

Newsletter of the Mycological Society of America

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~ Important Dates ~

February 15: Deadline: *Inoculum* 54(2)

**March 31, 2003: Deadline for all MSA
Award Nominations (See *Inoculum*
53(6):15-19)**

May 25-29, 2003: International Society for
Human and Animal Mycology, San
Antonio, TX

July 27-31, 2003: MSA-BMS, Asilomar, CA

August 10-15, 2003: 4th International Conf. on
Mycorrhizae, Montreal, Quebec

August 17-23, 2003: 4th International
Symbiosis Conf., Halifax, Nova Scotia

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Biodiversity Surveys for Neotropical Mycetozoans in Cuba and Mexico

by **Diana Wrigley de Basanta, Arturo Estrada-Torres
and Carlos Lado**

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MYXOMYCETE SPECIALIST MAYRA CAMINO from the Jardín Botánico Nacional in Havana, Cuba, recently organized and then led an international expedition to survey the mycetozoans of the Alturas de Banao Reserve in Sancti Spiritus, Cuba. The expedition was funded in part by the Darwin initiative, a British Government fund that exists to help countries rich in biodiversity but poor in resources fulfil their obligations under the Rio Convention. During the last week of November 2002, myxomycologists from the United States (Steve Stephenson and Randy Darrah), Mexico (Arturo Estrada-Torres), Spain (Carlos Lado), England (Diana Wrigley de Basanta) and the Ukraine (Tanya Krivomaz), joined local specialists for a six hour trip along the main highway that extends through the central part of the island of Cuba. This was followed by a two-hour ride on mules to reach the main camp, located high in the forests above Banao. The field work, carried out in montane rainforests and cloud forests of the reserve, which are characterized by many endemic plants, was facilitated by local parataxonomist Julio's able use of the machete and the impressive knowledge and skill of Cuban botanist Eldis Bécquer. More than one hundred field collections of myxomycetes resulted from two days of fieldwork. *Hemitrichia serpula*, with beautiful extensive collections, and *H. calyculata* were exceedingly common, as is often the case in Neotropical forests, but at least 30



Large fruiting of Hemitrichia serpula. [Photo by Randy Darrah]



Myxomycologists and parataxonomists at La Sabina, Estacion Ecológica Alturas de Banao. Back row [from left]: Carlos Lado (Real Jardín Botánico, Madrid), Jose, Eldis Bécquer (Jardín Botánico Nacional, La Habana), Jorge Felix Diaz, Diana Wrigley de Basanta (American School of Madrid), Julio Calviño, Gaspar Luna, Miguel, and Steve Stephenson (Fairmont State College, West Virginia). Front row [from left]: Oliver Valle (Chino), Tanya Krivomaz (University of Kiev), Mayra Camino (Jardín Botánico Nacional, La Habana), and Arturo Estrada-Torres (Universidad Autónoma de Tlaxcala). [Photo by Randy Darrah]

other species were represented by one or more collections. These included new records for Cuba such as *Clastoderma debaryanum*, *Metatrichia horrida* and *Physarum stellatum*.

Numerous samples of various substrates were collected for subsequent isolation of myxomycetes in moist chamber cultures and for studies of two other groups of slime molds (protostelids and dictyostelids). The latter samples were sent to Fred Spiegel at the University of Arkansas and John Landolt at Shepherd College in West Virginia. Some of the substrates included in our study, such as aerial litter, living and dead lianas and canopy soil, apparently have not been investigated previously in the forests of Cuba. The scientific success of the expedition, thanks to Mayra Camino's planning and attention to detail, was complemented by views of dawn over the distant sea against the mist-enshrouded jungle and the enormous warmth, camaraderie and humor of all participants. Some images from the expedition have been posted on the web by Randy Darrah and can be viewed at <<http://members.tripod.com/mydigimages/>>.

Upon returning to Mexico from Cuba, some members of the team (Lado, Wrigley and Estrada-Torres), continued immediately on a second expedition to the Calakmul Biosphere Reserve in Campeche, located in the southern portion of the Yucatan Peninsula of Mexico, close to that country's border with Guatemala. Calakmul, the largest tropical forest reserve in all of Mexico, is an area of immense biodiversity. For example, it is home to 50% of the plant species of the Yucatan, 94 species of mammals (including the puma and jaguar) and more than 400 species of butterflies (such as the blue morpho). The vegetation includes lowland tropical forest, medium semi-deciduous forest and evergreen



Two members of the group ride their mules along a trail through the tropical forest of Banao. [Photo by Carlos Lado]

rainforest. The team carried out a survey along a 40 km radial transect of the southern portion of the reserve, which covers a total area of 723,185 ha. More than 80 field collections were made, with *Hemitrichia calyculata* being the most common myxomycete found, but unlike the case in most other Neotropical forests, *Hemitrichia serpula* was not found at all. More than 50 samples of various substrates, such as lianas, tree bark, leaf litter and aerial litter, also were collected for preparation of moist chamber cultures. The team was assisted in the reserve by Ricardo Garcia of UNAM, and they ended the expedition by climbing to the top of the largest Mayan pyramid in Southern Mexico.

The expedition to Mexico represented one component of the "Studies of Neotropical Myxomycetes" project being funded by a grant from the National Science Foundation (to Steve Stephenson) and was carried out in conjunction with a project of Dr. Joaquin Cifuentes from the Universidad Autónoma de México (UNAM).



Overlooking the Calakmul Reserve from the pyramid. [Photo by Carlos Lado]

Coprophilous Fungi from the United States

by Mike L. Richardson

Questions or comments should be sent to Mike Richardson at 165 Braid Road, Edinburgh EH10 6JE, U.K. or < mjrichardson@clara.net >. Requests for herbarium material should be directed to Don Ruch at Ball State University, Muncie, IN or < druch@bsu.edu >.

WHILE ON VACATION VISITING FRIENDS and National Parks in the USA last year I took the opportunity to collect some herbivore scats to incubate for coprophils when I returned home. Four samples were collected from the Bayfield and Iron River areas of northern Wisconsin [ca 46-47°N; 90°W], and 21 from California, Utah and Colorado [ca 36-40°N; 104-120°W]. If anybody is interested in details of these records I would be happy to correspond with them. I have retained some herbarium material, which will eventually be deposited in the Ball State University Mycological Herbarium, Muncie, IN.

The samples were from (1) Raspberry Island, Bayfield, WI [hare]; (2) Tripp, Iron River, WI [deer]; (3) Sonora Pass, CA [hare]; (4) Lyell Canyon, Yosemite NP, CA [deer]; (5) Tioga Pass, Yosemite NP, CA [hare, deer]; (6) Mono Lakes Tufa Reserve, CA [hare]; (7) Cedar Grove, Kings Canyon NP, CA [deer]; (8) N Fork Virgin R, Zion NP, UT [deer]; (9) Highway 9, Zion NP, UT [hare]; (10) Bryce Canyon NP, UT [deer, hare, rabbit]; (11) Cisco, Highway 128, UT [rabbit]; (12) East Inlet Trail, Rocky Mt NP, CO [moose]; (13) East Shore Trail, Rocky Mt NP, CO [deer]; (14) Berthoud Pass, Arapaho NF, CO [hare, sheep].

They yielded a total of 166 records, 74 species, covering the expected spectrum of coprophilous fungi – apothecial ascomycetes [16 spp.], peri- and pseudothecial ascomycetes [27 and 23 spp.], basidiomycetes [5 spp., all *Coprinus*], and zygomycetes [*Pilobolus*, 2 spp. & *Piptocephalis*, 1 spp.].

Of the apothecial ascomycetes, apart from the usual suspects [*Ascobolus*, *Saccobolus*, *Lasiobolus*, *Iodophanus* and *Ryparobius/Thelebolus* spp.], of interest were *A. aglaosporus*, which I had not seen before, but which is well known from Cain's collections from Ontario and New York. I also found a *Saccobolus* which agreed more with van Brummelen's description of *S. dilutellus*, rather than *S. globuliferellus*. Van Brummelen notes that these species are very close and may be considered vicarious species, the former European and the latter American. *Fimaria cervaria* and *Trichobolus sphaerosporus* also occurred - both are relatively infrequent but characteristically occur on cervid dung. I have less than 10 records of each of these last two from a total of nearly 6000 from over 600 samples.

