

August 13, 1981

Dear MNPS Member,

As some of you are aware, our editor, Will McDearman, has spent a good part of the summer anticipating, undergoing, or recovering from surgery. He is doing fine and in the not-too-distant future, we hope to get out the next Newsletter. Meanwhile, I am sending along the remarks below.

Robert Stewart, President  
Miss. Native Plant Society

#### FUNGAL FORAY SCHEDULED FOR THE WEEK-END OF LABOR DAY

Plans for the joint foray on Labor Day week-end with the New Orleans Mycological Society are being completed. Bill Cibula, also a member of MNPS, is leading two full days of field trips to be followed in the evenings by labeled displays of specimens collected during the day. This should be a very informative outing that will also include viewing of special kodachrome slides rented for the occasion. The \$5.00 registration fee is to cover the cost of slide rental and other materials to be used (pay when you arrive). As indicated in the accompanying NOMS Newsletter, knowledge of the fungi found in Mississippi is very incomplete, thus the interested amateur may well encounter undescribed species or species unknown for the state.

If you come south on U.S. 49 from Hattiesburg, turn left on Miss. 67 near Saucier about 18 miles south of Wiggins and 18 miles north of Gulfport. Please note that those planning to stay at the Gulf Coast Research Laboratory in Ocean Springs should notify Travis Salley. Rates are four dollars (\$4.00) per person per night payable in advance. Make checks to Mississippi Native Plant Society and send to Travis. Do not send registration fee. Your money will be returned if you cannot attend. If at the last minute you decide to attend, call Will McDearman (354-7303). Do not call the Gulf Coast Research Laboratory. Rooms are available the nights of 4, 5, & 6 September. See NOMS Newsletter for other details.

Perhaps most of us in the MNPS have little knowledge of the mushrooms and related fungi that we see in woods and fields. Here then is an opportunity that should appeal to those who find these non-green "plants" intriguing and would like assistance in learning names and features used for identification. The article by Bill Cibula provides a brief introduction to an important group of fleshy fungi, the boletes (bō-lēts), that will hopefully be seen in some numbers on the upcoming trip.

Even if your interests lie solely with the herbs, shrubs, and trees, take a few minutes to scan the list of fungi reported last year from the Harrison Experimental Forest. Pay special attention to the notes on the occurrence of species. This information is noted because many fungi have rather specific requirements for living. A given species, for example, may live in association with the roots of certain trees, not as a parasite, but as an organism necessary for the normal functioning of the host tree. Such fungus-root relationships (mycorrhizae=fungus root) probably occur in most plants. Certainly they are far more common than was realized only a few years ago.

#### TENTATIVE SCHEDULE OF FUTURE FIELD TRIPS

October (mid to late) - somewhere in the coastal counties to see Fall-blooming species  
April '82 - Tishomingo State Park in northeastern corner of state  
June '82 - Starkville area

#### LOGO FOR THE SOCIETY

Five or six sketches for a Society logo have been submitted. If you have a design, send it in. All will be published anonymously in the Newsletter for members to choose.

#### JUNE FIELD TRIP TO DAVIS LAKE

On June 6, 1981, about 25 people attended a field trip at Davis Lake in Chickasaw County. A diverse mixture of species was seen. Details will be published later.

# New Orleans Mycological Society

NEWSLETTER

722 Cherokee Street  
New Orleans, LA 70118 August 1981  
Phone: (504) 861-7312



An Associated Society of the  
North American Mycological Association

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## CALENDAR OF EVENTS

September 5-7 Labor Day Weekend Foray. This will be a joint foray with the Mississippi Native Plant Society. Registration fee: \$5.00. The foray will be held at the Harrison Experimental Forest near Saucier MS. Activities will include field trips into a variety of habitats, indoor identification sessions, and slide talks. Dr. Cibula will serve as chief mycologist.

9:30 AM-

Collecting equipment to bring along: basket or similar container with firm sides and handle, knife and/or digging tool; waxed paper (not plastic); hand lens; whistle, not for collecting but to help field trip leader keep track of you.

We will be using the Headquarters building as our base. Because the Harrison Experimental Forest is the property of the U.S. Forest Service, certain regulations regarding the use of the facilities have been agreed upon by NOMS and USFS. All participants are requested to adhere to the following rules:

1. No alcoholic beverages are permitted on the grounds without prior written permission. No drugs of any type other than by physician's prescription.
2. No camping anywhere in the Harrison Forest. Camping facilities are available within a few miles of Headquarters (see directions).
3. No boisterous behavior at any time.

