

NJMA NEWS

New Jersey Mycological Assn.

January - February 1984

COMING EVENTS

Sunday, March 11, 2:00 P.M., SCEEC

At our March Meeting Dr. Allan Bessette, Utica College of Syracuse University, will be our visiting lecturer. Boletes, a familiar but inexhaustible topic will be the subject of his presentation.

Sunday, April 8, 2:00 P.M., SCEEC

Dr. Tim Baroni of the State University of New York at Cortland will be concluding our lecture series with a presentation on the pink spored agarics, a new topic in our lecture series, specialty of Dr. Baroni.

August 16 - 19, Glassboro State College

Note this date!!! on which the 1984 Northeastern Mycological Foray will explore the mycological world of the New Jersey Pine Barrens, a mostly unexplored area in this respect. Attendees will be housed at Glassboro State College. Further details and registration information will be published in our next newsletter.

LAST CALL

... for dues for 1984. For those who have not paid yet, this is the last newsletter coming your way. Membership fees are: \$10.00 for individual and \$15.00 for family. Checks are payable to NJMA and should be sent to Grete Turchick, [REDACTED]
[REDACTED]

MEETING NOTES

Our winter season began on November 6th with Gertrude Espenscheid's slide illustrated talk on the China Study Tour which was sponsored by NAMA this past season. In this newsletter we are printing Gertrude's delightful account for everyone's enjoyment. Many thanks to Gertrude for sharing her experiences with us.

On December 11th the NJMA photo contest was held. The judge for this year was Erwin Streisinger, an amateur and by now an NJMA member. He has unmentionably many years of experience, most of it in nature photography. As we projected the slides, Erwin spoke individually about each, discussing its strong and its not so strong points. Each was evaluated based on exposure, composition and, in the technical category, on its usefulness in field identification. Two categories were judged: pictorial and technical. The winners were selected from 51 entries in the pictorial and 39 in the technical categories.

Pictorial: 1st prize - Armillariella mellea , Ray Fatto
2nd prize - Phlogiotis helvelloides, Sue Hopkins
3rd prize - Coprinus impatiens, Al Northup
Honorable Mention -
Oysters on Tupelo, Anna Gerenday
Boletes, Rudy Peterson
Morchella angusticeps, Dorothy Smullen

Technical: 1st prize - Marasmius pucheripes, Dorothy Smullen
2nd prize - Pulveroboletus ravenellii, Ray Fatto
3rd prize - Xerocomus chrysenteron, Ray Fatto
Honorable Mention -
Calostoma cinnabarina - Rudy Peterson
Leccinum rubropunctum - Ray Fatto
Tylopilus alboater - Ray Fatto

Congratulations to the winners!!

Following NJMA tradition, the slide contest was followed by the Christmas party. The excellent foods and desserts created a cheerful Christmas atmosphere. Thank you all for the generous contributions for the party table and many thanks to Linda Manailovich and Paul Meyer for providing the efficient hospitality for this occasion as well as for all the other membership meetings.

On December 28th, in spite of the poor road conditions, over twenty people gathered to hear Dr. Homola's lecture on Lactarius. Dr. Homola first described the general characteristics of the family Russulaceae. That was followed by slides of 54 species grouped according to latex color and arranged so that similar species followed each other.

There was also a surprise - a lecture on Odors Produced by Mushrooms. Many fungi possess the odors which characterize our favorite spices and garden herbs - cinamon, chives, licorice. Dr. Homola passed around vials of dried herbs for sampling the odors. Slides of the fresh specimens and of the mushroom counterparts followed - Clitocybe odora, Pleurotus sapidus, Pleurotus ostreatus ... But not all mushrooms have pleasant odors, and no list would be complete without Dictyophora duplicata and Phallus ravenellii.

During the January general meeting elections of the officers for 1984 took place. The slate of candidates was accepted as presented by Nominating Committee Chairperson Sue Hopkins. The elected officers for 1984 are:

Anna Gerenday - President
Bob Simmons - Vice President
Bernice Fatto - Secretary
Grete Turchick - Treasurer

Congratulations to the elected!