Species of *Coniochaeta*, *Podospora*, *Schizothecium*, *Sordaria* and *Hypocopa* were well represented amongst the perithecial ascomycetes. Of interest were an unidentified *Strattonia*, *Fimetariella macromischa* [described in 1995 by Krug from Canadian material collected by Cain in 1962], *Bombardiodea bombardioides*, *Viennotidia fimicola* and *Pxydiophora microsporus*. This last species was described in 1977 from Scotland and I have four records of it from near the type locality in 1997, but I doubt there are many records

from elsewhere. The pseudothecial pyrenomycetes were remarkable for the abundance and number of species of *Sporormiella*, of which about 18 species were found, not all identifiable with absolute certainty, since some appeared to be intermediate between closely related species.

In the basidiomycetes, the only surprise was that none of the 25 samples yielded either *Coprinus stercoreus* or *C. miser*, the two *Coprinus* species which I have found to be the commonest world-wide on a wide range of dung types.

As part of my interest in the distribution and diversity of dung fungi I have collected dung samples on my travels over the past few years. I have found that the well known latitudinal gradient of plant and animal species richness, which decreases with increasing latitude, also occurs in the fungi. If one plots the cumulative total of taxa observed on successive samples from an area, the equation for the cumulative frequency curve allows a prediction to be made of the number of species to be expected from a standard number of samples. I have used 'no. of species from 50 samples'. The latitudinal gradient data I have give values of 162 spp./50 samples at 20° lat. N/S, decreasing to 138 spp./50 samples at 35° lat. N/S and 113 spp./50 samples at 50° lat. N/S. The 21 samples collected from California, Utah and Colorado [36-40°N] yielded 67 species. Although from a smaller number of samples than is desirable, the cumulative frequency curve from these samples predicts 126 species/50 samples. This is close to the 132 species which I would expect from 50 samples from that latitude. Such values can be used to monitor diversity in different environments. The original relationships were obtained from samples from areas which supported reasonable levels of natural or cultivated vegetation - pasture, grassland, woodland or mountain vegetation. In terms of species richness and diversity, therefore, the dung samples from the areas I collected in SW USA suggest that these habitats are 'normal' in terms of fungal diversity. This result can be compared with similar studies on some samples collected from Morocco at 30°N, from areas badly affected by grazing sheep and goats, with little vegetation. They were either dry river beds or low density argan (*Argania spinosa*) forest on dry stony soil, with the understorey replaced by wheat and barley crops, which had been harvested and cultivated at the time of sampling. The extremely hot (daytime temperatures 30-40°C) and dry climate (little or no rain for long periods) would also not be conducive to the occurrence and development of fungi on dung. From my latitudinal gradient data I would have expected a species richness of approximately 145 species/50 samples from these Moroccan samples, but the cumulative frequency curve predicts only 80. I have interpreted this much lower species richness than expected as a confirmation of the subjective assessment that the habitat from which the Moroccan samples were collected was damaged.

Interestingly, the one American sample from an 'extreme' environment, pellets from blacktailed jack rabbit [?] grazing around Mono Lake salt lake, California, produced only one species, *Sporormiella intermedia*,

and that only after 2 months incubation and a change of damp paper substrate. I assume that the rabbits are ingesting high levels of salts from the vegetation which are inhibitory to the fungi.

Reference

Richardson, MJ (2001) Diversity and occurrence of coprophilous fungi. *Mycological Research* **105**: 387-402.

MSA BUSINESS

From the President's Corner

International Mycology: Affiliations and Alliances with Foreign Mycological Societies

I admit to cursing my email from time to time, daily in fact. I also admit that the seamless communication it brings to mycologists throughout the world more than offsets the aggravation. Isolation by distance, so dear to population geneticists, no longer applies to mycologists. Reprint requests to Berkeley from Stanford or South Africa arrive with equal speed and the pdf file is sent back with the same alacrity. The academic "critical mass" no longer rests in one geographic location; email brings together mycologists from all continents for projects of common interest with no prior introduction. Although they live in the United States, I didn't meet a single co-author of my first work on Mesomycetozoa until a year after the first manuscript was published, and only then at an international meeting in Buenos Aires. I still have not met my Danish co-authors on a *Stachybotrys* manuscript destined for *Mycologia*, and it may be years until our paths cross at some future international meeting. Now, that mycologists no longer "go-it-alone," should mycological societies?

The Mycological Society of America, for many years, has had a membership that belies its name. A glance at the contribution of Canadian, Mexican and Latin American members to our society, its committees and officers, argues for a change to Mycological Society of the Americas, at the very least. Although a name change may not be in the offing, alliances between the MSA and other mycological societies certainly are. The MSA has longstanding, formal affiliations with the International Mycological Association, the International Union of Microbiological Societies and the American Phytopathological Society. We also have three affiliated societies, who are members and subscribers to *Mycologia*, The Boston Mycological Club, the Illinois Mycological Association, and the Oregon Mycological Society. The MSA has equally strong ties to the largest amateur mycological society on the continent, the North American Mycological Association, through the MSA administered, NAMA Memorial Fellowship and through the joint meeting scheduled for 2004 in Ashville, NC.

The recent surge in international affiliations, however, began in 1999 when **Teresa Iturriaga** and then MSA President **George Carroll** penned an agreement between the Latin American Mycological Society (ALM) and the MSA. Past Presidents **Linda Kohn** and **Tim Baroni** continued the interest in interna-



Tim Szaro

John Taylor, MSA President 2002-2003

tional mycology by urging the MSA to support international meetings, by providing funds for MSA members to attend international meetings, and by planning MSA annual meetings as joint ventures with mycological societies of other nations. Past president **Meredith Blackwell** and **Jim Anderson** also have championed international mycology from their perch atop the IMA. This year, **Sharon Cantrell**, Chair of the MSA International Affairs Committee, has worked with MSA Secretary **Lorelei Norvell** (who graciously allowed me to use the topic of international alliances for this column), to develop this list:

"MSA Allied Mycological Societies"

African Mycological Association (AMA)
Australasian Mycological Society (AMS)
British Mycological Society (BMS) – Joint meeting at Asilomar, CA 2003
Latin American Mycological Society (ALM)
Mycological Society of China (MSC)
Mycological Society of Japan (MSJ) – Joint Meeting in Hawaii 2005

International ventures begin with personal contacts, and the MSA owes thanks for help in establishing alliances to: **Jo Taylor**, web site coordinator of the AMA, **Cheryl Grgurinovic**, President of the AMS, **Neil Gow**, President of the BMS, **Teresa Iturriaga** of the ALM, **J.C. Wei**, President of the MSC, and **Yukio Harada**, President of the MSJ.

Establishment of international alliances is certain to continue, and will be driven even faster by the on-line availability of *Mycologia*. In *Mycologia* 2002, I count authors working in 32 countries: Argentina, Austria, Belgium,

Brazil, Canada, Chile, China, Cuba, Czech Republic, Denmark, France, Germany, Guyana, India, Iraq, Japan, Korea, Italy, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, Russia, Spain, South Africa, Sweden, Switzerland, Taiwan, Venezuela, and the United Kingdom. As long as jet fuel remains available, I look forward to the joint meetings that are sure to follow.

Sincerely,
-- **John Taylor**
MSA President (2002-2003)

MSA Council Email Express

On November 11, MSA General Council approved the following:

Email Council Poll 2002b-10 – Appointment of Barbara A (“Bitty”) **Roy** as *Mycologia* Associate Editor for 2003-2005.

Email Council Poll 2002b-11 – Appointment of Garry T **Cole** as *Mycologia* Associate Editor for 2003-2005.

These two final approvals bring the *Mycologia* Associate Editor roster to its full complement of 18. The other 16 Associate Editors serving *Mycologia* beginning 2003 include Lori M **Carris**, Dennis E **Desjardin**, Larry D **Dunkle**, Roy E **Halling**, Richard W **Kerrigan**, Joyce E **Longcore**, Donald O **Natvig**, Nicholas P **Money**, Kerry L **O'Donnell**, Stephen W **Peterson**, Gary **Samuels**, Karen **Snetselaar**, Steven L **Stephenson**, Wendy A **Untereiner**, James E **White**, and Charles P **Woloshuk**. Please note that there may be a lag-time on the *Mycologia* masthead cover, but the Society's two most recently confirmed Editors will take their rightful place on the masthead by the March-April issue.

