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Bulletin of The American Fern Society

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Annual Meeting and Foray

The annual meeting of the American Fern Society will be held this year in conjunction with other biological societies (AIBS meetings) at the University of North Dakota in Grand Forks, ND, August 7-11.

The annual fern foray, held each year just before the annual meeting, will take place August 5-7 at Itasca State Park, Clearwater County, Minnesota. (The site of the AIBS meetings, Grand Forks, North Dakota, is in a prairie region, which is poor in ferns.) The Lake Itasca area is rich in ferns with boreal forest, deciduous forest, and prairie all well-represented. Numerous lakes, ponds, bogs, and streams provide additional habitat diversity. The ferm species here are typical of northeastern North Botrychium, Equisetum, and Lycopodium are especially well-represented.

For additional foray information and reservations, contact Dr. Tim Reeves, Division of Science & Math, University of Minnesota, Morris, Minnesota. Reservations should be made by July 25, 1983.



FERN FINDER, by Anne C. Hallowell and Barbara G. Hallowell, Nature Study Guild (Box 972, Berkeley, CA 94701), 1981; 64 pages; \$1.50. This pocket-sized (4x6"), softcovered book is one of the most delightful fern identification books I have seen - delightful in that it is concise, well-illustrated, and quite accurate. After an initial 8 pages of illustrating important characters, the remainder of the book is essentially a highly illustrated key to the species of ferns of northeastern and central North America. The key is so self-explanatory and so well-illustrated that the usual agonies of using keys are happily lacking. The reader is carefully led along with each character figured along the way, and finally each species has its frond drawing, habitat and dimensions, and range map.

The fern allies are not covered, but the fern species coverage is nearly complete (lacking only Asplenium septentrionale and Cystopteris protrusa and the Marsilea and Azolla species names are not mentioned). The terminology is easy to understand, and that together with the illustrations make identification fairly certain. Some difficulty may be encountered in Dryopteris (to no one's surprise) in that the most useful character for some species, the presence or absence of glands, is not used. This is a relatively small matter, though, since most people have difficulty seeing the glands anyway. The book is highly recommended.

Eth Williams Growing Tips /for Horticulturists

YOUNG HARDY FERNS carried over in my greenhouse have done well for the last three years at temperatures varying from near freezing to a few degrees above 50 degrees. Last year at 43 degrees, root growth was excellent. This year the temperature was dropped a few degrees (to 38-40) to see the effect. Dormancy was more pronounced and root growth was slowed. Some ferns browned-off completely while the growing tips stayed firm and green. The ever-green ferns stayed green and strong and gave off some cheer. Fewer non-hardy ferns and non-ferns survived; everything went deeper into dormancy and naturally took longer to respond when the thermostat was turned up to 50 degrees in February, earlier than last year.

The conclusion is that the temperature range from 43 to 50 degrees gave the hardy plants the needed cold spell, and anything below that, down to 32 degrees has the disadvantage of severely limiting the other plants. The effect of such a cold greenhouse on me was also noticeable. On cloudy days the greenhouse with the browned-off ferns was so cheerless that it took an effort for me to remember to go down there--just more winter, this time at close range instead of the customary brightness. Of course, every degree of temperature drop below 50 degrees means a noticeable drop in the fuel bill, but one has to consider the unconscious backlash of a depressed grower! year, 50 degrees!

TERRARIUM FERN GROWTH (in the house) was unusually lush this past winter, and at one point the extended to black fern aphids as well. Insecticidal Soap is effective, Pest Strips (with care) work, but trying to get an effective spray out of a container held almost upside down in a 20" high terrarium with one's elbow banging into the glass walls told me, not for the first time, that there must be a better way.

A simple, effective way to control aphids, slugs, and tiny snails is to sprinkle Diazinon Granules under the affected plants. The light-colored granules are not sightly, but it doesn't take them long to work, and then they can be covered up with a dusting of potting soil. but it doesn't take them long to work, and them One can be selective about where the granules land, and if some fall on leaves, they are easily dislodged with a shake of the plant.

Diazinon, made by ORTHO DIVISION OF CHEVRON CHEMICAL CO., is highly biodegradable; it starts to break down

(continued on page 19)

The Selective Culture of Fern Variations

by Judith I.Jones of FANCY FRONDS (Hardy Fern Nursery) 1191 4th Ave.,W., Seattle,WA98119

The discipline of selective culture as applied to fern propagation is as little practiced in the United States as it is understood. Until recently, all departures from the normal specific form were regarded by botanists as more or less monstrous, and to that extent unworthy of study. Varietal types were generally termed 'garden forms,' quite ignoring the fact that many of them were found under indisputably wild conditions and were purely natural sports or mutations. Fern varieties originating in this way and the progeny raised from these have been fully accredited by botanist and horticulturist alike in England. However, in the United States the difficulty of obtaining clearly written works on the subject, rash guess-work by growers who perpetuate their errors as fact, and a stubbornness to accept the fine analytical work done by English horticulturists over the last one hundred years have kept the art of the selective culture of fern variations in a miasma of confusion. In the process of delving into this field I have been fortunate to receive tutoring from many knowledgeable English enthusiasts, professional and amateur alike. It is now time that I pass my findings on to others so that they way initiate or improve upon their own course of fern propagation and selective culture. (footnote 1)

We find that if we, as fern hunters, carefully examine a large number of plants in their natural environment, departures from the normal specific type are by no means infrequent. These departures are mostly of a minor type, but every now and again examples of a very marked character present themselves and the peculiarity pervades the entire plant, including the reproductive system. As a result of this, not only is the individual markedly modified, but its progeny are similarly or even more markedly affected, which of course presents the selective cultivator his opportunity. Some species we find to be more constant to the normal type than others. With Adiantum trichomanes, the maidenhair spleenwort, for instance, we way examine hundreds without finding any appreciable departure, while where it is abundant, Athyrium filixfemina, the lady ferm, will show so much variation in dissection, habit, and general detail that it is difficult to match the fronds of any two individuals.

