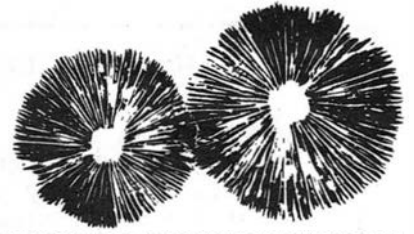


# SPORE PRINTS

BULLETIN OF THE PUGET SOUND MYCOLOGICAL SOCIETY

Number 237

December 1987



## Spore Prints

is published monthly, September through June, by the  
**PUGET SOUND MYCOLOGICAL SOCIETY**  
Center for Urban Horticulture, Mail Stop GF-15  
University of Washington, Seattle, Washington 98195  
(206) 522-6031

**OFFICERS:** Coleman Leuthy, President  
Richard Sieger, Vice President  
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**IMMED. PAST PRESIDENT** Margaret Dilly

**SCI. ADVISOR:** Dr. Joseph F. Ammirati

**EDITOR:** Agnes A. Sieger, 15555 14th N.E.,  
Seattle, WA 98155

## Calendar

Dec 8 Membership meeting, 7:30 p.m., CUH  
Dec 14 Board meeting, 7:00 p.m., CUH  
Dec 18 *Spore Prints* deadline  
Dec 28 *Spore Prints* mailing, 10:00 a.m., CUH  
Jan 12 Membership meeting, 7:30 p.m., CUH

## ARGENTINA FORAY

Patagonia Plus, a mushroom study tour of Argentina, will be held from February 21 - March 8, 1988. The tour will be led by Gary Lincoff (author of the *Audubon Field Guide to North American Mushrooms* and former President of the North American Mycological Association), Andrew Weil (author of *Health and Healing*), and Emanuel Salzman (co-editor of *Mushroom Poisoning*) and will be accompanied by Rolf Singer. The tour includes Tierra del Fuego, the Moreno Glacier National Park, a great southern beech forest at San Carlos de Bariloche, and the lush rainforest along the border with Brazil. For further information, contact Emanuel Salzman, c/o Fungophile, P.O. Box 5503, Denver, CO 80217-5503 (tel: 303 296-9359).

## MAILING COMMITTEE

Millie Kleinman

Thank you,

Ralph Burbridge Ingeborg McGuire  
Mae Green Amelia Schultz  
Bob Judd Bill Zila  
Coleman Leuthy

for your help with the *Spore Prints* mailings. Our next mailing will be December 28, 1987, at 10:00 a.m. Everyone is welcome to help.

## Membership Meeting

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

**Program:** Welcome to the PSMS Christmas Social -- a chance to show (or just look at) favorite photos, talk with old (and new) friends, and enjoy the epicurean Christmas delights for which the members of this society are so justly famous. Remember to bring a batch of your favorite cookies or finger food to the kitchen area about 7:00 p.m.

If you would like to participate in the photography program, please bring your entries to Dick Sieger before 7:30 so the carousel tray can be ready when the meeting starts. This is your opportunity to show your favorite pictures of field trips, forays, fungi, etc., with an emphasis on people. Each person will be limited to 3 to 5 minutes, depending on how many participants and slides we have. The total program will be limited to 45 minutes. Tables will also be available for members to display photographic prints.

As usual, plan to arrive early, say, 7:00 or 7:15 p.m. to allow time for book sales, mushroom identification, and membership business.

## BUILDING FUND

Coleman Leuthy

Contributions had been received from 43 members through August. There were 20 full-share contributors of which 7 had given \$100 or more. About 30 members helped inventory at The Bon, for which we received \$263.80. Many thanks to all the contributors and the hard workers.

