

# Fiddlehead Forum

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Editors: Joan Nester-Hudson and David Schwartz

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## *The Spore Exchange*

**“The life of the Exchange depends on your spore contributions.”**

Neill Hall,

Spore Exchange curator, serving from 1962 to 1988.

One of the goals of the American Fern Society is to promote the cultivation of ferns. The AFS Spore Exchange makes hundreds of ferns available that would otherwise be unobtainable for most members. Members can share spores from rare or endangered ferns thereby safeguarding the species so that our grandchildren may also enjoy these beautiful plants.

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**The American Fern Society would like to thank Denia Mandt for her many years of service and dedication to the Spore Exchange.**

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### *Inspirations*

by Brian Aikins, Spore Exchange Curator

This has been a year of transition for the spore exchange. In May I accepted the role of Spore Exchange Curator and shortly thereafter received two large boxes from Denia Mandt, the outgoing curator, who had aptly served since 2004. Prior to sending the boxes she painstakingly purged outdated material from the spore bank and prepared a complete inventory. The species count was about 300, each contained in a regular-sized envelope, and, altogether, enough to fill one full shelf of our refrigerator.

A few spore orders and donations started coming in and I quickly realized the exchange, in full operation, might require more time than I anticipated. I am already employed full time as an engineer, maintain a living collection of over 300 fern species, and work alongside my wife to keep our house from falling down around

us. My initial efforts as curator have been to streamline the entire system. It is my hope that the changes I am making will enhance the spore exchange for all its participants.

The first step was setting up a database for species information, current inventory, and transaction history. I decided to modify a fern database I started when I joined the AFS in 1987. It already had information for every fern offered on the AFS Exchange since '87 but some of the botanical names were out of date. Thus started my first task: looking up each of the ferns to confirm spelling and accepted name. I mostly used [www.theplantlist.org](http://www.theplantlist.org) and recent books from my fern book collection.

Next, I went through the spore bank to update botanical names, separate the most recent material from older donations, reduce the size and thickness of spore stock

## AFS OFFICERS

**PRESIDENT:** Kathleen M. Pryer, Department of Biology, Duke University, Box 90338, Durham, NC 27709-0338. pryer@duke.edu

**PRESIDENT-ELECT:** James E. Watkins, Jr., Department of Biology, Colgate University, Hamilton, NY 13346-1338. jwatkins@mail.colgate.edu

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**MEMBERSHIP SECRETARY:** George Yatskievych, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299. george.yatskievych@mobot.org

**CURATOR OF BACK ISSUES:** James D. Montgomery, Ecology III, Inc., 804 Salem Blvd, Berwick, PA 18603-9801. jimm37@verizon.net

**CURATOR OF THE SPORE EXCHANGE:** Brian Aikins, 3523 Federal Ave., Everett, WA 98201. spores.afs@comcast.net

**WEBMASTER:** Stephen McDaniel, 1716 Piermont Ave., Hacienda Heights, CA 91745. webmaster@amerfernsoc.org

**OUTREACH COORDINATOR:** Tom Stuart, PO Box 517, Croton Falls, NY 10519. tstuart@westnet.com

## EDITORS OF AFS PUBLICATIONS

**AMERICAN FERN JOURNAL:** Dr. Warren Hauk, Department of Biology, Samson Talbot Hall 350 Ridge Road, Granville, OH 43023 phone: 740-587-5758. hauk@denison.edu

**MEMOIRS:** David B. Lellinger, 16 Nottingham Rd., Brevard, NC 28712-9785. dllinger@earthlink.net

**FIDDLEHEAD FORUM:** Joan Nester-Hudson, Box 2116, Department of Biological Sciences, Sam Houston State University, Huntsville TX 77341-2116 (jhudson@shsu.edu) and David Schwartz, 9715 Chirtsey Way, Bakersfield, CA 93312-5617 (xericferns@aol.com)

The Editors of FIDDLEHEAD FORUM welcome contributions from members and friends, including miscellaneous notes, and reviews of books on ferns. Articles may be submitted electronically by e-mail, on disk (PC compatible) or typed.

Regular membership in the American Fern Society is on a calendar-year basis and includes access to field trips and the spore exchange. Regular members receive the *Fiddlehead Forum*, but not the American Fern Journal, for \$15 (to U.S.A., Canada, and Mexico) Regular members in other countries receive the *Fiddlehead Forum* for \$22. Individuals interested in regular or journal membership should contact the membership secretary.

