herbarium at North Carolina State University and served as curator for the collection for more than 40 years. The mycological herbarium consists primarily of wood decay and plant pathogenic fungi collected from ecologically diverse and unique habitats located in the Southern Appalachian Mountains, Nags Head Woods, the largest contiguous maritime forest on a barrier island in the eastern US and the last remaining longleaf pine ecosystem in North Carolina. Internet access to the collection is available for use by educators and scientists at <http://www.cals.ncsu.edu/fungusherbarium>. The herbarium was named in honor of Dr. Larry F. Grand in November 2011. To view the complete obituary and add a message to the guest book to share your condolences with Dr. Grand's family please go to the following website; <http://www.legacy.com/guestbooks/newsobserver/guestbook.aspx?n=larry-grand&pid=163664384&cid=gb-srchres>

—Mike Benson  
—Marc A. Cubeta

# MSA BUSINESS

## Executive Vice President's Report

Greetings! As I write this column in mid-May, classes at WSU have just ended, morel season is underway, preparations for the annual meeting with APS in Austin, TX are in full swing, and the MSA Spring 2013 election results are in.

**Council Business:** The MSA Executive Council followed up on unfinished business from the mid-year meeting via a phone conference held on May 3. Agenda items included an updated report on finances by Treasurer Cubeta (see **Treasurer's Report** in this issue of *Inoculum*), and updates on Mycologia financial status by Managing Editor Snetselaar. President-Elect Spatafora and Vice President Lodge provided updates on progress towards identifying successors to Managing Editor Snetselaar and Editor-in-Chief Stone, whose terms officially end in 2014. Four official Council email polls were completed since my April column. The polls included approval of requests for Emeritus status (see **Emeritus Members**, below), approval of new Associate Editor Yu-Ming Ju, and approval of nominations for Honorary and MSA Fellows. Newly approved Honorary Members and MSA Fellows will be formally presented to the membership at the Business Meeting and Awards Ceremony (see **Annual Meeting Update** below).

**Emeritus Members:** Dr. Reinhard Agerer's request for Emeritus status was approved by Council vote on March 21, 2013. Dr. Agerer is a Professor for Systematic Mycology in the Institute for Systematic Botany, Munich, Germany, and has been a member of MSA since 1979. Among Dr. Agerer's many important contributions to fungal systematics and ecology is the "*Colour Atlas of Ectomycorrhizae*." Dr. Agerer was nominated and approved as an Honorary Member of MSA in 2012. Council has recommended by ballot to put this request before the membership for vote at the 2013 Annual Business Meeting.

**New Members:** I would like to extend a warm welcome to the following new and returning members. Their membership will be formally approved at the 2013 Annual Business Meeting in Austin, TX.

**Australia:** Vera Andjic

**Brazil:** Fernanda Karstedt

**Canada:** Lucy Xie



Lori Carris,  
Executive Vice President

**China:** Yanling Ji

**Colombia:** Tatiana Sanjuan

**Ecuador:** Maria Ordonez

**Estonia:** Triin Varvas

**Germany:** Olaf Hering

**Greece:** Athanasios Damialis

**Italy:** Luca Baldazzi

**Japan:** Tadahiko Matsumoto

**Mexico:** Carlos Alpuche-Gonzalez, Diego Delgado-Alvarez, Dolores Gonzalez, Yadira Hernandez-Alvarez, Marcos Paolinelli Sr., Arianne Ramirez

**New Zealand:** Renee Bronwyn Johansen

**Switzerland:** Bruce McDonald

**United States:** Catharine A. Adams, Carrie Andrew, Kayla R. Arendt, William C. Bailey, Mehmet Balkan, Timothy Berry, Deep-

ak Bokati, Jeff. J. Chieppa, Gerald M. Cobian, Greg Deilulio, Sheng-Li Ding, Jason K. Downing, Elizabeth Entwistle, Kristi Ann Fenstermacher, Michael T. Gajdeczka, Maria Garcia, William F. Golloway, Arthur C. Grupe Jr., Andrew Hart, Yu-Ling Huang, Teresa Hughes, Richard Jacob, Anne Kakouridis, Matthew Kasson, Rachel Anne Koch, Linas Kudzma, Brian Looney, Katalin Malcolm, Mariah McDonald, Marisa N. Meador, Edgar M. Medina, Meghan Midgley, Ehren Mohler, Bonnie Ownley, Janet Pettegrew, Otto Miettinen, Richard P. Phillips, Michael Shelton, Benjamin Sikes, Jean C. Stutz, Steve Wang, Katherine Winsett, Alena Oliver, Juan Pan, Ryan Rebozo, Ivonne M. Rivera, Aaron Robinson, Adriana L. Romero-Olivares, Katrina Sandona, Zachary S. Schultzhaus, Tatiana Shymanovich, Camille Truong, Nathan R. Thorp, Jason E. Tuter, Stephanie M. Vandruff, Andrea Vu, Serena Y. Zhao

**Spring Ballot:** A BIG thanks to all the candidates who agreed to be on the Spring 2013 ballot, and to all of MSA members who cast a vote in this important election. See "**Results of the Spring 2013 Ballot**" published in this issue of *Inoculum* for a list of our new officers and councilors, as well as changes to the MSA By-laws that were approved by member vote. The new officers and councilors will begin their terms at the conclusion of the annual meeting. You can find an updated version of the MSA Constitution and By-laws on the MSA website.

**Annual Meeting Update:** Did you know that Austin, Texas is home to North America's largest urban colony of

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bats? The Ann W. Richard's Congress Avenue Bridge is the spring and summer home to more than 750,000 Mexican free-tailed bats, and late summer is the best time to see them. This year's meeting with the American Phytopathological Society (August 10-14) will be held at the Austin Convention Center, conveniently located just a few blocks from the Congress Avenue Bridge. Deadlines for abstract submission and advanced registration are now past, but members who register before July 8 will save \$45 on the late and onsite registration fee. In planning your trip, don't forget that the MSA Foray is on Saturday morning (August 10), the MSA Business Meeting and Awards Ceremony is Sunday, 10:30-12:00 pm, and the MSA Auction, Social and Awards is Wednesday evening (Aug. 14) from 5-7 pm, just before the "Final Roundup." For more information, see the article on the MSA 2013 Auction in this issue of *Inoculum* and check the APS and MSA meeting site for meeting updates:

<http://www.apsnet.org/meetings/annual/Pages/default.aspx>

**Important Announcement:** As part of the Spring 2013 elections, members approved a change in MSA By-Laws to conduct all Society business, including voting, electronically. This means that paper ballots for all future elections will be sent out only upon request by contacting me by phone (509-335-3733), email ([carris@wsu.edu](mailto:carris@wsu.edu)) or mail (P.O. Box 646430, Washington State University, Pullman WA 99164-6430).