Members contributing \$50 or more are

Coleman Leuthy	Mildred Muller
Ann Levanavich	Jan & Margaretha Diepenheim
Damaris Rice	Gerard & Libby Barta
Benjamin Woo	Bill & Betty Hough
Marilyn Ward	Eric & Jane Frankenfeld
Frank Occhiuto	Gilbert & Alice Austin
George Rafanelli	Benjamin & Keiko Brown
Reynaldine Sandahl	Russ & Shirley Kurtz
James Herndon	Reichgerdt & F. Harris
Florence Tsukui	Douglas & Theresa Ward

## NAMA MEMBERSHIPS

Denis Benjamin

As an amateur mycologist, I encourage you to become an individual member of the North American Mycological Association (NAMA). You will be kept apprised of what is happening at a national level through their newsletter and *McIllvainia*, receive information from the Toxicology Center, and be invited to participate in the national forays. The greater our voice, the bigger our impact on determining the direction of amateur mycology. A membership in NAMA is another way to involve yourself and keep informed.

Membership renewals in NAMA are due now and should be sent in as soon as possible in order to meet the early spring publication date of the NAMA roster. As a member of an affiliated society, your cost is only \$12.00/year (versus \$15.00). Make checks out to NAMA and mail to Coleman Leuthy (2455 E. Lake Wash. Blvd., Seattle, 98112), who will verify your membership and send them on to NAMA.

## SPEAKERS' COMMITTEE

Joy Spurr

Ben Woo gave a mushroom program on October 15 to the Skykomish Valley Mycological Society and on October 21 to the Washington State Hilakers. Joy Spurr talked on mushrooms for Arboretum Unit #16 on September 1 and Unit 81 on October 21. On November 11, Margaret Dilly gave a talk on mushrooms to Seattle Tilth (organic gardeners).

## BRAISED MUSHROOMS WITH GARLIC Patrice Gales Benson [Prepared at the 1986 PSMS exhibit]

1 oz. dried or fresh shiitake (*Lentinus edodes*)  
2 Tbs. oil  
1 large clove garlic  
3 slices fresh ginger  
2 Tbs. dark soy  
1 Tbs. sugar  
2 tsp. sesame oil

1. Reconstitute mushrooms if necessary. Reserve mushroom soaking liquid. Remove and discard stems.
2. Heat wok. Add oil and when hot, saute garlic and ginger. Remove.
3. Saute mushrooms. Mix together remaining ingredients with mushroom soaking liquid. Add to mushrooms in wok and cover. Cook until liquid is absorbed on low heat.
4. Serve hot or chill and serve as part of a cold hors d'oeuvre plate.

**BOOKLET:** *Mushrooms and Other Fungi of Land Between The Lakes*, written by Walter J. Sundberg and John A. Richardson, was published by the Tennessee Valley Authority as part of their environmental education program. It has 64 pages with 93 color illustrations of 88 species. If you would like a copy, send \$3.50 to Walter J. Sundberg, Department of Botany, Southern Illinois University, Carbondale, IL 62901.

## BOARD NEWS

Lois Skoor

After consulting with lawyer Douglass Raff, a PSMS member and specialist in nonprofit law, Ben gave a favorable report about our agreements with CUH. The Board endorsed Ben's idea of asking for a pledge from each member (see enclosure in this month's *Spore Prints*).

It was decided to hold the 1988 annual exhibit on October 22nd and 23rd at CUH. In the absence of an exhibit Chair, Coleman Leuthy was appointed to talk with the Center about the space requirements. If the exhibit is to get off the ground, we need a Chair and an assistant as soon as possible. Even if you don't want the responsibility of chairing the exhibit, you can still volunteer to assist.

Ingeborg McGuire agreed to chair the Banquet Committee. She reports that the banquet will be Friday, March 11. The exact location is still to be decided, although negotiations are under way.

It was decided to replace the PSMS answering machine, which would cost too much to repair.

## FIGHTING BACK AGAINST ROTTERS

*The Mycelium*

The Mycological Society of Toronto  
(Summarized from the *Toronto Star*)

You all know the scenario. You spot a golden peach in the fruit bowl and your mouth starts to water. You reach for it and -- UGH -- the underside drips brown gloop over your fingers. It's rotten, and that rot is often caused by a fungus.

Now at the University of Western Ontario, Professors Wilbert McKeen and Alan Day and Ph.D.s Richard Gardine and Antonet Svircev have found a way to tailor antitoxins to specific fungus growths. The present antitoxins only stun the fungus for a couple of days. Three exciting finds have emerged from the research:

- It has shown how at least some types of fungi invade plants.
- It has developed protective potions to help fight these invasions.
- It found a way to track these potions to their battle fields inside the plant tissue.

