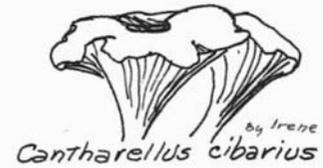


SPORE PRINTS

BULLETIN OF THE PUGET SOUND MYCOLOGICAL SOCIETY
2161 East Hamlin, Seattle, Wa. 98112

September 1981

Number 174



PRESIDENT'S MESSAGE

Carl Hermanson

This past summer has included much planning and preparation activity for both, our Annual Exhibit on October 10th & 11th at the Flag Pavilion, and the October 15 - 18, 1981 PSMS hosted NAMA Foray at Fort Worden. Both events promise to be very interesting and educational. PSMS members are requested to assist in the production of these events. This offers each of us the opportunity to learn more about fungi, revisit our secret areas and other collecting locations, and enter into the excitement of working with our fellow PSMS members. We will have a professional Exhibit and Foray produced with typical PSMS enthusiasm and expertise.

The fall 1981 mushroom season has started. Monte and Hildergard Hendrickson have already collected and preserved Cantharellus cibarius. I was very pleased to find a beautiful, fresh Amanita porphyria on August 15th when the temperature was 100°C. Perhaps these early fruitings are harbinger of another highly successful fall mushroom season to come. BE CAREFUL in your fungi collecting this fall so that we can all be present at the March 1982 Survivors Banquet.

FIELD TRIPS

Dick Sieger

Again we need hosts for all of the scheduled field trips. New members are encouraged to call me (362-6860) to volunteer. It has been getting more and more difficult to recruit hosts, although their main job is to welcome the arriving members, keep the coffee pot and fireplace going, and organize the setting up of the potluck dinner on Saturday afternoon. Hosts do not need to identify the mushrooms.

If we have no hosts for a scheduled field trip, please gather at the campsite on Saturday afternoon for a 5:30 potluck.

Sept. 19 & 20 Masonic Park: Four miles east of Granite Falls. Go to Snohomish and follow State Highway #9 (north) to the State Highway #92 turnoff (going east). Follow #92 (east) to the town of Granite Falls and continue east for about four miles. Watch for the sign that directs you to turn left to the Masonic Park. At the PSMS registration desk we will collect a day-use fee and/or a camping fee for overnight stays. The park is open to non-Masons only on this weekend. The entrance gate is closed after 9 pm.

Sept. 26 & 27 Crystal Springs Forest Camp: Travel east on I - 90 over Snoqualmie Pass. Nine miles past the summit, take the "Stampede Pass" exit #62. Turn right at the stop sign, then turn right again just before the bridge.

Oct. 3 & 4 The Dalles Forest Camp: Travel east on State Highway #410. The Dalles Forest Camp is located about 25 miles southeast of Enumclaw, on the right.

REMEMBER, WE NEED HOSTS FOR ALL FIELD TRIPS!

THE 18TH ANNUAL EXHIBIT Don Schultz & Bob Hanna

First of all we should now start to pray for rain on the two days of our Exhibit, since the Seattle Center Staff told us last year, that attendance of events on rainy days is twice that of sunny days. If you can dance better than pray, you may do that too.

Now in a more serious tone, I would like to encourage every one of our members to actively participate in the Exhibit. There are so many different jobs that have to be done that there will be something to do for everyone. The chairpersons of the various committees have the experience and will guide you, you just need to be willing to help. Below we are again printing the various committees and who heads them. Please pick up your phone right now and volunteer for a job.

During the summer the jobs that need to be done early have all been initiated, and we are continuing with the routine that follows.

At the September membership meeting there will be sign-up sheets for working on the committees, and you will also be able to talk to the chairpersons.