Once a plant has 'sported,' its seeds or spores are apt to vary in two directions: reversion or approach: to the normal or further development of the 'sport' characteristic. It is clear that by selection, wild types could be improved or enhanced in their varietal features. Inasmuch as this faculty arose in the original find under natural conditions, as in the majority of our temperate fern variations, it is also clear that the eventual developments were not due to 'culture.' Even the secondary results of selection are not properly termed 'garden' forms, which implies that they have necessarily arisen by garden influence. Yet quality variations, when found, should be removed from the natural site to the protection of a well-cared garden because they are generally less able to compete with their normal counterparts. Variaable to compete with their normal counterparts. tions such as tasselling or congesting are usually at the expense of height and perhaps even of normal growing This implies a certain handicap to competitive survival in the natural environment. However, caution should be exercised in removing naturally occurring variations so that you are not tampering with a variant of a recognized rare or endangered species. Be conversant with regional fern publications and know the normal variability of the material thoroughly.

Amid all the diverse leaf variations in the plant world we find one rare type of variation that all species of ferns seem capable of, namely, that of forming tassels at the tips of the fronds and their subdivisions. This eccentricity is the more remarkable as no species shows it as a normal character, though it must be assumed to occur sporadically on most species world-wide. Of the almost fifty species of ferns in England, only a dozen or so have failed to yield examples of crested forms. This faculty would appear to be correlated with the apical development of the frond and its subdivisions, that is, cellular growth is engendered at the extreme tip.

If we were to examine the incipient bud on a tree, we would find it consists of a compact bundle of young leaves, which emerge, grow and expand in all directions so that the outline alters but little except as regards size. A fern frond at the same stage is a small fleshy knob, devoid of any indication of its foliar structure. It is, devoid of any indication of its foliar structure. in fact, only a rudimentary stalk, tipped with a mass of incipient cells. By means of these cells the stalk lengthens, and an incurved tip is formed. Within this a process of division and redivision proceeds to the extent determined by the form of the frond, simple or divided, until, if divided, all the parts of the frond in a small and delicate form may be found to exist in the still curled up terminal at the top of the now long stalk. After this, growth is uniform, leaf fashion; the coil unrolls, the parts straighten themselves, and before long we see the flat frond full size and mature. Obviously this mode of development is more compatible with tasselling at the tips than that of a leaf of a flowering plant.

In many instances the tendency to split is developed erratically in the form of irregularly branched and tasselled fronds. In others it so predominates over the normal tendency to produce a flat frond, that the whole fern is a bunch of tassels so closely set as to resemble a ball of moss. Here, then, is a whole range of frond forms which have no counterpart in flowering plant leaf forms. There is an organized system for qualifying and naming these variations, based on historical precedence and years of study, awaiting publication in England. This outline works on the same principle as an identification-key. While not providing all the answers, it definitely guides the selective cultivator to a clearer understanding of types of variation and their proper denomination. (2)

When a fern has yielded a 'sport,' the spores, as a rule, inherit the peculiarity. However, experienced selective cultivators recognize that the peculiarity may appear in different grades in the progeny, being more emphasized in some and less in others. Thus, when spores of a supposedly 'constant sport' are sown, they reproduce the new type, but they very often do so in different degrees, some reverting more or less to normal, while others show the new character on still more marked lines. There are no absolutes in this process, and while you may expect a certain number of carbon copies of the parent, do not expect each and every sporeling to be that exact variation. There is no guarantee that every sporeling will be like the varietal parent and must not be blindly labeled as such until the plant has matured and been carefully identified. Here is where a knowledge of many variations and some years of propagating experience become essential.

One sowing of Athyrium filix-femina 'Corymbiferum' (continued on page 19)

Fern Sources in the United States

Compiled by Will Morrisey

The 1979 list contained 550 species and varieties; the 1981 list had 525. This year our fern growers have set a new record: 662 kinds of ferns and 'fern allies' are now available.

Nurseries are listed in alphabetical order by state, with a letter code preceding each name. Please note whether the nursery charges for its catalogue; this will save you the bother of extra correspondence. Fern nomenclature, that perennial problem, shows itself again, and

cultivars listed by nurseries may sometimes perplex even the experts. The ones we are not sure of have been listed after the names of the other species in their genus.

Many nurseries use obsolete nomenclature and some misidentify plants (as do we all). Furthermore, we cannot vouch for the quality or value of the plants. We are not promoting the listed dealers but merely listing what we have found to be available. Caveat emptor! There is no Pteridophile Protection Agency.

Fern Sources

AlfHF Fern Hill Farm Route 3, Box 305 Greenville, AL 36037 CaPS The Plant Shop's Botanical Garden 18007 Topham Street Reseda, CA 91335 Logee's Greenhouse CnLG 55 North Street Danielson, CT 06239 White Flower Farm Litchfield, CT 06759 FIFS Mrs. Frank Skula 130 N.W. 192 Street Miami, FL 33167 SASE F1JI(Jerry Horne 10195 S.W. 70th Street Miami, FL 33173

Robert Oman

Miami, FL 33125

Illini Gardens

Oakford, IL 62673

P.O. Box 125

3011 N.W. 18th Terrace

F1RO

ILIG

HeCGC Conley's Garden Center Boothbay Harbor, ME 04538 \$1.50 HSAEA Arthur Eames Allgrove North Wilmington, MA 01887 HsBG Blackthorne Gardens 48 Quincy Street Holbrook, MA 02343 NiEG Edelweiss Gardens P.O. Box 66 Robbinsville, NJ 08691 50 cents Gardens of the Blue Ridge P.O. Box 10 Pineola, NC 28662 The Three Laurels NoTT. W.W. Gahagan, Owner Madison County Marshall, NC 28753 John Scheepers, Inc. NvJS 63 Wall Street New York, NY 10005 Van Bourgondien 245 Farmingdale Road P.O. Box A