Participants will be responsible for providing their own lunches and refreshments. As we go to press, negotiations are underway for accommodations (double occupancy rooms) at the Gulf Coast Research Laboratory in Ocean Springs MS. These facilities are about a 30 minute drive from the Harrison. The rates will be between \$4.00 and \$8.00 per night (no meals). For information and reservations, please get in touch with: Mr. Travis Salley, 202 North Andrews Avenue, Cleveland MS 38732 (telephone: 601-843-2330).

In addition, camping facilities are available at the Airey Campground USFS four miles north of the Harrison HQ and at the Prisoner of War campground five miles east on the Bethel Road. Both are "primitive" with water but no hookups. Motels can be found in Wiggins, to the north on US49 (about 20 minutes away) and in Gulfport.

August and early September are usually the prime season for boletes. The species lists from recent forays are included with this Newsletter as a further indication of what we may expect to find.

## HOUSTON FORAY

The Fifth Annual Texas Mushroom Foray will be held at Camp Wildurr, Lumberton TX September 18-20. We will have some brochures at Harrison, or you may write to Susan Hamilton, Conference Chairman, 2110 Wilcrest, #151, Houston TX 77042. The boletes at last year's Texas Foray in the Big Thicket were an assault on the imagination.

## BOLETES

The boletes form a natural group of fungi which may be best described as the "fleshy pore fungi". These fungi have a cap and a stipe (stem) which is usually centrally attached to the underside of the cap. The underside of the cap is composed of pores rather than gills, as is the case with the true stalked mushrooms. In addition, the pores are fused together rather than free-standing, as is the case in Fistulina, another genus of fleshy pore fungi.

The development of the pores for the boletes is yet another answer to the problem that all fungi face -- how can the most spores (seeds) be produced with the least expenditure of energy? All solutions to this problem involve the proportion of maximum increase in spore-bearing surface area in relation to total fungus tissue weight. In the case of the true gilled mushrooms, the page-like gills on the underside of the cap allow an enormous surface area for the production of basidia -- the specialized sexual organs which ultimately produce the spores by which each fungus hopes to carry on its genetic heritage and extend its range in the world's ecosystems.

This problem is solved differently by other fungi. The "coral fungi" (Clavaria and related genera) produce many upright branched members which produce basidia on their outer surfaces. The "tooth fungi" (Hydnum and its segregates) produce downward projecting "teeth" which again have basidia on their outer surfaces. On some, these project downward from a cap, while on others, these "teeth" originate from a centrally and basally located tubercule.

In contrast to these mechanisms, the boletes produce a myriad of tubes which are fused together on the underside of the cap. Each tube provides a large surface area on the inner surface for the production of basidia. Since boletes are a significant part of our fungal flora, this mechanism must be quite successful.

Many boletes are quite colorful. One surprising feature of some is that when the cap is broken, the initially yellow flesh changes to blue. This reaction in some is quite rapid. This color change is due to the oxidation of a pale yellow pigment.

Some of the finest edible mushrooms are found in this group of fungi. The "cep" or "Steinpiltz", Boletus edulis and closely related forms can be found in the Deep South, including southern Mississippi. These occur in pine forests early in the summer after a prolonged wet spell.

Poisonous boletes are found in a group which either have red pore mouths or bruise blue or both. These field characters easily separate the poisonous species from others. For this reason, the boletes are considered a safe group of fungi for beginners.

We are finding that many boletes in the Deep South cannot be keyed out or correlated to known species. For reasons not totally understood, few mycologists have worked here. In contrast, far more attention has been paid to vascular plants. Yet boletes may express their greatest diversity here! From this it is apparent that there is much of interest for both the rank amateur and the professional mycologist -- the Gulf Coast is a fertile area for research!

Bill Cibula

## NAMA FORAY

The North American Mycological Association will hold its annual Foray October 15-18 in Port Townsend WA. For details and registration, write to Jennie Schmitt, 13737 Peninsula Place S.W., Port Orchard WA 98366.