1981 ANNUAL EXHIBIT COMMITTEES

General Exhibit Co-Chairmen

| | | |
|--------------------------|--------------------------|------------|
| | Bob Hanna | 767-6381 |
| | Don Schultz | 226-2217 |
| Arts & Crafts | Tatiana Roats | 842-3750 |
| Book Sales | Kathy Ringo | 784-9630 |
| | Mike Westby | |
| Clean-Up | Monte Hendrickson | 523-2892 |
| Construction | Joe Cail | 243-8492 |
| Decoration | Stan March | 885-0375 |
| Feel and Smell | Ed & Ella Cantelon | 242-6115 |
| Freeze Dry(Spring fungi) | Dr. Patricia Winter | 486-4264 |
| Fungi in Foodstuff | Lois Ohlson | 242-6523 |
| Fungus Collecting | <u>Elizabeth DeQuine</u> | 789-6728 |
| | David Jansen | 322-3307 |
| Greenery Collection | Paul Rule | 1-794-8987 |
| Greeters/Security | LomNee March | 885-0375 |
| Identification | Charles Volz | 363-5465 |
| Labeling | Helena Kirkwood | 784-1095 |
| Membership | Aino Kunz | 362-7402 |
| Microscope Projection | Jack Orth | 1-387-7793 |
| Mushroom Dyes | Ella Cantelon | 242-6115 |
| Mushroom Receiving | Ed & Ella Cantelon | 242-6115 |
| Preservation | Jennie Schmitt | 1-876-3177 |
| Publicity | Dennis Krabbenhoft | 839-2454 |
| | Marian Maxwell | 271-7086 |
| Slide Show/Photographs | Joy & Roger Spurr | 723-2759 |
| Sorting Boxes | Jim Bennett | 784-6236 |
| Tray Arrangement | Margaret Dilly | 782-8511 |

The Fungus Collecting Committee would like to remind our members to start saving up various containers for the mushroom samples that they will be bringing in for the Annual Exhibit. Such items as milk cartons, cottage cheese containers, berry baskets, etc. are good. All members are potential collectors.



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Spore
Prints

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PUGET SOUND MYCOLOGICAL SOCIETY

% The Museum of History and Industry, 2161 East Hamlin
Seattle, Wa., 98112. Mail all material for Spore Prints
to Hildegard Hendrickson, 2559 NE 96, Seattle, 98115.

OFFICERS Carl Hermanson, President, 1982 (1)
John Kunz, Vice-President, 1983 (1)
Earl Harrison, Treasurer, 1982 (2)
Margaret Holzbauer, Secretary, 1983 (2)

TRUSTEES - Term expires March 1982: Margo Harri-
son (2); Rudy Karzmar (1); LomNee
March (2); Stan March (1); Don Schultz (1)
- Term expires March 1983: Hildegard
Hendrickson (1); Monte Hendrickson (1);
Grace Jones (2); Dennis Krabbenhoft (2)
Agnes Sieger (2).

ALTERNATES: Marian Maxwell; Charlotte Turner -
Zila; Dave Jansen.

IMMEDIATE PAST PRESIDENT: Jennie Schmitt

SCIENTIFIC ADVISER: Dr. Daniel E. Stuntz

Calendar

- Sept. 14 Monday, Membership Meeting, 8:00 pm
Sept. 15 Tuesday, PSMS Fall Class, 7:00 pm
Sept. 19 & 20 Field Trip to the Masonic Park
Sept. 21 Board Meeting at 7:30 at Carl Hermanson's
(note the earlier starting time)
Deadline for Spore Print Material. Send to the
Editor, 2559 NE 96th, Seattle, WA 98115.
Sept. 22 Tuesday, PSMS Fall Class, 7:00 pm
Sept. 26 & 27 Field Trip to the Crystal Springs Forest Camp
Sept. 29 Tuesday, PSMS Fall Class, 7:00 pm
Oct. 3 & 4 Field Trip to the Dalles Forest Camp
Oct. 5 Monday, Membership Meeting, 8:00
NOTE: This is one week earlier due to the Show
Oct. 6 Tuesday, PSMS Fall Class
Oct. 10 & 11 The 18th Annual Exhibit, Flag Pavilion.

WELCOME TO THE FOLLOWING NEW MEMBERS

Laura Baker: 772-1984; James A. Halverson & Gail West:
329-9420; David Hunt & Esther Malvar: 828-0704; Sylvia
Keuch: 778-1286; Marcia Mulcahey: 242-7814; Marge Okuma
723-5912; Dr. Byron Toot; Catherine Wentworth: 524-3330.

Membership Meeting

Monday, September 14, 1981, 8:00 pm in the McCurdy
Room of the Museum of History and Industry

Program: Dr. Susan Libonati-Barnes (who received her PhD.
this summer under the direction of Dr. Stuntz) will discuss
the Systematics of Tectella, Panellus, Hohenbuehelia and
Resupinatus (Tricholomataceae) in the Pacific Northwest
(which were the topic of her doctoral dissertation). We all
remember Susan's most interesting talk about central Ameri-
can fungi and are looking forward to hear her presentation
about Northwest mushrooms. Susan also has been the reci-
pient of a PSMS scholarship award. We congratulate Susan
upon the completion of her degree and wish her a rewarding
career in mycology.

BOARD NEWS

H.R.H.

