

**PACIFIC  
NORTHWEST  
CHAPTER**



***NEWSLETTER***

**FALL 1996**

President: Wes Gannaway 1604 Brookwood Dr., Ferndale, Wa 98248 360-384-4209

Vice President: Sharleen Harvey 2309 SW 1st Ave, #2142, Portland, Or 97201-5009  
503-248-4194

Treasurer: Cheryl Burchim 3305 281st, Ocean Park, Wa 98640 360-665-4379

Secretary: Karen Hinderman 6217 Tyler Lane, Ferndale, Wa 98248 360-380-2035

**President's Message:**

First, I would like to thank all of the people involved with the symposium, including the organizers and helpers, and the members that attended. It seemed to me that everyone had a good time and enjoyed themselves. A few bugs cropped up due to the new location but otherwise it went well. Again, I must thank Cheryl for her fine effort in acquiring the Days Inn on such short notice. We possibly would have had to move to an undesirable location or cancel the symposium. The best case went to Doug Toland for his Green Monster Mine Epidotes, the best self collected went to Mark Mauthner for his Rock Candy Barites, and Ray Hill got the best ugly. Ray Lasmanis and Cheryl Burchim shared the Nobel Witt Award for their many years of contributions to the Northwest Chapter.

It's time for all members to get involved in the selection of a new location for our symposium. Please contact one of the committee members to let them know what your thoughts are concerning a locality. Items of discussion will include distances of travel for members, cost of the facility to the members, and the type of facility.

The first snow is falling in the mountains and the snowbirds are preparing for their annual migrations. Just above my desk is a picture of the town of Monte Cristo circa 1910, where I had planned to go collecting this summer. There is also a picture of the new summit of Mt. St. Helens that I was going to climb early this fall. It seems that I have been overwhelmed by time again. I will spend the winter going through my collection and making plans with even greater determination for my future trips and defeating this time thing. I wonder if there are any people that don't have a problem with time.

**Trips and Shows:**

Be sure to mark your calender for 1997 for the annual Washington Pass trip which is always on the second weekend in August. This will be August 8, 9, and 10. Also mark the fourth weekend in September for the Symposium which will be the 26th, 27th, and 28th. The Days Inn in Tacoma was again selected for the 1997 Symposium.

The next meeting will be held at the Environmental Studies Hall at WWU in Bellingham on January the 18th at 1 PM. Items for discussion will be whether we wish to pursue a student rate for the symposium, and of course the annual symposium committee discussion, which I am sure will be lively. After the meeting George Mustoe, the staff geologist, will demonstrate the use of the lab equipment used for mineral identification.

#### The Symposium Committee:

A new committee was selected during the business meeting at the Symposium. The members are Wes Gannaway, Sharleen Harvey, Bob Meyer, Arlene Handley, Jon Gladwell, Rudy Tschernich, and John Cornish.

The committee's goal is to determine an acceptable location for our annual symposium. A lively discussion took place at the business meeting which highlighted the concern for a resolution to the location problem. I would like to assemble as many of the committee members during the next business meeting so that we can compile a list of criteria and some guidelines. If you cannot make the next meeting, please call Wes Gannaway or write down your thoughts and concerns and send it to me.

#### The 1997 Symposium:

Only 10 months until the next symposium. We need to decide on a theme for 1997. Here is a list of the past symposiums and themes. Please have a suggestion for the next meeting or contact one of the officers with your choice.

- 1996 Northwest localities
- 1995 Classic mineral localities
- 1994 Calcite
- 1993 Pyrite and friends
- 1992 Accessible mineral localities
- 1991 Tourmaline group
- 1990 Ore minerals
- 1989 Zeolites -fall
- 1989 Minerals of the inland NW -spring
- 1988 Carbonates
- 1987 Gem Pegmatites
- 1986 Minerals of Mexico
- 1985 Classic mineral localities
- 1984 Magic of mineralogy
- 1983 Lead minerals
- 1982 Pseudomorphs, twinning, and oddities
- 1981 Silicates
- 1980 Elements
- 1979 Sulfides and sulfosalts
- 1978 Quartz
- 1977 Mineralization in the oxidized zone
- 1976 Pegmatite minerals
- 1975 Zeolites

## 1996 FM SYMPOSIUM DISPLAYS

described by  
Raymond Lasmanis

Under the guidance of Mike Groben, this year we increased the number of display cases to 20 plus one case holding best self-collected material and contrasting most ugly specimens. Several of the cases contained world class crystal groups that would be the envy of most major museums.