## AFS HOME PAGE

[www.amerfernsoc.org](http://www.amerfernsoc.org)



packets, and prepare 4 to 6 packets of each to fulfill future spore requests. Having a ready supply of prepared packets greatly simplifies the processing of spore requests.

Once the spore bank was updated I assigned unique order numbers to each species and transferred the spore bank contents into smaller, refrigerator-friendly containers. I chose re-sealable pouches and totes with adjustable separators. The order numbers were derived from an alphabetical listing of all spores offered during the past 25 years plus any new additions as of September this year.

Another enhancement to the exchange I am hoping members will embrace is for spore donors to submit photographs of their source ferns. Since most people now have digital cameras and access to the internet, I think it is time to try this idea. The additional effort to snap a few pictures is minimal, yet has the potential to greatly improve the quality of the spore list. If you plan to donate spores, please refer to the updated spore collecting guidelines.

After developing a process to generate the spore list semi-automatically, I updated the on-line web site and order forms (order form on page 43). Now it is easy to provide new spore lists on a monthly basis, but there is no simple way to generate a semi-annual addendum to the Fiddlehead Forum spore list. Instead, I encourage members without internet access to send me a post card asking for the latest list. I'll print and mail a copy.

I have already received some terrific spore donations including a very generous contribution from Ro Walraven of seventeen tree fern species. If that is any indication, the future of the Spore Exchange looks bright.





## *How to Collect Fern Spores*

The Spore Exchange welcomes spore donations from members and non-members. Any fern species or variant is much appreciated. Of course, donations that add new species or update existing species are preferred but any contribution will be accepted. Please try to collect enough spores to make three or more packets (approximately 15 cubic millimeters of cleaned spores, minimum). The other extreme, very large spore quantities, might fill research needs or allow trading with other fern societies.

If you think a fern is too common or ordinary to donate, it might be just what a beginner, researcher, or someone in another area is looking for.

Following these guidelines will help avoid some common problems with donated spores such as unripe or over-ripe spores, contamination, incorrect identification, and leaking of spores in transit.

1. If possible, **take some digital photographs** of the fern you are collecting spores from. Try to include an ordinary object in at least one picture for size reference. Links to donor-supplied pictures will be in-

cluded in the online list. If you do not know the botanical name of the fern or if you are unsure, please send pictures of the plant, both sides of the fronds and close-ups of the fertile fronds. Sending portions of the dried fronds is also helpful. The pictures and/or fronds should allow identification to the genus level for listing on the exchange.

2. **Collect fertile fronds or portions of fertile fronds with ripe sori** (spore bearing patches). Refer to picture above for *Polystichum tsus-simense*. Ripe sori contain sporangia (tiny capsules) that are fully developed but have not yet released their spores. Unripe sori are generally green or somewhat colorless while over-ripe sori have spent sporangia which look like dull fuzz. If in doubt, collect portions at various stages of development. Also, it is better to error toward over-ripe fronds than under-ripe ones because good spores are more likely found among spent sporangia than among unripe sporangia.