The August board meeting did not start with a jovial note.
The Museum has substantially raised the rent for the McCurdy
Room for our fall classes, and also indicated that (at this
time) PSMS is not assured a Monday night for our membership
meetings. The Board immediately appointed a committee to
pursue this matter. (More of this subject somewhere else). As
a result, the Board authorized a \$12 fee for the fall classes.
The topic of T-shirts, with the PSMS logo imprinted came up
again, and after some discussion no action was taken. How
does the membership feel about this?

Bob Hanna and Don Schultz indicated that the preparations
for the 18th Annual Exhibit are progressing on schedule.

Dick Sieger (who had visited the NAMA site this day) and
Jennie Schmitt reported that 251 (including Dr. Orson Miller)
have registered for the foray. The program is now finalized
and everybody is looking to a successful foray.

Jennie Schmitt said that PSMS again is cooperating with the
Tacoma Society in staffing the booth at the Puyallup Fair.
More volunteers are needed. Jennie will have a sign-up
sheet at the membership meeting. The dates are Sept. 18th
through the 27th. (Remember you get a free fair ticket for
three hours at the booth!)

MONDAY NIGHT MUSEUM PROBLEMS

H.R.H.

The Museum of History and Industry has informed the Society
that after December 1981 PSMS will not have Monday access
to the Museum. And in addition, the Museum's own Board
will receive a recommendation in January 1982 whether the
Museum should continue to rent the McCurdy Room or use it
for exhibition space. For our Society this means, we may
have to select a day other than Monday (and have the mem-
bership amend our bylaws, which specify Monday as the meet-
ing night) and rent the theater (located below the McCurdy
Room). However, since the Museum has just doubled the
rent for the McCurdy Room, we did not even ask for the new
fee for the theater. Another alternative is to find a suitable
"home" which is reasonably priced, has good access, parking
etc. To further explore this matter a committee chaired by
Milton Grout (747-0497) and consisting of Charlotte Turner-
Zila (325-1519), Rudy Karzmar (623-7555) and Monte Hend-
rickson (523-2892) has been appointed. The committee wel-
comes opinions from the membership (re.: Monday versus
another evening) as well as recommendations for possible al-
ternate locations. Every input is appreciated!

Note: The founders of our Society chose the Monday meeting
nights so that members could have their weekend finds identi-
fied while they were fresh and prime.

PSMS FALL MUSHROOM IDENTIFICATION CLASSES

Milton Grout's very popular course on mushroom identification will start on Tuesday, September 15th, 1981 at 7:00 pm in the McCurdy Room of the Museum of History and Industry. There will be a total of six consecutive Tuesday sessions running from 7:00 - 9:30. The cost is \$12 per person (double from last year, due to the fact that the Museum more than doubled the rent. The fee covers only the rent and the educational pamphlet compiled by PSMS which is given to every enrolled member). But even at this price, the course is a value hard to beat. It is recommended for beginners and it also is a good review for others. Registration will be at the first meeting. You will learn the distinguishing characteristics of mushrooms and how to classify species by spore colors. Learn to make a spore print. Learn common poisonous and edible mushrooms.

Fresh specimen directly from the field will be identified and discussed. All participants in the class are requested to bring specimens, and the first half hour will be spent on identification.

CLASSES IN THE SOUTH END George Rafanelli

George Rafanelli will hold 7 class sessions on mushroom identification on Tuesdays, starting September 22nd, from 7 - 9pm, at Chief Sealth Community School, 2600 S.W. Thistle, Room 121. Tuition and book: \$16.50. For additional information call the school, 935-2646 or George at 767-4408.

CLASSES IN THE NORTH END Charles Volz

Charles Volz will hold 8 class sessions on mushroom identification on Mondays, starting September 21st, from 7:30 - 9:00 at the Lynnwood Recreation Center. Pre-registration is necessary, so you must call the Lynnwood Parks and Recreation Department, 775-1971, or Charles Volz, 363-5465 (please correct Charlie's phone number in your roster!) There also may be classes held in Edmonds. If interested, call Charlie for details.

MUSHROOM GATHERING CLASSES Dave Jansen

Dave Jansen (329-3210) will teach classes at the following locations:

Discovery Park (phone 625 - 4636)

(1) Beginning Class: Wed. Sept. 30; Oct 7; 14; 21; 28.

(2) Intermediate Class: Thursd. Oct. 1; 8; 15; 22; 29.

Seattle Central Community College - Community Services/
Evening Program, phone: 587 - 5473

Tues.: Sept. 29; Oct 6; 13; 20; 27; Nov. 3; 10; 17; 24; Dec. 1;

Camp Long (West Seattle) - Wild Edible Plants and Mushrooms
(phone: 935 - 0370)

Mon.: Sept. 29, Oct. 5; 12; and 19 with fieldtrip Oct. 3rd.