The first case was by Rod Tyson with specimens to go with his lecture on collecting at Emerald Lake, Yukon Ter., Canada. Collecting started there in 1981 and by 1992 was carried out in earnest using repelling and other mountain climbing techniques. Twenty four mineral species have been identified to date including aquamarine found in 1992. From the "Triangle Vug" there were smoky quartz xls and scepter xls up to 10" tall with the head measuring 4"x 5"; Japan-law twins; during 1996, 30 pails of quartz xls were collected and many of them were cut into attractive eggs, spheres and faceted stones (some of which were in the case). From a 15 foot, pocket Rod displayed 1"x 1 1/2"x 2" green apatite xls and faceted stones. Collected in 1994, there was a 2" x 2 1/2" scheelite xl (#950821) and faceted scheelite! The case also contained dark green 1 1/2" fluorite octahedrons; a 1"x 1 1/4" bismuthinite xl(?); very large shiny black schorl tourmaline sprays up to 8"x 12"; schorl and anatase on quartz; siderite (alt. to goethite) xls. with rutile; 1 1/4" rounded calcite xls. on orthoclase xls; axinite and even the zeolite chabazite.

John Lindell's case was full of the best the Pacific Northwest has to offer. Self-collected between 1979 and the present, there were 27 specimens on display. From King County, WA he showed the following: 1 1/2" realgar xl. on 3 1/2"x 6" matrix, Okay mine, Green River (#1189, coll. 1/6/85); a exceptional 5" Japan law quartz xl., Bald Hornet claim, Mt. Si (#615, coll. 7/15/89); from Denny Mountain a 3/4"x 3 1/2" "strawberry" quartz xl. (#111, coll. 7/23/81), a spectacular 3"x 5" scepter quartz xl. perched on thin 1" to 2" slender quartz xls. with specularite (#241, coll. 7/19/81), and a brightly colored 1"x 2 1/2" "strawberry" xl. (#28, coll. 11/8/80); from Green Ridge, a 3 1/2" Japan law quartz xl. (#31, coll. 5/11/80), clear, light colored very lustrous 1" to 3" amethyst xls in a 2 1/2"x 4" group (#431, coll. 5/29/83), and a 2 1/2"x 3" amethyst scepter head on a 5" quartz xl. (#355, coll. 7/5/82); from the Pedro breccia pipe a 1 1/2" chalcopyrite sphenoid xl. on quartz xls. (#440, coll. 6/25/83); from the Big Chief, a 2 1/2" clear scepter quartz xl. (#1150, coll. 5/29/89); and, from the Spruce claim, a 2"x 2 1/2" group of quartz, pyrite, calcite, and ankerite xls. (#659, coll. 9/23/84) and a 3" pyritohedral pyrite xl. on a base of 1" to 2" quartz xls. (#552, coll. 10/9/83). From Vesper Peak, Snohomish County, WA, John had a 2"x 3" group of 1/2" to 3/4" grossular xls. (#256, coll. 10/5/80) and a second attractive garnet group (#359, coll. 7/25/82). The S. Fork of the Toutle River locality, Cowlitz Co., WA, was represented by a beautiful spray of 1" heulandite xls. (#747, coll. 11/3/85), a 6"x 10" specimen with 1/2" to 3" scolecite sprays (#1073, coll. 8/20/90), and lovely 2 1/2" white stilbite xls. on a 3 1/2"x 5" matrix (#1033, coll. 6/24/89). From Washington Pass, Okanogan County, WA, John had a 1" zektzerite xl. (#436, coll. 6/4/83) and a single terminated lustrous 3/4"x 3" arfvedsonite xl. (#181, coll. 10/6/79). The case also contained 2" pearly heulandite xl. from Pickreal Cr., near Dallas, OR. (#925, coll. 11/28/86); and from Edna Lake, Sawtooth Mtns., ID, three 8" to 10" smoky quartz xls. (#744-746, coll. 11/3/85, 8/27/85/ & 8/27/85) and a 1/2"x 3" terminated aquamarine xl. (#733, coll. 8/26/85). From the Rock Candy mine, near Grand Forks, B.C. he had 1" to 2" green fluorite octahedrons on 6"x 12" matrix (#2109, coll. 5/7/95), 1" yellowish barite xls. in a 2 1/2"x 3" group (#960, coll. 6/20/87), and, a 12"x 16" group of 1/2" to " cubic purple fluorite xls. on which are perched 1" to 3" barite xls. (#1180, coll. 7/7/85).