Other news from the Secretary:

- **Welcome, New Members!** Although candidates for MSA membership cannot vote until formally approved at the annual general business meeting, they do receive *Mycologia* and *Inoculum* immediately after Allen Press processes their applications. During October and November, the following seven people applied for MSA first-time membership: **United States**: Norman B **Andresen**, Michael A **Brea**, Joseph E **Faust**, Susan E **Henderson**, John M **Neville**, Cynthia L. **Raccardi**, and John J **Sabuco**.
- John C. **Cooke** and Samuel **Mazzer** have applied for MSA **Emeritus** status, which will be formally conferred after approval is voted by the general membership at the Society's annual business meeting at MSA-BMS 2003 in Asilomar.
- **DUES REMINDER**: If you haven't paid your 2003 dues by the time you read this, you're overdue! When you renew, please remember to include the extra \$10 for reinstating your name in the lists. Also, you save the Society money when you pay dues by check instead of credit card.



Where's Lorelei? According to Lorelei, this image is called “Dr Oz” because it shows their “O₂” or “Oz” 150-year old western hemlock and Douglas fir (and obviously vine-leaf maple) site.

- **Attention Committee Chairs and Representatives**: Please send your mid-year reports and/or Manual of Procedure (MOP) revisions to me at lnorvell@pnw-ms.com.
- Others wishing to forward agenda items for consideration by the **Executive Council** at the **mid-year** meeting (to be held in Berkeley, California on February 22-24) are requested to Email motions and/or ideas to me at the above Email address.
- I personally wish to congratulate Editor **Don Ruch** on his ascendancy to President-elect of the **Indiana Academy of Science**. As this means he will serve IAS as President in 2004, he will no longer serve as *Inoculum* Editor after 2003. He noted that he has great plans for the IAS newsletter, and it's possible we can lure him back in a few years to resume an outstanding editorial job.

-- **Lorelei Norvell**
MSA Secretary

MSA International Affairs Committee 2002 Report

In last years report by the previous Africa representative (Professor Pedro Crous) it was stated that there was little interaction between the African Mycological Association (AMA) and the IAC of the MSA, since the AMA had recently been inactive. Although this is still the case, the situation is improving. During IMC7 all of the African delegates, plus others with an interest in Africa, held a meeting and proposed to undertake several actions. The first was to set up an interim committee, to oversee the other actions, which consists of representatives from the different major regions of Africa. The aims of this committee are to revise and update the membership list, revisit the constitution and assist in the election of a new committee. Aside from this it was decided that a website was a necessity, so Paul Kirk (with the help of his son Jonathan) and Jo Taylor have designed this (www.AfricanMycology.org). There have been four Regional Mycological Conferences in Africa (RMC) and RMC5 is planned for 2005 to be held in Stellenbosch

in conjunction with the 43rd SASPP congress and the 4th International Workshop on Grapevine Trunk Diseases.

African mycology suffered a great blow this year with the move of two mycologists to Europe. Professor Pedro Crous is now director of CBS, but still maintains a strong link with Africa being president of the Southern African Society for Plant Pathology (SASPP). Dr Sandra Denman is now in England working as a pathologist for the Forestry Commission.

The SASPP held its annual conference, organized by Mike Wingfield and his team at FABI, which had a large mycological component and was preceded by two mycological workshops. This active society has a website (www.saspp.co.za), a list server, has annual meetings, and has four branches that hold regular regional meetings. It is hoped that the SASPP would be able to assist the African Mycologists to revitalize their association. In general, there was also a

good turnout of African mycologists at IMC7 in Oslo, showing continued interest and participation in mycology.

Professor Richard Mibey (University of Nairobi, Kenya) is a partner in the UNEP-GEF below ground biodiversity programme.

Unfortunately this report is a bit skewed towards southern Africa, but once contacts are reestablished with mycologists in the rest of Africa, I will be able to submit a more balanced status report. It is hoped that the new web site, the e-mail distribution list (hosted by the University of Pretoria), and the web site will further the goals of the AMA.

-- Joanne E Taylor, PhD

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MSA Nomenclature Committee Article 59 Vicissitudes

At the recent IMC7 in Oslo an intricate debate concerned the question as to whether Article 59 of the *International Code of Botanical Nomenclature* should be abandoned or not. What is it all about? Article 59 is a specific provision added many decades ago to comply with the needs of mycologists to give different names to fungal **anamorphs** and associated **teleomorphs**. Sexual and asexual forms of sporulation of a particular fungus can be extremely different and their connection is very often not evident but only discovered much later. When a fungus reproduces asexually (anamorphic or mitosporic) the sexual form (asci—ascospores, basidia—basidiospores) is not normally present and such material is regarded as insufficient to serve as type for the sexually sporulating (teleomorphic or meiosporic) fungus. If both forms of sporulation have

been found to belong to the same fungus we speak of a pleomorphic taxon and Article 59 is specially designed for pleomorphic fungi. It makes an exception to Principle IV of the *Code* that allows only one correct name for a particular taxonomic group. Article 59 allows “the publication and use of binary names for form-taxa when it is thought necessary or desirable to refer to anamorphs alone.” When the associated teleomorph is found later, it must be described as a new species with a new type (but it may have the same epithet as the anamorph). Teleomorph names are given precedence over anamorph names (Art. 59.4), because the morphological features of the teleomorph are usually more informative about natural affinities. The teleomorph name covers the holomorph, i.e. the whole fungus including the

anamorph. An addition, 59A.3 recommends to avoid the separate publication of anamorph names “when the teleomorphic connection is firmly established and there is no practical need for separate names.”

In the era of molecular, phylogenetic taxonomy, every fungus can be unequivocally identified, whether a teleomorph is present or not. In botanical nomenclature, there is no ruling that a type specimen must contain every form of propagation, the specimen simply represents the species. So could it be with fungi too. Hennebert (1991, 1993) distinguishes between this kind of botanical typification and the specific mycological case of anatomical typification for anamorphs which, according to present usage, cannot serve as types for a holomorphic fungus.

In present-day taxonomy, integration of anamorphic fungi in the teleomorph-based system is an absolute necessity: e.g. *Botrytis* is anamorphic *Botryotinia* (Sclerotiniaceae), as practiced in the 8th and 9th editions of the *Dictionary of the Fungi* (Kirk *et al.* 2001) and *Verticillium dahliae* is an anamorphic member of the Phyllachorales, although no appropriate teleomorph genus is known (Messner *et al.* 1996), while other species formerly classified in *Verticillium* are quite unrelated and need reclassification.

In some fungal groups, teleomorphic species are more distinctive than the associated anamorphs (e.g., *Chaetomium*, *Gaeumannomyces*); so Article 59 can be applied without complication. But problems arise when, as is often the case, teleomorphs are much less distinctive at species level than the associated anamorphs. Examples are the new (almost cryptic) species described for *Fusarium* anamorphs of the *Gibberella fujikuroi* complex (Nirenberg & O'Donnell 1998), or *Hypocrea* teleomorphs of certain common *Trichoderma* species (Lieckfeldt *et al.* 1999). According to Art. 59, it is necessary to name all these teleomorph species separately, whether the associated anamorphs have got separate names or not. While only a few *Alternaria* species are linked to teleomorphs in *Lewia* (Simmons 1986), the names of the numerous remaining, probably permanently anamorphic species have a lower or preliminary status, until a teleomorph might possibly be discovered later, and they cannot serve as names for the holomorph. To taxonomists working with molecular tools this is undesirable, and possibilities are being explored to change the situation in such a way that anamorphic taxa will become recognized in their full right (as holomorphs) so that they can be freely combined into the taxonomically appropriate taxa. This means that also the precedence of teleomorph genera over anamorph genera could be removed. It is clear that any such changes of the rules will entail numerous name changes. Any ruling to this effect that tries to reduce name changes to a minimum will be

extremely complicated (Hennebert & Gams, on CBS website <www.cbs.knaw.nl>).

The fate of Article 59 was discussed at IMC7 in Oslo. Two teams debated with each other: Team a, W. Gams, R.P. Korf & J.I. Pitt, defended retaining Art. 59 with minor changes; Team b, D.L. Hawksworth, M.L. Berbee & P.M. Kirk, defended its eventual abolition for new names. At the end, chairman Keith Seifert asked the audience to choose among three possibilities:

1: 119 votes were in favour of continued use of dual nomenclature.