**REMINDER: MSA Directory Update:** With the newly approved changes to the MSA By-laws, now is a great time to make sure your address, phone, email, and membership status are up-to-date. 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*, please check the accuracy of your contact information in the online directory. This can be accessed via our website ([www.msa.org](http://www.msa.org))—look for the "Member Services" box in the bottom left corner of the page. If you have renewed your membership and don't find your name in the online directory, contact me for assistance. As some members discovered while trying to register for the 2013 meeting, up-to-date membership status is important. If you need assistance with updating any of your membership information, contact our Association Manager at Allen Press, Kay Rose ([kröse@allenpress.com](mailto:kröse@allenpress.com)).

Feel free to contact me about MSA business, or any other questions you have about the Society. If I don't know the answer, I can generally find someone who does. And don't forget to recommend MSA to your colleagues, and particularly to students and postdoctoral associates who are interested in fungi. Remember, there is now a postdoctoral member rate!

—Lori Carris  
[carris@wsu.edu](mailto:carris@wsu.edu)  
MSA Executive Vice President

## Results of the Spring 2013 MSA Ballot

The Spring 2013 ballot included elections for MSA Vice President, Treasurer, and four Councilors, and two proposed changes to MSA By-laws relating to print subscription rates and electronic mail and balloting. Email notice of electronic balloting was sent out on March 25 and four reminders were sent to members who had not yet voted. Paper ballots were sent out to members without a valid email address on file. The ballot closed midnight (Central Time) on May 6. Among 919 eligible voters, 395 (43%) voted. No paper ballots were returned by mail. The results of the Spring Ballot are summarized as follows:

Vice President:

**Kerry O'Donnell**

Treasurer (3-year term):

**Sharon A. Cantrell**

Councilor, Cell Biology & Physiology (2-year term):

**Brian D. Shaw**

Councilor, Genetics & Molecular Biology (2-year term):

**Timothy James**

Councilor, Systematics & Evolution (2-year term):

**Andy Miller**

Councilor, Ecology & Pathology (2-year term):

**Daniel Lindner**

**By-Laws Amendment Change 1.** Proposed change to delete print subscription rates. Background: The suggested rates for 2013 for optional purchase of print subscriptions to *Mycologia* was accidentally included as a change in the By-Laws in the 2012 Fall Ballot. The wording related to charges for print copies of the journal therefore needs to be deleted from the revised By-Laws.

Approved: 98.2%

Disapproved: 1.8

**By-Laws Amendment Change 2.** Proposed change designating electronic mail and balloting as the primary means of conducting society business, with changes in Articles II and X. Background: The Constitution and By-Laws variously specify mail and/or email communication. By defining electronic communication as 'mail,' we can simplify wording in these documents, and voting in MSA elections will be electronic.

Approved: 98.7%

Disapproved: 1.3%

# MSA Treasurer's Updated Mid-Year Report, May 2013

## Meeting, Awards and Symposia finances

For the 2012 annual meeting at the Yale Conference Services Center, in New Haven, CT, \$6000 was paid out for 12 Mentor Student Travel Awards at \$500 each (Alexopoulos, Barr-Bigelow, Bigelow, Butler, Denison, Fitzpatrick, Gilbertson, Korf, Kramer, Luttrell, Miller, and Trappe) from the Wells Fargo Endowment account. A total of \$14,200 was paid out (\$7,200 from the Wells Fargo endowment account, \$5,000 from Wells Fargo Operating account; and \$2,000 from the USB operating account) for 11 research awards (Alexopoulos Prize \$1,000; Backus \$1,000; Bartnicki-Garcia \$500; Forest Fungal Ecology \$1,000; A.H. and H.V. Smith \$1,200; Martin-Baker \$2,000; NAMA \$2,000; MSA Graduate Fellowship (\$4,000 for two awards at \$2,000 each); Rippon \$500; and Rogerson Awards \$1,000). Paul Stamets contributed \$1000 for the Forest Fungal Ecology Award that was given in 2012 and \$3,100 is currently available to provide this award in the future. Judith McCandless of the North American Mycological Association (NAMA) contributed \$2,000 for the NAMA Award that was given in 2012. A total of \$2690.93 was paid for expenses for the Karling lecture (\$2190.93 from the USB operating account and \$500 for an honorarium from the Wells Fargo endowment account). Additional costs associated with the annual meeting include; \$800 for student poster and paper awards; \$280.52 for student supply expenses, \$50 for foray permit, \$841.51 to reimburse travel for G. Herbert to attend the Mycologia editorial board meeting, \$357.30 to support travel of the executive vice-president to the meeting, \$1,387.97 for meeting supplies, \$10,135.23 to pay The University of New Hampshire for developing the meeting website, \$459 to purchase a Tenants' and Users' Liability Insurance Policy to comply with the Yale University facility and service use agreement contract, and \$11,429.86 to reimburse 10 symposium speakers. A portion of symposia expenses was offset by a \$3,000 donation to MSA from Roche. The auction generated \$8119.46 for the uncommitted endowment and \$27,514.02 was returned from Yale University to MSA for unencumbered expenses associated with the annual meeting. The Society also received back payment for unencumbered expenses associated with the annual meeting in Fairbanks, AK in the amount of \$40,270.60.

Based on the performance of our interest-bearing accounts, the treasurer recommends that \$6,000 be allocated for the Mentor Student Travel Awards (12 at \$500 each for Alexopoulos, Barr/Bigelow, Bigelow, Butler, Denison, Fitzpatrick, Gilbertson, Korf, Kramer, Luttrell, Miller, and Trappe); Martin-Baker Award at \$2,000; C.T. Rogerson Award at \$1,000; Bartnicki-Garcia Award at \$500. The amounts for the following awards will remain the same; J.W. Rippon Research Award (\$500); C.J. Alexopoulos Prize (\$1,000), Backus Award (\$1,000), and A.H. and H.V. Smith Research Award (\$1,200), Forest Fungal Ecology Award (\$1,000); MSA Graduate Fellowships (\$4,000 for two awards), and the MSA Graduate Student Research Prizes (\$800 for four awards). These recommendations are consistent with the amounts advertised on our website. The NAMA Award (\$2,000) is dependent upon continued support by Judith McCandless at NAMA. The treasurer also recommends that funds of \$500 be allocated to each of the seven MSA committees (total \$3500) to be used as seed money for symposia, or to support outreach to the general MSA membership via roundtables or workshops.