Fungus attacks have been mostly invisible to us until now because they involve some chemical molecules that are too small to see, even with an electron microscope. To detect these molecules, the Western team decided to treat the fungi as toxins. When an animal is infected with a toxin, it develops antitoxins to fight the infection and then leaves some of the antitoxin in its system to fight future infections of the same kind. Plants can't develop antitoxins in this way, so the Western team decided to let animals do it for them. They ground up the fungus and injected it into rabbits who quickly developed antitoxins, which were then extracted. The problem was the antitoxins, just as the toxins, could not be seen by microscope. McKeen and company decided to put the antitoxin together with specks of gold.

They put this potion onto and injected it into plants infected at various stages with the fungus. By tracking the gold specks, they could locate the spots where the antitoxin found the toxin and cut them out and inspect them. They were surprised to find fungus molecules deep inside grain plants that showed only bits of rust or mildew on their surfaces. It appears that some fungi send chemicals first to take over the metabolism of the plant to make food for the fungus for several days before much damage becomes apparent. It was found that not all fungi attack in the same way or with the same speed, but both the quick rotter of fruits and the parasitic slow killer of grain were attacked by the antitoxin. The antitoxin did not kill the fungus but slowed down its life cycle and production of spores. Some plants were able to withstand several generations of spores before they wore down.

McKeen and team hope to spray crops with antitoxins to help them survive the harvest before the fungi get them. The other benefits are that the antitoxins are harmless to people and can be sprayed on at harvest time or even in the storage bins to keep those peaches and cherries in good shape till we're ready to eat them.

**POSTERS:** Our four annual exhibit posters, designed as a matched set, are available for \$5 each when three or more are purchased at one time or \$7 each for single posters. Two of these collectors' items won prestigious awards. Would they make your Christmas shopping easier?

**THE ARBORETUM IS NOT A PARK**

**Joy Spurr**

In response to the June article on urban mushrooms, I would like to point out that the University of Washington Arboretum is not an ordinary city park, as implied in the article. It is a scientific collection of trees and shrubs and other plants. The land is owned by the City of Seattle, but the Arboretum is administered by the University of Washington through the Center for Urban Horticulture. There are joint contracts and agreements between the City of Seattle, Department of Parks, the University of Washington, and the Arboretum Foundation (a nonprofit organization that was instrumental in getting the Arboretum started back in the 1930s).

Collecting of plants, including fungi, by the public is not permitted in the Arboretum. The Arboretum is used for study purposes by various botany departments in the University, including the mycology department. The Center for Urban Horticulture and the Arboretum Foundation conduct many tours of educational nature through the Arboretum for the observance and study of plants. The docents point out mushrooms to their tour groups as well as the trees and shrubs and their ecological value. For many, many years I have given slide-lecture programs to Arboretum Foundation members, and gave the first class on mushrooms one year ago sponsored by, and given at, the Center for Urban Horticulture.

The Center for Urban Horticulture is in the process of making new signs for the Arboretum with particular regard to the protection of all plants.

Unfortunately, "picking" by people is not the only problem: dogs running loose, bicycles cutting through planting beds and across wet lawns, car burglaries, and litter are others. Perhaps part of this is due to the fact that our Arboretum is not fenced in with a guard at the gate as is done at other botanical gardens and arboreta in the United States and foreign countries. Ours is wide open for everyone to enjoy -- and, sadly, for some to destroy.

**THE NEW SAVORY WILD MUSHROOM**

**Dick Sieger**

A long-time favorite of both beginning and experienced mushroom hunters in the Pacific Northwest, this book has gone through two major revisions since it was first published by Margaret McKenny in 1962 -- first by PSMS Advisor Dr. Daniel E. Stuntz in 1967 and now by PSMS Advisor Dr. Joseph Ammirati. The number of fungi has been increased to 199, and each species is now illustrated in color; the chapters on toxins and on mushroom preparation, cooking, and preservation have also been revised.