2a: 6 votes favoured one name per fungus, teleomorph-typified names only.

2b: 75 votes wished to have one name per fungus, anamorph-typified names being also allowed by some mechanism.

This vote can be taken as a sign of support for no or slow changes in fungal nomenclature. The benefits of dual nomenclature to many seem to outweigh the advantages of taxonomic streamlining. Cross-referencing (e.g. *Alternaria* anamorph of *Lewia infectoria*) will become necessary anyhow, whether this particular species has a permissible separate anamorph binomial or not. With this state of affairs, the debate is by no means settled and it will go on. Contributions by Hawksworth, Hennebert and others will soon be published in *Mycotaxon*. A major text by Hennebert & Gams is available already on the CBS website <www.cbs.knaw.nl>, and other debates are efficiently distributed through a general email address <article59@kendy.up.ac.za>.

The Oslo debate may have been too complicated for many participants to follow, with all the possible implications for anamorph nomenclature, and many more mycologists may wish to participate in future discussions. Therefore all those interested in these problems are invited to participate in the deliberations.

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2003 MSA Foray

There will not be a formal foray at the meeting in Asilomar as mushrooms are "out of season" in July along the coast of California. Instead there will be one or more Wednesday (July 30) afternoon fieldtrips. We are currently making the arrangements for these trips and will have details in the next issue of *Inoculum*.

-- Don Ruch

Foray Coordinator

-- Tom Bruns

Local Arrangements

MYCOLOGICAL NEWS

Pennsylvania State University Mycological Herbarium (PACMA) Transferred to U.S. National Fungus Collections (BPI)

Mycology at Pennsylvania State University has a long and noble history including such famous mycologists as F. Kern, L. Overholts, G. Zundel, and C. Fergus. In 1913 Frank D. Kern, a rust systematist, became head of Penn State's Botany Department having previously worked at Purdue University. He and his colleagues including L. Overholts (Polyporaceae) and G. L. Zundel (Ustilaginomycetes) collected and exchanged fungi with mycologists around the world. From the time Kern was appointed until his death in 1973, fungal systematics research flourished at Pennsylvania State University. At that time C. L. Fergus became curator of the fungal collections that were part of the Herbarium at Pennsylvania State University (PAC). From 1989 to 2001 C. B. Wolfe, a mycologist at Pennsylvania State University, Mont Alto campus, served as curator of the fungus herbarium, then designated PACMA. Wolfe's research interests were centered on the systematics and evolutionary history of the ectomycorrhizal fungi of the order Boletales. These scientists and others developed an extensive reference collection of fungal specimens that numbered 67,000 including about 1,100 type specimens.

After due consideration, it was decided that the interests of mycology would be best served if PACMA were transferred to an institution with active, specimen-based mycological research. On November 14, 2002 the Mycological Herbarium of Pennsylvania State University consisting of about 365 large boxes was moved from Mont Alto, PA, to Beltsville, MD. The specimens will be incorporated into the U.S. National Fungus Collections starting with the type specimens. All specimen data will eventually be made available to scientists as part of the BPI



Erin McCray, Collections Manager, US National Fungus Collections, with Karen Snyder and Aimee Sheer in front of the 365 boxes that they packed.

specimen database. Anyone having specimens on loan from PACMA and inquiries about these specimens should contact Ms. Erin McCray, Collections Manager, U.S. National Fungus Collections, Rm. 304, B011a, 10300 Baltimore Ave., Beltsville, MD 20705, <erin@nt.ars-grin.gov>.

-- Amy Y. Rossman
301.504.5364
arossman@nt.ars-grin.gov

The British Mycological Society (BMS) Website is Up and Running!

The British Mycological Society's official website is at <<http://www.britmycolsoc.org.uk>>. The site changed almost daily during August and early September 2002 as the first phase of its development was completed. At the beginning of the year the structure of the site was changed drastically as a Dynamic Content Management System was installed. The software underlying this is a database, the content of which is accessible to and changeable by the BMS Webmaster. Mostly during August 2002, we created "news items" and added something like 120 pages of BMS documentation. We've also added about 200 external links; each of which has been verified and a descriptive paragraph composed prior to addition to the site.

If you're looking for something, head for resources! The site now has so much content that it's well worth a visit. You will find that the main pages of the site give details about the different aspects of the Society's activities. The biggest changes are in the section headed "resources". Here you will find most of the

documentation and most of the links. Not yet "everything", but a terrific amount, from application forms, books, candidiasis and Doctor Fungus, to *Verticillium*, West Weald, and yeast genomes.

"**Appointments and Studentships Vacant**" is a new section in which we can place advertisements for jobs and scholarships. It's free (at the moment!), so why not send your adverts to the Webmaster? This section includes a note what to send and how to send it.

Thanks to Mycolegium. Mycolegium, which is Royall Moore's website on Fungal Biology, formed the foundation for a lot of the material which has now been added to the current BMS website. The Society owes a great debt to Roy. He single-handedly pioneered creation of a BMS "web presence" and has provided many pages of content for the new BMS website. Live long and prosper!

-- David Moore, BMS Webmaster
webmaster@britmycolsoc.org.uk

INFORMATION/HELP SOLICITED

The 367 color illustrations in the back of the Martin and Alexopoulos monograph, "The Myxomycetes", were originally done in colored pencil by Ruth McVaugh Allen, of Riverton, New Jersey. The book was published by the University of Iowa Press in 1969, and an updated but truncated version, "The Genera of Myxomycetes" (by Martin, Alexopoulos, and Farr), was published by the same press in 1983. The plates were photographed and printed only once, in 1969, and extra sets were then held for later use in the 1983 version. Henry Aldrich saw the originals once when they were in Ruth Allen's possession, but we are unable to determine their present whereabouts. Ruth died of cancer several years ago. We would like to archive the original drawings in an accessible place, such as at the U. S. National Fungus Collections in Beltsville, but we need to locate them! The press seems not to have them, and Ruth Allen's relatives have been cooperative, but of no help. If anyone can give us a clue to the whereabouts of these color drawings, please contact **Henry Aldrich** at <haldrich@ufl.edu> or **352-392-1096** or **Steve Stephenson** at <sstephenson@mail.fscwv.edu> or **304-367-4158**.

-- **Steven L. Stephenson**, PhD
sstephenson@mail.fscwv.edu
or wvmyxo@hotmail.com

Fungal Specimens at U.S. National Fungus Collections Available for Distribution

The U.S. National Fungus Collections has many duplicate specimens. These specimens were intended for distribution as *exsiccati* but the sets were never assembled. We are willing to send them to any mycological herbarium where they might be useful. Please send a request to **Amy Rossman** <arossman@nt.ars-grin.gov>.

-- **Amy Y. Rossman**
301.504.5364
arossman@nt.ars-grin.gov

"Flora and Fauna of the Great Lakes Region"

The University of Michigan Fungus Collection (MICH), University of Michigan Library, and the Fish and Mammal Divisions of the University of Michigan Museum of Zoology are pleased to announce a new digital library resource, "Flora and Fauna of the Great Lakes Region," at <<http://www.lib.umich.edu/programs/greatlakes/index.html>>.

The web site provides access to specimen materials selected from the three museum divisions' extensive Great Lakes holdings. Of special interest to mycologists are online copies of eleven A.H. Smith and collaborators out-of-print monographs. The Krieger watercolors are also available. When complete, the resource will include eleven sub-collections, containing many images as well as collection data. A working prototype for a system to provide integrated access to all of the Museum Divisions' collections and additional content such as field notes and other supplementary information, the site is intended to facilitate access to natural history collections for the general user as well as the specialist interested in searching across collections.

Content will continue to be added to the online collections through December 2002.

This project was funded by a generous grant from the Institute of Museum and Library Services, Library-Museum Collaboration Program. For additional information, contact Terri Geitgey, Project Librarian, at <tgeitgey@umich.edu>.

-- **Robert Fogel**
rfogel@umich.edu

Report from the IVth Latin American Mycological Association (ALM) Congress

The IVth Latin American Mycological Association (ALM) Congress took place in Xalapa, Mexico, 13-17 May 2002 under the able guidance of Dr. Gastón Guzmán and his colleagues. More than 500 people attended the meeting, which included numerous symposia, contributed papers, and posters. Several pre-congress workshops were held including Taxonomy of Ascomycetes, Cultivation of Edible Mushrooms, Medical Mycology, New Teaching Methods, and Taxonomy and Isolation of Arbuscular Mycorrhizae. See <<http://lsb380.plbio.lsu.edu/Xalapa%20folder/Xalapa>> (Meredith Blackwells webpage).