## Publication finances

The editorial assistant salary continues to be paid to The University of New Mexico and reflect payments of \$57,445.41 for this fiscal year. The Society paid out \$318.66 to provide internet services associated with the editorial office and \$1,794 to purchase a computer, printer and scanner for Mycologia editorial assistant J. M. Donahue; and \$275 for CrossRef membership dues. Publication costs were \$180524.28 to pay for the Inoculum newsletter (\$6342.45), management fees (\$15276.26) and Mycologia (\$158,905.57) related expenses.

**Table 1. Publication expenses incurred in FY2010, FY2011, FY2012 and FY2013 to 30 March 2013.**

Publication Expenses	FY 2013 to 02 May	FY2012	FY2011	FY2010
<b>Total publication costs (Inoculum, Allen Management and Mycologia)</b>	<b>\$180,524.28</b>	<b>\$253,897.37</b>	<b>\$355,139.75</b>	<b>\$256,774.40</b>
<b>Inoculum</b>	<b>6342.45</b>	<b>6332.29</b>	<b>6199.53</b>	<b>6187.23</b>
Management fees	114.59	3044.83	1588.11	1044.99
author billing	397.54	607.30	1949.13	716.34
back issue mailing	492.97	2700.12	3376.12	2404.88
back issue storage	174.08	1299.47	569.96	320.26
base mgmt. fees	13,288.50	27629.55	25977.61	28938.26
Renewal notices, ballots	808.58	980.51	1975.96	3232
<b>TOTAL MANAGEMENT</b>	<b>15276.26</b>	<b>36261.78</b>	<b>35436.89</b>	<b>36656.73</b>
Mycologia printing	83,705.77	115949.95	165340.50	158177
Allen Track	3708.64	5725	6370	5041.94
Editorial office	57,445.41	65331.10	108313.58	22706
Online Publication	14045.75	24297.25	33479.25	25949
Reprints	0	0	0	516.5
Author reimbursement	0	0	0	1600
<b>TOTAL MYCOLOGIA</b>	<b>158,905.57</b>	<b>211,303.30</b>	<b>313,503.33</b>	<b>213,930.44</b>
# of issues per year	3 issues	5 issues	7 issues	6 issues

## Membership

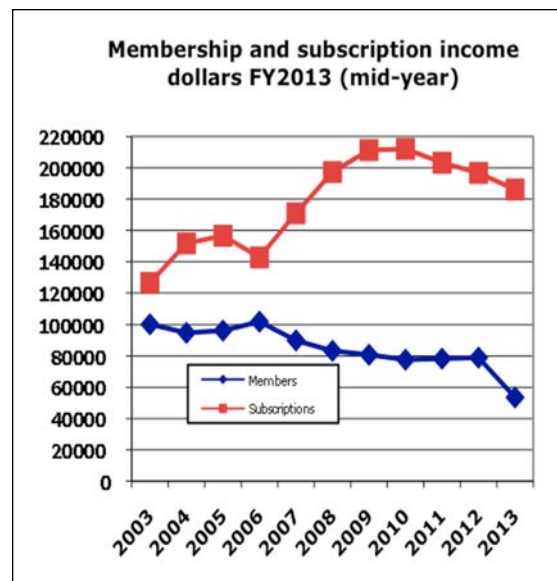
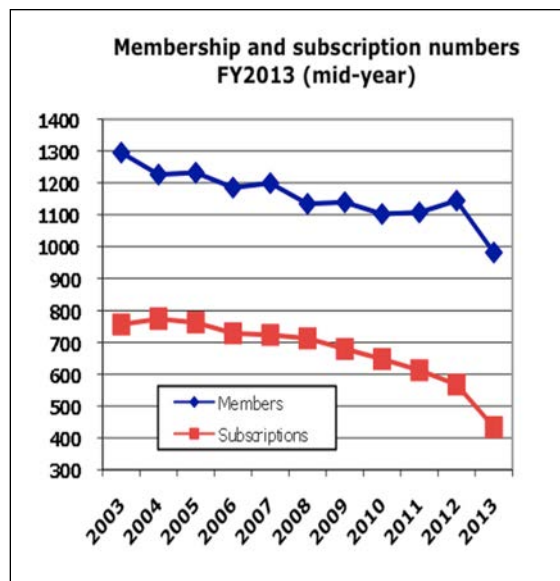
Membership decreased from this time last year (mid year 30 Mar 2012=1018 versus mid year 30 Mar 2013=981) and subscriptions have decreased from this time last year (mid year 30 Mar 2012=555 versus mid year 30 Mar 2013=434). Membership and subscription income continue on a downward trend.

**Table 2. Number of members and subscription and income generated from members and subscription in FY2002 to FY2012 and for FY2013 to 30 March 2013.**

FY	Number of Members	Number of Subscriptions	Income \$ from Members	Income \$ from Subscriptions
2002	1342	804	90037	138325
2003	1295	757	100305	126404
2004	1226	774	94875	151671
2005	1232	763	96277	156574
2006	1185	729	101992	142756
2007	1199	724	89971	170910
2008	1134	713	83339	197282
2009	1139	680	80834	211317
2010	1102	648	77670	212087
2011	1107	613	78438	203291
2012	1144	568	78986	196694
2013*	981	434	53555	186185

\*this fiscal year to date (03/30/2013)

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**Statistics Reports**

Members		2009	2010	2011	2012	2013
Associate Member Worldwide Online Only	1YR	28	22	53	26	16
Complimentary Member Worldwide Online Only	1YR	1				
Emeritus Member Worldwide Print&Online	1YR	53	50	49	48	1
Emeritus Member Worldwide No Journal	1YR	114	112	112	112	119
Emeritus Member Worldwide Online Only	1YR	3	1	4	2	43
Additional Family Member (each)	1YR					2
Additional Family Member (each) Old Rate	1YR	6	3	3	3	
Honorary Member Worldwide Print&Online	LIFETIME	24	26	23	23	23
Honorary Member Worldwide No Journal	LIFETIME	2	1			
Lifetime Member Worldwide Print&Online	1YR	1	1	2		
Lifetime Member Worldwide Print&Online	LIFETIME	70	72	74	77	74
Life Member Worldwide Online Only	1YR					1
Post-Doctoral Member Worldwide Online Only	1YR					9
Regular Member Worldwide Print&Online	1YR	604	576	544	538	1
Regular Member Worldwide Online Only	1YR	63	70	80	100	533
Student Member Worldwide Print&Online	1YR	140	135	130	166	1
Student Member Worldwide Online Only	1YR	20	24	26	44	150
Sustaining Member Worldwide Print&Online	1YR	10	10	9	8	
Sustaining Member Worldwide Online Only	1YR					8
Sum:		1139	1103	1109	1147	981