3. If the source fern is in a location where it may have received wind-blown spores from other species, or if its fronds are dirty, then **thoroughly rinse the cut fronds in a strong stream of cool water** and shake off the excess.
4. **Place the collected fronds in a thin white paper envelope** — a business envelope will do — **and allow it to dry** at room temperature for a few days. Another method is to sandwich the fronds between sheets of white paper held down with a weight. You can reduce the drying time to a few hours by scraping the sori off the frond into the envelope or onto a sheet of paper, making sure the scrapings are spread out. Since the spores are thrown one or two inches from the sporangia during the drying process, close the envelope or provide baffles to contain the spores.
5. After the fronds have shriveled and the sporangia have shed their spores, there will be a dusty mixture of spores and chaff (spent sporangia, dried indusia, scales, etc.). Brush off or tap any remaining material from the fronds before discarding. **Remove most of the chaff from the spores** by holding the paper at a slight angle and tapping it so that the chaff bounces forward while the spores stay behind. Don't worry if some chaff remains. If your attempt to clean the spores does not work or you are unsure if there are any spores, go ahead and send all the released or scraped material. **All donations will be cleaned using a fine metal sieve when processed for the spore bank.**
6. **Seal the spores of each donation in a folded paper packet.** There are many packet folding methods but the trick to successful sealing is making a packet where the only route of escape is a sequence of at least two very sharp folds. Also, the packet needs to lay flat, otherwise the trapped air inside will blow the spores out if it is squeezed. Ideally, the paper should be thin, smooth, and white, or translucent. Heavy duty aluminum foil also works well but waxed paper has been shown to decrease spore longevity. Please do not put the spores directly in a plastic bag and do not use tape to provide a seal. Spores and chaff tend to statically cling to plastic and adhere en masse to tape residue. Instead, consider enclosing each folded packet in a small sealed bag. It will hold the packet from unfolding and contain any mess if it leaks.
7. **Label each packet**, or the bag containing the packet, **with the botanical name, collection month and year, your initials**, and a “g” if the fern was grown (cultivated) or a “w” if it was wild collected. If collected in the wild, please also include the location (country, state, province, etc.). Any additional information would be helpful such as habitat, elevation, soil type, hardiness zone, etc.
8. If the packets are thin, less than 1/8th inch thick, tape them to a sheet of paper using clear (preferably removable) tape, fold the paper and mail in an ordinary business envelope. Otherwise, send the packets in bulk using a padded shipping envelope.
9. **Mail spores to:** Brian Aikins, AFS Spore Exchange, 3523 Federal Ave., Everett, WA 98201-4647
10. **Email pictures**, or better yet, links to the pictures to [spore.afs@comcast.net](mailto:spore.afs@comcast.net). Please be sure to identify which pictures go with which packets.

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## *Spore Donors*

The following donors contributed spores to this list: Brian Aikins (BA), Bart Hendrikx (BH), Barbara Joe Hoshizaki (BJH), Don Callard (DC), Denia Mandt (DE), Doug Eckel (DE2), D. K. Strapp (DKS), Dirk Wiederstein (DW), Daniel Yansura (DY), Dr. E. Sheffield (ES), H. Manus (HM), John Knouse (JK), Joyce Miller (JM), Kevin Briegel (KB), Kylie Stocks (KS), Lois Rossten (LR), Mike Freeman (MF), Neville Crawford (NC), Phyllis Bates (PB), Richard Brinkman (RB), Richard Carl (RC), Ro Walraven (RW), Stephen McDaniel (SMD), Sheila Tiffin (ST), Tom Richardson (TR), and Walter Pharr (WP).

Donor names have been lost for the following: (BB), (BK), (CY), (DA), (DH), (DL), (KM), (NT), (RS), and (SF). If you know who any of these are, please contact the spore curator.

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### *We are in need of fresh spores.*

If you are interested in donating spores, please follow the instructions above or visit our spore collecting page on the website.

# AFS Spore Exchange List as of 25-Nov-2012

Listed below is a snapshot of the entire spore bank inventory. It is arranged alphabetically by botanical name and includes unique order numbers to simplify requesting and processing orders. The numbers also allow easy name changes if an unknown fern is identified or if the botanical name is updated.

## Key to column headings:

**Most rcnt dt-donor:** The year and donor initials of the most recent spore donation.

**Packets rcnt (tot):** The number of spore packets available of the most recent donation and the total number of packets available including past donations. Each packet contains approximately 3 to 15 cubic millimeters of spores (several thousand spores). Those marked as “few spores” in the notes column contain less than 2 cubic millimeters.

**Fr SZ:** Approximate maximum frond size. Very Small = less than 4 inches; Small = 4 inches to 1 foot; Medium = 1 to 3 feet; Large = 3 to 6 feet; Very Large = greater than 6 feet.

**USDA Zone:** Minimum and maximum growing zones based on many books and the internet. If different sources gave different zone ranges, the warmest cold range and the coolest warm range were used. Zones with question marks are estimates based on the climate of the fern’s most northern boreal range or southern austral range, taking into account a 2 degree Celsius temperature drop for each 1000 ft of elevation. Hardiness comments in the notes column give the coldest winter temperature the cultivated fern is known to survive, as reported by the donor.