Fees and other details were not available at press time. You may call the numbers listed above.

ANCIENT NEWS - THE TUMWATER FIELD TRIP K. Sather

On May 30 & 31, 1981 about thirty keen-eyed mushroom hunters gathered for the always delicious potluck dinner. Charles Volz was kind enough to identify the thirty different fungi. Mushroom collecting was not plentiful: the last of the morels, and unfortunately, the bugs had gotten most of the boletes. But the weather was beautiful, while it rained in Seattle.

Be prepared for the impossible!

On the way home, while searching for mushrooms on a dirt

road off Blewett Pass, I broke my car key while trying to unlock the trunk. My car has a steering lock. Therefore, any attempts to tow the car, or hot wire it, would have been in vain. I was lucky that Ken and Emma Chaplin from Sequim were around and drove me back to Seattle. A kind friend took me back with my spare key. The moral of this story: Always have a spare car key with you, either on the car or in your wallet; you might need it in a remote area, and save yourself a lot of driving and time!

BOOK REVIEW

Monte Hendrickson

Mushrooms in Color by Orson K. & Hope H. Miller. Elsevier-Dutton Publishing Co., Inc., New York. Retail: \$11.50

Finally a book has been published for the true beginner. The authors introduce the reader to mushroom ecology, how to collect mushrooms, and toxins and hallucinogens. They then proceed to clearly and accurately describe the easily identifiable and edible mushroom genera, and the most sought species within a genus. Each one of the species described is shown in realistic color photos on one page with a concise and clear description on the opposite page. Therefore, the narrative and the picture are close together. A beginner will be able to leaf through the book and recognize many mushrooms.

The authors, from their long experience, have chosen to include only those mushrooms a beginner would be interested in and could easily identify. The first question which the majority of beginners ask is: "Is it edible?" All the mushrooms which are harmless, valueless, and confusing to beginners have been left out. But the easily identifiable poisonous fungi also are featured. The authors refer to Pacific Northwest conditions more frequently than many national books.

Our booksale chairman has ordered this book, and it should be available soon for our members.

BOOK SALES POLICIES FOR MEMBERS

Just a reminder: The Board of Trustees established the following policy on book sales to members: A small discount from retail is given to members who purchase books at membership meetings, or who order books at that time. During the Annual Exhibit, everybody, members and nonmembers are charged the retail price plus sales tax.

THE 1981 NAMA NATIONAL FORAY Dick Sieger

Details about the 1981 NAMA National Foray were covered in the April 1981 issue of Spore Prints. The deadline for registrations is fast approaching and if you are now deciding to attend, you may give me a call (362-6860) for the details.

This foray is named in honor of our Charter Member No. 1, Margaret McKenny, and will be attended by mushroomers from all over the United States. Dr. Stuntz is the Foray Mycologist. Dr. Orson Miller and (former PSMS member) Dr. Scott Chilton have already registered. PSMS is the host club. The Northwest Key Council is assisting in identification. The dates for the foray are October 15 - 18, 1981.

GARLIC POWER Mycologia, Vol. 72 - 1980, p.1022

Oil of garlic (natural or synthetic) has been found to suppress the activity of many air and soilborne fungi. At concentrations of 250 parts - per - million (0.025%) no growth of *Rhizoctonia solani*, an incitant of serious root rot disease in grain, was observed after 21 days. The active principle has been shown to be a mixture of diallyl-disulphide and diallyl-trisulphide.

Melzer's reagent is difficult to obtain but it is really more important as a concept than as a practical field aid. It permits one to commence bridging the gap between Kauffman and Miller. In many cases it enables one to grasp the reasoning behind the generic changes that have occurred since Kauffman. It is one of the windows through which one may perceive the new vistas which are developing on the mycological horizon.

Melzer's reagent is prepared by mixing four substances together. In parts by weight they are: water, 20; potassium iodide, 1.5; iodine, 0.5; chloral hydrate, 20. Unfortunately chloral hydrate is a dangerous and controlled chemical which has been used as a nerve sedative and soporific (sleep inducer). It is commonly known as a Mickey Finn (knockout drops). Film buffs will recall numerous Warner melodramas of the 30's in which the hero was slipped a mickey in his drink. It was undoubtedly the potion that Sydney Greenstreet used to send Bogey bye-bye in their second encounter scene from *The Maltese Falcon*. The Broadway actress and cinema beauty, Jeanne Eagels, died from an overdose of chloral hydrate in 1929.

