



# New Jersey Mycological Assn.

NJMA News  
Vol. X

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No. 5

President: Jim Richards

Editor: Melanie Spock

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May is Morel Month!

## JENNY JUMP

Paul Meyer and Bill Rokicki will lead the annual Jenny Jump Morel Hunt. Let's hope the morels will be there waiting for us. Directions: Take Route 80 to the Hope Exit (Route 521 South). In the center of Hope, take Route 519 North to the small sign on the right side of the road indicating Jenny Jump State Forest (about one mile). Turn right on the road in front of the house. Continue past the swings to the parking field on the right. May 4th, 10:00 a.m.

## HACKLEBARNEY PARK

Al Northup will lead the second foray to Hacklebarney Park on May 11th. Directions: From Southern areas, take Rte. 206 North to Chester. Turn left from Rte. 206 onto Rte. 24. Follow Rte. 24 to the Black River. Once over the bridge, make a sharp left. This is Hacklebarney Road. Stay on this hardtop road to the park. Follow signs to the main parking area. Foray begins at 10:00 a.m.

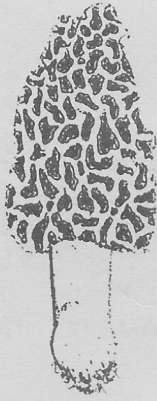
From a northern direction, follow Route 24 from Hackettstown down Schooley Mountain Rd. Turn left at Long Valley. Follow Route 24 towards Chester until the Black River bridge. Turn right before the bridge onto Hacklebarney Rd. Follow the signs to the main parking area.

## SHARK RIVER

The Shark River Park Foray will be led by Bill Rokicki, May 18th, 10:00 a.m. Directions: Take the Garden State Parkway to Exit 100, Route 33 East. Follow Rte. 33 East about a mile to School House Road. Turn right on School House Rd., and Shark River Park should be about 1/2 mile on the right. We will meet at the entrance to the park.

## STEPHENS PARK

Stephen's State Park is located on Route 604, seven miles south of Rte. 206 and 1-1/2 miles from Route 46 in Hackettstown. Jim Richards will lead this foray on May 25th. From the East: Route I-80 West to Exit 25 (Route 206



(directions continued)

North - Newton), turn left at the second traffic light (3/4 mile) onto Route 604 South. The park entrance is located seven miles on the left. (Watch for House of Good Shepherd sign).

From the South: At the intersection of Routes 46 and 183 in Hackettstown, turn right onto Route 604 (Willow Grove St.) at David's Country Inn. Stephen's State Park is 1-1/2 miles on the right.

One-fifth of a mile after entering the park, make a right turn over the bridge at the stop sign. We will meet at the lower picnic area which is the second right turn.

## Book Discount

Books which have been available for purchase at SCEEC during the winter meetings will continue to be sold during the active mushrooming season. Just look for the open hatchback of the "Fatto Bookmobile" at the May and early June forays.

Books presently available and member discount prices are as follows:

Charles - Introduction to Mushroom Hunting	1.10
Coker - Clavarias of the U.S. and Canada	4.00
Coker & Beers - Boleti of North Carolina	2.80
Coker & Couch - Gasteromycetes of Eastern U.S.	4.00
Graham - Mushrooms of the Great Lakes Region	4.00
Hard - Mushrooms, Edible and Otherwise	6.35
Kreiger - Mushroom Handbook	4.00
McIlvane - One Thousand American Fungi	5.55
Groves - Edible & Poisonous Mushrooms of Canada	12.50
Largent - Mushrooms I-IV (set)	14.50
Parker & Jenkins - Mushrooms, A Separate Kingdom	13.50
Smith & Hesler - North American Species of Lactarius	22.50
Smith & Thiers - The Boletes of Michigan	16.00
Smith, Smith & Weber - How to Know the Gilled Mushrooms	9.00
Arora - Mushrooms Demystified	9.60

The following have been ordered and we hope to add them to our stock during the month of May:

- Glick - The Mushroom Trail Guide
- Hall - Wild Foods Trail Guide
- Hesler - Mushrooms of the Great Smokies
- Miller - Mushrooms of North America
- Largent - Mushrooms V.