Dr. **José Carmine Dianese**, Chair of the Department of Phytopathology, University of Brasilia, was elected 2002-2005 President of ALM at the business meeting. He will host the next ALM meeting in 2005 in Brasilia and looks forward to facilitating cooperation between

ALM and MSA.

-- **Mary E. Palm**, PhD
301.504.5327
mary@nt.ars-grin.gov



*Dr. José Carmine Dianese
2002-2005 President of ALM*

ISMS XVIth International Congress - First Call For Papers -

The XVIth International Congress on the Science and Cultivation of Edible and Medicinal Fungi will be held in conjunction with the 17th North American Mushroom Conference (NAMC) March 14-17, 2004 at the Fontainebleau Hilton Resort and Towers, Miami, Florida, USA. The International Congress will be organized by the American Mushroom Institute on behalf of the International Society for Mushroom Science (ISMS). Both the XVth International Congress held in Maastricht, the Netherlands in 2000 and the 16th NAMC held in Banff, Canada in 2002 were successful events in the field. The 2004 joint conferences promises to embrace the latest advances, challenges, and opportunities on a variety of subjects ranging from the most basic scientific research on fungi to the most practical issues confronting the commercial mushroom industry.

The ISMS Congress will feature invited speakers, concurrent paper presentations, and poster sessions emphasizing scientific and technical aspects relating to the cultivation, biology, molecular biology and genetics, genetics, breeding, biochemistry and physiology, development and morphogenesis, pathology, pests, nutrition, substrate preparation, spawn production, post harvest physiology, environmental impact, pharmacology, socioeconomics, economics, and marketing of edible and medicinal fungi.

Submission of Papers

The ISMS Scientific Program Committee welcomes the submission of significant, original, and unpublished research on any topic related to fungi of culinary or therapeutic importance. Please visit the main conference web site (up and running by February 1, 2003) for the complete guidelines for the submission of abstracts and full papers. Papers deemed acceptable following editorial review by the Scientific

Program Committee will be published in the formal proceedings of the Congress.

Scientific Program Committee

C. Peter Romaine, Chairman (Dept. of Plant Pathology, Penn State Univ.)
Robert B. Beelman (Dept. of Food Science, Penn State Univ.)
David M. Beyer (Dept. of Plant Pathology, Penn State Univ.)
Paul H. Heinemann (Dept. of Agricultural and Biological Engineering, Penn State Univ.)
Clifford B. Keil (Dept. of Entomology and Applied Ecology, Univ. of Delaware)
Luke F. LaBorde (Dept. of Food Science, Penn State Univ.)
Daniel J. Royse (Dept. of Plant Pathology, Penn State Univ.)

Important Dates

March 24, 2003 – Final call for papers
June 30, 2003 – Deadline for submission of abstracts
September 16, 2003 – Deadline for submission of full papers

Contact and Information

For further information, please contact:

Laura Phelps

American Mushroom Institute
One Massachusetts Avenue, NW
Suite 800
Washington, DC 20001
USA
202.842.4344 (phone)
202.842.2345 (fax)

or visit the Conference Web site at:

<http://www.americanmushroom.org/isms.htm>
(up and running by February 1, 2003).

Change of Address

Send all corrections of directory information, including e-mail addresses, directly to Allen Press
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Note: Members may also submit directory corrections via the form included in the MSA directory via the MSA Home Page: <http://www.msafungi.org>

MYCOLOGICAL CLASSIFIEDS

Read the Classifieds for announcements of courses, books for sale, employment, positions available, and mycological goods and services offered or needed.

Graduate Student Positions at Fordham University

Graduate student positions available at the Louis Calder Center of Fordham University to study fungal ecology. Specific topics include effects of disturbance (fire, defoliation) and anthropogenic effects (global change, nitrogen deposition) on fungal community properties and structure and on ecosystem processes such as carbon and nutrient cycling. Funding will be provided either as Research or Teaching assistantships, depending on availability and student background. Stipends will range between \$15,000 to \$17,000 per year, plus full tuition remission. For additional information, contact Dr. **Amy Tuininga** at tuininga@fordham.edu or by phone (914) 273-3078 ext. 13 or see http://www.fordham.edu/calder_center/.

-- **Amy R. Tuininga**, PhD
914.273.3078 ext. 13
tuininga@fordham.edu

Tropical Rainforest Mycology

Clark Ovrebo will teach Neotropical Mycology at the Institute for Tropical Ecology and Conservation (ITEC) field station, Estación Biológica Bocas del Toro, Panama, from 15 May - 11 June, 2003. For details, see www.itec-edu.org or contact Clark at covrebo@ucok.edu.

-- **Clark Ovrebo**, PhD
covrebo@ucok.edu

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-- **Steven E. Carpenter**, PhD
microbe@pioneer.net

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THE MYCOLOGIST'S BOOKSHELF

In this issue we feature books received from October through December 2002, and list previously featured books received since October 2001. I am currently sending out books for review for which I have received requests over the last several months. You should be receiving the requested books over the next several weeks. Thanks to all who have written to request a book to review and to suggest books for the bookshelf.

John Zak, BOOK REVIEW EDITOR at john.zak@ttu.edu

BOOKS AND PUBLICATIONS RECEIVED OCTOBER THROUGH DECEMBER 2002

- **Guide to Yeast Genetics and Molecular and Cell Biology.** Vols 350 and 350. 2002. C Guthrie and GR Fink (eds), Published by Academic Press, csterv.ap@elsevier.com 664pp, Vol. 351 776pp. Price: \$79.95 US each. *Review needed.*
- **Mushrooms of Nepal.** 2000. MKAdhikari, Published by: KS Adhikari, O Laurence (Mycosphere), E Sano and G Kawi, Mailing address: 21/835 Adhikari Niwas, Alka Basti, Lainchour, Behind British Embassy, GPO Box no. 841, Kathmandu, Nepal, e_sano@d2.dion.ne.jp. 236pp. Price: \$43.00 includes shipping. *Review needed.*
- **Pathogenic Fungi in Humans and Animals,** 2nd edition. Mycology Series Volume 16. 2003. DH Howard. Published by Marcel Dekker, www.dekker.com. 790pp. Price: \$225 US. *Review needed.*
- **A Revision of the Species Described in *Phyllosticta*.** 2002. HA vander Aa and S Vanev. Publisher: Centraalbureau voor Schimmelcultures, www.cbs.knaw.nl. 510pp. Price: • 50,000. *Review needed.*

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PREVIOUSLY LISTED BOOKS FROM OCTOBER 2001