A case displayed years of association with the Green Monster Mountain, Prince of Wales Island, Alaska, epidote locality by Doug Toland and Tom Hanna. Doug, as a member of an expedition sponsored by the Smithsonian Institute, found his first epidote on this mountain in 1967. The specimens displayed were selected with unusual interest or aesthetic qualities. The centerpiece was the finest and most valuable crystal group that either collector has found on the claims. The specimen, weighing 50 lbs., was collected in 1993, measures 14"x 18", and is covered by very lustrous 1/2" to 3" epidote xls. and occasional clear 1/2" to 1 1/2" quartz xls. Set on this crystallized matrix are three very large lustrous 2 1/2"x 5" epidote xls. and a etched, white, 3 1/2" tall scalenohedral doubly terminated (on it's side) calcite xl. and a second 3 1/2" tall scalenohedral calcite xl.; a true World class specimen! The group that appealed to me was Doug's doubly terminated 4 1/2" long single epidote xl. laying cross-wise on a 3"x 6" perch of 1/2" to 1" epidote xls. and smaller quartz xls. This group was

collected in 1987. A 3"x 6" epidote xl. collected in 1996 seems to show dissolution of epidote and recrystallization of small parallel xls. over the entire surface (at right angles to the long axis of the original xl.). The case also contained both single and matrix specimens of quartz as clear xls.; doubly terminated 1 1/2"x 3 1/2" reddish xls.; up to 3" xls. with hematite inclusions; phantom xls.; and, Japan law twins (clear and green with byssolite inclusions). Also, in the case there was a 2 1/2"x 5" specimen with hexagonal 3/4" xanthophyllite (clintonite) xls. In total, there were 42 pieces on display. Thank you Doug for sharing those treasures with us. For additional information, see the *Mineralogical Record*, V.8, p.4.

Rudy W. Tschernich selected 30 of his best stilbites from around the World. From the Northwest, the following were represented: Rd. 4600, Signal Peak, Cowlitz Co., WA, up to 1" xls. lining a 10" cavity (#6029) and individual 1/2" to 1 1/4" xls. on matrix (#0396); from Poison Creek, Skamania Co., WA, salmon colored group with 2 1/2" xls. (#0344) and a 8"x 12" group of shiny salmon colored 1" to 3" xls. (#5791); a pearly white 1 1/2"x 3" xl. on stilbite (#0141) from 5700 Road, Trouble Cr., Cowlitz Co., WA (otherwise known as the S. Fork, Toutle River locality); pink drusy xls. covering 3 1/2"x 5" matrix of mordenite, Woodland, Clark Co., WA (#0194); 1" xls. on 5"x 6" matrix, Shine quarry, Jefferson Co., WA (#1113); and from the Skookumchuck Dam, Thurston Co., WA, a very nice 3 1/2" spray of xls. (#0234), a white 3" bowtie on 4"x 7" matrix with smaller stilbites and mordenite (#373), and two bowtie xls. on matrix (#0355). From the Calapooya River, Dollar, Linn Co., OR, he had three specimens: shiny rounded 3" bowtie xls. on 5"x 12" matrix from a 10 ft. mud-filled pocket (#410), white terminated 3" xls. on 4"x 8" matrix from a 12 ft. pocket (#407), and the spectacular 4" wide, 20" long rod-like specimen coated on all sides by 1" stilbite xls (#401). From Ritter Hot Springs, Grant Co., OR, Rudy had shiny, semi-botryoidal, pale tan stilbite, var. stellerite (#0231). Lastly, from Rocky Pass beach, SE Alaska there were doubly terminated xls. up to 4" long (#0470) and stalactitic white drusy quartz masses, 10" long covered by up to 1" platy stilbite xls. (#0511).