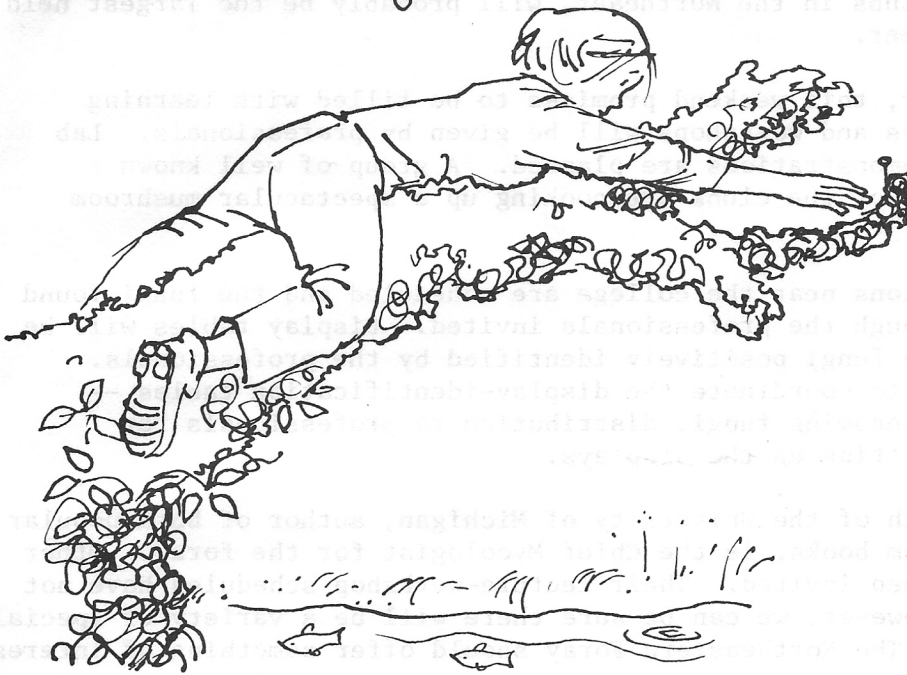
A camping foray is planned for Bass River Park on July 26-27. Those interested in participating should contact Paul Meyer so that he may make arrangements for camping sites.

Jim Richards has authored an article which appeared in the spring issue of the N.J. Audubon Society's magazine. Topic - Morels, of course.



Tina Marasmius  
Smull is Beautiful

by Dorothy Smullen



*I wouldn't do this for anyone but you Dorothy!*

Great News! Doctor Mitchell Goldman of Cheltenham, Pa. has generously donated a large metal cabinet to the N.J.M.A. herbarium kept at Rutgers University, Cook College. A hearty "Thank you" to both Dr. Goldman and Jerry Artigliere of Madison who kindly picked up the cabinet with his truck -- driving to the western side of Philadelphia.

There are now 800 specimens in the herbarium. The next date for the taxonomy meeting will be Saturday, May 17, 10:00 a.m. to 1:00 p.m. at SCEEC. Bring a lunch.

## JUNE FORAYS

The four June forays scheduled include two joint forays with the New York Mycological Society. We have invited the N.Y. club to two of our forays in the fall.

June 8 - Wild Foods Foray, Sundance Stables, Hackettstown, to be led by Bob Peabody. Besides mushrooms, edible wild plants will be gathered, prepared and eaten for lunch. Everyone should bring some favorite dish to share with the group, preferably one using wild edibles. The foray begins at 10:00 a.m. Directions: Take Route 46 West through Hackettstown. One quarter mile west of town, turn right onto Petersburg Road. Proceed 1½ miles to Sundance Stables on the right.

June 15 - Hennings Creek, N.Y. Ralph Cox of the N.Y. club is the leader. We are to meet in Sloatsburg, N.Y. for both of the N.Y. forays. Directions: Turn off Route 17 at Sloatsburg Municipal Building, drive one block to the railroad tracks. There is a parking lot there from which we will carpool to the collecting site. The meeting place is 1.5 hours by car from N.Y.C. and a short line bus can be taken from the Port Authority Bus Terminal to Sloatsburg. Meeting time is 10:00 a.m.

June 20-22 - PEEC Weekend. More about it elsewhere in the newsletter.

June 29 - Stony Brook, N.Y., led by joint member Gary Lincoff. The meeting place is the same as for the June 15th foray.

# NORTH EASTERN FORAY

Plans are progressing for the Northeastern Mycological Foray to be held at Bennington College, Bennington, Vt., August 22-24. This fifth annual foray, sponsored by seven clubs in the Northeast, will probably be the largest held in the East this summer.

