

MEETING NEWS---The April meeting of the

Anchorage Chapter will be held on Monday, April 3rd at 6PM in the cafeteria meeting room of the National Bank of Alaska, corner of Northern Lights and C Street. The parking lot is behind the building with access from No. Lts. or C St. Enter the building through the back door off the parking lot, sign in, and take elevator to 2nd floor. Turn left to cafeteria. This meeting will consist of a polluck supper, followed by a guest speaker. PLEASE NOTE THE EARLY HOUR. Program will be at 7:30 P.M. BOARD MEETING---cancelled for this month.

**SPEAKER**---We are once again honored to have as our speaker ANPS Member Dr. David F. Murray, Curator of the Herbarium, University Of Alaska, Fairbanks. His topic will be "Botany of Eastern Siberia and the Soviet Far East".

Dr. Murray has made several trips to the Soviet Union. In 1987, he spent 4 months as an exchange scientist under a program of the National Academy of Sciences. He was again in the Altai and Sayan Mts., but at different localities from those that he visited in 1983. Excellent plant collections were gathered with William A. Weber, Curator at the University of Colorado Museum, Boulder, and colleagues from the Central Siberian Botanical Garden, Novobirsk. Problems related to understanding the origin and evolution of the Alaskan flora were studied at herbaria in Novobirsk, Moscow, and Leningrad. Leningrad is where the first collections from Alaska are housed and it is interesting to note that the first treatment of our flora was by Ledebour in his Flora Rossica published 1842-1853.

This will be an interesting and informative program presented by an excellent speaker. We certainly appreciate Dave's, once again, making time in his busy schedule to bring us another in a series of annual programs. **PLANT FAMILY**---The plant family to be discussed is the Caryophyllaceae or Pink Family, with 11 genera represented in Alaska.

The family contains some of the most beautiful and common flowers in Alaska. Such names as Chickweed, and Sandwort are cursed by those trying to obtain the perfect city lawn, and high in the mountains the tight cushion-like patches of Moss Campion add beauty to the starkness of the rocky environment.

The Pink family includes about 1400 species, mostly annual or perennial herbs widely distributed in northern temperate regions. The stems are often swollen at the nodes and the leaves are oppossite. The flowers are regular and usually bisexual. A calyx and corolla, each composed of 4 or 5 separate parts, are usually present, and the stamens are 8 to 10 in number. The compound ovary is superior. A distinctive feature of the family is that the ovules are attached to a central column arising from the base of the ovary.

MYSTERY PLANT---Fascinating lobed leaves almost suggest those of Maidenhair Ferns. The five coral-red sepals enhance the bright yellow of the flared tips of the five petals. These petals extend to a straight, orange-red spur. Stems may be up to one meter high, bearing 3 to 6 of the nodding, extremely graceful flowers.

Widespread in the Anchorage area, especially in the wet seeps along the Seward Highway on the way south to Girdwood.



WILLOWS---Pussywillows are a pleasant reminder that spring is just around the corner. You may have noticed their furry little buds peeking out as early as last November. Just what is a pussywillow anyway? It's not really a single species of willow. All willows that are old enough to flower produce pussywillows of various shapes, shades of gray and degrees of furriness. If you want to identify willows to species -- good luck. Hulten lists some 56 species in Alaska: there are 809 species in North America and about 300 in the world. Telling willow species apart is difficult because willows often hybridize and characteristics on a single plant may vary greatly. Leaves on a sucker shoot may look entirely different from leaves up high. On some willows, you won't be able to look very high -- many are dwarf shrubs.

No matter how impossible it is to tell what species you have, knowing that you are looking at a willow is easy -- even this time of year. The furry pussies are a dead giveaway, but willows can always be identified by their single bud scale, clasped like a hand against the stem. Both the "fur" and the scale serve to keep the tender bud from dehydrating. Pussywillows are actually catkins, clusters of tiny petaless flowers.

Because they are not showy, many people think willows do not attract pollinators and thatthe wind gets the job done. This is not true -- just visit a willow thicket when the catkins are in full bloom -you'll be buzzed by bumblebees, solitary bees, honeybees and syrphid flies. Willows are dioeceous (separate male and female plants). How then do the insects pollinate them? They visit the male flowers to collect the brightly colored pollen, of course, but i wondered what attracts them to the female willows. Is it nectar; abundant and very sweet smelling and produced on both sexes? For bumblebee queens emerging in the spring, willows are her most important food source, providing energy for her to build her nest and raise her first brood.