Doug Merson displayed attractively presented thumbnail crystal groups from around the World. There were 35 specimens in all. From the Northwest there were: three specimens from the Neer Rd. pit, Goble, Columbia Co., OR, with thomsonite, tschernichite, and boggsite; from the Spruce claim, King Co., WA, a scepter quartz xl. and ankerite xls. on a 1" quartz xl.; and, a 3/8" zektzerite xl. on matrix from Washington Pass, Okanogan Co., WA.

Ray Lasmanis and Bart Cannon collaborated on a unique display: secondary "minerals" from slags in the intertidal zone at the Tacoma Smelter site, WA. The case contained artifacts, examples of secondary "minerals", and SEM photographs by Cannon Microprobe. Crystals of cuprite, plumbojarosite, phosgenite, lead sulphate, and lead chlor arsenate, amongst others, were illustrated by photographs with accompanying specimens. The case presented preliminary results of a study financed by Washington State Dept. of Natural Resources.

John Gladwell also put in a unique case. It was full of artificially grown xls. on rock matrix through the use of various colorful chemical compounds. Crystals in the cubic, tetragonal, hexagonal, monoclinic, and triclinic systems could be viewed. Lee Riechel had a demonstration of constructing a mineral catalogue using home level PC hardware and software in combination with a camcorder and a video frame capture device- in the case as an example, there was a nice 4" pyritohedral pyrite xl. from the Spruce claim, King Co., WA.

To go along with his presentation, Mark Mauthner displayed minerals from the precious metal Engineer mine in B.C.: 3" botryoidal banded mass of arsenic and stibarsen (#MHFM706); 1"x 2" native antimony (#MHFM1360), from the 100 Level dump, auriferous silver in quartz with roscoelite, a vanadium mica (#MHFM714, coll. 1993); arsenopyrite with fuzzy overgrowths of löllingite on drusy quartz (#MHFM785); auriferous silver with roscoelite (#MHFM1295); herringbone electrum in 5"x 6" white quartz (#MHFM1617); bladed 1" calcite xl. on drusy quartz (#MHFM691); pseudomorph of quartz after quartz after 1 1/2"x 2" rhombohedral calcite xl. (#MHFM691); and, from a private collection, rich masses of electrum plates with trigonal growth hillocks in 2"x 4" porous quartz. Other B.C. specimens on display were: 2" botryoidal arsenic mass, Misty Nie claims, northern BC (#MHFM1590); a 2"x 4" mass of native arsenic, Criss Creek near Savona (#1609); small gold xls. on crystalline 1" quartz, White Star mine, Zeballos (#1617); a 1/4" gold xl., Mosquito Cr. placer deposit (#MHFM1208); platinum grains and small nuggets, Tulameen and Similkameen rivers, a Dana loc.; bismuth and hedleyite on 1 1/2"x 2" quartz matrix (#MHFM1752); native silver wires, Highland Bell mine, Beaverdell

(MHFM 229 & 1768); and, the showiest specimen in the case, a thick mass of coarsely crystalline gold on 2 1/2"x 4 1/2" matrix from the Pioneer mine, Bralorne, BC.