After the elections NJMA member Rod Tulloss presented a slide illustrated lecture on the genus Amanita. Rod has been seriously studying this group for about five years, and his achievements are impressive. Rod described the identifying macroscopic and microscopic characters of the genus and indicated the taxonomic problems encountered in the group. He encouraged everyone to undertake or to participate in serious studies. Some of the projects he suggested for amateurs are:

Helping to organize the white Amanitas in section Phalloideae;
Being on the lookout for A. aestivalis (found only by Rolf Singer);
Helping to group collections in the Section Vaginatae;
Working on collections of specific mushrooms in N.J.;
collecting and photographing them (for ex.: chlorinosma, cineroconia, wellsii).

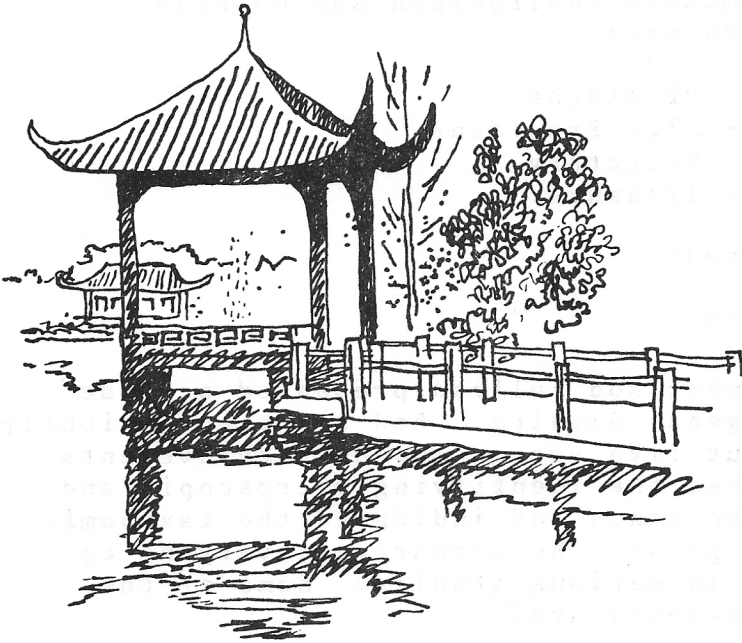
Rod would be interested to hear from people with questions regarding projects and with interesting finds of the genus Amanita. His phone number is 609-448-5096.

In his lecture Rod also emphasized the importance of good collecting habits. He urged everyone attending NEMF this summer (pine Barrens, Glassboro State College), or any NJMA foray during the year to label collections clearly with collecting site or foray number and to note trees in the vicinity.

IN PASSING

Members of NJMA wish to express their deepest sympathy to Joe Kuczynski, whose wife passed away just before Christmas, after a long illness.

We sadly note the passing of one of our long time members, Virginia S. Peterson of Bernardsville, who died of cancer on August 26, 1983.



The Wild Mushroom Study Tour of China, October 2-23, 1983, was a great pleasure and a big learning experience. We were welcomed at pre-arranged meetings at universities and various institutes of Edible Mushrooms, Botany, Microbiology and Materia Medica in Peking, Shanghai, Kunming, Canton and Hong Kong. We saw many species being cultivated, saw them in the markets and ate everything from Termitomyces albuminosus which is really cultivated by termites and is sweet and delicious, to Dictyophora rubrum which looks very funny in a clear broth. They cultivate: Lentinus edodes (shitake), Tremella fusiformis, Auricularia (mu er), Agaricus bisporus and brunescens,

Volvariella volvacea (straw mushroom), Ganoderma lucida (ling tse), Stropharia, Polyporus umbellatus (tu ling), Hericium, Flammulina velutipes (enotake) as well as the Termitomyces and Dictyophora. You may know that cultivated F. velutipes in no way resembles the wild plant. That is in Gary's book but I hadn't read it. An amazing variety of natural substances are used as substrate, but the main ingredients seem to be meticulous care and endless patience.

We learned that they have had success in using an extract derived from the sclerotia of Polyporus umbellatus in cancer treatment of mice, demonstrating that the fungal extract has a tumor-inhibiting, anti-tumor effect (Institute of Materia Medica, Academy of Traditional Medicine, Peking). A large number of fungi are used in medicine.