If Melzer's reagent is added to mushroom spores, one of the following changes will be observed:

- The spores will turn blue-black; this is called AMYLOID
- The spores will turn reddish-brown; this is called DEXTRINOID
- The spores will not change color (or only discolored by reagent); this is called NON-AMYLOID.

Those who recall their High School chemistry will note a similarity with the Litmus test: change to red; change to blue. Use the following as mnemonics (memory aids): ever notice that kids named Dexter (for dextrinoid) seem to have red hair; imagine that a person named Emil or Emile (for amyloid) tripped over a mushroom and was bruised black and blue.

The more important applications for generic separations based mainly on spore reactions to Melzer's reagent follow:

Amanita: This genus is divided into amyloid and non-amyloid species

amyloid: *abrupta*, *atkinsoniana*, *bisporigera*, *brunnescens*, *chlorinosma*, *cinereoconia*, *cinereopannosa*, *citrina*, *cokeri*, *excelsa*, *flavoconia*, *flavorubescens*, *onusta*, *peckiana*, *phalloides*, *polyramis*, *porphyria*, *ravenellii*, *rubescens*, *spissa*, *virosa*

Non-amyloid: *caesaria*, *cothurnata*, *farinosa*, *frostiana*, *fulva*, *gemma*, *inaurata*, *muscaria*, *parcivolvata*, *spretta*, *vaginata*, *wellsii*.

Cantharellus is non-amyloid; *Cantharellula* is amyloid; *Hygrophoropsis* is dextrinoid.

Chroogomphus is amyloid on the stem mycelium; *Gomphidius* is non-amyloid on the stem mycelium.

Cystoderma: *amianthinum* is amyloid; *cinnabarinum* is non-amyloid.

Mycena species are mostly amyloid; *Marasmius* is non-amyloid.

Omphalina is non-amyloid; *Xeromphalina* is amyloid.

Lentinus is non-amyloid; *Lentinellus* is amyloid.

Panus is non-amyloid; *Panellus* is amyloid.

AMYLOID

Amanita (above)
Cantharellula
Chroogomphus (above)
Cystoderma (above)
Lactarius
Lentinellus
Leucopaxillus
Melanoleuca
Mycena (most)
Panellus
Russula
Xeromphalina

DEXTRINOID

Hygrophoropsis
Lepiota (most)
Leucoagaricus
Leucocoprinus

NON-AMYLOID

Amanita (above)
Cantharellus
Clitocybe (most)
Collybia
Craterellus
Cystoderma (above)
Flammulina
Gomphidius (above)
Hygrophorus
Laccaria
Lentinus
Limacella
Marasmius
Omphalina
Oudemansiella
Panus
Pleurotus
Tricholoma (most)

Although this is an important reagent, it will never become as popular as those three other reagents cherished by mushroomers: salt, pepper and butter.

GLEANINGS

H.R.H.

The Kitsap Peninsula Mycological Society has already held a field trip, the weekend of August 22 & 23, at Mora Camp Ground on the Olympic Peninsula. They found *Laetiporeus sulphureus* (chicken of the woods) in quantity and a few chanterelles.

Now that our immediate past president, Jennie Schmitt and Dave have retired to Port Orchard, they are also becoming active in the Bremerton Club.

The TORONTO Mycological Society reports that one of its members, three seasons ago, placed the cuttings from his morel find and some specimens that were past their prime, in the earth at the back of his garden. Last year he harvested 3 morels in this spot. In May 1981 he collected over 20. Whether it is coincidence, luck, or whatever, is being discussed.

From the bulletins of many EASTERN and MIDWESTERN Societies, I gather that their field trips consist of afternoon walks, in unison, with one person identifying the few fungi that are found. At the end, they gather and discuss the mushroomers. Most of these societies stage one big foray per year.

ANOTHER MEDICAL USE FOR MUSHROOMS: From several sources our attention has been drawn to the use of an extract of *Amanita muscaria* as a painkiller. It was developed by Paul Krosgaard of the Royal Danish School of Pharmacy. While *A. muscaria* is toxic, the extract used is not toxic, and is being tested on patients in Europe.

MISCELLANEA

H.R.H.

Our Board member Rudy Karzmar just returned from a trip around the world. Ask him through how many more typhoons he wants to wade through? (He encountered three.)

Rudy also reports that fresh (\$4.95 a pound) shitaki are for sale at Uwajimaya's.

Both Jennie Schmitt (from open-heart surgery) and Dorothy Nendza (from a heart attack and complications) are convalescing. We wish both a speedy, complete recovery.