John and Gloria Cornish labeled their case "Collectible Montana". The case contained the following: rough parasite xls., Snowbird mine, Mineral Co.; lovely amethyst scepter xls., Crystal Park, Beaverhead Co.; slightly smoky quartz scepter heads up to 3 1/2", Sally Ann claim, near Elliston; black to smoky quartz xls. up to 4" and three very nice 1 1/2" to 2 1/2" compound albino feldspar twins, Lolo Pass area; from the Boulder batholith near Butte, smoky quartz xls. on feldspar xls. with epidote and parallel amethyst overgrowths on earlier quartz xls. up to 5" in length; and, a collection of more than ten doubly terminated, honey colored, scalenohedral calcite xls. including a large matrix specimen, from the Red Cliff campground, near Bozeman, Gallatin County.

Wesley L. Gannaway prepared two cases. The first one contained 17 specimens from 3" to 12" in size, representing common mineral species of the Santa Eulalia mines, Chihuahua, Mexico. My favorite was a large branching group of calcite/aragonite. The second case featured 18 calcite specimens, mostly from the Northwest. They were: rough 1/2" xls. on 2 1/2"x 3" matrix, Pride of the Mountains mine, Monte Cristo dist., Snohomish Co., WA; 3/4" xls. on zeolites, Shine quarry, Jefferson Co., WA; post mining stalactite, Excelsior mine, Mt. Baker dist., Whatcom Co., WA; calcite in quartz druse lined vug, Walker Valley, Skagit Co., WA; honey colored, single 2" rhombohedron covered by analcime on matrix, Weye. Sec. 23 quarry, Lewis Co., WA; small scalenohedral xls., Nicolai Rd. quarry, Columbia Co., OR; small sprays, the Dalles, OR; 1 1/2" tan rhombohedral xl. in cavity, Sheridan quarry, Polk Co., OR; small scalenohedral xls., Oxbow Dam area, Baker Co., OR; tiny xls. in vug, Mill Creek, Polk Co., OR; and, grey 1/2" rhombohedral xls. on matrix, Ochoco Summit, Wheeler Co., OR. The case also had 1/2" xls. on zeolites from Horseshoe Bend, Boise Co., ID and grey 2" scalenohedral xl. from Texada Island, BC.

Robert J. Smith showed 20 large specimens from World wide localities. The most attractive was botryoidal, pink rhodochrosite with pyrite xls. on sphalerite from the Oppu mine, Japan. Bob also had a 4"x 4" specimen with 1" epidote xls. from Green Monster Mtn., Prince of Wales Island, Alaska. Arlene Handley had a case with photographs of her Little North Fork garnet mine in Idaho. The case had a rounded, highly fractured 7" and 11" mass of garnet with a rough xl. outline. Some of the fractured pieces are gemmy. A few of the very large garnet masses, in their core, have a oddly shaped garnet xl. with sharp complex faces.

Sharleen Harvey had the most specimens in one case, 62 in all. Neatly labeled and mounted in perky boxes, the specimens represent Northwest zeolite localities and their associated minerals. In the case there was from Oregon the following: calcite xls. on chabazite, N. Fork, John Day River, Grant Co.; thomsonite with stilbite, chabazite, heulandite, and calcite, Neer Rd., Goble; natrolite from Monument; mesolite, chabazite and apophyllite from Spray; a very nice group of thin mesolite needles on thomsonite and with tiny calcite xls, Drain; levyne from Beech Creek quarry, Grant Co.; stilbite and calcite, Cobury Hills, Lane Co.; thirteen specimens of natrolite and calcite xls. on natrolite from the Old Springfield Butte quarry, eight specimens of twinned chabazite (var. phacolite), New Springfield quarry, and five specimens of chabazite, thomsonite, heulandite, mesolite, and native copper, New Springfield quarry, all in Lane County. From Washington state there was stilbite (epidismine) on heulandite from Camas and two sets of slightly amethystine quartz xls. from Stevenson. The case also contained ferrierite from Kamloops Lake, B.C.