Other wildlife relies on the willow, too. Snowshoe hares nip off willow twigs for winter lunches, Yellow Warblers line their nest with willow down from ripe catkins, and what do you suppose Willow Ptarmigan eat? Everybody knows willow is favored moose browse, but did you know that if you chew on a twig you might relieve a headache? Willow (genus Salix) bark contains salicylic acid, the chemical from which aspirin was derived. Willows are flexible and are useful for making baskets. This spring I made a pussywillow wreath.

While you're out gathering pussywillows this spring, watch for insect homes in the willows. Two different species of gnats (tiny flies) create

interesting galls on willows. The beaked willow gall looks like a smooth cocoon on the tips of branches. A far showier home is produced by the Willow Rose gnat. These galls look like beautiful wooden roses or pine cones on the willow. Both gnats have similar life histories. Females lay their eags on growing branch tips in spring. When the larvae hatches they burrow into the willow and their presence causes a gall (like a plant tumor) to grow. The larvae overwinters in its cozu home, pupates in spring and emerges to start the cycle over again. Collect a few willow roses to add to your pussywillows. you can open a gall to see if the larva or pupa is there, or simply enjoy the willow rose's beauty and maybe get to watch the anat hatch! (Editor's note: The willow roses are found only on Salix Barclayi, the Barclay Willow.)

If you visit the willow patch on a warm sunny day this April, you might notice one of the loveliest denizens of willow thickets -- the Mourning Cloak butterfly. This chocolate brown butterfly with yellow edges bordered inwardly by vibrant violet spots overwintered as an adult under leaves or under shaqqy bark. Now the females can be seen laying eggs on willows. When the larvae hatch, theu feed together, side by side on the willow leaves. Later this spring, look for black bristly caterpillars with orange-red spots down their backs. Take one home to raise, if you have an abundant supply of willow nearby. When your caterpillar is big enough, it will form a chrusalis and in late summer you can witness the birth of a Mourning Cloak butterfly -- another beautiful fruit of the willow.

---Submitted by Lynn Catlin, Anchorage Chapter Pres.

## FIELD TRIPS--- THERE'S STILL TIME TO ARRANGE A FIELD TRIP!

ANPS Field trips are fun informal events. Field trip leaders are responsible only for arranging the trip spot and date, knowing how to get to the spot and showing\_up at the assigned time and place. You don't have to know every flower. One of the best trips last summer was lead by a new member to a spot filled with rare Ladyslippers, that everyone thought would be Calypso orchids, which are far more common. If you feel uncomfortable about your knowledge of wildflowers,

(cont'd next page)

arrange for another member who is more knowledgeable to accompany you. If you are interested, call Field Trip Chairperson, Kathy Wright at 694-9450. Weekdays & evenings are good times for nearby trips. The following weekends are also available:

May 6-7, 13-14, 20-21, 27-28 Jun 17-18, 24-25 Jul 15-16, 22-23 Aug 5-6, 19-20, 26-27 Sep 2-3, 9-10

PLANNED TRIPS---the following is a tentative Field Trip list. It is still in the planning stages. More easy trips are needed. More input from members is needed.

## Monday, May 29---Nancy Lake

Saturday, Jun 10---Arctic Valley

Sat-Tues, Jul 1-4---McCarthy, Kennicott

Sat-Sat, Jul 1-8---Gem & Mineral Society Trip. Anchorage to Central, via Eagle Summit

Fri-Sun, Jul 28-30---Backpacking into North Fork, Campbell Creek Valley, Chugach Mts.

Thur, Aug 10---Evening trip along new interpretive trail off Campbell Airfield Road.

Sat, Aug 12---The Ramp, Chugach Mts.