**Notes:** Common synonyms and miscellaneous notes.

| Order Num | Genus        | species         | variant        | Most rcnt dt - donor | Packets rcnt (tot) | Fr SZ | USDA Zone | Notes                                      |
|-----------|--------------|-----------------|----------------|----------------------|--------------------|-------|-----------|--|
| 6         | Adiantum     | aethiopicum     |                | 2004 - JM            | 12 (12)            | SM    | 8--       |  |
| 7         | Adiantum     | aleuticum       |                | 2012 - BA            | 3 (3)              | SM    | 4--8      | Adiantum pedatum subsp. Aleuticum          |
| 12        | Adiantum     | aleuticum       | Subpumilum     | 2012 - BA            | 3 (3)              | S     | 6--8      | Greenhouse grown, low light.               |
| 20        | Adiantum     | caudatum        |                | 2008 - BA            | 1 (11)             | SM    | 9--       |  |
| 25        | Adiantum     | diaphanum       |                | 2012 - BA            | 2 (2)              | S     | 8--       | Few spores per packet.                     |
| 32        | Adiantum     | hispidulum      |                | 2012 - BA            | 3 (3)              | S     | 8--11     |  |
| 90        | Adiantum     | tenerum         |                | 2005 - BA            | 1 (1)              | SM    | 10--      | Collected in Puerto Rico.                  |
| 106       | Adiantum     | venustum        |                | 2012 - BA            | 18 (18)            | S     | 5--8      |  |
| 118       | Alsophila    | polystichoides  |                | 2008 - DY            | 7 (7)              | VL    | 13?--     | Syn: Nephrolepis polystichoides            |
| 128       | Anemia       | phyllitidis     |                | 2005 - RS            | 15 (20)            | SM    | 9--       |  |
| 129       | Anemia       | phyllitidis     | large form     | 2010 - BA            | 19 (19)            | M     | 9--       |  |
| 131       | Anemia       | tomentosa       |                | 2010 - *             | 10 (20)            | SM    | 8--9      | * Most recent donation by Cal. State Univ. |
| 134       | Angiopteris  | evecta          |                | 2007 - DY            | 10 (10)            | VL    | 11--      |  |
| 139       | Arachniodes  | aristata        |                | 2009 - BJH           | 8 (8)              | M     | 6--8      | Syn: Polystichum aristatum                 |
| 142       | Arachniodes  | davalliaeforme  |                | 2012 - BA            | 30 (42)            | S     | 7--10     | Aspidum aristatum var. davalliaeforme      |
| 146       | Arachniodes  | miqueliana      |                | 2012 - BA            | 6 (16)             | M     | 5--8      |  |
| 151       | Arachniodes  | simplicior      | variegata      | 2012 - BA            | 40 (86)            | M     | 7--       |  |
| 158       | Arthropteris | monocarpa       |                | 2010 - LR            | 6 (6)              | SM    | 11?--     |  |
| 165       | Asplenium    | adiantum-nigrum |                | 2010 - BA            | 20 (36)            | S     | 7--9      |  |
| 173       | Asplenium    | antiquum        |                | 2006 - DE            | 12 (12)            | M     | 10?--     |  |
| 176       | Asplenium    | auritum         | bipinnatifidum | 2010 - BA            | 5 (5)              | SM    | 12?--     |  |
| 177       | Asplenium    | australasicum   |                | 2007 - DW            | 30 (34)            | L     | 9--       | Asplenium australis in hort.               |
| 210       | Asplenium    | flexuosum?      |                | 2006 - DKS           | 2 (2)              |       | 11?--     | “Weeping, Lord Howe”                       |
| 220       | Asplenium    | hemionitis      |                | 2008 - BA            | 1 (1)              | S     | 9--       |  |
| 225       | Asplenium    | incisum?        |                | 2010 - BA            | 15 (15)            | S     | --        | Hardy to at least 20F. From Yantai China.  |
| 229       | Asplenium    | juglandifolium  |                | 2010 - BA            | 9 (22)             | ML    | 12?--     |  |
| 243       | Asplenium    | marinum         |                | 2008 - BA            | 5 (5)              | S     | 9--       |  |
| 253       | Asplenium    | nidus           |                | 2006 - ?             | 8 (8)              | ML    | 9--11     |  |
| 261       | Asplenium    | oblongifolium   |                | 2007 - BJH           | 6 (13)             | ML    | 8--       | Syn: Asplenium lucidum                     |
| 264       | Asplenium    | ocoense         |                | 2010 - BA            | 3 (3)              | M     | 12?--     | Origin: Puerto Rico.                       |
| 267       | Asplenium    | pekinense       |                | 2010 - BA            | 7 (7)              | S     | 6--9      | From Kunming China.                        |