At the University of China in Hong Kong, Dr. Chang talked about cultivation methods. Temperature is often critical. While we were there it was about 90 F, too hot for Lentinus edodes to fruit. We saw ice cubes on the fruiting sawdust substrate. Chang said L. edodes is used in preventing the common cold, for reducing blood cholesterol, to increase sexual potency and for control of bowel elimination. Then he showed us slides including some somewhat porno cartoons illustrating all the claims for L. edodes, after which he said "The reputation of shitake is not all imagination, but it is not so solid for science". A charming man.

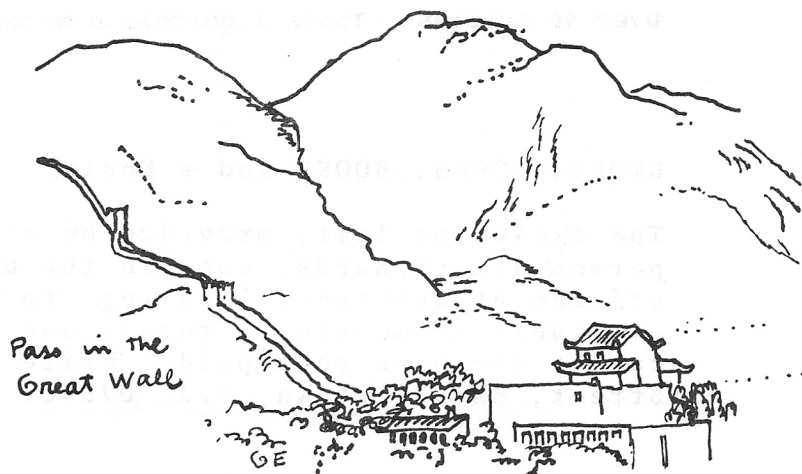
Gary Lincoff, Drs. Andrew Weil and Emmanuel Salzman had planned a great trip. Lincoff and Weil gave good lectures. So did Paul Stamets on cultivation. He surprised us: Cantherellus cibarius is six-spored! The weather was quite dry so foraging was limited but we had one beautiful walk along the side of a mountain near Kunming overlooking a river estuary, and found 72 species.

We left China impressed by the friendly, courteous and industrious people, the beautiful happy children (Chinese babies do not cry!), the serene loveliness

of the countryside and the extensive creation of arable land through irrigation and terracing. We remember the excellence of market vegetables and the ingenuity of Chinese cooks. Meals were often a delight of taste and texture sequences. Lunch at the XIN JIN People's Commune where we expected to have rice and soup with the workers, was in fact a memorable and elegant feast of nineteen courses.

Hotels were good to luxurious except for one stinking damp old place in Hot Springs, where no one wanted to go (you go where the Chinese tell you to go). But there Dr. Weil gave us a rich and informative impromptu lecture on Chinese medicine, and the next night we were back in the new and superb White Swan Hotel in Canton.

It was there that Kim Patterson and Paul Stamets invited us into their room to see two very quiet owls that they had bought in the marketplace. Wild birds are eaten in China. That night with a little ceremony in the park, the owls were released and given their freedom.



Gertrude Espenscheid

QUESTING FOR MYCOLOGICAL GEMS DURING THE WINTER SOLSTICE

I celebrated the shortest day of the year again with my mushroom basket in hand. My first junket took me to the alder grove - the Tiffany's of the mycological world! There were jewels everywhere! Take the jellies, Exidia glandulosa and Tremella mesenterica. Among the poroids, Poria punctata, Daedaleopsis confragosa, Ganoderma applanatum, the rare Fomes scutellatus, Polyporus versicolor, hirsutus, cinnabarinus, radiatus, albellus, lacteus, brumalis and pubescens. Ascomycetes Daldinia concentrica, Hypoxyton fuscum. Other prizes were: Hymenochaete corrugata, Phlebia radiata, Stereum complicatum, Laxitextum bicolor, Trogia crispa and Panellus stipticus.