ALASKA NATIVE PLANT SOCIETY Treasurers Report

## Year-To-Date December 31, 1988

Year-To-Date February 28, 1989

Opening Balance, 1/1/88		\$1,340.19	Opening Balance, 1/1/89		<b>\$2,199.1</b> 3
Receipts			Receipts		
Membership Dues Sale of Original Art Sale of First Annual 1985 Prints Sale of Second Annual 1986 Prints Sale of Third Annual 1987 Prints Sale of Fourth Annual 1988 Prints Sale of Decal Stickers Sale of Decal Stickers Sale of Seeds Contributions to Scholarship Fund Contributions to Eklutna Lake Project Unrestricted Contributions Advertising Decayid Decayse Sales Lears	\$ 1,250.00 -0- 287.25 280.00 122.50 241.50 3.75 12.00 113.50 -0- 105.50 65.00 31.00 2.40	;	Membership Dues Sale of First Annual 1985 Prints Sale of Second Annual 1986 Prints Sale of Third Annual 1987 Prints Sale of Fourth Annual 1988 Prints Sale of Decal Stickers Sale of Sew-On Patches Sale of Seeds Contributions, Scholarship Fund Contributions, Unrestricted Advertising Prepaid Postage; Sales Items Rebates from Sanctuary Travel Agency	\$ 315.00 -0- -0- -0- 3.75 -0- -0- -0- -0- -0- -0- -0- -0- -0- -0	
Prepaid Postage; Sales Items Rebates from Sanctuary Travel Agency	376.83				318.75
		2,391.23			
Disbursements			Disbursements		
Newsletter Postage/Printing Business License Fourth Annual 1988 Prints (750) Post Office Box Rent Seed Sale Envelopes Administrative Supplies/Postage One half of Revenue from Sale of Original Art Postage; prepaid on sales items	379.00 25.00 1,434.50 29.00 12.55 152.24 -0- -0-		Newsletter Fostage/Printing Business License Post Office Box Rent Seed Sale Envelopes Administrative Supplies/Postage Postage; prepaid on sales items Monthly Meeting; Refreshments Refund; Overpayment of Membership Dues	-0- 50.00 39.00 -0- -0- 7.43 10.00	( 106.43)
		(2,032.29)			
Closing Balance, 12/31/88		\$2,199.13*	Closing Balance, 2/28/89		<u>\$2,411.45</u> *
* Includes \$75.00 (current as well as prior year	ars) cumulativ	e da	<ul> <li>Includes \$75.00 (current as well as prior year contributions to scholarship fund which are re</li> </ul>		

Includes \$75.00 (current as well as prior years) cumulative contributions to scholarship fund which are restricted funds

There are 152 paid members at 2/28/89

There are 145 paid members at 12/31/88

Respectfully Submitted, 14 Larry Haller, Treasurer

	CENTER FORPLANT CONSERVATIO
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	<u>Now Available</u>
contain involve conserv	ter for Plant Conservation is pleased to announce a 96-page publication ing the first comprehensive list of over 500 professionals and offices d in conserving U.S. native plants, and a summary of state plant ation laws. <u>The 1988 Plant Conservation Resource Book</u> contains the ng information:
0	Federal and state government contacts at the resource level who can provide information about rare and endangered plants, permit procedures, and government programs.
0	Botanists and other contacts in state Heritage Programs, Native Plant Societies, and The Nature Conservancy.
0	Botanists and other contacts in national private organizations working on plant conservation programs.
	Information on rare plant laws and rare and endangered plants by state.
postage	h copy, enclose a check or money order for \$9.00 (\$8.00 plus \$1.00 for ) made out to the <u>Center for Plant Conservation</u> , and send it with the below to:
	Center for Plant Conservation 125 Arborway Jamaica Plain, MA 02130
Please	send copy(copies) of the <u>1988 Plant Conservation Resource Book</u> to:

Address

Phone

Enclosed is a check or money order for \$9.00 payable to the Center for Plant Conservation for each copy of the <u>1988 Plant Conservation Resource</u> <u>Book</u>.

Enclosed is a contribution of \$\_\_\_\_\_\_in support of the Center's efforts to conserve U.S. rare and endangered plants.

Please send information about the Center for Plant Conservation.