Geared to the amateur, this weekend promises to be filled with learning experiences. Lectures and workshops will be given by professionals. Lab workshops and live demonstrations are planned. A group of well known mycophagists from all of the clubs are cooking up a spectacular mushroom tasting treat.

Field trips to locations near the college are scheduled and the fungi found will be filtered through the professionals invited. Display tables will be set up containing the fungi positively identified by the professionals. NJMA has volunteered to coordinate the display-identification tables -- from processing the incoming fungi, distribution to professionals for identification, to setting up the displays.

Dr. Alexander D. Smith of the University of Michigan, author of both popular and technical mushroom books, is the Chief Mycologist for the foray. Other professionals have been invited. Their lecture-workshop schedules have not yet been released; however, we can be sure there will be a variety of specialized fields represented. The Northeastern Foray should offer something of interest to every mycophile.

The cost of the weekend includes forays, activities, room and board. The food and accommodations - the planning committee assures - are superior to any at the previous NE Forays. Five meals are included in the weekend, which lasts from Friday afternoon until Sunday afternoon.

Accommodations consist of individual large two-floor houses. Each house contains four or five suites with four rooms to a suite (rooms contain one or two beds). Families will be assigned a suite. Individuals may request to share a room. A note should be made on the application - or better yet, send both applications together - as room assignments will be worked out as applications are received. Applications must be accompanied by full remittance.

Two sheets, a pillow case and towels will be provided. Blankets will be available for a \$2.00 returnable deposit and a \$5.00 returnable deposit is required for each room key. Deposits will be collected at the college.

Accommodations are available to the first 300 applicants, with members of sponsoring clubs receiving first preference. Before August 1st, the cost of the weekend is \$50.00 per person over 12 years old, \$20.00 for children 12 or under, with children under two years free. Registration received on or after August 1st will cost \$55.00 per adult and \$25.00 per child. If space is available, registration at the door will cost \$60.00 per person.

A day registration fee of \$15.00 is required for those attending who prefer to room elsewhere. Meals may be purchased at the college.

Because of last year's spectacular Northeastern Foray, advance registration is expected to be filled rather fast. Send in reservations early. The application is on the last page of the newsletter.



## FAIR AND EXHIBITION

Looking ahead to the fall, Anna Gerenday is already planning the second annual fungus fair. The Fungus Fest on October 12th at SCEEC will include a three week exhibition of drawings, paintings, photographs, prints and notebook sketches of fungi. All members are encouraged to participate in both the fair and the exhibition. Details of mats and coverings will be explained in a later newsletter or get in touch with Gertrude Espenscheid, exhibition chairperson. Crafts cannot be accepted for the exhibition since it is open to the public and no locked cases are available. Crafts will be included in the fair itself October 12th. Anyone interested in planning the fair or working at the booths, contact Anna Gerenday, chairperson.

## LIBRARY CASE NEEDED

Due to the expansion of the NJMA library, a new bookcase is needed. The bookcase must be fitted with a lock, so it should have some sort of front pannel. Our current one has sliding glass doors. If anyone has a cabinet or case we may be able to use, contact Al Northup or Jim Richards.

## PEEC WEEKEND

Registration for the PEEC Weekend is due by May 31st. This relaxed weekend is held at the Pocono Environmental Education Center off Route 209 near Bushkill, Pa.

Mainly emphasizing the social side, the weekend will include mycophagy and taxonomy sessions, a craft workshop, forays, a square dance and wine and cheese party. Several forays are planned for the weekend, one of which will be led by a PEEC staff member. There will be an exhibit of the items we will be making for the fair in Oct.

The weekend begins on Friday evening with dinner and continues until Sunday after lunch. Cabins to accomodate 50 persons have been reserved. There are both dormitory style cabins and family cottages. The cabins have been refurbished. Linen and towels will be provided for an additional fee of \$3.00 per person.

Non- members may be invited.

The weekend will cost \$40.00 per person. Please include the \$3.00 linen fee per person with the registration fee. \$10.00 of the fee is non-refundable. A \$6.00 per person fee is required for those who will not be staying the weekend, but wish to attend the programs on Saturday. Meals may be purchased at an extra cost determined by PEEC.

Make all checks payable to the N.J. Mycological Association and mail them to Anna Gerenday

Contact Anna if you have any questions.

An application blank is on the last page of the newsletter.