| Order Num | Genus         | species                   | variant        | Most rcnt dt - donor | Packets rcnt (tot) | Fr SZ | USDA Zone | Notes  |
|-----------|---------------|---------------------------|----------------|----------------------|--------------------|-------|-----------|--|
| 268       | Asplenium     | phyllitidis               |                | 2007 - NT            | 3 (3)              | L     | --        | Syn: Asplenium nidus var. phyllitidis        |
| 274       | Asplenium     | polyodon                  |                | 2010 - BB            | 1 (1)              | M     | 11?--     | Syn: Asplenium falcatum. Few spores/pkt.     |
| 287       | Asplenium     | ruta-muraria              |                | 2010 - BA            | 10 (10)            | VS    | 4--8      |  |
| 301       | Asplenium     | sp. 1                     |                | 2012 - BA            | 10 (10)            | S     | --        |  |
| 304       | Asplenium     | surrogatum                |                | 2009 - BA            | 3 (15)             | M     | 9?--      | Syn: Asplenium mayii in hort.                |
| 307       | Asplenium     | trichomanes               |                | 2012 - BA            | 10 (31)            | S     | 3--9      |  |
| 333       | Astrolepis    | sinuata                   |                | 2005 - ?             | 8 (8)              | SM    | 8--9      | Syn: Cheilanthes sinuata, Notholaena sinuata |
| 335       | Athyrium      | alpestre                  |                | 2006 - BA            | 11 (11)            | M     | 5--9      | Syn: Athyrium distentifolium var.americanum  |
| 336       | Athyrium      | angustum                  |                | 2004 - KB            | 12 (12)            | M     | 2--9      | Syn: Athyrium filix-femina var. angustum     |
| 337       | Athyrium      | angustum                  | Lady In Red    | 2009 - BA            | 9 (11)             | M     | 4--       | Syn: A. filix-femina cv. Lady In Red         |
| 343       | Athyrium      | cyclosorum                |                | 2012 - BA            | 20 (20)            | ML    | 5--8      | Syn: Athyrium filix-femina var. cyclosorum   |
| 349       | Athyrium      | filix-femina              |                | 2008 - ?             | 2 (14)             | M     | 4--8      |  |
| 367       | Athyrium      | filix-femina              | Frizelliae     | 2012 - BA            | 15 (15)            | S     | 4--8      |  |
| 391       | Athyrium      | filix-femina              | Victoriae      | 2010 - BA            | 8 (8)              | M     | 4--8      |  |
| 394       | Athyrium      | x 'Ghost'                 |                | 2006 - BJH           | 30 (45)            | ML    | 4--       | A. niponicum cv. Pictum x A. filix-femina    |
| 402       | Athyrium      | niponicum                 |                | 2005 - KB            | 15 (18)            | M     | 4--9      |  |
| 403       | Athyrium      | niponicum                 | Burgundy       | 2005 - BJH           | 10 (10)            | M     | 4--       |  |
| 408       | Athyrium      | niponicum                 | Pictum         | 2008 - ?             | 6 (15)             | M     | 4--       |  |
| 422       | Athyrium      | sp. 1 Zhejiang China      |                | 2012 - BA            | 15 (19)            | L     | --        | Hardy to at least 18F.                       |
| 440       | Blechnum      | australe                  |                | 2012 - BA            | 12 (37)            | SM    | 8--9      |  |
| 441       | Blechnum      | australe                  | Red Form       | 2006 - BJH           | 15 (15)            | SM    | 8--9      |  |
| 444       | Blechnum      | brasiliense               |                | 2012 - BA            | 12 (22)            | ML    | 9--       |  |
| 454       | Blechnum      | cycadifolium              |                | 2010 - DH            | 49 (49)            | ML    | 10?--     | Wild collected Juan Fernandez Islands.       |
| 455       | Blechnum      | discolor                  |                | 2005 - ?             | 10 (10)            | M     | 8--9      | Wild collected Kepler Track, NZ.             |
| 456       | Blechnum      | divergens                 |                | 2005 - BA            | 5 (5)              | SM    | 10?--     | Wild collected Puerto Rico.                  |
| 458       | Blechnum      | falciforme                |                | 2010 - DY            | 20 (20)            | L     | 9--       |  |