- **A Laboratory Guide To Common *Penicillium* Species**, 3rd ed. 2000. JI Pitt, Copies available from Dr. JI Pitt, Food Science Australia, 16 Julius Avenue, Riverside Corporate Park, Delhi Road, PO Box 52, North Ryde NSW, 1670 Australia, John.Pitt@csiro.au, 197 pp. Price: \$65 US including shipping. *Review in Inoculum 53 (2):19-20.*
- **The *Amanita caesarea*-Complex**. Bibliotheca Mycologica No 187. 2001. G Guzman and F Ramirez-Guillen. J Cramer in der Gebruder Borntraeger Verlagsbuchhandlung, D-14129, Berlin, Germany, 66pp. Price: Unknown. *Reviewer needed.*
- **Atlas of Clinical Fungi**, 2nd edition. 2000. GS de Hoog, J. Guarro, J. Gené and MJ Figueras. Centraalbureau voor Schimmelcultures, Padualaan *, Utrecht, NL-3584 CT, The Netherlands, 1126 pp. Price: \$95.00 Euro. *Review in Inoculum 53(3):63 -64.*
- **Basic Biotechnology**, 2nd edition. 2001. C Ratledge and B Kristiansen (eds.), Cambridge University Press, The Eddinburgh Building, Cambridge CB2 2RU, UK, 568 pp. Price: \$45 US. *Review needed.*
- ***Candida* and Candidiasis**. 2001. RA Calderone (ed). ASM Press. PO Box 605, Herdon, VA 2017, books@asmusa.org, 472 pp. Price: \$100 US. *Review needed.*
- **Cell Biology of Plant and Fungal Tip Growth**. 2001. A Geitmann, M Cresti, and I B Heath (eds). NATO Science Series I. Life and Behavioural Sciences, IOS Press, Nieuwe Hemweg 6B, 1013 BG Amsterdam, Netherlands, www.iospress.nl, 241pp. Price: unknown. *Review needed.*
- **Common Florida Mushrooms**. 2000. J Kimbrough. University of Florida Institute of Food and Agricultural Sciences (IFAS), Building 116, PO Box 110810, Gainesville, FL 32611-0810, esquires@gnv.ufl.edu, 342 pp. Price: \$20 US + shipping. *Review needed.*
- ***Colletotrichum*: Host Specificity, Pathology, and Host-Pathogen Interaction**. 2000. D Prusky, S Freeman, and M Dickman (eds.). APS Press, 3340 Pilot Knob Road, St. Paul MN 55121-2097. Aps@scisoc.org, or APS Press Europe Branch Office, Brokestraat 47, B-3001, Heverlee, Belgium, apspress@pophost.eunet.be, 448 pp. Price: \$99 US. *Requested from publisher.*
- **The Deuteromycetes: Mitosporic Fungi Classification and Generic Key**. 2000. E Kiffer and M Morlet. Science Publishers Inc. PO Box 699, Enfield, NH 03748. The book is a translation of: Les Deuteromycetes Classification et Cles d'Identification Generique. 1997. Text updated by the authors for the English edition in 1999. 273 pp. Price: \$85 US. *Reviewed in Inoculum vol 52(6):33.*
- **Dictionary of the Fungi**, 9th edition. 2001. PM Kirk, PF Cannon, JC David, and JA Stalpers (eds.). CABI Bioscience, Bakeham Lane, Egham, Surrey, TW20 9TY, UK, www.cabi.org, 655 pp. Price not confirmed. *Review in progress.*
- ***Dictyostelium*: Evolution, Cell Biology, and the Development of Multicellularity**. 2001. RH Kessin and J Franke, Cambridge University Press, The Edinburgh Building, Cambridge CB2 2RU, UK. Price: \$90.00 US. *Review in Inoculum 53(2): 18-19.*
- **A Dictionary of Plant Pathology** 2nd edition. 2001. P Holliday. Cambridge University Press, The Edinburgh Building, Cambridge CB2 2RU, UK, www.cambridge.org, 536pp. Price: Hardback - \$120 US, Paperback - \$45 US. *Review needed.*
- **Dimorphism in Human Pathogenic and Apathogenic Yeasts**. 2000. JF Ernst and A Schmidt (eds.). S Karger Publishers, Inc., 26 West Avon Road, POBox 529, Farmington, CT 06085, 246pp. Price: \$109 US. *Review needed.*
- **Flora Agaricina Neerlandica: Volume 4. Strophariaceae, Tricholomataceae**. 2000. C Bas, THW Kuyper, NE Noordeloos, and EC Vellinga (eds.). AA Balkema Uitgevers B.V., Postbus 1867, NL-3000 BR Rotterdam, Nederlands, sales@balkema.nl, 191 pp. Price: Hfl 2.2.
- **Fungi in Marine Environments**. Fungal Diversity Research Series 7. 2002. KD Hyde (ed), Fungal Diversity Press, Center for Research in Fungal Diversity, Department of Ecology & Biodiversity, The University of Hong Kong, Pokfulam Road, Hong Kong, kdhyde@hkucc.hku.hk. 397 pp. No price provided. *Review needed.*
- **Fungal Associations**, The Mycota Vol 9. 2000. B Hock (ed). Springer-Verlag New York, Inc, 175 Fifth Avenue, New York, NY 10010, textbooks@springer-ny.com, 250 pp. Price: \$159 US. (Hardcover). *Requested from publisher.*
- **Fungal Conservation: Issues and Solutions**. 2001. D More, MM Nauta, SE Evans, and M Rotheroe (eds.), Cambridge University Press, The Edinburgh Building, Cambridge CB2 2RU, UK, www.cambridge.org, 262pp. Price: \$95 US. *Review in progress.*
- **Fungal Pathogenesis: Principles and Clinical Applications**. 2002. RA Calderone, and RL Cihlar (eds.). Marcel Dekker, Inc., 270n Madison Ave., New York, NY. 10016, http://www.dekker.com, 762 pp. Price: \$195 US. *Review in progress.*
- **Fungal Protoplasts: A Biotechnological Tool**. 2000. D Lalithakumari, Science Publishers, Inc, PO Box 699, Enfield NH 03748, info@scipub.net, 184 pp. Price: \$50 US. *Review needed.*
- **Fungal Strategies of Wood Decay in Trees**. 2000. FWMR Schwarze, J Engels, and C Mattheck. Springer-Verlag New York Inc, 175 Fifth Ave.,

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- New York, NY 10010, link@springer-ny.com, 220 pp. Price: \$54 US. *Book requested from publisher.*
- **Funghi Ipogei d'Europa.** 2000. A Montecchi and M. Sarasini. Fondazione centro Studi Micrologici dall'Associazione Micologica Bresadola, PO Box 296, 36100 Vicenza, Italy, 714 pp. Price: unknown. *Review in progress.*
 - **Funghi Ipogei d'Europa.** 2000. Associazione Micologica Bresadola, Via A. Volta, 46 - 38100 Trento, Italia *Book requested from publisher.*
 - **Fungi as Biocontrol Agents: Progress, Problems, and Potential.** 2001. T Butt, C Jackson, and N Magan (eds.). CABI Bioscience, Bakeham Lane, Egham, Surrey, TW20 9TY, UK. 416 pp. Price not confirmed. *Review in progress.*
 - **Fungi in Bioremediation.** 2001. GM Gadd (ed.). Cambridge University Press, The Edinburgh Building, Cambridge CB2 2RU, UK, www.cambridge.org. Price: \$120 US. *Review in process.*
 - **Fungi in Marine Environments.** Fungal Diversity Research Series 7. 2002. KD Hyde (ed), Fungal Diversity Press, Center for Research in Fungal Diversity, Department of Ecology & Biodiversity, The University of Hong Kong, Pokfulam Road, Hong Kong, kdhyde@hkucc.hku.hk. 397 pp. No price provided. *Review needed.*
 - **Fusarium: Paul Nelson Memorial Symposium.** 2001. BA Summerell, JF Leslie, D Backhouse, WL Bryden, and LW Burgess (eds.), APS Press, 3340 Pilot Knob Road, St. Paul MN 55121-2097, www.shopapspress.org, 408 pp. \$59 US. *Review needed.*
 - **Genera of Ascomycetes from Palms.** 2000. KD Hyde, JE Taylor, J Frohlich (eds.). Fungal Diversity Press, The center for Research in Fungal Diversity, Department of Ecology & Biodiversity, Kadoorie Biological Sciences Building, The University of Hong Kong, Pokfulam Road, Hong Kong SAR, China, kdhyde@hkucc.hku.hk, Price: \$100 US. + \$16 for air mail. *Requested from publisher.*
 - **Hemp Diseases and Pests: Management and Biological Control.** 2000. JM McPartland, RC Clarke, DP Watson. CABI Publishing: Wallingford, Oxon, OX10 8DE, UK. 251 pp. Price: Hardback - \$90 US. *Reviewed in Inoculum 52(1):15-16.*
 - **Illustrated Dictionary of Mycology.** 2000. M Ulloa and RT Hanlin. APS Press, 3340 Pilot Knob Road, St. Paul MN 55121-2097. Aps@scisoc.org, or APS Press Europe Branch Office, Brokestraat 47, B-3001, Heverlee, Belgium, apspress@pophost.eunet.be, 448 pp. Price: \$99 US. *Requested from publisher.*
 - **Illustrated Genera of Trichomyces: Fungal Symbionts of Insects and Other Arthropods.** 2000. JK Misra and RW Lichtwardt. Science Publishers, Inc., PO Box 699, Enfield, NH 03748, info@scipub.net. 155 pp. Price: \$30 US. *Review needed.*
 - **Leptographium Species: Tree Pathogens, Insect Associates, and Agents of Blue-Stain.** 2002. K Jacobs and MJ Wingfield, APS Press, 3340 Pilot Knob Road, St. Paul MN 55121-2097, www.shopapspress.org, 224 pp. \$69 US. *Review needed.*
 - **Les Champignons Forestiers, Recolte, Commercialisation et Conservation de la Resource** (Conference proceedings, articles in French and English). 2000. JA Fortin and Y Piche (eds.), CRBF, Universite Laval, Quebec, Canada, G1K 7P4. 119 pp. *Review needed.*
 - **Lichens.** W. Purvis. 2000. Smithsonian Institution Press, Washington, DC. 112 pp. Price: \$14.95 US. Available through the Smithsonian Institution Press Warehouse at 1-800-782-4612 or at amazon.com or borders.com. *Reviewed in Inoculum 52 (3):72.*
 - **Lichens of Antarctica and South Georgia: A Guide to their Identification and Ecology.** Studies in Polar Research. 2001. DO Ovstedal and RL Lewis-Smith. Cambridge University Press, The Edinburgh Building, Cambridge CB2 2RU, UK, www.cambridge.org, 411pp. Price: \$100 US. *Reviewed in Inoculum 53(4):20-21.*
 - **Lichens of North America.** 2001. IM Brodo, SD Sharnoff, and S Sharnoff. Yale University Press, P.O.Box 209040, New Haven, CT 06520, 795pp. Price: \$70 US. *Review in progress.*
 - **Marine Mycology – A Practical Approach.** 2000. KD Hyde and SP Pointing (eds.). Fungal Diversity Press, The center for Research in Fungal Diversity, Department of Ecology & Biodiversity, Kadoorie Biological Sciences Building, The University of Hong Kong, Pokfulam Road, Hong Kong SAR, China, kdhyde@hkucc.hku.hk, 376 pp. Price: \$100 US. + \$16 for air mail. *Requested from publisher.*
 - **Microbial Endophytes.** 2000. CW Bacon, JF White, Jr (eds). Marcel Dekker, Inc, New York. 487 pp. *Review in process.*
 - **Microorganisms in Home and Indoor Work Environments.** 2001. B Flannigan, RA Samson, and JD Miller (eds.), Taylor & Francis, 11 New Fetter Lane, London EC4P 4EE, 490 pp. Price: Unknown. *Review needed.*
 - **Molecular Biology of Fungal Development.** (Mycology Series/15). 2002. HD Osiewacz, Marcel Dekker, Inc. Cimarron Road, PO Box 5005, Monticello, NY 12701-5185, bookorders@dekker.com, 608 pp. \$195 US. *Book requested from publisher.*
 - **Molecules, Morphology and Classification: Towards Monophyletic Genera in the Ascomycetes. Studies in Mycology 45.** 2000. KA Seifert, W Gams, P W Crous, GJ Samuels. Centraalbureau voor Schimmelcultures: Baarn/Delft, The Netherlands. 230 pp. Price: 100 HLG. *Reviewed in Inoculum 52(5):27-28.*

