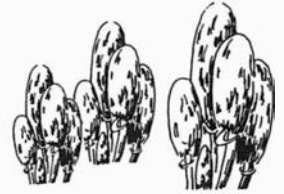


SPORE PRINTS

BULLETIN OF THE PUGET SOUND MYCOLOGICAL SOCIETY

Number 234

September 1987



COLLECTION OF EDIBLE FUNGI DOUBLES Dr. S.-C. Jong
ATCC Quarterly Newsletter Copyright 1987
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Germplasm preservation of pure cultures of edible fungi is becoming increasingly important. A wide range of edible fungi has been isolated and grown in pure culture successfully and the number of wild or exotic species in which artificial cultivation has been successful is increasing rapidly.

In 1982 an international culture collection, germplasm bank, of viable, edible fungi was established within the mycology and Botany Department at the American Type Culture Collection.

The major objectives of this international, genetic resource center are (1) to collect isolates of as many species as possible of edible fungi from all over the world, (2) to preserve germplasm of these fungi, using cryogenic storage to ensure genetic stability, (3) to provide a reliable source of starter cultures for research or commercial use, (4) to create and utilize a strain database for each culture maintained, (5) to act as an information clearing house on the scientific and technical aspects of edible fungi, and (6) to serve as a center for conducting research and training personnel in culture methods, maintenance and preservation, data management, strain improvement, genetic engineering, characterization and identification of viable edible fungi.

The collection now comprises over 1,100 strains of edible fungi, representing 150 species and 50 genera, almost double that of 1982. These are now available for general distribution worldwide for a modest fee to those who request them. These cultures are essential for scientists to have the genetic variation needed to improve genotypes and thereby enhance the productivity and diversification of cultivated mushrooms to meet the world market requirements.

The ATCC is currently seeking additional cultures from different geographical regions throughout the world. Depositors can obtain subcultures free of charge at a later date. Arrangements can also be made to exchange cultures at the time of deposit.

The ATCC also accepts mushroom spawn cultures for freezing and safe-deposit storage in liquid nitrogen under special arrangements with spawn-making companies and larger mushroom farms at a nominal fee. The ATCC agrees not to accession or distribute cultures placed in safe-deposit and the depositor retains all proprietary rights.

Those who are interested in depositing viable cultures of edible fungi in what has become a "World Germplasm Bank" should contact Dr. S. C. Jong, Head, Department of Mycology and Botany at ATCC (301-231-5564). The address is ATCC, 12301 Parklawn Drive, Rockville, MD 20852.

[ATCC newsletters can be found in the PSMS library.]

AVOID RAW MUSHROOMS Kitsap Peninsula Myco. Soc.

Researchers at the University of Nebraska Medical School in Omaha found that mice allowed to eat their fill of common raw mushrooms (*Agaricus bisporus*) developed malignant tumors at a significantly higher rate than mice in a control group. In light of her work on two unstable carcinogenic ingredients found in *Agaricus bisporus*, University of Nebraska's Bela Toth recommended flatly, "The ingestion of *A. bisporus* in raw forms should be discontinued." A suggested alternative is minimally to cook marinated mushrooms.

Many hydrazines are highly volatile and, according to other studies, most can be destroyed by cooking or even drying the mushrooms. If you eat mushrooms often, consider preparing them in soups, stews, or as a cooked side dish or garnish. Avoid raw mushrooms.

An eight-member team from the University of Toronto is currently searching for a safer, better tasting strain of *A. bisporus*. This is a long-term project sponsored by the Campbell Soup Company.