**Subscriptions**

2009 2010 2011 2012 2013

Mycologia	Institution	WCOMP	Complimentary Worldwide Sub Print	10	11	2	1	1
Mycologia	Agency	NUSB	Non-United States Sub Print&Online	131	121	98	79	57
Mycologia	Institution	NUSB	Non-United States Sub Print&Online	25	24	23	16	8
Mycologia	MEMBER	NAP	North America Sub Print					1
Mycologia	Agency	USB	United States Sub Print&Online	395	341	295	262	186
Mycologia	Institution	USB	United States Sub Print&Online	11	15	16	8	7
Mycologia	Agency	WO	Worldwide Sub Online	98	134	169	191	165
Mycologia	Institution	WO	Worldwide Sub Online	10	11	10	11	9
Sum:				680	657	613	568	434

**Endowment Finances**

The endowment fund amounts are presented in the table below. From August 1, 2012 to February 1, 2013, \$1790 in funds was contributed to the Mentor Travel Funds and \$945 to the Research Funds (total restricted endowment = \$2735). Contributions to the Uncommitted Endowment from August 1, 2012 to January 31, 2013, were \$1450 (total endowment = \$4185). Seven of the 17 mentor travel awards and all Mentor Research awards except for the Undergraduate Research Award, have funds of \$10,000 or more.

**Table 3. Endowment totals for FY2013 (need to update this)**

Fund name	Totals 7/31/12	Direct contr 1/31/13	Totals 1/31/13
Constantine J. Alexopoulos Travel Fund	10917	0	10917
Alma Whiffen Barksdale/ John P. Raper Travel Fund	5794	0	5794
Howard E. Bigelow Travel Fund	9863	100	9963

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Fund name	Totals 7/31/12	Direct contr 1/31/13	Totals 1/31/13
Margret Barr Bigelow Travel Fund	10805.5	210	11015.5
Edward E. Butler Travel Fund	9422	0	9422
William C. Denison Travel Fund	11684	0	11684
Harry Morton Fitzpatrick Travel Fund	8318	0	8318
Fuller/Emerson/Whisler Travel Fund	7296	100	7296
R. L. Gilbertson Travel Fund	10525	150	10675
Richard P. Korf Travel Fund	8973	100	9073
Charles Kramer Travel Fund	10163.75	0	10163.75
Everett S. Luttrell Travel Fund	11816.5	250	12066.5
Orson K. Miller Travel Fund	21774	175	21949
Harry D. Thiers Travel Fund	7792	225	8017
James M. Trappe Travel Fund	8683	425	9108
Francis A. Uecker Travel Fund	5210	30	5240
Kenneth Wells Travel Fund	4275	25	4300
<b>Total Mentor Travel Funds</b>	<b>163341.75</b>	<b>1790</b>	<b>165131.75</b>
Constantine J. Alexopoulos Prize Fund	18389	200	18589
Myron P. Backus Award Fund	28418	0	28418
George W. Martin/ Gladys E. Baker Research Fund	56423	40	56463
John Rippon Graduate Research Award	10522	0	10522
Clark T. Rogerson Fund	23858	30	23888
Alexander H. & Helen V. Smith Fund	25724	0	25724
John S. Karling Annual Lecture Fund	10262	25	10287
Saloman Bartnicki-Garcia Research Fund	12444	600	13044
Undergraduate Research Award	670	50	720
<b>Total Mentor Research Funds</b>	<b>186710</b>	<b>945</b>	<b>187655</b>
<b>Total Restricted Endowment</b>	<b>350051.75</b>	<b>2735</b>	<b>352786.75</b>
Uncommitted Endowment	246386.5	1450	247836.5
<b>Total Endowment</b>	<b>596438.25</b>	<b>4185</b>	<b>600623.25</b>

### General issues

During FY2011, tax-exempt not-for-profit Form 990 and related schedules were prepared by our accountant John Adkisson (\$1850 fee), signed by the treasurer and mailed to the Internal Revenue Services on December 14, 2013. The accountant also provided assistance reconciling our operating accounts. The not-for profit organization fidelity bond and liability policies for the Society were renewed this year at a cost of \$764. Book editor Bob Marra incurred expenses of \$143.30 to ship books for review. The annual membership dues and contribution to Public Policy Office Service (\$1,200) were paid to American Institute for Biological Sciences (AIBS) with an additional payment of \$100 for membership to the National Science Collections Alliance of AIBS. The Society paid for legal services provided by Stradley and Ronin to 1) review the Mycological Society of America's Copyright Release (\$459); 2) review, edit and revise the draft Copyright Agreement and Author Disclosure Form (\$1597.82); and review the Agreement with Copyright Clearance Center (\$580.00). The Society received income of \$154.89 from Highwire Press (Stanford University) from 3<sup>rd</sup> and 4<sup>th</sup> quarter pay per view earnings for 2012. The matter concerning the bequeath of funds from the estate of Alma Dietz (deceased) to the MSA was resolved on November 12, 2012 by finding that the purported Last Will and Testament of Alma Dietz dated August 1, 2007 was not to be admitted to probate as the Last Will and Testament of the deceased and therefore no funds from the estate will be provided to MSA.

—Marc A. Cubeta

# MYCOLOGICAL NEWS

## Call for Submissions!!

Greetings fellow Mycologists! I am compiling a book called "Cryptic Companions: Charismatic Microflora and Microfungi". If you believe your study organism fits that category, I am interested in high quality images, and organism descriptions. Descriptions can be in essay format, or can be a series of bullet point "cool facts." This book is designed to be accessible to everyone, yet catering to enthusiastic mycologists and bryologists. Organism descriptions can include information about ecology, reproduction, metabolism, taxonomy, distribution, or recent discoveries. The idea behind this

project is that when people think of fungi, they tend to think of the charismatic 'macrofungi' such as *Amanita* or *Russula*. Yet few if any of us conjure an image of a *Glomus* or even an *Aspergillus*. I want to celebrate the little guys, the often overlooked or ignored, which nevertheless play critical roles in many different kinds of ecosystems.

If you are interested, please contact me at klara.scharnagl@gmail.com. Thank you!

—Klara Scharnagl  
MSA Student Member

## Undergraduate Research Award

This award will support undergraduate student research on all topics related to fungal biology including medical mycology, cell biology, physiology, systematics, evolution, genomics and ecology. The student will be expected to conduct independent or directed research under the guidance of a research mentor.