And on to my elm grave yard where I plucked the following: P. squamosus, conchifer, adustus, Lopharia cinerescens (with giant cystidia protruding from the hymenium), and a fresh cluster of Flammulina velutipes. Under the living branches of white pine were large, brown concentric circles of Septobasidium pinicola, the embalmer of pine aphids.

On to the spruce forest for more exciting gems such as Fomes subroseus, F. pinicola, Lenzites saepiaeria and Dacrymyces palmatus.

Snooping through the birch grove I located several giant clinker fungi - Poria obliqua protruding from wounds, Fomes ignarius, F. fomentarius, Piptoporus betulinus and Trogia crispa.

In the wounds of red maple were Fomes connatus decorated with moss. The down

poplars contained the inseparable Stereum rufum and Phlebia strigosa-zonata. Along the river were cherry trees deformed by the gall former, Apiosporina morbosa and ironwood with its specific trade mark, Sericeum striatum.

And on the dog-leg home I had more good luck - a sign that my winter solstice supplications to the druids were favorably received. Among the interesting findings were - Hydnochaete olivaceum on the underside of oak branches, apricot colored pustules of Tubercularia vulgaris on maple stumps, and clusters of tiny yellow saucers of Bisporella citrina.

Over 40 species! Those lignicolous mycological jwerels are awaiting you too!

Sam Ristich

BOOKS, BOOKS, BOOKS and a Poster

The following list, provided by our hard working Book Sales Chairperson Jim Richards, contain the books (and a poster) which are offered at substantial savings to NJMA members. They are available at meetings, forays and at the Fungus Fest. Mail orders can be arranged post paid. Write to Jim Richards, [redacted] Street, [redacted].

BOOKS AVAILABLE AT MEETINGS AND FUNGUS FEST 1984

Title	Author	Price	
		Non-Mmbr	Mmbr
The Agaricales (Gilled Mushrooms) of Cal.			
1. Amanitaceae	Thiers	4.50	3.50
Ainsworth & Bisby's Dictionary of the Fungi	Ainsworth et al	22.50	20.00
Audubon Society Field Guides			
North American Birds	Bull & Farand	12.50	10.00
North American Butterflies	Pyle	12.50	10.00
North American Insects & Spiders	Milne & Milne	12.50	10.00
North American Mushrooms	Lincoff	12.50	10.00
North American Rocks and Minerals	Chesterman	12.50	10.00
North American Trees (Eastern Region)	Little	12.50	10.00
North American Trees (Western Region)	Little	12.50	10.00
North American Wildflowers (East)	Niering & Olmstead	12.50	10.00
The Boletes of Michigan	Smith&Thiers	24.00	19.00
The Club & Coral Mushrooms (Clavaria)			
of U.S. and Canada	Coker	5.00	4.00
Cooking with Mushrooms	Nelson	4.00	3.20
Edible and Poisonous Mushrooms of Canada	Groves	12.50	10.00
Fungi - Folklore, Fiction and Fact	Findlay	9.95	8.00
Garden Way Bread Book	Johnson	8.95	7.25
The Gasteromycetes of the Eastern			
U.S. and Canada	Coker & Couch	5.00	4.00
Growing & Cooking Your Own Mushrooms	Mueller	6.95	5.50
How to Identify Mushrooms to Genus			
I. Macroscopic Features	Largent	4.85	3.90
II. Field Identification of Genera	Largent & Thiers	3.75	3.00
III. Microscopic Features	Largent et al	7.25	5.80
IV. Keys to Families & Genera	Stuntz	5.75	4.50
V. Using Cultural & Developmental			
Features	Watling	7.95	6.50

BOOKS AVAILABLE AT MEETINGS AND FUNGUS FEST 1984 (Cont'd)