# ARMILLARIELLA TABESCENS OBSERVED BY ROD TULLOSS

Here are a few notes from my mushroom watching in the 1979 season regarding Armillariella tabescens. The observations are on the variety of trees with which I found it associated and the fact that I, apparently, found it associated with Entoloma (Clitopilus) abortivum in the manner of the association between A. mellea and E. abortivum described in Watling's "A Strange Alliance," McIlvainea, iii, 1, pp 12-15.

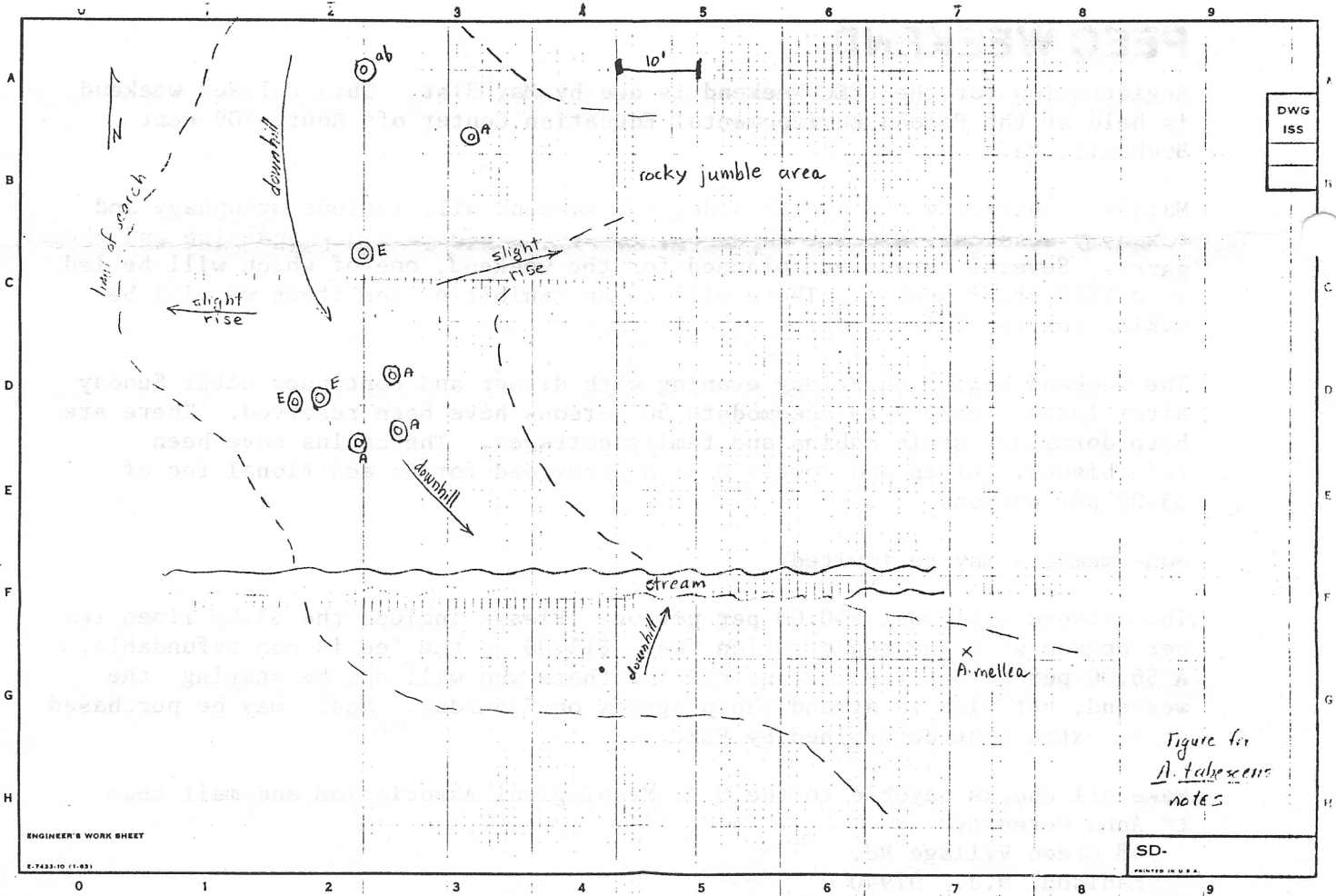
1979 was a fine year for mushrooming in New Jersey, and A. tabescens arrived in profusion in late July and was still found late in September. In the field guides I own, oaks are mentioned as the common host for this fungus. In the past, I had found nothing else serving in the host capacity. On September 14, 1979, I found A. tabescens in profusion at the base of and in the lawn surrounding a mature maple in Dutch Neck, N.J. Later the same day, the fungus was noted surrounding the base of an ornamental crabapple in Hightstown. Hightstown is the A. tabescens capital of Mercer County and western Monmouth County -- at least for the last three years.