Second Annual Harrison Foray -- Species List

Harrison Experimental Forest MS -- December 5-6, 1980

Agaricus (barisii?)	in grass	Mycena algeriensis	conifer wood
Amanita sp.		" viscosa	pine log
" sp.	riverbank	Naematoloma ericaceum	grass
" citrina	mixed pine/hdw	" fasciculare	on hdw
" muscaria		Pholiota highlandensis	charred pine wood
" ssp. flavovolvata	pine plantation	Phyllotopsis nidulans	longleaf pine log
" polypyramus	mixed pine/hdw	Pisolithus tinctorius	under pine
" virosa (complex)	mixed hdw	Pleurotus ostreatus	
Armillariella mellea	on hdw	Pluteus sp.	
" tabescens	on hdw	" cervinus	
Boletus retipes	upland pine	Polyporus dealbatus	on hdw
Calostoma (lutescens)		" fumosus	
Cantharellula (umbonata)	upland pine	" sanguineus	
Clathrus columnatus	mixed pine/hdw	Ramaria sp.	beech/magnolia duff
Clitocybe nuda	beech/magnolia, duff	Rhizopogon sp.	under longleaf pine
Clitopilus sp.	hdw	" (tinctorius)??	under longleaf pine
Collybia dryophila	under longleaf pine	Russula sp.	under pine
Coriolus versicolor	upland	" sp	
Cortinarius sp.		Stereum ostrea	
" sp.		" striatum var. striatum	Carpinus. car
" violaceus	under longleaf pine	Strobilurus conigiodes	magnolia cones
Cystoderma sp.		Tricholoma sp.	sandy soil under pine
Entoloma (lividum)	pine duff	" flavovirens	duff pine plantation
Gymnopilus sp.	conifer wood	Xeromphalina sp.	moss/soil
" sp.		" campanella	conifer wood
Hebeloma sp.	sandy soil	Zelleromyces (cinnabarina)	ground, pine
Hohenbuehelia petaloides	on wood in grass	"	
Hygrophorus conicus	beneath pine		
" puniceus	beech/magnolia duff		
Lactarius sp.			
" imperceptus	humus, pine/hdw		
" proximellus			
Lenzites betulina			
Lycoperdon echinatum	soil, open grass		
" perlatum	ground, upland pine		
" pyriforme	rotting wood		

Total: 64 species

Delta Regional Primate Center June 20, 1981

Amanita caeserea (golden form)	Lactarius subplinthogalus
" flavoconia	" piperatus
" komerikensis	" volemus
" rubescens	" yazooensis
" vaginata	Ganoderma curtisii
" virosa (complex)	Lycoperdon perlatum
Agaricus sp. (strong almond scent)	Pluteus sp.
Armillariella tabescens	Pulveroboletus ravenellii
Boletus (eastwoodiae) without red pores	Phylloporus rhodoxanthus
" auriporus	Strobilomyces confusus
" viridoflavus	Russula foetans
Cantharellus cibarius var. minor	" delica
" cinnabarinus	" spp.
" minor	Tilopilus ballouii
Clavaria cinerea	" plumbeoviolaceus
Cortinarius sp. (yellow)	Sparassis (nov. sp.?)
" sanguineus	Thelephora vialis Schw.
Calostoma (cinnabarinus) immature	Xeromphalina campanella

Amanita rubescens	Marasmius ioccephala
Cantharellus cibarius	" rotula
" minor	Naematoloma fasciculare
Clavulina ame\$thystenoides (multibranched form)	Nigroporus vinosus
Elaphomyces viræatosporum	Sebacina incrustans
Hydnopolyporus palmatus	Sparassis (nov. sp.?)
Laccaria laccata	Stereum ostrea
Lepiota birnbaumii	
Lycoperdon echinatum	

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Henley Field MS

12 July 1981

Amanita caeserea	Meripilus percicinus
" citrina	Mycena fibula
" spreta ?	Panus crinnitus
" gemmata	Phylloporus rhodoxanthus
Boletus retipes	Pulveroboletus ravenellii
" bicolor	Oudemansiella sp.
spp.	Panellus rhipidium
Bjerkandera adusta	Polyporus mutabilis
Cantharellus cibarius	Suillus cothurnatus
" cinnabarinus	Sparassis (nov. sp.?)
" lateritius	Russula spp.
Clavulina amythestinoides ( sparingly branched form)	Stereum hirsutum
Collybia maculata (on tree!?)	" ostrea
Coriolus versicolor	" striatum var. striatum
Cortinarius sanguineus	Tilopilus ballouii
Craterellus odoratus	" plumbeoviolaceus
Canthophyllum	
Hirschioporus pergamenus	
Hyphoderma cft setigera	
Dacrymyces ellsii	
Lactarius corrugis	
" allardii (?)	
Laxitextum bicolor	
Leccinum abellum	
Marasmius sp.	

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On May 24, 1981 in McCleod Water Park, Kiln MS a good collection of Agaricus sulphuriceps (Murr.) was made. Honey Island Nature Trail in the Pearl River Game Management Area has been an excellent collecting area most of the summer with vast quantities of chanterelles and many boletes, including crocipodium. Amanita flavorubescens was also found there.

Special thanks to Dr. Cibula for most of the Foray identifications and to Dr. Arthur Welden for his identifications of polypores and stereum.

# Harrison Experimental Forest