Title	Author	Price	
		Non-Mmbr	Mmbr
How to Know the -			
Ferns and Fern Allies	Mickel	9.95	8.00
Gilled Mushrooms	Smith, Smith, Weber	9.95	8.00
Lichens	Hale	10.95	10.00
Mosses & Liverworts	Conard & Redfearn	9.95	9.00
Non-Gilled Mushrooms	Smith, Smith, Weber	10.95	9.00
True Slime Molds	Farr	7.95	7.25
Identification of Large Fungi	Watling & Kenny	6.00	4.00
Keys to Agarics and Boleti	Moser	39.95	32.00
Lichens	Dobson		
The Mushroom Basket	March & March	8.95	7.25
Mushroom Cookery	Mueller	1.95	1.50
The Mushroom Feast	Grigson	12.95	10.50
The Mushroom Hunt	Porter (hard cover)	18.95	15.00
	(paper)	11.95	9.50
The Mushroom Hunter's Field Guide	Smith & Weber	14.95	12.00
Mushroom Recipes	Simon	1.50	1.20
Mushrooms, A Separate Kingdom	Parker & Jenkins	16.95	13.50
Mushrooms and Other Fungi from the Land Between Lakes	Sundberg	3.00	3.00
Mushrooms and Other Fungi of Great Britain & Europe	Phillips (hard cover)	20.00	17.00
	(paper)	17.00	14.00
Mushrooms for Color	Rice	8.95	7.25
Mushrooms in Color	Miller & Miller	11.50	9.25
Mushrooms of North America	Miller	11.95	9.50
Mushrooms of The Great Smokies	Hesler	8.50	6.75
Mushrooms, Wild and Edible	Marteka	19.95	16.00
North American Species of Clitocybe, Part I	Bigelow	35.00	25.00
North American Species of Lactarius	Hesler & Smith	25.00	22.50
The Polyporaceae of the United States & Canada	Overholts	30.00	27.00
The Quest for Wild Jelly	March & March	3.95	3.25
Simon & Schusters - Guide to Mushrooms	Lincoff, ed.	9.95	8.00
The Wild Food Trailguide	Hall	8.95	7.25
Wild Mushroom Recipes	Eberly	1.50	1.50
Wild Foods	Phillips	14.95	12.00
The Bulb Book	Rix & Phillips	14.95	12.00
Grasses, Ferns, Mosses & Lichens	Phillips	14.95	12.00
Wild Flowers of Britain	Phillips	14.95	12.00
*Mushrooms & Toadstools	Nonis	12.95	10.50
*White Mountain Mushrooms'	Hurley	9.95	8.00
Fungi (Poster)		8.00	6.00

* Reviewed in Mushroom Vol 2, No. 1

Fungi Folklore, Fiction, & Fact

W.P.K. Findlay, D.Sc., F.I. Biol.

The enthusiasm of many an amateur mycologist is not only reserved for the hunting down and identifying of mushrooms, but extends to nearly everything depicting or relating to fungi. For those people, Fungi Folklore, Fiction, & Fact will be a welcome addition to the mycolibrary.

Written by W.P.K. Findlay, British botanist and a past president of the British Mycological Society, the book is a survey of the varied and sometimes curious opinions held by different cultures about fungi in their many forms.

Beginning with the Greeks and Romans, going through dry rot, ergotism, sex, literature and ending with hallucinogenics, the chapters discuss what was believed at a given time regarding these phenomena and what is actually known to be true today. It is a slim book and does not go into great detail, but will provide the reader with many good conversational gambits.

I can picture myself at a dinner table livening up a dull moment with the information that the word TOADSTOOL may have its origin in the German word TOD, meaning death, or reciting at a gathering the only poem written in praise of a Stinkhorn. Among my children's generation I can win respect by discoursing on the likelihood of Amanita muscaria being the same plant celebrated in the Rig-Veda. Then I can astound you, my colleagues with the fact that in Stockholm over 300 species of wild fungi are permitted to be sold.

If such tidbits of information intrigue you, or if you want to be a more fascinating dinner partner, then by all means Fungi Folklore, Fiction, & Fact is for you.

AMANITA - ROD TULLOSS

I The Genus is natural

A. Grouped on gross macroscopical characters

1. White spores.
2. Free or narrowly attached, non-forking gills (one known exception).
3. Presence of volva (universal veil).
4. Gills form directly from primordial tissue.
5. Stature.
6. Mycorrhizal relationship with trees.