On September 19, I found the groupings of E. abortivum and A. tabescens arranged as in the accompanying figure. The fruiting bodies were arranged along the length of

a shallow depression which itself sloped downhill to a small stream. Curiously the two species seemed to be segregated, the A. tabescens taking the west side of the depression and the E. abortivum taking the east side. The distances in the chart are estimated using the length of my boot. The trees in the area are mostly beech with slightly more than 25% being maple. The particular woods which is on the eastern border of the Western Electric property in Hopewell, N.J. also contains considerable oak and hickory (this latter frequently associated with A. mellea). The nearest A. mellea fruiting bodies I found were some hundred or more paces away to the east, downstream and on the opposite bank of the stream.

The key used in the figure is defined as follows:  
 ab = only E. abortivum, aborted fruiting bodies  
 E = E. abortivum, both forms  
 A = A. tabescens cluster

A collection of specimens of the E. abortivum individuals from the area described is in my herbarium.



# SLIME MOLDS - THE JEKYLLS AND HYDES OF THE MYCOLOGICAL WORLD

BY DR. SAMUEL RISTICH

Myxomycetes or mycetozoans have perplexed man for millennia because of their "half animal, half plant" existence. All slime molds begin their complex lives as a soft, plasmodial amoeboid stage that can move great distances\* through the plasmodial stream. The common leaf slime mold, Fuligo septica, forms sheets 3' in diameter. There is a post plasmodial stage between the time the amoeboid stage settles down and the formation of the spore stage. Most people mistake this stage for another species since all myxomycetes vary widely in shape and color during the soft formative "Mr. Hyde" stage.

In these plasmodial stages the slime mold "feeds" upon bacteria and nutritive substrates such as decayed logs and leaves. Some mechanism eventually "triggers" the transformation of the amoeboid stage to the plant or spore producing stage. Spring and early summer are the best times for observing these fascinating, colorful and intricately patterned animal-plants. The best habitats are decayed, moist logs, decayed leaves and compost heaps. Some of the most common forms are:

1. Ceratiomyxa fruticulosa - The white coral slime mold covers many logs with a white bloom. Under the hand lens these blooms appear as white coral horns with spores borne externally on the horns.
2. Lycogala epidendrum [Lyco(s) = wolf; gala = milk; epi = upon; dendrum = wood] - The pink wolf milk slime mold - this slime mold forms small domes of pink ooze which transform into domes (1/8-1/2") with lavender spores. Plasmodium is reddish.
3. Fuligo septica - Forms 2" to 2' masses of yellowish plasmodial masses on sticks, logs or compost - that eventually sporulate in cushions that have a powdery cream, yellow or red crust - with black spores inside.
4. Diachea leucopodia [Leucopoda = white foot] - The "white footed" blue iridescent slime mold. This spectacular "Jekyll" starts as a glossy white plasmodial mass. The glistening white protoplasm elongates into 1/8" cylindrical, white sporophores that turn salmon pink and finally into a bluish iridescent "jewel" with a thick white stipe. The spores and columella are blackish.
5. Arcyria denudata - The rosy "carnival candy" slime mold starts as a glistening white mass that eventually separates into upright cylindrical entities on a tiny stalk, containing rosy spores trapped in intricately ornamented threads called capillitia. These threads eventually unfurl into hare net structures resembling wispy carnival candy.
6. Dictydium cancellatum - The "Japanese lantern" slime mold - this slime mold starts life as a purple-black ooze. This ooze elongates into a long 1/4" thread-like stalk with a globose ribbed structure containing a tiny sphere inside. This delicately structured figurine reminds one of a pendant miniature Japanese lantern.

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\*Fuligo, Hemitrichia, Diachea do; but others such as Echinostelium, Stemonitis, Ceratiomyxa do not spread through plasmodial (1) strands.