SPOONING SOUP

Larry Stickney

Coprinus comatus, any amount
white onions, amount equal to
mushrooms, chopped
butter

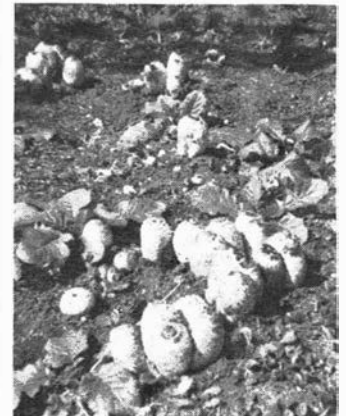
salt
white pepper
pinch of mace
cream

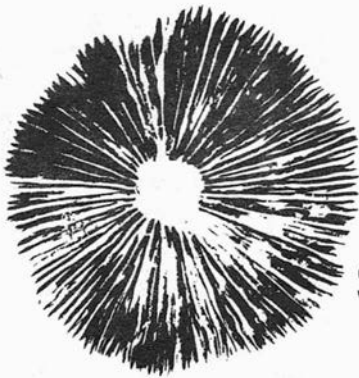
1. Trim and chop the fungi very well (this will ensure that the soup will be pure white.) Saute the fungi and half of the onions in just enough butter to prevent them from sticking to the pan. Add a little salt and pepper and a pinch of mace. Cook for 20 minutes.

2. Place the mushrooms and onions in a blender. Add just enough cream to blend the mixture to a smooth -- but not runny -- consistency.

3. Serve at once, topped with a thin pat of butter.

Larry Stickney prepared this soup for us at Coleman Leuthy's cabin high in the Washington Cascades. The recipe was included in an article on Larry by Jim Wood in the *San Francisco Examiner*, who said "The simplest things are always best, so try this spooning soup, so called because it is thick and smooth and piles up on the spoon like whipped cream. It is a pure white, almost sparkling dish of consummate taste."





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Spore Prints

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PUGET SOUND MYCOLOGICAL SOCIETY
Center for Urban Horticulture, Mail Stop GF-15
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(206) 522-6031

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Calendar

Sept. 8	Membership meeting, 7:30 p.m., CUH
Sept. 12-13	Masonic Park field trip
Sept. 14	Open meeting to discuss field trip conservation practices, 6:15 p.m., CUH
Sept. 14	Board meeting, 7:00 p.m., CUH
Sept. 19-20	Crystal Springs field trip
Sept. 25	Spore Prints deadline
Sept. 26-27	Lake Wenatchee field trip
Sept. 28	Beginners' class, 3-5 and 7-9 p.m., CUH
Oct. 2-4	Cispus Foray
Oct. 5	Spore Prints mailing, 10 a.m., CUH
Oct. 17	Annual Exhibit

ROSTER UPDATE

Coleman Leuthy

It seems that in typing the copy submitted to the printer from the rough draft at least a few errors were made. Please correct your roster as follows: Our secretary is Lois Skoor, 935-9841. The two board members omitted are Ingeborg McGuire, 633-5778, for 1986-1988 and Camille Diaz, 281-9527, for 1987-1989. Patrice Benson's correct phone number is 722-0691, and Dan Schwenk has a new phone number, 363-7973. Margaret Dilly, 782-8511, should have been listed as Immediate Past President.

Membership Meeting

Tuesday, September 8, 1987, at 7:30 p.m. in the Center for Urban Horticulture, 3501 N.E. 41st Street, Seattle.

Our program this month consists of two subjects: Mushroom cookery and the annual exhibit. **Patrice Benson**, who chairs our new Mycophagy Committee, will whet our appetites with a cooking demonstration, and **Dennis Bowman**, Exhibit Chairman, will prepare us for the exhibit.

EDUCATION

Coleman Leuthy

Beginners' classes are scheduled on Mondays beginning September 28th and continuing through November 16th, which is a Tuesday. Classes will be held both at 3:00 and at 7:00 p.m. for two-hour periods. These classes will be advertised in the CUH bulletin, and I also plan to have an announcement in *The Daily of the University of Washington*. I would suggest signing up early in September. A check secures your position. The fee is \$17 for PSMS members and \$34.00 for non-members. Make checks payable to PSMS. There will be no refunds after September 25. The classes will be held in Isaacson Hall at CUH. The instructors are Coleman Leuthy, 322-2554, and Randy Sheppard.