The first thing you notice about the new revision is that photographs are spectacular! (They were sent back to the printers in Japan three times before Dr. Ammirati was satisfied with the color renditions.) Look at the chanterelles on pages 28 and 29 and you will feel that you are in the forest.

As in the previous two editions, mushrooms are grouped by appearance: pored, gilled (arranged by spore color), puffballs, cup fungi, etc. Each picture is accompanied on the same page by a concise description including mushrooms that have a similar appearance and notes about edibility. This arrangement is particularly suited to beginners, who tend to take a "hunt and peck" approach to identification.

While the book is excellent for beginners, it is not to be taken lightly. In keeping with Dr. Ammirati's interest in toxicology, the chapter on mushroom poisons is especially interesting, covering the most recent information. The brief descriptions, supplemented by the photos, capture the essence of the mushrooms, describing them better than many lengthy technical descriptions in other books.

If you have an old edition, you'll want this one too. PSMS members' price is only \$11.25.

Royalties from the book have been donated to the Daniel E. Stuntz Foundation.

*HAVE A HAPPY HOLIDAY!*

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**Puget Sound Mycological Society**  
Center for Urban Horticulture  
GF-15, University of Washington  
Seattle, Washington 98195



**Christmas slide show & cookie bash**  
Tuesday, Dec. 8, 7:30 p.m., CUH

SIEGER, Dick & Agnes  
15555 14th Ave NE  
Seattle WA 98155

## NEW P.S.M.S. MEMBERS, Autumn 1987

AUSTIN, Bill	16401 SE 17th St. Bellevue, WA 98008	562-0228	GOERCKE, Delphine	906 - 85th N Seattle, WA 98113	325-4048
BAKER, Bill & LANGER-BAKER, Erna	15134 - 38th NE Seattle, WA 98155	364-5757	GRANRYD, Aina	2629 1/2 Boyer Ave. E Seattle, WA 98102	523-9936
BAUER, Rod	2509 E Calhoun Seattle, WA 98112	325-9552	HARDMAN, Alice & Ed	2021 NE 100th Seattle, WA 98125	783-2864
BEARDEN, Steve & WALKKY, Margaret	12216 Palatine N Seattle, WA 98133	367-4368	HOGLAND, Don & BOULLIN, Kathy	130 N 83rd Seattle, WA 98103	241-6044
BELL, Dean & DEYOE, Jayne	3823 NE 91st Seattle, WA 98115	524-9429	INNES, Bob	10616 - 20th S Seattle, WA 98168	854-9290
BENTLEY, Maia & JACOBS, Russel	12019 - 25th Ave. NE Seattle, WA 98125	361-1919	JONES, Robert & Kay S.	20020 - 104th Place S Kent, WA 98031	284-6136
BERGMAN, Spencer J.	8911 Fifth NE Seattle, WA 98115	524-2329	KAYODA, Kim	119 W Roy, #417 Seattle, WA 98119	392-3145
BOBBINK, Stephen R.	320 Melrose Ave. E, #305 Seattle, WA 98102	329-7790	KENTFIELD, Marilyn & Phillip	3806 - 230th Court SE Issaquah, WA 98027	725-7997
BOLLMAN, Margaret	11535 Greenwood N, #203 Seattle, WA 98133	367-3365	KLEINER, Charles	11832 - 55th Ave. S Seattle, WA 98178	325-3306
BOND, William B.	5207 Fifth Ave. NE Seattle, WA 98105	545-8321	KOBA, Masao	P.O. Box 872 Seattle, WA 98111	523-7646
BORYS, Michael & Jutta	Box 167 (503 Louviers Ave.) DuPont, WA 98327	964-4693	KORCH, Peter & GROVE, Linda	3056 NE 95th Seattle, WA 98115	362-7402
CAMPBELL, Mark R.	16030 SE 24th Bellevue, WA 98008	746-3471	KUNZ, David	12552 - 19th Ave. NE Seattle, WA 98125	329-2337
CAPELLE, Lynne R.	8304 - 34th NE Seattle, WA 98115		LANTZ, J.A. & BAKER, Megan	1319 E Union, #111 Seattle, WA 98122	827-0632
CATHA, Bruce & GARRETT, Marcia	6542 Ravenna Ave. NE, #4 Seattle, WA 98115	527-1463	LINNEE-MATTHEWS, Seija	5535 Lake Washington Blvd. NE Kirkland, WA 98033	783-2257
CHASE, Marleen	2037 Boylston Ave. E Seattle, WA 98102	328-1636	LOTZGESELL, Marie	8650 - 21st Ave. NW Seattle, WA 98117	932-5857
CHOY, Eugene & Young W.	16505 - 146th Ave. SE Renton, WA 98058	235-4377	MISINONILE, Michael	3432 - 37th Ave. SW Seattle, WA 98126	633-1636
COWEN, John H. & FREY, Jo	4256 - 132nd NE Bellevue, WA 98005	883-0693	MYRABO, Ken	3626 1/2 Woodland Park N Seattle, WA 98103	722-3857
DEUTSCH, Thomas P.	P.O. Box 12885 Seattle, WA 98111	340-8025	NELSON, Katherine & Nicholas	3809 Cascadia Ave. S Seattle, WA 98118	367-8567
DIGIOVANNI, Marsi & Magda	17015 - 53rd Ave. S Seattle, WA 98188	243-0595	NICHOLS, Laurie	14315 Corliss Ave. N Seattle, WA 98133	329-2821
FLEMING, Ann F.	Box 976 North Bend, WA 98045	888-2521	NITO, Yuichi	2821 - 14th S Seattle, WA 98144	243-6433
FRANK, Shirley	22229 - 100th Ave. W Edmonds, WA 98020	776-5991	ONG, Manuel & Noli	15135 - 62nd Ave. S Tukwila, WA 98188	282-2358
FREDIN, Eva	13419 - 117th Ave. NE Kirkland, WA 98034	821-7961	PATRICK, Guy	1953 Tenth Ave. W, #2 Seattle, WA 98119	723-3267
FULLER, Julie & Bill	919 NE 71st Seattle, WA 98115	527-7052	PAYZER, Stan & Maria	4702 - 50th Ave. S Seattle, WA 98118	932-1729
			POST, Ron & PERLMUTTER, Jodi	4012 - 38th SW Seattle, WA 98126	242-1664
			QUINN, Lee	2453 SW 172nd St. Seattle, WA 98166	523-1241