OhCHG Country Hills Greenhouse Rte 1, Dept F Corning, Olf 43730 \$2.50 OhF Fronds P.O. Box 20026 Cincinnati, Oll 45220 Ors Siskiyou Rare Plant Nursery 2825 Cummings Road Medford, OR 97501 PaVW Vick's Wildgardens, Inc. Box 115 Gladwyne, PA 19035 50 cents Savage Wildflower Gardens P.O. Box 163 McMinnville, TN 37110 VtP Putney Nursery Putney, VT 05346 WaFF Fancy Fronds Judith I. Jones 1911 4th Avenue West Seattle, WA 98119 SASE + 50 cents

Species Available

Babylon, NY 11702

ACTINIOPTERIS australis CaPS ADIANTUM anceps OhCHG bausei OhCHG bellum OhCHG capillus-veneris AlFHF, OhCHG, OrS 'Fimbriatum' OhCHG 'Imbricatum' OhCHG 'Scintilla' ()hCliG caudatum CaPS, OhCliG concinnum OhCHG formosum CaPS hispidulum CaPS, CnLG, NJEG, OhCHG 'Leatherman' CaPS 'New Zealand' CaPS jordanii OhCHG, WaFF macrophyllum OhCHG 'Variegatum' OhCHG microphyllum CnLG, OhCliG pedatum CnWFF, IlIG, MeCGC, MSAEA, MsBG, NcGBR, NcTL, NyVB, NyJS,

OhF, OrS, PaVW, InSWG 'Imbricatum' CaPS 'Subpumilum' OrS pendactylon CaPS peruvianum CaPS, OhCHG pulverulentum CnLG raddianum CaPS 'Cardoza Gardens' OhChg 'Cluster Glory' OhCHG 'Fritz-Luthii' NjEG, OhCHG Genevieve' CaPS
Gracilimum' CaPS
'Lady Geneva' CnL CnLG Ocean Spray CaPS, OhCHG 'Pacific Maid' CaPS, CnLG, OhCHG 'Splendens' OhCHG
'Thread Leaf' OhCHG
'Tuffy Tips' OhCHG 'Variegated Tesselate' OhCHG 'Variegatum' CnLG, OhCHG rosum CaPS seemanii OhCHG

tenerum 'Farleyense' CaPS, OhCHG 'Fergusonii' CnLG, OhCHG 'Fishtail' OhCHG Marsha's Pride' OhCHG trapeziforme CaPS, OhCHG venustum OrS, WaFF villosum OhCHG wagneri 'Magnifica' OhCHG 'Bi-Color' NiEG 'Sea Foam' CnLG 'Tinctum' CnLG 'Wrightii' CnLG, NjEG sp. (Thailand) ĆaPŠ AGLAOMORPHA brooksii F1FS, F1JH, F1RO, OhCHG coronans CaPS, F1FS, F1RO 'Pseudo-drynaria' F1RO heraclea OhCHG meyeniana CaPS, CnLG, F1FS, F1RO, NjEG, OhCHG morbilosa F1FS, F1RO, OhCHG pilosa F1RO, OhCHG

splendens F1FS, F1JH, F1RO, OhCHG superba F1FS, F1RO, OhCHG 'Roberts' CaPS sp. F1RO, OhCHG sp. (New Guinea) CaPS ANEMIA oregana CaPS phyllitidis OhCHG ARACHNIODES aristata OhCHG 'Variegata' CaPS, OhCHG, WaFF ARAIOSTEGIA hymenophylloides OhCHG ARTHROPTERIS articulata OhCHG ASPLENIUM antiguum F1RO, OhCHG ASPLENOSORUS ebenoides CnLG, OrS, WaFF ATHYRIUM distentifolium OrS filix-femina A1FHF, CnWFF, IlIG, MeCGC, MsBG, NcGBR, NcTL, NyJS NyVB, OhF, PaVW, VtP belargeri CaPS, OhCHG bulbiferum ChLG, NjEG, OhCHG cymbidifolium OhCHG daucifolium OhCHG longississimum F1RO, OhCHG marinum OhCHG mayi OhCHG nidus CaPS, NjEG, OhCHG 'Avis' CnLG 'Crispum' OhCHG 'Scolopendrioides' F1RO platyneuron A1FHF, MeCGC, MsAEA, MsBG, NcGBR, NcTL, OhF, OrS, PaVW, TnSWG, VtP simplicifrons OhCHG trichomanes IlIG, MeCGC, MsAEA, OrS, PaVW, VtP
'Incisum' OrS
viviparum CnLG sp. (Thailand) CaPS f. rubellum OhG, TnSWG
'Congestum Grandiceps' OrS
'Congestum Cristatum' WaFF 'Corymbiferum' OhF 'Craigii' OhF 'Cristato-Confluens' WaFF 'Cristato-Setigerum' OhF 'Cristatum' OhF, OrS, WaFF
'Deficiens Caudatum' OhG Deficiens Caudatum' 'Fieldii' OhF, OrS, WaFF 'Frizelliae' OhF
'Minutissima' OrS OrS, WaFF 'Plumosum' OhF
'Victoriae' OhF niponicum CnWFF, OhCHG, OhF, OrS, pycnocarpon IIIG, NcTL, NyVB thelypteroides CnWFF, IIIG, MeCGC MsBG, NyVB, VtP AZOLLA filiculoides OhCHG BELVISIA califolia OhCHG mucronata OhCHG platyrynchos OhCHG revoluta OhCHG BLECHNUM brasiliense CaPS gibbum CnLG ___'Moorei' CnLG, OhCHG occidentale CaPS, CnLG, OhCHG orientale CaPS penna-marina OrS, WaFF spicant OrS, WaFF 'Minutissimum Hall' OhF BOLBITIS heteroclita OhCHG