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- **Molecular and Cellular Biology of Filamentous Fungi.** 2001. N Talbot (ed). Oxford University Press, Great Clarendon Street, Oxford OX2 6DP, UK. www.oup.co.uk.pas, see Practical Approaches Series for additional information, 267pp. price: \$115 US. *Review needed.*
- **A Monograph of *Bionectria* (Ascomycota, Hypocreales, Bionectriaceae) and its *Clonostachys Anamorphs*,** (Studies in Mycology 46). 2001. H-J Schroers, Centraalbureau voor Schimmelcultures, PO Box 85167, Fungal Biodiversity Center, Utrecht, The Netherlands, www.cbs.knaw.nl. Price: 20,000 Euro. *Review needed.*
- **Mr. Bloomfield's Orchard: The Mysertious World of Mushrooms, Molds, and Mycologists.** 2002. N. Money. Oxford University Press, 198 Madison Ave., New York, NY 10016-4314. www.oup.com. 208 pp. \$26 US. *Review needed.*
- **Mushroom Science XV, Science and Cultivation of Edible Fungi.** 2000. LJLD. Van Griensven (ed). AA Balkema, PO Box 1675, 3000 BR Rotterdam, Netherlands <www.baklema.nl.com>, Ashgate Publishing, Old Post Road, Brookfield, VT 05036, Volume 464 pp. Volume 2 pages 467-964, Hardbacks Price: \$160 U.S. www.ashgate.com, orinfo@ashgate.com. *Reviewed in Inoculum 52 (3):72-73.*
- **Mushrooms of CapCod and the National Seashore.** 2001. AR Bessette, AE Bessette, and WJ Neill. Syracuse University Press, 621 Skytop Rd, Suite 110, Syracuse, NY 13244-5290, sumweb.syr.edu/su_press/, 174pp. Price: Hardback - \$60 US, Paper - \$27 US. *Review needed.*
- **Mushrooms of Hawai'i: An Identification Guide.** 2002. DE Hemmes and DE Desjardin, Ten Speed Press, Berkeley, CA 94707, sarahg@tenspeed.com, 224 pp. Price: \$40 US. *Review needed.*
- **The Mycota Vol VII A & B, Systematics and Evolution.** 2001. DJ McLaughlin, EG McLaughlin, and PA Lempke (eds.). Springer-Verlag New York, Inc., PO Box 19386, Newark, NJ 07195-9386, service@springer-ny.com, Part A 366 pp, Part B 259 pp. Price: Part A is \$215 US, Part B is \$159 US. *Review needed.*
- **Mycotoxin Protocols. Methods in Molecular Biology Vol. 157.** 2000. MW Truckess, AE Pohland (eds.). Humana Press Inc: 999 Riverview Drive, Suite 208, Totowa, NJ 07512 USA. 244 pp. *Review needed.*
- **Myxomycetes: A Handbook of Slime Molds,** paperback edition, 2000. SS Stephenson, H Stempen. Timber Press, Inc, 133 SW Second Avenue, Suite 450, Portland OR 97204, mail@timberpress.com, 183 pp. Price: \$19.95 US. *Review in progress.*
- **The Neurospora Compendium.** 2000. DD Perkins, A Radford, and MS Sachs. Academic Press, 6277 Sea harbor Drive, Orlando FL 32887, or 24-28 Oval Road, London NW1 7DX, UK, ap@acad.com. 350pp. Price: \$85 US. *Requested from publisher.*
- **North American Boletes: A Color Guide to the Fleshy Pored Mushrooms.** 2000. AE Bessette, WC Roody, AR Bessette. Syracuse University Press, 621 Skytop Road, Suite 110, Syracuse, NY 13244-5290, twalsh01@syr.edu. 356 pp. Price: \$95 US. *Reviewed in Inoculum 52(3):73-74.*
- **Nomenmyx. A Nomenclatural TaxaBase of Myxomycetes.** Vol 16 in the Series Cuadernos de Trabajo de Flora Micológica Ibérica. 2001. C Lado. Consejo Superior de Investigaciones Científicas, Real Jardín Botánico, Plaza de Murillo, 2-28014 Madrid, Spain. lado@ma-rjb.csic.es, 219 pp. \$15.63 US. *Review needed.*
- **Palm Microfungi.** 2000. J Frolich and KD Hyde (eds.), Fungal Diversity Press, The center for Research in Fungal Diversity, Department of Ecology & Biodiversity, Kadoorie Biological Sciences Building, The University of Hong Kong, Pokfulam Road, Hong Kong SAR, China, kdhyde@hkucc.hku.hk. Price: \$100 US. + \$16 for air mail. *Requested from publisher.*
- **The Rainbow Beneath my Feet: A Mushroom Dyer's Field Guide.** 2001. AR Bessette and AE Bessette. Syracuse University Press, 621 Skytop Rd, Suite 110, Syracuse, NY 13244-5290, sumweb.syr.edu/su_press/, 176pp. Price: Unknown. *Review needed.*
- **Slayers, Saviors, Servants, and Sex: An Expose of the Kingdom Fungi.** 2001. D Moore. Springer Verlag Customer Service, PO Box 2485, Secaucus, NJ 07096, orders@springer-ny.com. Price not confirmed. *Book requested from publishers.*
- **Stem Rust of Wheat: From Ancient Enemy to Modern Foe.** 2001. PD Peterson, APS Press, 3340 Pilot Knob Road, St. Paul MN 55121-2097, www.shopapspress.org, 168 pp. \$69 US. *Review needed.*
- **Symbiosis: An Introduction to Biological Associations,** 2nd edition. 2000. S Paracer and V Ahmadjian, Oxford University Press, 2001 Evans Road, Cary, NC 27513, 304 pp. Price: \$35 US (Softcover). *Book requested from publisher.*
- **Synopsis of Fossil Fungal Spores, Mycelia and Fructification.** 2000. RM Katgutkar and J Jansonius. Order from: Vaughn M Bryant, Jr., Secretary AASP Foundation, c/o Palynology Laboratory, Texas A&M University, College Station, TX 77843-4352, vbryant@neo.tamu.edu, 423pp. Price: \$33 US. *Reviewed in Inoculum 52 (3):74-75.*
- **Taxonomy and Pathology of *Cylindrocladium (Calonectria)* and Allied Genera.** 2002. PW Crous. APS Press, 3340 Pilot Knob Road, St. Paul MN 55121-2097, www.shopapspress.org, 294 pp. \$69 US. *Review needed.*