Lew Landers had in his case quartz crystals related to his lecture from two Washington localities. In the center there was an assortment of clear xls., scepters, and a very nice Japan law twin, all from the Pedro breccia pipe (coll. 1996). To the right he had a big and dramatic 12"x 24" Denny specimen. Triangular shaped, it is covered by 1/2" thick and up to 2" long "strawberry" quartz xls. and at the upper broad end there are five very large 4" to 5" long and 3" wide scepter xls. Even though the specimen has not been cleaned, it is the most spectacular Denny Mountain piece I have seen. Lew informed me that it was collected in 1971. In contrast to the Washington specimens, the case also contained a beautiful 14"x 24" specimen covered by 3" to 6" clear quartz xls. from the West Crystal claim of Arkansas.

Lanny R. Ream had a case titled "A Few Minerals from Idaho". He could have added to the title "from unusual localities". The case contained velvety malachite balls on limonite from the Empire mine, Shoshone Co.; light

purple fluorite xls. from Phi Kappa mine and Anderson mine, Myers Cove, Lemhi Co., and Keystone Mtn., Challis; white, 1 1/4" fluorite (?) xls., M&M mine, Myers Cove, Lemhi Co.; up to 2" barite xls., Willow Creek, Custer Co.; small, honey colored calcite xls, Hwy. 95 near Whitebird; 3/8" apophyllite xls. on matrix, Hwy. 95, near Pinehurst, Adams Co.; slightly pink, 1/2" to 1" stilbite xls. on stalactitic quartz, Lime Creek, Custer Co.; large group of 1" to 3" calcite xls, Malm Gulch, Custer Co.; a 1" single rhombohedral calcite xl. on matrix, McKenzie Creek; " black lustrous quartz xls. on white feldspar and very nice 1"x 2 1/2" microcline Manebach twins, Bighorn Crags, Lemhi Co.; shiny " andradite xls, Peacock mine, Seven Devils dist., Adams Co.; 1 1/2" staurolite cross twin, Bathub Mtn., Shoshone Co.; bright green 1/2" fluorite octahedrons on drusy quartz, Little Fall Creek, Custer Co.; and, very thin bladed white calcite xls., Road Creek, Custer Co.

Bart Cannon's case contained a variety of self collected specimens from Northwest locations including localities that are not well known to collectors. From Washington state there was: smoky quartz on coarse microcline from Aenas, Okanogan Co.; dark brown sphalerite xls. and complex bournonite xls. from Coney Basin mine, near Skykomish; 1/2" dark brown allanite xls. on tourmaline from Calligan Lake, near North Bend, King Co.; dark to olive green manganoan elbaite with wine colored terminations from Sherman Pass, Ferry Co.; large divergent sprays of satiny white quartz xls. from a new locality dubbed Onan's Toy Box; and, specimens of grossular, hedenbergite, and axinite from Vesper Peak, Snohomish Co. From Idaho Bart had apple green leadhillite xls, Bayhorse, and from Montana, blue octahedral spinel xls., Crazy Sphinx claim, near Helena and yellowish mottramite xls. from Radersberg.

Wayne Sorensen assembled in one case some of the finest pyromorphite xls. to come out of the Bunker Hill mine in Idaho. The specimens, sized 2 1/2" to 8" wide, are covered by stout, hopped 1" xls. ranging in color from yellowish green to those with a bright orange drusy overgrowth giving the pyromorphite xls. a rounded appearance. There was one very unique specimen of grey, very lustrous, acicular xls. on a black 3" matrix. It is always a pleasure to view the very fine material that Wayne brings to our symposium.

Harvey Gordon showed three of his larger specimens. There was a calcite xl. group with flattened, grey, scalenohedral 14" xl. on a matrix of smaller calcite xls. and with marcasite from the Brushy Creek mine, Reynolds Co., MO. On the right there was a 10"x 14" specimen of natrolite containing abundant lustrous 1" to 1 1/2" neptunite xls. from San Benito, CA. and on the left, 1" to 1 1/2" deep orange scheelite xls. and smaller cassiterite xls. on a 8"x 12" matrix with large (up to 4"x 7") quartz xls. from Tenkergin, Chukotka, Russia.