rhizophylla OhCHG sp. 'Wara-no-o' OhCHG BOTRYCHIUM virginianum IIIG, MeCGC, NcGBR CAMPTOSORUS rhizophyllus MeCGC, MsAEA, MsBG, NyJS, OrS, PaVW, TnSWG, VtP CHEILANTHES californica CaPS fendleri OrS gracillima OrS lanosa OrS siliquosa OrS tomentosa WaFF CHRISTELLA cyclosorus 'Dentata' CaPS CHRISTIOPTERIS
varians 'Dwarf' CaPS CIBOTIUM schiedei CaPS CIONIDIUM moorei CaPS COLYSIS ampla OhCHG elliptica F1RO hemionitoides OhCHG membranifolia OhCHG pothifolia OhCHG wrightii F1RO CONTOGRAMMA japonica 'Variegata' F1RO, OhCHG CRYPTOGRAMMA crispa OrS CYATHEA rebeccae FlJH CYRTOMIUM caryotideum OhCHG falcatum CaPS, CnLG, NjEG 'Butterfieldii' WaFF 'Cristatum' OhCHG 'Rochefordianum' CaPS, OhCHG fortunei OhF macrophyllum OhCHG CYSTOPTERIS bulbifera MeCGC, MsBG, NcGBR, NyJS, NyVB, VtP fragilis IIIG, NcTL, NyJS, OrS, VtP DAVALLIA brooksii OhCHG bullata OhCHG canariensis ('portugal') NjEG, OhCHG
denticulata F1FS, F1RO, OhCHG
divaricata F1FS, F1RO, OhCHG
'Mayi' OhCHG
dimerpha OhCHG embolstegia OhCHG epiphylla CaPS, F1FS, F1RO, OhCHG fejeensis CaPS, F1RO, OhCHG 'False Plumosa' OhCHG

'False Plumosa' OhCHG

'Najor' CaPS, F1FS, OhCHG

'Minor' F1FS, F1RO, OhCHG

'Plumosa' CnLG, OhCHG
griffithiana MjEG, OhCHG
japonica F1FS, F1RO, OhCHG
mariesii ('bullata') CaPS, F1FS, OhCHG ___'Stenolepis' OhCHG pentaphylla (see Scyphularia) pyxidata OhCHG solida CnLG, F1FS, F1RO, OhCHG
_____Major' OhCHG 'Philippines Ornata' OhCHG Ruffled Ornata' OhCHG tenuifolia CnLG trichomanoides OhCHG 'Barbata' OhCHG 'Lorrainii' F1FS, OhCHG Minor' OhCHG
Bongo Bongo' F1RO 'Penang Hill' F1RO

'Portugal' F1RO 'Red Toes' F1RO sp. (Borneo) CaPS DAVALLODES hirsutum F1FS, F1RO, OhCHG DENNSTAEDTIA punctilobula CnWFF, IlIG, MeCGC, MsAEA, MsBG, NcGBR, NcTL, NyJS, NyVB, PaVW, VtP DIDYMOCHLAENA truncatula CaPS, OhCHG DIPLAZIUM tomentosum CaPS DOODIA blechnoides OhCHG caudata OhCHG media ('aspera') CnLG, OhCHG sp. CnLG DORYOPTERIS
pedata 'Palmata' CaPS
DRYMOGLOSSUM piloselloides CaPS, OhCHG DRYNARIA
bonetii FlJH, F1RO, OhCHG
descensa F1RO, OhCHG membranacea F1FS quercifolia CaPS, F1RO, OhCHG rigidula F1RO, OhCHG
__'Whitei' OhCHG
sparsisora F1RO, OhCHG sp. (Malaysia) F1RO sp. (Philippines) FlJH, OhCHG sp. (Thailand) CaPS DRYOPTERIS affinis OhF 'Cristata' CaPS, WaFF arguta OrS atrata OhF, OrS campyloptera MeCGC carthusiana ('spinulosa') CnWff, IIIG, MeCGC, NcGBR, NcTL,
NyJS, NyVB, OhF
cristata CnWFF, IIIG, MeCGC, MsBG,
NyJS, NyVB, VtP
dilatata 'Lepidota Cristata' OrS, 'Recurvata' OrS, WaFF erythrosora OhF, OrS, VtP expansa WaFF extensa NjEG filix-mas OhF 'Barnesii' OhG, WaFF 'Cristata' OrS, Waff 'Cristata Martindale' WaFF Grandiceps' OhF 'Linearis Polydactyla' OrS, WaFF
'Undulata Robusta' OrS, WaFF
goldiana CnWFF, MeCGC, MsAEA, MsBG,
NcGBR, NcTL, NyJS, NyVB, OhF,VtP intermedia VtP marginalis CnWFF, IliG, MeCGC,
MsAEA, MsBG, NcGBR, NcTL, NyJS,
NyVB, OhF, PaVW, VtP
ELAPHOGLOSSUM crinitum FlJH spp. (several) OhCHG GYMNOCARPIUM dryopteris MeCGC, MsAEA, NyVB, OrS, VtP 'Plumosum' OrS, WaFF robertianum OrS **HEMIONITIS** arifolia CnLG, OhCHG palmata CaPS HUMATA angustata OhCHG griffithiana OhCHG heterophylla F1FS, F1RO, OhCHG repens OhCHG tyermannii CnLG, F1FS, OhCHG