FIELD TRIPS

Irwin Kleinman

Masonic Park

September 12, 13

This private camp, four miles east of Granite Falls, is available for our use Saturday and Sunday only. We will collect modest fees for day use and overnight camping. From Snohomish, follow State Highway #9 north to the State Highway #92 turnoff. Follow #92 east to Granite Falls and continue east for about four miles. Watch for the sign that directs you to turn left into Masonic Park.

Crystal Springs Forest Camp

September 19, 20

Use I-90 over Snoqualmie Pass. Nine miles east of the summit, take the Stampede Pass exit #62. Turn right at the stop sign. After a quarter mile, before the bridge, stay right to enter the camp.

Eagle Creek

September 26, 27

Mushroom identification will be at 2:00 p.m. at Coleman Leuthy's cabin on Eagle Creek. Potluck will be at 4:30 p.m. There are two possible routes. (1) Follow I-90 east over Snoqualmie Pass, take exit #85 just east of Cle Elum, and follow Route 970 to Route 97. Take Route 97 to Leavenworth, go 2 miles north on Highway 209, and then 4 miles up Eagle Creek Road to barn and cabin on the right. (2) Follow Route 2 east over Stevens Pass, turn left at Coles Corner onto Highway 207 approximately 17 miles east of the summit, turn right after 3 miles onto 209 to Plain and proceed on toward Leavenworth; watch for Eagle Creek Road on the left. There is good hunting on both routes. Some areas to try on Route 2 are Money Creek Campground, Deception Falls, USFS 2706, the old highway from Scenic to the summit, Troublesome Creek, the Stevens Pass summit, any place on the east side, and the Lake Wenatchee area. If you're coming over Snoqualmie Pass, there are many good locations to choose from on the Blewit Pass road.

BUILDING FUND

Coleman Leuthy

There is good news and even better news. First, the good news. (1) Gilbert Austin and I met with Dr. Harold Tukey in July, at which time we signed an agreement for use of Isaacson Hall for 2-1/2 years rather than the original 2 years, and (2) the pledge for \$25,000 has been extended until June 30, 1989. At that time, it is my intent to secure a long-term use agreement similar to those extended to the Seattle Garden Club and the Northwest Horticulture Society before making payments on our pledge that would exceed the \$300 per month currently charged for occupancy. I know that some of you are checking this very closely, and we do need your support.

The even better news is that we have been appraised that building fund contributors will receive tax-deductible forms from the University of Washington. Checks should be made out to PSMS. PSMS will transfer the funds, along with a computer list of contributions, to the University, and the University will issue statements to us. This could take place as early as September. When we do receive them, we will then forward your statements to you as soon as possible. In the future, we will submit names and secure donation forms twice a year, in July and January.

ANNUAL EXHIBIT

Dennis Bowman

The 24th Annual Wild Mushroom Exhibit will be held October 17th and 18th at the Scottish Rite Temple on Capitol Hill. To help the chairpeople of the 26 committees involved in the exhibit form their staff of workers, Dick Sieger, his computer, and I have sent out about 140 letters to various members asking for their participation with specific committees. If you are one of those who received a letter, please make every effort to assist your chairperson. For those of you who didn't receive a letter, there are a few committees needing special attention. Construction (Andy Green) needs trucks and drivers. Hospitality (Lori Knox) needs people who can bring food to help feed the 150 exhibit workers. Hosting (Pacita Roberts) needs people to help in several areas, and Video (Richard Pauli, he's almost agreed) needs several people who can do filming with a video camera. Also, Publicity (Camille Diaz) will be needing a number of members to participate in TV audiences again this year.