This award will be open to all undergraduate students

with sophomore, junior or senior standing. The fellowships will be selected based on scholastic achievements (with a copy of transcripts), a research proposal outlining the proposed project plan and timeline (limited to 2 pages with references cited) and a letter of recommendation from the research mentor. The Student Award committee will select the recipient.



## MSA 2013 Auction and Social

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MSA 2013 Auction and Social at the Joint APS/MSA Meeting, Austin Texas - August 14, 5:30 – 6:30 PM

*Tickets (\$20) are available for purchase on the registration form. Preregistration is required as there is no on-site registration for the event. Snacks and drinks from the cash bar will be provided.*

**Join MSA on Wednesday evening, August 14, for a pre-banquet celebration at the annual MSA Auction and Social. From 5:00 to 5:30 p.m., MSA will present awards to some of our distinguished scientists and teachers, as well as awards for outstanding graduate student talks and posters. The silent auction will run from 5:30 to 6:30 p.m., with simultaneous live auction items up for bid.**

*The Education Committee and the Endowment Committee will make a special effort this year to raise funds for the Undergraduate Research Award in support of research and professional development for undergraduate scientists that demonstrate research promise in the field of mycology. The Undergraduate Research Award will support student research on all topics related to fungal biology including medical mycology, cell biology, physiology, systematics, evolution, genomics and ecology. The student is expected to conduct independent or directed research under the guidance of a research mentor. This award is open to all undergraduate students with sophomore, junior or senior standing. The fellowships will be selected based on scholastic achievements (with a copy of transcripts), a research proposal outlining the proposed project plan and timeline (limited to 2 pages with references cited) and a letter of recommendation from the research mentor. The Student Award committee selects the recipient.*

To support the undergraduate fund, we will hold a photography contest with awards for:

1. Mycologists in Action
2. Most beautiful fleshy fungus
3. Fungi under the microscope
4. Funniest photograph (photoshop allowed and encouraged)

Proceeds from the sale of photos will specifically enhance the Undergraduate Research fund (donations to the fund are also gratefully accepted at the MSA Donations website (<http://psfebus.allenpress.com/eBusMYSA/DONATIONS.aspx>), select the page for “Undergraduate Award,” and then enter information on the amount you would like to donate and the method of donation).

Please bring photo entries to the Meetings and give them to Karen Hughes or leave them at the MSA table as soon as possible so they can be arranged for the auction.

For those of you who will need to mail auction items, please mail them to

**Dr. Brian D. Shaw**  
Department of Plant Pathology and Microbiology  
Texas A&M University  
2132 TAMU  
College Station, TX 77843

**But please send a list of auction items to [khughes@utk.edu](mailto:khughes@utk.edu) so we can send you a thank you letter for your donation.**

## International Congress on the Systematics and Ecology of Myxomycetes

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Dear colleagues,

We sincerely welcome your participation in the 8<sup>th</sup> International Congress on the systematics and Ecology of Myxomycetes (ICSEM8), which will be held at Jilin Agricultural University, Changuan, China, from August 10<sup>th</sup> to 15<sup>th</sup> 2014. This is the first time our myxomycete congress will meet in Asia.

This Congress includes scientific sessions and a foray after the congress. It will provide an opportunity for sharing information on all aspects of the myxomycetes, the protozoelids, the dictyostelids, and related organisms.

Participants will have the opportunity to develop important research collaborations, access current information, and expose their research to international colleagues. This is a good opportunity for myxomycologists to meet, discuss, pro-

mote, and share knowledge that will advance a better understanding of the importance of these organisms.

We would be delighted if you could attend this congress, which will include an exciting mixture of memorable social, cultural, and outdoor natural experiences and a stimulating international myxomycete event.

—**Qin Guixin**  
President

Jilin Agricultural University

—**Li Yu**  
Chairman

8th International Congress on the Systematics and Ecology of Myxomycetes

—**Wang Qi**  
Director

Engineering Research Center of Chinese Ministry of Education for Edible and Medicinal Fungi

## Mycologia for Sale, for the Library or Personal Use!

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A virtually complete set of *Mycologia* is available for sale, beginning with Vol. 1 #1, January 1909, to date, with only 8 issues missing. Purchaser must pick up the large set at the University of Kansas, Lawrence, Kansas. Price? A con-

tribution to any MSA fund. Contact Bob Lichtwardt, [licht@ku.edu](mailto:licht@ku.edu), or call 785-864-3740. Also available at no cost is a large and almost complete set of journals of the British Mycological Society.

## Student Events at the MSA Annual Meeting 2013



### Events:

#### MSA Student Mixer

Monday Aug. 12, 2013 6:00pm-7:00pm

Max's Wine Dive 207 San Jacinto Blvd. Austin, TX

#### MSA Student Poster Presentation

Tuesday Aug. 13, 2013 3:30pm-4:30pm

The Exhibit Hall, Austin Convention Center

#### Contact:

[students.msa@gmail.com](mailto:students.msa@gmail.com)

[www.maxswinedive.com/austin](http://www.maxswinedive.com/austin)

[www.facebook.com/MSAstudentsection](http://www.facebook.com/MSAstudentsection)

Background: *Symbiotic Arenas* formed by juvenile mycelia in lichens.  
Based on an image taken by Elisabeth Baloch. Design by Naupaka Zimmerman.

# MSA STUDENT SECTION 2013

During this year's annual meeting in Austin TX, the Mycological Society of America will continue to develop its Student Section. This student-run group within the MSA has as its goal to facilitate communication among students of the Society as well as provide opportunities for them to network with other students in their own fields and beyond. It will also be valuable in stimulating future collaborative research among student members of MSA, involved in different areas of study. The Student Section is open and inclusive, welcoming the participation of all students in strengthening this group. We look forward to your participation in our mixer and hope you can also join us at our future events.

## History

The Student Section was initiated in Fairbanks 2011 and launched in 2012 at the annual MSA meeting in New Haven CT. The very first Student Section event in 2012 was a professional development workshop led by Harvard University mycology professor Anne Pringle: *Using fungi to get a job*. At New Haven 2012, we organized a mentorship pairing where all interested MSA students were assigned a senior mycologist serving as their mentor for the duration of the New Haven meeting. We plan to organize another mentormentee pairing in East Lansing, MI during MSA's annual meeting in 2014.