rajor onche
'Silver Toes' CaPS
vestita FlJH
sp. (Taiwan) F1RO
HYPOLEPIS
punctata OhCHG
LEMMAPHYLLUM
accedens OhCHG
microphyllum CaPS, OhCHG
'Obovatum' OhCHG
pyriforme F1RO, OhCHG
LLAVEA
cordifolia CaPS
LOXOGRAMME
involuta CaPS
LYGODIUM
ii C-DC C-IC OLOUG
japonicum CaPS, CnLG, OhCHG palmatum MsBG, VtP
palmatum MsBG, VtP
reticulatum CaPS
MARSILEA
minuta CaPS
minuta CaPS mutica CaPS
mutica cars
quadrifolia OhCHG
vestita OhCHG
sp. CaPS
MATTEUCCIA
etruthicatoric ('Ptorotic poduloca')
struthiopteris ('Pteretis nodulosa')
Cowff, Ilig, MeCGC, MsAEA, MsBG
NcGBR, NcTL, NyVB, OhF, PaVW, Vtl
MERINTHOSORUS
drynarioides FlJH, F1RO, OhCHG
MICROLEPIA
analunana (launami dalial) ObCHC
speluncae ('pyramidalis') OhCHG
'Corymbifera' CaPS
strigosa CaPS
MICROSORIUM
congregitifolia F1RO
longifolia F1RO
longissimum F1RO, OhCHG
membranaceum F1RO
punctatum F1RO
punctatum F1RO scolopendrium OhCHG
scolopendrium OhCHG
scolopendrium OhCHG vieilliardii 'Mt. Elgon' OhCHG
scolopendrium OhCHG vieilliardii 'Mt. Elgon' OhCHG NEPHROLEPIS
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scolopendrium OhCHG vieilliardii 'Mt. Elgon' OhCHG NEPHROLEPIS acutifolia F1RO, OhCHG biserrata CaPS
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Verona' CnLG
    'Verona Lace'
                        OhCHG
   _'Wanamaker' OhCHG
_'Whitmanii' CnLG, NjEG
_'Wicherii' OhCHG
hirsutula CaPS
lauterbachii CaPS
pendula CaPS
'King Fern' F1RO
sp. CaPS
   NOTHOLAENA
sinuata CaPS
   ONOCLEA
sensibilis CnWFF, IlIG, MeCGC, MsBG, NcGBR, NcTL, NyVB, OhF, PaVW
OPHIOGLOSSUM
pendulum F1JH
   OSMUNDA
cinnamomea CnWFF, IlIG, MeCGC,
MsAEA, MsBG, McGBR, NcTL, NyVB,
       OhF, PaVW, VtP
claytoniana CnWFF, I1IG, MeCGC,
MsAEA, MsBG, NcGBR, NcTL, NyJS,
NyVB, OhF, PaVW, VtP
regalis CnWFF, IliG, MeCGC, MsBG,
NcGBR, NyVB, PaVW, VtP
   PELLAEA
adiantoides CaPS, NiEG
andromedifolia OrS
atropurpurea OrS
brachyptera OrS
falcata OhCHG
mucronata OrS
rotundifolia CaPS, CnLG, NjEG, OhCHG
ternifolia var. wrightiana WaFF
viridis NjEG, OhCHG
PHYLLITIS
scolopendrium CaPS, CnLG, NjEG,
       OhCHG, OrS
     'Cristatum' CaPS, OhCHG, OrS,
       WaFF
    _'Laceratum Kaye' WaFF
_'Marginatum' OrS
   'Marginatum Irregulare'
'Muricatum' OrS
'Plicatum' NjEG
Ramo-Marginata
                             CaPS
   'Selected Crest'
'Undulatum' OhCHG
  PHOTINOPTERIS
speciosa OhCHG
PHYMATODES
nigrescens F1RO
sinuosa FlJH, F1RO, OhCHG sp. (Africa) F1RO
sp. (Malaysia) FlJH, OhCHG
sp. (New Guinea) F1RO, OhCHG
sp. (Philippines) OhCHG
   PITYROGRAMMA
argentea CnLG
triangularis OrS
   PLATYCERIUM
andinum CaPS, F1FS, F1JH, F1RO
angolense F1FS, F1JH, F1RO
bifurcatum CaPS, CnLG, F1JH, F1RO

'Dwarf' F1JH

'Florida' F1JH

'Forgii' F1RO
  __'La Reunion' F1RO
'Leatherman' CaPS
'Majus' CaPS, F1FS
'Netherlands' CaPS, OhCHG
    'San Diego' CaPS
    'Ziesenhenne'
                         CaPS
coronarium F1RO
diversifolium F1RO
ellisii F1FS, F1JH, F1RO grande F1RO, NjEG
hillii CaPS, F1FS, F1JH, F1RO, NjEG

'Bloomii' F1FS, F1JH, F1RO

'Drummond' F1JH
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Pumile' CaPS, FlJH, FlRO
holttumii F1FS, F1RO
lemoinei CaPS, F1JH
madagascarense CaPS
quadridichotomum CaPS, F1JH
stemaria ('aethiopicum') CaPS,
F1FS, F1JH, F1RO

_'Hawks Variety' F1RO
superbum CaPS, OhCHG
vassei ('alcicorne') F1FS, F1JH,
       NiEG, OhCHG
     'Bifurcatum' F1RO
   _'Madagascar A' FlJH
_'Madagascar B' FlJH
    'Majus' F1RO
Wilhelmina Regina' F1RO
veitchii F1FS, F1JH, F1RO, OhCHG
Hula Hands' F1FS
wandae F1RO
wandae FIRO
willinckii ('sumbawense') CaPS,
FlJH, F1RO, OhCHG
_'Jimmie' CaPS
_'Lemonei' F1FS, F1RO
Longwood Gardens' F1RO
'Minnie Bell' CaPS
Payton' OhCHG
'Appley' F1FS, F1RO
'Blue Boy' F1JH
'Broad Leaf' CaPS
'Cass Hybrid #1' F1FS, F1RO
'Cass Hybrid #3' F1FS, F1RO
 'Epstein' CaPS
 'Excellence'
                    F1JH
 'Guam' F1JH
 'Madagascar' F1RO
 'Magnificent' F1FS
'Omanii' F1RO
 'Omanii' F1RO
'Panama' CaPS, F1JH, F1RO
'Skula's Mrs. D' F1FS
'South Seas' F1FS, F1RO
'Tomett' F1RO
Hybrid (Europe) F1RO
Hybrid (Germany) F1RO
   POLYPODIUM
angustifolium OhCHG
'Corkscrew' OhCHG
'Fimbriatum' OhCHG
   'Narrow' OhCHG
aureum CaPS, NjEG, OhCHG
'Areolatum' OhCHG
  Areolatum Cristata' OhCHG