9-20-88

Native to Alaska

Macree	. co miabra	김 승규는 그 물을 가 있다.	
1.	Anomono multi	fida	cut leaf Anemone
2.			Pink Pussytoes
3.			Douglas Maple
4.	Aquilega brev	/istyla	Blue Columbine
5.	Armeria marit		THEL
6.			Frigid Arnica
7.			Prarie Sagewort
8.		catus*	
9.			Hybred Birch
10.	Dodecatheon f	rigidum	Frigid Shooting Star
11.	Dodecatheon I	Pulchellum	Shooting Star (tall)
12.	Dodecatheon s	sp	probably the above
13.			Ŝilver Berry
14.	Epilobium lat	ifolium	Dwarf Fireweed
15.			Yellow Dryas
16.			Chocolate Lily
17.	Gentiana prop	oinqua	Four-parted Gentian
18.	Geranium eria	inthum, alba	Wild Geranium, white
19.	Hedysarum Mac	kensii	Wild Sweet Pea
20.	Iris setosa		Wild Iris
21.			Wild Iris, interior
22.	Ledum decumbe	ns	Lab. Tea, Narrow
23.	Oxytropis Sp.		Yellow Oxytrope
24.			Pale Pink Poppy
25.	Polemonium ac	utifolim	Tall Jacobs Ladder
26.			Low Jacobs Ladder
27.			Sitka cross
28.	Digoa Hybrod		White /Fire Hub 2
29.	Ficea nybreu-	mbong	White/Fir Hyb. ? Interior Goldenrod
30.	Sucurinchium		Blue-eyed Grass
31.	Thaligtrum or	11COLATE	Meadow-rue
	INGITCLIUM SF	at SILLOI um	MeadOw-Lue
Non-Na	tive but Hardy		
	<u></u>		
40.	Aster tongole	nsis	
41.	Aquilega Sp	. ــــــ ـــ مانتر ــ مرتب مرجه	Small vellow flowers
42.	Betula fontin	alis	그는 그 옷을 잘 많아야 한 것을 가 많이 물었다. 것이 같이 많이 많이 많이 했다.
43.	Clematis colu	mbianum	Small blue flowers
44.	Clematis tang	uitica	Small Yellow Flowers
45.	Hieracium umb	ellata	
46.	Iris Sp	اسربنا بدحاب بديد بها بناجر سائبراينا بناغد	Japaneese Iris
47.	Primula auric	ula	Yellow Primrose
48.	Pulsatilla Su	lfureae	Yellow Pasque Flower
49.	Pulsatilla Vu	lgaris, Rosea	Rose Pásque Flower
50.	Rhododendron	Brachycarpun	
1988 SE	EDS 20¢ P	kg.	
		요즘은 것같이 많다.	
These a	re left overs	from last year	that have been tested
and will	l cerminate	They may have b	een overlooked because
		iar with the spe	
peopre	were not rumri	Tur with the SP	
60.	Arnica frigida	Good garden	specimen, lg. yellow daisy-
	innica migiaa		B to 10 inches.
61.	Campanula rotu		s easy from seedup
	Jumpunutu 10cu	to 12 inches	s cuty right been up
62.	Draha kamehati		garden plant, about 5"
	JIADA KAMCHALI		with sm. white flowers.
63.	Frigoron humil		whitish daisy type flowers
			erup to 12 " makes a
04. 1	Almulus gullat	arrot of loav	es and flowers, blooms
	그는 문화가 이상한		
			nmer, will grow anywhere
<u> </u>	Detert 11	except overly o	
			garden plant, yellow,
66.	runella vulga		sh to magenta spikes,
	_	groundcover, p	referrably dry.
67.	saussurea alpi		to Alaska. lavender thistle-
	그는 말씀 문양을	type flowers	计计算机 计逻辑分析 建铁铁石油 的过去式语言
68.	Fripleurosperm	um phaeocephalu	nWild Arctic Camomile
			al western Ak. This is
			itenative daisy with finely
1997 - 1997 -			ery tough, will grow
	de la destada en	as a specimer 1	up to 12"7, or between
			s, low as a ground cover.
		Tropper a promet	, ton up a ground cover.

Botanical names:

Due to positive feedback on my brief commentary on botanical names, here are some more. This group of names relate to directions--north, south, east, west.

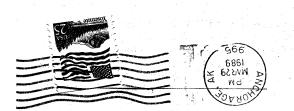
North/Northern: aquilonius, borealis, septentrionalis

South/Southern: australis, austrinus, meridionalis ("australis" in addition to meaning southern, also indicates the species is from the southern hemisphere)

East/Eastern: orientalis

west/western: occidentalis

Keep in mind the botanical name is made of two parts a generic name (genus) which is a substantive (or adjective used as such) and a specific epithet which is an adjective. Names of genera are always capitolized; specific epithets are written in lower case. Together the genus and specific **ep**ithet are a species name.



Alaska Wative Plant Society post Office Box 141613 .achorage, Alaska 99514