B. Well supported by microscopic characters

1. Trama of stipe (shared only with *Limacella*), clavate cells.
2. Trama of lamellae, divergent.
3. Spores are smooth, thin-walled, globose to bacilliform

II Modern classification - subgeneric

A. Spore reaction to Melzer's reagent

1. Subgenus *Amanita* - nonamyloid (non-staining).
2. Subgenus *Lepidella* - amyloid (blue-black).

B. Striations of cap margin

1. Grooved or striate margin caps normally are non amyloid.
2. Even or smooth margin normally will be amyloid.

III Modern classification - sections (incomplete list for U.S.)

A. Subgenus *Amanita*

1. Section *Amanita* * = slide shown from indicated state
 - a. *albocreata* * ME, * PA
 - b. *breckonii* CA
 - c. *crenulata* MA
 - d. *farinosa* * NJ, * FLA
 - e. *frostiana* * VT
 - f. *gemmata* var. *gemmata* * PA
 - g. *gemmata* var. *exannulata* * CA
 - h. *komarekensis* FL
 - i. *macrospora* N. Scotia
 - j. *monticulosa* SC
 - k. *muscaria* var. *alba* * OH
 - l. *muscaria* var. *formosa* * NJ
 - m. *muscaria* var. *muscaria* * CO
 - n. *pantherina* var. *multisquamosa* * (old *cothurnata*) VT
 - o. *pantherina* var. *pantherina* * CA
 - p. *pantherina* var. *velatipes* * OH
 - q. *parcivolvata* * SC
 - r. *wellsii* NE
 - s. *agglutinata* SC
 - t. *muscaria* var. *regalis* ALAS
 - u. *pantherina* var. *pantherinoides* PNW

2. Section *Vaginatae* (no longer divided based on annulus presence). This section in turmoil. Dr. Jenkins believes there may be more than 100 species in USA.

- a. *alba* * NJ
- b. *arkansana* AR
- c. *caesarea* * Romagnesi (water color)
- d. *unbonata* Pomerleau * MA
- e. *calyptrata* CA
- f. *calypetroderma* * CA
- g. *constricta* CA
- h. *crocea* NE
- i. *floridana* FL
- j. *fulva* * PA
- k. *inaurata* * PA
- l. *pachycolea* * WN
- m. *pachysperma* NC
- n. *spretata* * NJ
- o. *spretella* FL
- p. *umbrinidisca* PNW
- q. *umbrinolutea* * VA
- r. *vaginata* * NJ
- s. *velosa* * CA
- t. *virginiana* VA

B. Subgenus *Lepidella*

1. Section *Amidella* - pale colors, some pink staining, saccate volva.

- a. *cylindrispora* * NJ
- b. *ocreata* * CA
- c. *peckiana* NE
- d. *volvata* * NJ
- e. *volvata* var. *elongata* * NJ

2. Section *Lepidella* - pale colors, appendiculate margin over 20 spp. awaiting to be named.

- a. *abrupta* * VT
- b. *atkinsoniana* * WV
- c. *chlorinosma* * NC
- d. *cinereoconia* * FLA
- e. *cinereopannosa* * VT
- f. *cokeri* * NJ
- g. "subcokeri" * NJ
- h. *daucipes* * NJ
- i. *longipes* * NJ
- j. *magniverrucata* * CA
- k. *microlepis* * WV
- l. *mutabilis* * NJ

- m. onusta * NJ
- n. rhopalopus * NJ
- o. roanokensis * NC
- p. sivicola * WN
- q. subsolitaria (new var.) * NJ
- r. tephrea * SC

A number of unnamed taxa was also illustrated.

3. Section Phalloideae - colors white, green, yellow, brown; saccate volva or abrupt or marginate bulb. (15 poorly understood white Amanitas omitted)

- a. bisporigera * NJ
- b. brunnescens var. brunnescens * ME
- c. brunnescens var. pallida * ME
- d. citrina var. citrina * NJ
- e. citrina var. lavendula * SC
- f. phalloides * NJ
- g. porphyria * VT
- h. verna PNW
- i. virosa * NJ

4. Section Validae - bright colors, crumbly volva

- a. aspera * WN
- b. flavoconia * NJ
- c. flavorubescens * NJ
- d. rubescens var. alba *NJ
- e. rubescens var. rubescens * NJ
- f. spissa * NJ
- g. submaculata * NJ

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New Jersey Mycological Association
 c/o Anna Gerenday, President

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