'Coronans' NjEG

'Cristata' NjEG
'Cristata NJEG
'Ekstrandii' OhCHG
'Grandiceps' NJEG
'Mandianum' CaPS, NJEG
 'Mexican Tassle'
                               CaPS
'Samoa' OhCHG
    'Tasselata Grande' CaPS
caespitosum F1RO
cambricola CaPS
ciliatum OhCHG
colvsoides OhCHG
crassifolium OhCHG
     'Monstrosum'
                         OhCHG
cuspidulum OhCHG
decumanum CaPS, OhCHG
_'Giant' CaPS
diversifolium OhCHG
formosanum CaPS, CnLG, NjEG, OhCHG
'Cristata' CaPS, NjEG, OhCHG
fraxinifolium CaPS, OhCHG
glaucophyllum 'Villa Tenaril' OhCHG
glycyrrhiza OrS, WaFF
hemionitideum F1RO, OhCHG
heterophyllum OhCHG
hirsutissimum OhCHG
integrifolium F1RO ____'Cristatum' OhCHG
 ___'Cristatum' OhCHG
lanceolatum X thyssanolepis OhCHG
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tepidopteris CnLG leucosporum 'Costa Rica' OhCHG cretica NjEG 'Albo-lineata' NjEG 'Childsii' CaPS lobatum OhCHG Rivertoniana' CaPS, NjEG
'Wilsonii' NjEG longissimum OhCHG lycopodioides OhCHG malahatense OrS mandianum CnLG ryukensis CaPS serrulata CaPS PYRROSIA maritumum OhCHG adnascens OhCHG
angustata F1FS, F1RO, OhCHG
__'Australia' OhCHG
angustifolia F1RO megalophyllum OhCHG X mertensii OhCHG musifolium F1RO, OhCHG nigrescens OhCHG novo-zealandica OhCHG beddomeana OhCHG palmeri OhCHG pattoni CaPS heteractis OhCHG lingua CaPS, F1FS, F1RO, OhCHG
'Cristata' F1JH, OhCHG
'Dactylopsis' CaPS percussum OhCHG phyllitidis CaPS, OhCHG 'Kinshi' OhCHG piloselloides OhCIIG 'Laciniata' CaPS
'Monstrifera' F1FS, F1JH, OhCHG
'Nankin-Shishi' F1JH, OhCHG polycarpon OhCHG
__'Dwarf' F1RO 'Elegans' F1RO
'Grandiceps' F1JH, F1RO, OhCHG 'Nokogiri Ba' F1FS, F1JH, F1RO, 'Grandiceps Compactum' CaPS,OhCHG OhCiiG 'Grandiceps Compactum C.

'Grandiceps Dwarf' CaPS

'Serrulatum' FlJH, FlRO
polypodioides AlFili 'Numulariifolia' F1FS, OhCHG 'Oba' CaPS, F1FS, F1RO 'Obovata' F1FS Porte Crested' CaPS

'Yariegata' F1FS, F1JH, F1RO,OhCHG

longifolia F1FS, F1RO, OhCHG

'Angustifolia' OhCHG

'Eberhardtii' OhCHG ptilorhizon OhCHG punctatum OhCHG _'Cristatum' OhCHG pyrrholepis OhCHG sanctae-rosae OhCHG, CaPS scandens ('pustulatum') F1RO, OhCHG X scheideri OhCHG 'Glasshouse Works' OhCHG macrocarpa FlJH, F1RO piloselloides F1FS polydactylis F1FS, F1JH, F1RO, OhCHG scolopendria CaPS, CnLG, NjEG __'India' CaPS scouleri OrS, WaFF sphenodes OhCHG rupestris F1JH, OhCHG samarensis F1FS, F1JH, F1RO, OhCHG stigmosa F1FS squamiferum F1RO, OhCHG squamulosum CaPS, OhCHG subfurfuracea. F1RO subauriculatum OhCHG
___'Knightiae' F1RO, CaPS varia CaPS, F1RO, OhCHG

'Winkleri' OhCHG

'Cockscomb' CaPS, F1RO

'Cuspidata' F1FS tectum OhCHG triseriale OhCHG
_'Cambricoides' OhCHG 'Lecepated' F1RO 'Peacock' F1FS 'Splendens' F1FS, F1RO vacciniifolium CaPS, F1RO, NjEG, OhCIIG vulgare 'Bifidum' OrS
__'Cornubiense' OrS, WaFF 'Varia' F1FS sp. (Australia) F1RO, F1FS sp. (Java) F1FS 'Ramosum' WaFF 'Kamosum' WaFI
xalapense OhCHG
'Mt. Elgon' F1RO
'Shaw #2' F1RO
'Trisedale' F1RO
'Vitiense' F1RO
sp. (India) CaPS
POLYSTICHUM
acrostichaides sp. (New Guinea) F1FS, F1JH QUERCIFILIX zeilanica CaPS, CnLG, OhCHG RACHIDOSORUS mesosorus 'Ching' OhF RUMOHRA adiantiformis ('Polystichum capense') acrostichoides AlFHF, CnLG, CnWFF, OhCHG ATTOR, CHEG, CHEF, CHEF, CHEF, CHEF, ATTOR, ATTOR, MCGBR, NCTL, NyJS, NyVB, OhF, PaVW, TNSWG, VtP
aculeatum CnLG
Proliferum CnLG
braunii MeCGC, MsAEA, MsBG, OhF, VtP SALVINIA minima ('rotundifolia') OhCHG SCYPHULARIA pentaphylla CnLG, F1FS, F1RO, OhCHG simplifrons F1FS, F1RO, OhCHG SELLIGUEA lima F1RO 'capense' (see Rumohra adiantiformis) 1epidocaulon OhCHG munitum WaFF STENOCHLAENA milnii F1RO tenuifolia ('palustris') CaPS, OhCHG 'Imbricans' OrS proliferum OhCHG
setiferum ('angulare') OhCHG
_'Divisilobum OrS, WaFF TECTARIA cicutaria CaPS decurrens OhCHG 'Plumosum-Divisilobum' Ors, WaFF
'Rotundatum-Cristatum' Ors, WaFF sircum CnLG THAYERIA 'Polsada #15' OhCHG 'Plumosa' CnLG, OhCHG tsus-simense CaPS, CnLG, NjEG,
OhCHG, OhF
PSEUDODRYNARIA
coronans OhCHG cornucopia OhCHG THELYPTERIS sp. (Bolivia) OhCHG decursiva OhCHG gigantea OhCHG sp. (Borneo) PTERIDIUM hexagonoptera A1FHF, MeCGC, MsAEA, aquilinum IlIG, MsBG, NcGBR McGBR, NcTL, PaVW PTERIS noveboracensis MeCGC, MsAEA, NcGBR, argyraea NjEG NcTL, NyVB, PaVW, VtP