THE MYCOLOGIST'S BOOKSHELF *concl'd*

▪ **Tropical Mycology: Volume 1. Macromycetes.** 2001. R Watling (ed). CABI Bioscience, Bakeham Lane, Egham, Surrey, TW20 9TY, UK. 208 pp. Price not confirmed. *Review needed.*

▪ **Yeasts: Characteristics and Identification.** 3rd edition. 2000. JA Barnett, RW Payne, D Yarrow. Cambridge University Press, The Edinburgh Building, Cambridge CB22RU, UK. 1139 pp. Price: \$320 US Hardback. *Review needed.*

CALENDAR OF EVENTS

Event dates and descriptions precede event locations (italic boldface), contacts (plain font), and Email/Websites (bold face, no brackets). Those wishing to list upcoming mycological courses, workshops, conventions, symposia, and forays in the Calendar should submit material formatted as shown below and include complete postal/electronic addresses.

MSA Awards Nominations

2003 (March 31). MSA Awards Nominations Closing Date -- Including: MSA Distinctions (Distinguished Mycologist, Alexopoulos Prize, Weston Award for Excellence in Teaching) MSA Graduate Fellowships Martin-Baker Endowment Fund AH & HV Smith Research Fund Forest Fungal Exology Research Award Mentor Student Travel Awards MSA Fellows Award MSA Honorary Members
DETAILS: *Inoculum* 53(6):15-19
Donald G Ruch, Editor
druch@bsu.edu
<http://msafungi.org>

General Calendar

2003 (May 25-29). International Society for Human and Animal Mycology.
San Antonio, TEXAS
Heather Drew
Imedex@®, Inc.
770.751.7332
www.imedex.com
<http://www.isham.org>

2003 (July 27 - 31). 2003 MSA Annual Meeting.
Asilomar, CALIFORNIA

2003 (August 10-15). Fourth International Conference on Mycorrhizae (ICOM 4)
DETAILS: *Inoculum* 53(4):19.
Montréal, QUÉBEC
Yolande Dalpé
ECORC / AAC
Ottawa K1A 0C6 Canada
613-759-1381 (phone)
dalpey@em.agr.ca
<http://www.congresbcu.com/icom4>

2003 (August 17-23). Fourth International Symbiosis Congress.
DETAILS: *Inoculum* 53(3):61
Halifax, NOVA SCOTIA
David Richardson
902-420-5493 (phone)
david.Richardson@stmarys.ca
<http://people.bu.edu/dzook/>

2003 (September 22-27). 14th Congress of European Mycologists.
Yalta, Crimea, UKRAINE
XIV CEM Secretariat
Department of Mycology
M. G. Kholodny Institute of Botany
Tereshchenkivska Steet 2
UA-01601 Kiev, Ukraine
xivcem@symbiosis.kiev.ua
<http://www.biodiversity.ac.psiweb.com/14cem>

2003 (September 28 - October 4). 21st foray of the European Cortinarius Society/21es Journées européennes du Cortinaire.
Podbanské, SLOVAKIA
Slovak Mycological Society
Institute of Botany
Dúbravská 14
SK-842 23 Bratislava, Slovakia
botumyko@savba.sk
<http://www.jec-cortinarius.org> and/or
<http://fungi.sav.sk/jec21>

2004 (March 14-17). ISMS XVIth International Congress.
DETAILS: *Inoculum* 54(1):10
Miami, FLORIDA
Laura Phelps
American Mushroom Institute
One Massachusetts Avenue, NW
Washington, DC 20001 USA
202.842.4344 (phone)
202.842.2345 (Fax)
<http://www.americanmushroom.org/isms.htm>

2004. MSA Annual Meeting.
Asheville, NORTH CAROLINA

2005. MSA Annual Meeting.
HAWAII

MYCOLOGY ON-LINE

The BRITISH MYCOLOGICAL SOCIETY (BMS) Website is Up and Running!
<http://www.britmycolsoc.org.uk>

For details see page 8 of this issue. The site changed almost daily during August and early September 2002 as the first phase of its development was completed. At the beginning of the year the structure of the site was changed drastically as a Dynamic Content Management System was installed. The software underlying this is a database, the content of which is accessible to and changeable by the BMS Webmaster. Mostly during August 2002, we created "news items" and added something like 120 pages of BMS documentation. We've also added about 200 external links; each of which has been verified and a descriptive paragraph composed prior to addition to the site.

MYCOLOGY ON-LINE DIRECTORY

Below is an alphabetical list of websites featured in *Inoculum* during the past twelve months. Those wishing to add sites to this directory or to edit addresses should Email <druch@bsu.edu>. **Unless otherwise notified**, listings will be automatically deleted after one year (at the editors discretion). * = New or Updated info (most recent *Inoculum* Volume-Number citation)

- ASCOMYCOTA – NEW CLASSIFICATION (51-5)
<http://194.131.255.3/cabipages/Names/FundicNew.asp>
- ASOCIACION LATINOAMERICANA DE MICOLOGIA (51-5)
<http://www.ecologia.edu.mx/alm/>
- AUSTRALASIAN MYCOLOGICAL SOCIETY WEBSITE FOR INTRODUCTORY FUNGAL BIOLOGY (53-4)
<http://bugs.bio.usyd.edu.au/mycology/default.htm>
- BIBLIOGRAPHY OF SYSTEMATIC MYCOLOGY (51-6)
<http://194.131.255.3/cabipages/BSM/bsm.htm>
- BRITISH MYCOLOGICAL SOCIETY (54-1)
<http://britmycolsoc.org.uk>
- EUROPEAN POWDERY MILDEWS (52-2)
<http://nt.ars-grin.gov>
- FUNGA VERACRUZANA (53-6)
<http://www.uv.mx/institutos/forest/hongos/funga-vera/index.html>
- HADRIANUS JUNIUS STINKHORNS (52-2)
<http://www.collectivesource.com/hadrianus>
- IMC7 (51-3)
<http://lsb380.plbio.lsu.edu/ima/index.htm>
- ING (INDEX NOMINUM GENERICORUM) DATABASE (52-5)
<http://rathbun.si.edu/botany/ing/ingForm.cfm>
- INTERACTIVE CATALOGUE OF AUSTRALIAN FUNGI (52-1)
<http://www.rbgmelb.org.au/fungi/>
- INTERACTIVE KEY, DESCRIPTIONS & ILLUSTRATIONS FOR *HYPOMYCES* (52-6)
<http://nt.ars-grin.gov/taxadescriptions/hypomyces/>
- MSA BULLETIN BOARD (51-5)
<http://msafungi.org/bulletinboard/>
- MYCOLOGIA ON-LINE (53-3, page 18)
<http://www.mycologia.org>
- MYCOLOGICAL PROGRESS (52-3)
<http://www.botanik.biologie.uni-muenchen.de/botsyst/mycpro.html>
- MYCOSEARCH WEB DIRECTORY/SEARCH ENGINE (51-5)
<http://www.mycosearch.com>
- MUSHROOM WORLD [NEW KOREAN/ENGLISH SITE IN 2001] (51-6)
www.mushworld.com
- NAMA POISON CASE REGISTRY (51-4)
<http://www.sph.umich.edu/~kwcee/mpcr>
- PATHOGENIC FUNGI FROM SOUTH AFRICA (52-4, page 29)
<http://nt.ars-grin.gov/fungaldatabases/southafrica>
or <http://www.saspp.co.za/>
- SYSTEMATICS OF THE SAPROLEGNIACEAE (53-4)
<http://www.ilumina-dlib.org>
- WEB MSA (51-6)
<http://msafungi.org>



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