RICHARDSON, Byron & Estelle	1900 Westlake Ave. N Seattle, WA 98109	244-5542	YARGES, Richard & Nancy	7238 - 39th SW Seattle, WA 98136	937-4632
RIGGINS, Linda	13511 - 91st Place NE Kirkland, WA 98034	823-0177	ZAPATA, Dennis	1200 Boylston, #303 Seattle, WA 98101	322-4606
RISTE, Janet L.	9100 Roosevelt Way NE, #206 Seattle, WA 98115	524-6840			
RUMAGE, Scott & JENSVOLD, Karin	6338 Hampton Road S Seattle, WA 98118	725-5344			
RUSSELL, Frank	11823 SE 188th Renton, WA 98058	255-5972			
SAMADPOUR, Mansour	5502 - 29th NE, #5 Seattle, WA 98105	522-2941			
SCHOENKNECHT, Fritz & JoAnna	18425 - 17th NW Seattle, WA 98177	542-1793			
SCHULMAN, Jane	14336 Edgewater Lane NE Seattle, WA 98125	361-5135			
SCOTT, Dana	P.O. Box 2154 Fridav Harbor, WA 98250				
SCRANTON, Richard B.	16321 NE 160th Woodinville, WA 98072	483-2865			
SHANNON, Tom A.	14314 - 32nd Ave. NE, #202 Seattle, WA 98125	365-0342			
SIBUM, Ginnie	6860 S Maxwellton Road Clinton, WA 98236	321-1063			
STRAKO, Tim & Deborah	14448 - 59th Ave. S, #35 Tukwila, WA 98168	246-7862			
STRAND, Candyce	520 Boylston E, #1 Seattle, WA 98102	325-5135			
SZABO, Rose	2909 NW 85th Seattle, WA 98117	789-8758			
TORIAN, Bruce & CONNELLY, Roberta	5916 - 59th Ave. NE Seattle, WA 98105	524-7399			
TRUDELL, Steve & GRAUPMAN, Sally	10612 NE 55th St. Kirkland, WA 98033				
UELANO, Shelley	15912 - 174th Ave. NE Woodinville, WA 98072	483-5074			
VINCENZIO, Romulo B.	1824 NE 170th St. Seattle, WA 98155	362-2671			
Von-HERMANN, Nora	10745 Densmore Ave. N Seattle, WA 98133	367-2921			
WALSH, Becky	13714 Corliss N Seattle, WA 98133	365-9498			
WANG, Ching-Chuan & Sau-Chi	12610 NE 111th Place Kirkland, WA 98033	827-3449			
WEINGARTEN, Werner	4001 - 55th NE Seattle, WA 98105	622-4944			
WESTER, Dennis W.	4529 - 131st St. SW Lynnwood, WA 98037	348-4754			
WINSTON, Charles H.	11841 - 16th Ave. S Seattle, WA 98168	244-7362			
WOODSON, Emily M.	3442 - 74th Ave. SE Mercer Island, WA 98040	232-0222			