(1) = Dendritic or phanerotype



7. Stemonitis fusca - The "chocolate tube" slime mold. It starts out as a white ooze that "separates" into thin cylindrical structures with thread-like shiny black stalks that extend the length of the sporophore. These cylindrical structures contain hair net capillitium and chocolate spores.
8. Hemitrichia serpula [Serpule = snakelike] - The "yellow worm" slime mold. This is a plasmodiocarpic form wherein the bright yellow plasmodial strands thicken and fuse to form a network of worm-like sporophore without partitions along the worm-like structure. The plasmodium is yellow as are the capillitia and spores.
9. Hemitrichia stipitata-clavata - The "Howard Johnson yellow fuzz cone." These are closely related stipitate species, the former with a sepia-colored thread-like stipe, whereas clavata has a thickened gradually tapering stem. The peridium is glossy egg yellow. When the top "pops off," the bright yellow capillitium and spores are "fluffed out." The plasmodium is yellow for stipitata, white for clavata.
10. Tubifera ferruginosa - "The red raspberry" slime mold. The advanced post plasmodial stage of this aggregated slime mold is "red raspberry" in color with each sporophore glued to the next, forming an elliptical or spheroid mass. These "red raspberry" tubes turn bluish purple and then glossy brown resembling miniature cigars. Spores are chocolate.
11. Metatrachium vesparium - "Multigoblet" slime mold. This slime mold forms a "many-headed" globose sporangia on a single reddish stalk. The cluster is bluish-black metallic in color changing to maroon. Each globose sporangia has a preformed "lid" that "pops" to release the maroon, ornate capillitium and spores. After the capillitium is cast, the empty base resembles numerous goblets! Plasmodium is deep red or black.
12. Physarum polycephalum [Polycephalum = many headed] - The "multi-head slime mold." This slime mold resembles Metatrachium vesparium in configuration but its stipe is yellow and the many globose sporangia (on a single stalk) are granular black or greenish. The granular material is lime (a diagnostic characteristic for many species of Physarum). When the limy peridium shatters, one can see black spores. The capillitia contain swollen joints composed of lime. The plasmodium is yellow. (The sclerotia can be purchased at Ward's Scientific for regeneration in petri plates.)
13. Badhamia affinis - The "bark Badhamia." This sessile, subspherical crusty greyish slime mold is common on moss-covered elm bark of dead or dying elm trees. It is gregarious. When the peridium disintegrates, the white limy capillitium is exposed. Spores are black and the plasmodium creamy white.
14. Brefeldia maxima - The "tapioca slime mold." This giant slime mold has a plasmodial mass resembling tapioca. In two days this white tapioca turns pink, then purplish red. After dewatering, the sporophore begins to take form, turning brown and finally becoming a rugose black mass. The genus was named after Brefeld.

Field guides for amateurs have not been written. The only current source to the myxomycetes is the tome by Martin/Alexopoulos entitled, The Myxomycetes. Hegelstein's Mycetozoa of North America is still available at second-hand book stores. Lister's Monograph of the Mycetozoa is beautifully illustrated but is now a collector's item. MacBride's North American Slime Mold is available at most university libraries. The National Geographic Magazine (April 1926) published 12 spectacular paintings of slime molds.

PEEC Weekend Application

Make checks payable to the New Jersey Mycological Association and mail them to:

Anna Gerenday

\$40.00 per person

No. Attending \_\_\_\_\_ Name(s) \_\_\_\_\_

Address \_\_\_\_\_

Zip \_\_\_\_\_

Linen rental \$3.00 per person \_\_\_\_\_

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Northeastern Foray Application

Make checks payable to Northeastern Mycological Foray and mail them to:

Northeastern Mycological Foray  
c/o Mr. James Kronick

\_\_\_\_\_ 85

Name \_\_\_\_\_ Club Affiliation \_\_\_\_\_

Address \_\_\_\_\_

City, State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone \_\_\_\_\_ Parking car on campus: Yes \_\_\_\_\_ No \_\_\_\_\_

Number of people in party \_\_\_\_\_

Registration, Room, Meals

<u>Number of</u>	<u>Before Aug. 1</u>	<u>After Aug. 1</u>
_____ Adults	\$50.00	\$55.00
_____ Children 2-12	\$20.00	\$25.00
_____ Children under 2	free	free
_____ Total		

Registration only: \$15.00 without room or board

Comments \_\_\_\_\_

New Jersey Mycological Assn.  
c/o Jim Richards, President  
1 Moore St

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