palustris AlFHF, IIIG, MeCGC, MsBG, NcGBR, NcTL, NyVB phegopteris IIIG, MeCGC, MsAEA, NyVB, VtP TRISMERÍA trifoliata OhCHG WOODSIA ilvensis CnWFF, MeCGC, MsAEA, OrS obtusa OhF scopulina OrS WOODWARDIA areolata AlFHF virginica IIIG, MsAEA, NcGBR "FERN ALLIES" EQUISETUM diffusum OhCHG hyemale OhCHG scirpoides CaPS, OhCHG variegatum OhCHG sp. (Africa) CaPS LYCOPODIUM carinatum OhCHG lucidulum MsAEA phlegmaria OhCHG siamense OhCHG squarrosum F1JH, NjEG, OhCHG SELAGINELLA emmeliana CnLG, OhCHG erythropus OhCHG eurynota OhCHG horizontalis OhCHG
kraussiana CaPS, NjEG, OhCHG, OrS

'Aurea' CaPS, CnLG, OhCHG

'Brownii' CaPS, CnLG, OhCHG _'Chartreuse' OrS 'Variegata' CaPS Tike haematodes OhCHG lobbii OhCHG martensii OhCHG 'Variegata' CnLG, OhCHG moellendorffii OhCHG mollis OhCHG oaxacana OhCHG opaca OhCHG pallescens OhCHG plana OhCHG porelloides OhCHG rupestris 'Scopulorum' tamarascina 'Akatsuki'
__'Ginesekai' OhCHG
_'Hokans' OhCHG
_'Karabana' OhCHG
_'Karaori' OhCHG OhCHG 'Kinbotan' OhCHG __Kinbocan Onche _'Kinginjishi' OhCHG _'Kinryu' OhCHG _'Kinzan' OhCHG 'Kogyokunishiki' OhCHG 'Kosame-no-Niskiki' OhCHG 'Mosame-NO-NISKIKI
'Miyakobeni' OhCHG
'Ohgonzuru' OhCHG
'Tamaorihime' OhCHG Tenryuh' OhCHG umbrosa OhCHG uncinata CaPS, CnLG, OhCHG victoriae OhCHG vogellii OhCHG watsonii OrS

sp. (Brazil) OhCHG sp. (Japan) OrS sp. (Mauritius) OhCHG

CaPS

spore, obtained from the BPS exchange, produced a range of variations: four very fine 'Caput-Medusae' forms, a few 'Ramoso-cristatum' forms, and several average 'Cristatum' forms. In that sowing not a single legitimate 'Corymbiferum' form occurred. However, thanks to the insight of several dedicated English fern growers, excellent historical data are available on the selective process of many fern variations. The A.f.f. 'Corymbiferum' had yielded similar results in the past. Forewarned, I was prepared to patiently await full development at three years' maturity before making a final determination on varietal names.

Variation naturally assumes all grades, and ranges from comparatively slight departures from the common type, which may be regarded as mere individualities, to such marked and thorough types as form the 'elite,' and represent the materials upon which the expert selective cultivator works. From the spore of these 'elite' have come of the finest forms in cultivation. The Fox and Jones <u>Polystichum setiferum</u> 'Plumoso-divisilobums' and 'Multilobo-divisilobums' are prime examples of this process of careful selection.

Many thoroughbreds yield progeny so true to their own type that no further variation occurs, but it by no means follows that every season's sowing will yield the same results. When there is a departure from the normal type, it may be accepted as a general rule that variation will occur again. I have sown spore of Athyrium filix-femina 'Congestum cristatum' some six times in eight years and only once has there been a substantial change. But this change is so choice, being a perfect three-inch replica of the parent with the further elaboration of having minute crests to the pinnules, that it now has been named by James Dyce as Athyrium filix-femina 'Percristatum minutum.'

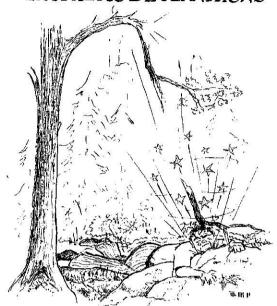
It should be noted, however, that any advances are almost invariably along the same lines, that is the division or variation merely increases in degree. No really new character is introduced, only an enhancement of the same type. Thus, a crested or tasselled form may produce heavier tassels, a dissected one still greater dissection, and so on, though of course the possibility is not excluded of a secondary sport introducing a different character in conjunction with the first. It is this ability to combine different characters of variation that has so confused the American fern fancier when dealing with the innumerable English fern variations.