It becomes obvious that, even with all the groundwork completed, it is still the involvement of our membership that really makes the exhibit happen. Some of you have received letters, some of you need to contact the four committees needing special attention, and some of you need to sign up for special jobs at the September meeting. But what can the rest of us do?

Once the exhibit is running, we will need attendees. And this is where 100% of the membership needs to participate. Costs are high, and the only thing that will make the difference between being in the red and being able to contribute to the building fund is people. Each of us needs to invite ten people and bring five. Help by buying a piece of art, a poster, or a book.

Come to the September meeting and bring your enthusiasm and your pens. Patrice Benson will be cooking, the new poster will be distributed, and mushrooms will be given away. Enthusiastic and excited? See you there!

BOOK SALES

Judi Boa

Ernie and I will be on vacation during the September membership meeting, so there will be no book sales until the meeting in October. Remember to get anything you want then, because we will be charging full price at the show.

We have a large selection of T-shirts, posters, and books. Two items you might like to keep in mind for the October meeting are the new edition of *The Savory Wild Mushroom*, which has been revised by Dr. Joseph Ammirati to include a greatly expanded species list and modern information. Member's price is \$11.25. Also, the Oregon mycological Society's new cookbook is for sale to PSMS members for \$11.65.

ECOLOGY COMMITTEE

Margaret Dilly

Mushroom season is upon us again, and commercial harvesting of chanterelles has begun.

In an effort to get some type of regulations into place this fall, the Department of Natural Resources called a Task Force meeting on September 19, where we were presented with their proposed regulations and licensing structure. Pickers would be required to have a permit and a data-collecting form. This would include date, fungi type, area, and poundage. These data will be necessary if we are to establish the forest impact caused by mass harvesting. A fee of 20 cents per pound with a minimum of \$20 was thought to be a fair amount charged for commercial picking. Anyone found gathering over 5 lb without a permit on them would be subject to a fine up to \$250. Permits would be good for only one season.

Ruby Miller from Tacoma and Ralph Hayford from the South Sound Mushroom Club, both PSMS members, were also in attendance at this meeting. We, however, were outnumbered by commercial interests and their lobbyists. They came with guns a blazing. They strenuously objected to the poundage fee, insisting 1 cent per pound was enough. When their request was refused, they blatantly declared they would not keep accurate records. So, after long and heated debate, it was agreed that a flat fee -- probably \$30 per individual and \$50 per family -- would be charged.

After this concession on our part, we asked that the 5 lb limit for noncommercial pickers be expanded to 5 lb per species with an aggregate of 15 lb. The DNR assured us they would take this under consideration when they rewrote the regulation. They assured us they would get back to us soon, as they want to implement this by September.

It is disappointing that the DNR has to knuckle under because of the dishonest practice of those making monetary gain off of the land. The thing we still need is some State legislation that would deal with all lands. I have talked with legislative people and have a meeting next week with Grace Cole, 1st district, and Jennifer Belcher, 22nd district. As we heard from Representative Sutherland at our June meeting, it is not going to be easy. We each must contact our three representatives and let them know we need their support. They are your neighbors, so feel free to call them. If you don't have their phone numbers, call me and I'll supply you with them.

We are gearing up to host the legislators on a fall field trip, so be watching for information about it.

ENUMCLAW COUNTY FAIR

Ingeborg McGuire

For those of you who missed it, from July 15th to 19th PSMS manned a booth at the Enumclaw County Fair. We displayed posters and pictures from PSMS, showed some examples of fresh wild mushrooms supplemented by an exhibit from the PSMS freeze-dry collection, answered questions, and passed out flyers. We talked to a lot of interested people who we hope now have an added enjoyment of the wild fungi found in our state.