## Upcoming events

**Mixer** – At the 2013 APS-MSA Joint Meeting in Austin, we plan to host a mixer social event for MSA students at Max's Wine Dive from 6:00pm to 7:00pm on Monday August 12, 2013 (*Max's Wine Dive* 207 San Jacinto Blvd). This location is two blocks away from the Hilton Hotel and the Austin Convention Center. Food and complementary refreshments will be provided. Come join us! [www.maxswinedive.com/austin](http://www.maxswinedive.com/austin)

**Poster** – On Tuesday, August 13 at MSA Austin, we are presenting a poster about the Student Section. The poster viewing, with authors present, will be held at the Tuesday poster session from 3:30 - 4:30 p.m. Stop by, introduce yourself, and check out our poster.

**Board meeting no. 1** – Any student who is member of the Mycological Society of America automatically becomes a member of the Student Section and is more than welcome at Board Meetings of the Student Section. The Student Section will organize its first official Board Meeting concurrently with this year's APS-MSA Joint Meeting, time and location: TBD. During this Board Meeting, we will discuss administrative business and introduce student candidates running for office. Please contact us via



[students.msa@gmail.com](mailto:students.msa@gmail.com) if you want to join us at the Board Meeting or nominate anyone for office on the MSA Student Section's Executive Board.

## Engaging graduate students (and faculty!)

The MSA Student Section proposes a multi-faceted solution using new technology and social media to create digital resources that engage graduate students while increasing their access to electronic information. At MSA Austin, we plan to implement an electronic poster invitation software program (Potter™), which can help increase successful *networking*; it provides incentive for students to identify potential mentors and prepare their research dissemination strategy in advance.

An important aspect in our continuously changing world is the social media – Facebook, Twitter, and others – and their use in our field of mycology. Active incorporation of social media such as Facebook and Twitter at MSA would be helpful in increasing student engagement and collaboration, and in notifying students and providing them with first-hand information. Social media platforms have been shown to serve as functional tools during conferences in other fields, so why not in mycology? [www.facebook.com/MSAstudentsection](http://www.facebook.com/MSAstudentsection)

## Diversity and cross-pollination

We, members of the Executive and Non-executive Board of MSA's Student Section, all graduate students, have been working throughout the past two years to shape the group's basic structure. So far, we represent diverse research topics, but there's always room for more. We study patterns and processes shaping ectomycorrhizal fungal ecology; plant-microbial interaction genomics; fungi, ecosystems and global change; physiology of filamentous fungi; interactions between insects, fungi and plants; mechanisms of aging and communication within filamentous fungal networks; and as for myself, I study Laboulbeniales parasites, with special interest to taxonomy and general biology.

Current MSA students are working in these and many other fields of study. Future students will be exploring new areas, such as medical mycology, state-of-the-art developments in the field of fungal pathogenesis, and industrial mycology. The funny thing is that many of these different topics can be linked to each other. Communication, collaboration, and *cross-pollination* can help us all to develop our MSA student culture.

We appreciate your involvement in the continuation of the MSA Student Section and look forward to meeting all of you in Austin!

–**Danny Haelewaters**

Department of Organismic and Evolutionary Biology  
Harvard University  
Cambridge, MA

# MYCOLOGICAL CLASSIFIEDS

## 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 pro-

posals 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 (612-246-3838). For more information about our company, visit our website at [www.regresearch.com](http://www.regresearch.com).

## Mold and Fungus Testing and Identification Services

Biochallenge tests for ink, microfluidic materials; testing for resistance of materials to fungal invasion. Identification of fungal contaminants in manufactured products. Epifluorescent microbial detection in deionized water systems, microfluidic devices, medical fluids, manufactured goods.

Identification of fungi from buildings, animal and plant diseases. 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)

# MYCOLOGIST'S BOOKSHELF

We have just one review for this issue, and I've added three new titles to the list below, which has been updated indicating which books are already in the process of being reviewed, and which still need reviewers. Please recall that if you are interested in reviewing a book, contact me ([robert.marra@ct.gov](mailto:robert.marra@ct.gov)) and I will have the book "drop-shipped" directly from the publisher; this will streamline the process at my end and will save our Society from racking up considerable shipping expenses. A book goes to the first person requesting it, and I ask that you get your reviews to me in a reasonably timely manner. Also, if you know of a newly published book that might be of interest to mycologists, please let me know so I can request it from the publisher.

—Bob Marra

## Books in Need of Reviewers

- **\*\*Indian Coelomycetes.** 2012. J. Muthumary. MJP Publishers, New Delhi, Indian. <http://www.mjppublishers.com/index.html>. ISBN: 978-81-8094-162-7. 366 pp, illustrations and photomicrographs. \$50 (hardcover).
- **\*\*The Kingdom of Fungi.** 2013. Jens H. Petersen. Princeton University Press. <http://press.princeton.edu/>. ISBN: 978-06-91157-54-2. 256 pp, 800+ color photos. \$29.95 (cloth). Also available as eBook.
- **\*\* Ophiostomatoid Fungi: Expanding Frontiers.** 2013. K. Seifert, Z. Wilhelm de Beer, M. J. Wingfield (Eds.). CBS Biodiversity Series 12. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-94-6. 337 pp, fully illustrated. Price: € 75 (hardcover).
- **Tricholomas of North America.** 2013. *The Corrie Herring Hooks Series No. 68.* Alan Bessette, Arleen Bessette, William Roody, Steven Trudell. University of Texas Press. <http://www.utexas.edu/utpress/>. ISBN 978-0-292-74233-8. 220 pp, 186 color photos. Price \$29.95 (softcover).
- **A Primer of Botanical Latin with Vocabulary.** Available March 2013. Emma Short & Alex George. Cambridge University Press. [www.cambridge.org](http://www.cambridge.org). ISBN 978-11-07693-75-3. 102 tables, 21 exercises. Price £24.99 (paperback).
- **Development of *Aspergillus niger*.** 2013. J. Dijksterhuis, H. Wosten (Eds.). CBS Studies in Mycology No. 74. CBS Fungal Biodiversity Centre. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-93-9. 85 pp, fully illustrated with color pictures (A4 format). Price: € 40 (softcover).
- **The Genus *Cladosporium*.** 2012. K. Bensch, U. Braun, J.Z. Groenewald, and P.W. Crous. CBS Studies in Mycology No. 72. CBS Fungal Biodiversity Centre. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-91-5. 401 pp, fully illustrated with color pictures (A4 format). Price: € 70 (softcover).
- **Microbial Carotenoids from Fungi: Methods and Protocols.** 2012. Jose-Luis Barredo (Ed.). Humana Press (Springer). [www.springer.com](http://www.springer.com). ISBN: 978-1-61779-917-4. 290 pp, 51 illus., 9 in color. Price: \$119 (hardcover); \$94.99 (e-book).
- **Neurospora: Genomics and Molecular Biology.** January 2013. D. P. Kasbekar and K McCluskey (Eds.). Horizon Press. <http://www.horizonpress.com>. ISBN: 978-1-908230-12-6. 294 pp, w/illus. Price: \$319 (hardback).