The fundamental principle of selective culture is to start with spores of the best varieties obtainable, having in view their improvement. Only thoroughbred symmetrical and constant forms, not sub-varieties or defective types, should be used for selective purposes or given varietal names which will leave an impression of value. While spore exchanges are an excellent source of varieties new to you, it is by no means assured that every donor took the care to select only the best or even that the material was properly identified. You can compensate for this when you begin your process of selection among the progeny. Inferior forms should be eliminated and destroyed. true selector should be devoted only to the improvement, or at least to the production of replicas of the thoroughbred parents. It is painful to have to throw away the efforts of some two to three years' work, but it must be done if we are to bring the quality of varietal fern offerings to the necessary standard of excellence they so deserve. The commercial grower, especially, has to be The commercial grower, especially, has to be very careful, or the ease and abundance with which rogue forms assert themselves make them liable to be put forward for sale. Unfortunately, this is already the plight of the varietal fern market in the United States.

have left their indelible imprint upon me. James W. Dyce, longtime secretary and cohesive force of the British Pteridological Society, has furthered this imprint through correspondence, three cherished visits, and access to his various unpublished manuscripts which contain invaluable information unavailable elsewhere.

(2) Mr. Dyce has a book in press on British fern variation and the process of selective culture. We are long overdue for a current definitive work on hardy fern variation, and this will be the beacon for future enthusiasts and professional propagators for many years to come.

EPATHETIC DIFFERNITIONS



heterochroum - varying in color.

"Merry Stems" (continued from page 13)

within 48 hours although some residual effect lasts for two weeks or so. Used on soil surfaces in pots or in terraria, overnight seems to be time enough to get rid of the pests. Just how this works is not clear because it is a contact poison and so every aphid must come in contact with it somehow. Attention should be paid to label cautions.

Commonly used for heavy jobs — it comes in liquid, powder or granule form — such as lawn protection or around house foundations to keep out home—invading pests, Diazinon is not usually thought of for a pest as easy to dispatch as aphids. "Using a hammer instead of a feather," is the way the Extension Institute described it. However, dropping a homeopathic—sized dose of a few granules where you want them can't be beat for ease of application with no observable harmful effects.

JUDITH I. JONES, FANCY FRONDS, 1911 4th Avenue, Seattle, WA 98119, has brought out an expanded 1983 catalogue of interesting ferns, specializing in English variations. The list is available on receipt of a stamped, self-addressed envelope, plus 50 cents to defray printing and mailing costs for new customers.

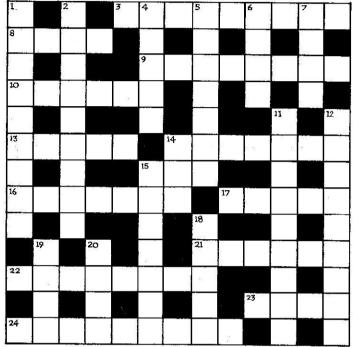
Judith's announcement in the May-June 1982 Fiddlehead Forum unfortunately gave the wrong street address so that inquiries were not received. Please try again; it will be worth your while.

Send in your TIPS, QUESTIONS, OPINIONS to Eth Williams, 57 Clinton St, White Plains, NY 10603

⁽¹⁾ I owe a deep debt of gratitude to two very special men for my continuing education in the field of selective culture. Charles Druery I have only met through his prolific writings, but his gifted insight and enthusiasm

Fern Fun Our Potpourri of Pteridological Ptrivia

This puzzle isn't too difficult but it has the usual double entendres --- and don't forget to look for those hidden anagrams by counting letters; they're insurance against getting the wrong word. The * denotes 'botanically oriented.'



Down

- 1. Never gathered by a rolling stone (9) *
- 2. Last up sir, is a Marsh Fern (9) *
- 4. A garment that gets around (5)
- 5. Fly-away-home insect (7)
- 6. Identify if you know what I mean (4)
- 7. Spore-bearing parts of moss capsules (4) *
- 11. This genus ? It marries a close relative Pityrogramma (9) *
- 12. Not every slope in U.S. grows this Dryopteris (9) *
- 14. Busy or Spelling (3)
- 15. A ripe dot has the makings of a Greek Fern (7) *
- 18. The tops for any fern specially if wavy (5) *
- 19. Light ring overhead (4)
- 20. Just the color for a young deer (4)

Across

- 3. This fern can be found up in Salem (9) *
- 8. It could lead to Morocco or Mandalay (4)
- 9. Let the mind tune in on this rhizome protection (8) *
- 10. A rudimentary seed needs valour to describe its egg-sistence *
- 13. Develop eggs and/or plots (5)
- 14. Not the best way to travel but a start for an AFS foray
- 15. If she's square, she can't get in a round hole (3)
- 16. A letter I wrote showed how fern spores could shape up (7) *
- 17. Upset rinse will produce the plant exudation (5) *
- 21. Ring the bell again to have the order rescinded (6)
- 22. The Garden of Eden is in the parade (8)
- 23. A Cheilanthes feature put two and two together for a love-in
- 24. Those magic Botrychiums (9) *

Knife-blade Solution

(parad-1s-e) (d.e.); 23. lips (d.e.); 24. Moonworts.

10. ovular (valour); 13. hatch (d.e.); 14. bus-trip; 15. Peg (d.e.)
16. trilete (letter I); 17 resin; 21. repeal (d.e.); 22. paradise

House 3. asplenium (up in Salem); 8. road; 9. indument (mind tune);

18. crest (d.e.); 19. halo; 20. fawn (d.e.). (d.e.) = dcuble entendres

12. spinulose (slope in U.S.); 14. bee; 15. pterido (ripe dot);

Domur 1. Bryophyte (moss); 2. palustris (Last up sir); 4. skirt (d.e.); 5. Lady-bug; 6. name (mean); 7. urns; 11. Trismeria (it marries);

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