ADDITIONAL NEW MEMBERS

BAUER, Rod	2509 E Calhoun Seattle, WA 98112	home 325-9552 bus 454-8086
CARDEIRO, Dave	Star Route Box 115 Enumclaw, WA 98022	
CATHA, Bruce & GARRETT, Marcia	6542 Ravenna Avenue NE, #4 Seattle, WA 98115	home 527-1463
EDWARDS, Sue & ERNEST, Jim	2529 NW 191st Seattle, WA 98177	home 342-4820
GRANGER, Teri	1333 Overhulse NW Olympia, WA 98502	home 866-1046
NELSON, Katherine & Nicholas	3809 Cascadia Avenue S Seattle, WA 98118	home 722-3857



# Puget Sound Mycological Society

November 17, 1987

Dear Member:

Last December, your Board voted to enter into an agreement with the University of Washington to pledge a contribution of \$25,000 in exchange for a permanent office (25 years) for PSMS at the Center for Urban Horticulture. The pledge is due June 30, 1989.

The cost per member comes out to roughly \$50. In order to have a chance at fulfilling the pledge, we need you to vote on the matter with your pocketbooks, yes or no. We will not get there with bake sales, car washes or raffles. Some thirty of our members spent the better part of a day working at the Bon Marche inventory, netting \$263 for the building fund. The money is much appreciated, but it comes to about \$8.75 per head, and doesn't account for the gas or parking. If we can get roughly an 80% yes vote, with your pledges, we can look forward to success.

The Board intends to hold contributions in a reserve fund until the due date, and can return contributions if we fail to complete the campaign. If you want a tax deduction currently, your contribution can become a part of the \$300 a month we are paying for the office, and the University will acknowledge your donation. In that case, your contribution will not be in the escrow account, and cannot be returned. You may also want delay payment until 1988 or 1989, which you may indicate below. We will answer any other questions at the membership meeting in January, and would like to receive all pledges by January 31.

To: The PSMS Board of Trustees  
Center for Urban Horticulture: GF-15  
University of Washington  
Seattle, WA 98195

Date: \_\_\_\_\_

I/We \_\_\_\_\_ Phone \_\_\_\_\_

Address \_\_\_\_\_ Zip \_\_\_\_\_

Hereby Pledge \_\_\_\_\_ to the Building Fund. (\$50 is a full share, but larger contributions will be appreciated and are encouraged).

- Payment Enclosed       Payment deferred to \_\_\_\_\_, 19\_\_
- Payment in \_\_\_\_\_ installments of \$ \_\_\_\_\_ per \_\_\_\_\_ starting \_\_\_\_\_, 19\_\_
- Please acknowledge for IRS deduction
- Please do not publish my name as a donor.

If you do not reach the goal by June 1989

- Please return my contribution
- Keep it in the Building Fund.