| 461       | Blechnum      | fragile                   |                | 2005 - BA            | 5 (5)              | M     | 11?--     | Syn: Blechnum binervatum ssp. Fragile        |
| 464       | Blechnum      | gibbum                    | Silver Lady    | 2008 - ?             | 4 (4)              | M     | 10--      |  |
| 465       | Blechnum      | gracile                   |                | 2007 - BJH           | 8 (8)              | S     | 10?--     |  |
| 480       | Blechnum      | penna-marina              |                | 2012 - BA            | 18 (30)            | S     | 5--8      |  |
| 489       | Blechnum      | sp. S. Africa             |                | 2006 - DKS           | 3 (3)              |       | --        | Few spores per packet.                       |
| 490       | Blechnum      | spicant                   |                | 2008 - DY            | 12 (12)            | M     | 5--8      |  |
| 526       | Botrychium    | virginianum               |                | 2005 - KB            | 20 (50)            | SM    | 3--9      |  |
| 530       | Camptosorus   | sibiricus                 |                | 2012 - BA            | 5 (7)              | S     | 4--8      | Syn: Asplenium ruprechtii                    |
| 531       | Campyloneurum | angustifolium             |                | 2012 - BA            | 15 (22)            | M     | 9--       |  |
| 537       | Campyloneurum | phyllitidis               |                | 2004 - BA            | 10 (13)            | M     | 9--       |  |
| 556       | Cheilanthes   | argentea                  |                | 2012 - BA            | 15 (23)            | S     | 5--8      | Syn: Aleuritopteris argentea                 |
| 565       | Cheilanthes   | eatonii                   |                | 2012 - BA            | 10 (25)            | S     | 6--8      |  |
| 574       | Cheilanthes   | gracillima                |                | 2010 - BA            | 11 (11)            | S     | 5--8      | Collected in S. Oregon at 7000 ft.           |
| 607       | Cheilanthes   | wootonii                  |                | 2012 - BA            | 8 (8)              | S     | 8--9      |  |
| 611       | Cibotium      | barometz                  |                | 2007 - BJH           | 40 (40)            | VL    | 12?--     |  |
| 622       | Coniogramme   | sp. 1 Chengdu China       |                | 2012 - BA            | 4 (8)              | VL    | --        | Hardy to at least 25F.                       |
| 623       | Coniogramme   | "sp. 2 Stone Forest, Ch." |                | 2012 - BA            | 7 (13)             |       | --        | Hardy to at least 30F.                       |
| 637       | Culcita       | coniifolia                |                | 2006 - DY            | 5 (5)              | VL    | --        | Subtropical.                                 |
| 643       | Cyathea       | arborea                   |                | 2012 - RW            | 8 (50)             | VL    | 11--      |  |
| 645       | Cyathea       | atrox                     |                | 2012 - RW            | 40 (40)            | VL    | 10?--11   | Syn: Sphaeropteris atrox                     |
| 646       | Cyathea       | australis                 |                | 2012 - RW            | 50 (50)            | VL    | 9--       | Syn: Alsophila australis                     |
| 650       | Cyathea       | brownii                   |                | 2012 - DY            | 55 (180)           | VL    | 10--      | Syn: Sphaeropteris excelsa                   |
| 653       | Cyathea       | contaminans               |                | 2012 - RW            | 30 (65)            | VL    | 12?--     | Syn: Sphaeropteris glauca                    |
| 654       | Cyathea       | cooperi                   |                | 2010 - TR            | 10 (30)            | VL    | 10--11    | Syn: Sphaeropteris cooperi                   |
| 656       | Cyathea       | cooperi                   | Brentwood      | 2006 - LR            | 1 (70)             | VL    | 10?--     |  |
| 661       | Cyathea       | cooperi                   | Highland Lace  | 2010 - BJH           | 10 (10)            | VL    | 10?--     |  |
| 665       | Cyathea       | cooperi                   | Single Crested | 2012 - KS            | 30 (30)            | VL    | 10?--     |  |
| 666       | Cyathea       | cunninghamii              |                | 2012 - RW            | 15 (15)            | VL    | 9--       |  |
| 667       | Cyathea       | dealbata                  |                | 2006 - BJH           | 100 (100)          | VL    | 9--11     |  |