In the best collected competition case there were two outstanding specimens. From the Weye. Sec. 23 pit, Doty Hills, Lewis Co. a 4"x 4"x 5" single frosted pale honey colored single calcite rhombohedron attached to 10"x 13" crystallized calcite matrix, collected by John Cornish and Keith Ikerd from the Valentine's Day pocket, Feb. 1996, and the winner, several 4" honey colored barite xls. on 8"x 15" matrix of fluorite, collected by M. Mauthner at the Rock Candy mine, near Grand Forks, BC.

Last, I want to give special recognition to a display by B.J. DeBoer, age 12, of Carnation, WA. Of all the years I have attended our symposia, I can not recall seeing a junior put in a display. He did a very good job in presenting his collection of 52 specimens with accurate and neatly prepared labels. A wide variety of colorful mineral species were represented in the case. He and his parents are to be commended for participating in the 22nd Annual Mineralogical Symposium.

October 1996 Treasurer's Report:

Previous Balance		5646.88
Deposits	96 Symposium	1089.94
	Dues	410.00
	Interest, 2nd & 3rd quarters	26.46
	Total Deposits	1526.40
Expenses	Adv. postage and printing	120.00
	National Dues	200.00
	Oregon Registration	10.00
	Total Expenses	330.00
New Balance		6843.28
	***	
1996 Symposium Report		
Deposits	T Shirt, Registration, Auctions, etc.	6631.00
Expenses	Advertising	156.00
	Postage	77.00
	Meals & Room Chgs	3669.72
	Case & Table Rental	280.00
	Speaker Travel	533.57
	T Shirts	400.34
	Fliers	116.42
	Member list printing	136.70
	Phone	84.12
	Supplies (badges, etc)	35.89
	Nobel Witt Award	51.30
	Total Expenses	5541.06
Symposium Profit		1089.94

A note from your secretary.

As the holidays approach, please give yourself the gift of a renewed membership. Cost is only \$15.00 and it will save me from hassling you in the new year.

Happy Holidays and a  
Joyous New Year,  
Karen

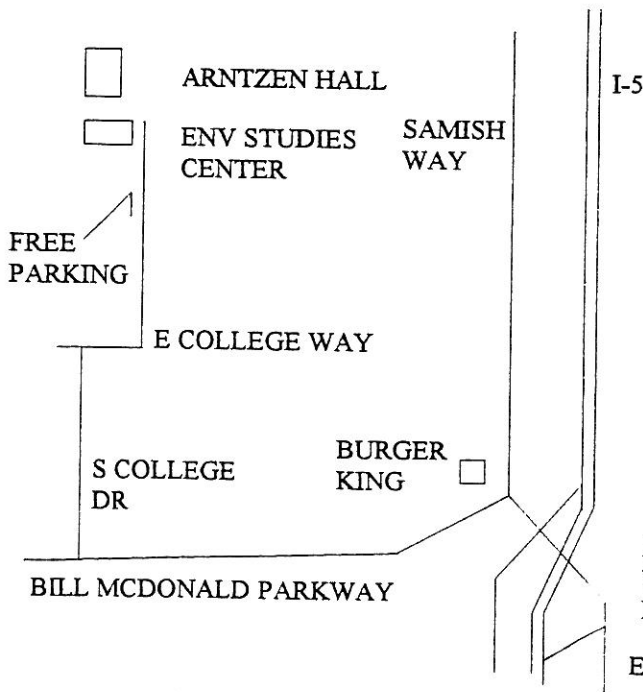


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Karen Hinderman, Secretary  
6217 Tyler Lane  
Ferndale, WA 98248



BOB MEYER  
16239 NE 18TH,  
BELLEVUE, WA 98008



NOT TO SCALE

NORTH

SATURDAY JANUARY 18  
1 PM IN THE ENVIRONMENTAL  
STUDIES CENTER ROOM 223

APROX. 1.5 MILES FROM THE  
FREEWAY TO THE E. S. C.

LOTS OF RESTURANTS ON SAMISH  
WAY. I DO NOT RECOMMEND THE  
DENNY'S !

EXIT 252