Continued on following page

- **Plant Fungal Pathogens: Methods and Protocols.** 2012. Melvin D Bolton, Bart PHJ Thomma (Eds). Part of the "Methods in Molecular Biology" series, v.835. Springer-Verlag, Berlin. [www.springer.com](http://www.springer.com). ISBN: 978-1-61779-5008. 769 pp, 138 illus., 74 in color. Price: \$159.00 (hardcover).
- **The Analysis of Biological Data.** 2009. Michael Whitlock and Dolph Schluter. Roberts & Company Publishers, Greenwood Village, CO. [www.roberts-publishers.com/](http://www.roberts-publishers.com/). ISBN: 978-0-9815-1940-1. 704 pp, full color. Price: \$80 (hardback).
- **Laboratory Protocols in Fungal Biology: Current Methods in Fungal Biology.** Avail June 2012. Vijai Kumar Gupta, Maria Tuohy, Eds. Springer-Verlag, Berlin. [www.springer.com](http://www.springer.com). ISBN: 978-1-4614-2355-3. 802 pp, 105 illus., 40 in color. Price: \$279.00 (hardcover). *Review Copy online only; hardcover copy provided following receipt of published review.*
- **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).

**\*\* New this issue.**

## Books with Reviewers Assigned

- **Fungi of Serbia and Western Balkans [Gljive Srbije I Zapadnog Balkana].** 2009. Branislav Uzelac (photographs by Goran Milosevic). BGV Logik, Belgrade, Serbia. (english@glijvari.org.rs or goran.milosevic@poducavanje.co.rs). ISBN 978-86-912677-0-4. 464 pp., ca. 1200 color photographs. Price 120 €. *Reviewed this Issue.*
- **The Mycota, Vol. 10: Industrial Applications, 2<sup>nd</sup> ed.** 2011. Martin Hofrichter (Ed.). Karl Esser (Series Ed.). Springer. [www.springer.com](http://www.springer.com). ISBN: 978-3-642-11457-1. 485 pp, 152 illus. Price: \$269.00 (hardcover).
- **Edible Ectomycorrhizal Mushrooms: Current Knowledge and Future Prospects.** 2012. Alessandra Zambonelli and Gregory Bonito (Eds.). Springer. [www.springer.com](http://www.springer.com). ISBN 978-3-642-33822-9. 409 pp, 35 illus (16 in color). Price: \$209 (hardcover); also available as eBook pdf download, ISBN 978-3-642-33823-6, \$159.
- **Taxonomic Manual of the Erysiphales (Powdery Mildews).** 2012. Uwe Braun and R.T.A. Cook. CBS Biodiversity Series 11. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-89-2. 707 pp, 853 figures. Price: € 80 (hardcover).
- **Biodiversity in Dead Wood.** 2012 Juha Siitonen, Bengt Gunnar Jonsson. Cambridge University Press, Cambridge, UK. [www.cambridge.org](http://www.cambridge.org). ISBN: 9780521717038. 524 pp, 92 b/w illus. 21 tables. Price: £38.00 (paperback).
- **Pollination Biology.** 2012. D. P. Abrol. Biodiversity, Conservation, and Agricultural Production. Springer-Verlag, Berlin. [www.springer.com](http://www.springer.com). ISBN: 978-94-007-1941-5. 792pp, 23 illus., 18 in color. Price: \$209.00 (hardcover).
- **Fungal Plant Pathogens (Principles and Protocols Series).** March 2012. CR Lane, P Beales, KJK Hughes (Eds). CABI, Oxfordshire, UK. [www.cabi.org](http://www.cabi.org). 978-1-8459-3668-6. 324 pp. Price: \$75.
- **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).
- **Biology of Lichens – Symbiosis, Ecology, Environmental Monitoring, Systematics and Cyber Applications.** Bibliotheca Lichenologica vol 105. 2010. Thomas Nash III, Linda Geiser, Bruce McCune, Dagmar Triebel, Alexandru M Tomescu, William Sanders (Eds.). Borntraeger/Schweizerbart Publishers, Stuttgart. [www.schweizerbart.de](http://www.schweizerbart.de). ISBN: 978-3-443-58084-1 256 pp, 81 figures, 19 tables. Price: €79.00 (softcover).
- **Coalescent Theory: An Introduction.** 2009. John Wakely. Roberts & Company Publishers, Greenwood Village, CO. [www.roberts-publishers.com/](http://www.roberts-publishers.com/). ISBN: 978-0-9747-0775-4. 352 pp, b&w. Price: \$48 (softcover).
- **Biology of Marine Fungi.** 2012. Chandralata Raghukumar (Ed). Part of the "Progress in Molecular and Subcellular Biology" series, v.53. Springer-Verlag, Berlin. [www.springer.com](http://www.springer.com). ISBN: 978-3-642-23341-8. 354 pp, 83 illus., 27 in color. Price: \$209.00 (hardcover).
- **Tree Thinking: An Introduction to Phylogenetic Biology.** Available July 2012. David Baum and Stacey Smith. Roberts & Company Publishers, Greenwood Village, CO. [www.roberts-publishers.com/](http://www.roberts-publishers.com/). ISBN: 978-1-9362-2116-5. 400 pp, b&w. Price: \$60 (hardback).
- **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).
- **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).
- **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).
- **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).
- **Atlas of Soil Ascomycetes.** 2012. J. Guarro, J. Gene, A.M. Stchigel and M.J. Figueras. CBS Biodiversity Series 10. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-88-5. 486 pp, 322 figures. Price: € 70 (hardcover).
- **Texas Mushrooms: A Field Guide.** 1992 (new preface 2013). *The Corrie Herring Hooks Series No. 18.* Susan Metzler and Van Metzler (Orson K. Miller, Jr., Scientific Adviser). University of Texas Press. <http://www.utexas.edu/utpress/>. ISBN 978-0-292-75126-2. 360 pp, 249 illustrations, 2 figures, 1 map, 11 tables. Price: \$39.95 (softcover).