All this would not have been possible without the following people who manned the booths:

Gilbert and Alice Austin	Larry Baxter
Hildegard and Monte Hendrickson	Bob Hamilton
Thomas and Roberta Ulmer	Howard Melsen
Jessie and Erwin Rouleau	Bill Guinn
Pacita and Guy Roberts	Margaret Holzbauer
George and Jennie Rafanelli	Bob Hanna
Libby and Gerard Barta	Bill Clifford
Ed and Patricia Bush	Ernie and Judi Boa

Brian Luther identified the *Ramaria* and various wood-growing mushrooms I found to display; Kris Sulswas carted all the stuff down; Ralph Burbridge and Dan Schwenk set up the booth, and Margaret Dilly and Agnes Sieger supplied the flyers.

Thank you all for your positive response to my calls.

FORAYS

Cispus Center Foray: October 2-4, 1987. Sponsored by the Lewis County Mushroom Society and PSMS, this foray will be near Randle, Washington. Dr. Ammirati is the foray mycologist. We can collect in a wide range of habitats from volcanic blast zone to old growth forest. Workshops emphasize identification of mushrooms using keys. Expect to share the fellowship of authors of the keys and to learn about collecting from our finest amateurs, people you seldom meet on field trips. Prices start at \$5.00 per day and you must register before September 20th. Use the form from the June *Spore Prints* or get one from the PSMS office. The registrar is June Childers, 403 S. Rock St., Centralia, WA 98531 -- (206) 736-4756 evenings.

Mushroom Study Tour of the Holy Land: December 6-20, 1987. Contact Emanuel Salzman, c/o Fungophile, P.O. Box 5503, Denver, CO 80217-5503 (tel: 303 296-9359).

PERSONAL NOTES

Ben Woo led a weekend foray for the Olympic Mountain Mycological Society in May. Thanks, Ben.

Coleman Leuthy gave a talk on *Lactarius* to the Vancouver, B.C., Mycological Society on June 2nd.

Later in June, **Dick Sieger** and **Dennis Bowman** gave a talk at The Herbfarm on cooking with commercially grown mushrooms.

Monte and Hildegard Hendrickson held classes and led field trips at The Herbfarm in May and July.

Millie Kleinman was unable to supervise the *Spore Prints* mailing personally this month, as she was in the hospital for back surgery. We wish her a speedy and complete recovery.

We are happy to report that **Jack Laycock** is feeling better than ever after heart surgery last spring.

FIRST ANNUAL PSMS SUMMER PICNIC Millie Kleinman

Bob Hanna brought some fancy kites and kits to make others. The Boas brought their games. Dan Schwenk brought the coffeepots (but no Kool-Aid). Even the sun showed up. The result, a fun filled PSMS picnic at Gasworks Park July 20th. To prove it, just check the smiles in the following photographs.



Answers to the June puzzle (name, row, column, direction)

ALBATRELLUS	22	8	N	LEUCOPAXILLUS	13	21	NW
ALEURIA	26	18	W	LYOPHYLLUM	16	11	N
AMANITA	11	2	N	MARASMIUS	1	8	SE
BOLETUS	18	9	S	MICROGLOSSUM	3	5	SE
BOVISTA	28	18	W	MYCENA	18	17	S
CHLOROPHYLLUM	6	17	S	NIDULA	10	10	S
CHROOGOMPHUS	16	12	N	OUDEMANSIELIA	21	6	N
CREPIDOTUS	18	15	S	PAXINA	4	3	S
DACRYMYCES	3	8	S	PHYLLOPORUS	6	11	SE
DISCINA	3	7	SW	RAMARIOPSIS	12	16	S
FOMES	9	18	SE	RUSSULA	27	18	W
HIRSCHIOPORUS	16	14	S	SCHIZOPHYLLUM	4	7	S
HYDNELLUM	16	10	S	SUILLUS	5	5	S
HYGROPHOROPSIS	22	13	N	TRICHOLOMA	2	11	SW
HYGROPHORUS	15	21	NW	TRICHOLOMOPSIS	16	9	N
IRPEX	20	7	S	VERPA	8	18	SE
LEOTIA	21	11	NW				