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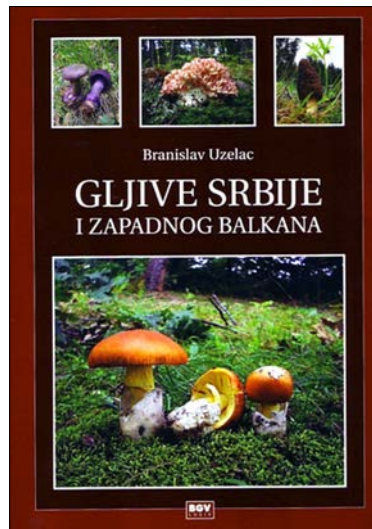
- **Fungal Biology in the Origin and Emergence of Life.** 2013. David Moore. Cambridge University Press. [www.cambridge.org](http://www.cambridge.org). ISBN: 978-11-07652-77-4. 236 pp, 28 b/2 illus, 2 tables. Price: \$42.99 (softcover).
- **Fascinated by Fungi: exploring the majesty and mystery, facts and fantasy of the quirkiest kingdom on earth.** 2011. Pat O'Reilly. First Nature. [www.first-nature.com](http://www.first-nature.com). ISBN 978-0-095-60544-3-2. 450 pp, over 1000 color photos. Price: £24.95.
- **The Mycota, v.IX: Fungal Associations.** 2012. Bertold Hock (Ed.). Springer. [www.springer.com](http://www.springer.com). ISBN 978-3-642-30825-3. 406 pp, 84 illus (62 in color). Price: \$269 (hardcover). Also available as eBook (pdf download), price: \$209.
- **Funga Nordica, 2<sup>nd</sup> ed.** 2012. H. Knudsen and J. Vesterholt (Eds.). Nordsvamp, Copenhagen. ISBN: 9788798396130. 1083 pp (2 volumes). Price £95, €111.15.

## Fungi of Serbia and Western Balkans

**Fungi of Serbia and Western Balkans [Gljive Srbije I Zapadnog Balkana].** 2009. Branislav Uzelac (photographs by Goran Milosevic). BGV Logik, Belgrade, Serbia. ([english@glijvari.org.rs](mailto:english@glijvari.org.rs) or [goran.milosevic@poducavanje.co.rs](mailto:goran.milosevic@poducavanje.co.rs)). ISBN 978-86-912677-0-4. 464 pp., ca. 1200 color photographs. Price 120 €.

Our knowledge about the mycota of eastern Europe has for several years lagged behind that of western Europe. The knowledge has been there, but the economy has made it difficult to print large books with colour pictures aimed for the public. We must not forget that there are numerous eminent mycologists in the eastern European countries where collecting mushrooms both for consumption and sale has been a common practice on a much larger scale than is usual in many countries in the western part of the continent.

The increasing focus on biodiversity, and the environment in general, have made government and local authorities more willing to support projects aimed to enlighten the public. One result is this book on the fungi of Serbia and Western Balkan. The text is in Serbian, but all species are named in Latin with full authorship and the spore measurements are given for almost all species. What makes the book most valuable is the over 1100 colour pictures of very high quality of



many species not well known and some rarely photographed.

The sections are the common ones, starting with Ascomycota (102 species). This is followed by a section on the Basidiomycota, which includes: Heterobasidiomycota, 18 species; Aphyllophorales 110 species; Hydnaceae/Thelephoraceae, 45 species; Gasteromycota, 42 species; Cantharellaceae, 14 species; and finally Agaricales (sensu lato), 900 species.

The book is in an a4 format and the pictures 7.5 x 9 cm, thus giving a fine, sharp and clear impression of each species. Judging from the pictures of the group with which I am most familiar (i.e. Polyporaceae sensu lato), the colour reproduction is of a very high quality.

The book is highly recommended to anyone who wants to know about the distribution of the higher fungi on the Balkan Peninsula.

The book can be ordered directly from the printer: [goran.milosevic@poducavanje.co.rs](mailto:goran.milosevic@poducavanje.co.rs).

—**Leif Ryvarden**  
Botanical Institute  
University of Oslo  
Oslo, Norway  
[leif.ryvarden@ibv.uio.no](mailto:leif.ryvarden@ibv.uio.no)

### 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, 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).

# 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 [dnavtvg@gmail.com](mailto:dnavtvg@gmail.com). **Unless otherwise notified**, listings will be automatically deleted after one year (at the editors discretion).

In depth information about the genus *Amanita*  
[www.amanitaceae.org](http://www.amanitaceae.org)

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)

*Glomeromycota* PHYLOGENY  
[amf-phylogeny.com](http://amf-phylogeny.com)

MYCO-LICH facilitates mycology and lichenology studies in Iran.  
[www.mycos-lich.com](http://www.mycos-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/](http://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.

### June 20-21, 2013

Symbiosis Conference: Expanding Commercialization of Mutualistic Microbes to Increase Bioenergy Crop Production  
Cornell University, Ithaca, NY

### July 29 – Aug 3, 2013

7<sup>th</sup> International Workshop on Edible Mycorrhizal Mushrooms, IWEMM-7  
La Antigua Guatemala, Guatemala

### Aug 7-10, 2013

Northeast Mycological Federation Sam Ristich Annual Foray (NEMF)  
Rimouski, Quebec, Canada

### Aug 10-14, 2013

Mycological Society of America with the American Phytopathological Society  
Austin, TX

### Aug 14-19, 2013

International Marine and Freshwater Mycology Symposium (IMFMS)  
Beijing International Convention Center  
People Republic of China

### Aug 25-31, 2013

10th International Congress of Plant Pathology  
Beijing, China

## 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.

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I agree to pay \$98\* for this membership by check (payable to MSA, drawn on US bank) \_\_\_ VISA \_\_\_ Mastercard \_\_\_

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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.



# MSA Sustaining Members 2013

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*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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[info@fungi.com](mailto:info@fungi.com)

## **Mycotaxon, Ltd.**

Attn: Richard P. Korf  
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Ithaca, NY, 14851-0264  
(607) 273-0508  
[info@mycotaxon.com](mailto:info@mycotaxon.com)

## **Triarch, Inc.**

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Ripon, WI, 54971  
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## **Sylvan, Inc.**

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Research Dept Library  
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(724)543-3948  
[mwach@sylvaninc.com](mailto:mwach@sylvaninc.com)

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(507) 663-7631  
[rita.kuznia@syngenta.com](mailto:rita.kuznia@syngenta.com)

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

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(865)558-6819  
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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

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- Associate Member** **\$50** (Does not include online access to *Mycologia*)
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- Sustaining** **\$278 or more**
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### AREAS OF INTEREST

Mark most appropriate area(s)

- Cell Biology – Physiology** (including cytological, ultrastructural, metabolic regulatory and developmental aspects of cells)
- Ecology – Pathology** (including phytopathology, medical mycology, symbiotic associations, saprobic relationships and community structure/dynamics)
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