| Order Num | Genus         | species              | variant       | Most rcnt dt - donor | Packets rcnt (tot) | Fr SZ | USDA Zone | Notes  |
|-----------|---------------|----------------------|---------------|----------------------|--------------------|-------|-----------|--|
| 673       | Cyathea       | felina               |               | 2006 - NC            | 29 (29)            | VL    | 11?--     | Syn: Sphaeropteris concinna                    |
| 674       | Cyathea       | fulva                |               | 2010 - DY            | 49 (49)            | VL    | 9--10     |  |
| 677       | Cyathea       | glauca               |               | 2012 - RW            | 6 (6)              | VL    | 12?--     | Syn: Alsophila glaucifolia. Few spores/pkt.    |
| 680       | Cyathea       | incisoserrata        |               | 2006 - NC            | 9 (9)              | VL    | 10--      | Syn: Alsophila inciso-serrata                  |
| 683       | Cyathea       | latebrosa            |               | 2012 - RW            | 15 (15)            | VL    | 10--      | Syn: Alsophila latebrosa                       |
| 684       | Cyathea       | leichhardtiana       |               | 2012 - KS            | 50 (50)            | VL    | 10--      | Syn: Alsophila l., Sphaeropteris australis     |
| 685       | Cyathea       | lepifera             |               | 2005 - LR            | 49 (49)            | VL    | 10--      | Syn: Sphaeropteris lepifera                    |
| 686       | Cyathea       | lunulata             |               | 2007 - BJH           | 25 (65)            | VL    | 12?--     | Syn: Sphaeropteris lunulata                    |
| 687       | Cyathea       | lunulata             | vitiensis     | 2010 - TR            | 3 (3)              | VL    | 12?--     |  |
| 690       | Cyathea       | medullaris           |               | 2012 - RW            | 15 (200)           | VL    | 10--11    | Syn: Sphaeropteris medullaris                  |
| 693       | Cyathea       | milnei               |               | 2012 - RW            | 25 (25)            | VL    | 10--      |  |
| 695       | Cyathea       | myosuroides          |               | 2007 - RB            | 29 (29)            | VL    | 13?--     |  |
| 696       | Cyathea       | novae-caledoniae     |               | 2007 - BJH           | 9 (9)              | VL    | 10--      | Syn: Sphaeropteris novae-caledoniae            |
| 698       | Cyathea       | parvula              |               | 2012 - RW            | 12 (12)            | VL    | 11?--     | Syn: Alsophila parvula                         |
| 703       | Cyathea       | robusta              |               | 2005 - LR            | 25 (25)            | VL    | 10--      |  |
| 706       | Cyathea       | smithii              |               | 2012 - RW            | 9 (9)              | VL    | 9--       |  |
| 707       | Cyathea       | sp. 1 blue stems PNG |               | 2006 - NC            | 39 (39)            |       | --        |  |
| 708       | Cyathea       | sp. 2 small slow     |               | 2006 - NC            | 14 (14)            |       | --        |  |
| 709       | Cyathea       | sp. black croziers.  |               | 2012 - TR            | 20 (20)            |       | --        |  |
| 710       | Cyathea       | sp. from PNG         |               | 2009 - NC            | 9 (9)              |       | --        | "Large fast growing"                           |
| 711       | Cyathea       | sp. Orange croziers  |               | 2012 - RW            | 50 (50)            |       | --        |  |
| 712       | Cyathea       | spinulosa            |               | 2012 - RW            | 12 (30)            | VL    | 10--      | Syn: Alsophila spinulosa. "From Sikkim India." |
| 713       | Cyathea       | squarrosa            |               | 2012 - RW            | 40 (40)            | VL    | 13?--     | Syn: Hemitelia squarrosa                       |
| 716       | Cyathea       | tomentosissima       |               | 2012 - RW            | 29 (34)            | VL    | 9--       | Syn: Sphaeropteris tomentosissima              |
| 717       | Cyathea       | truncata             |               | 2010 - TR            | 2 (2)              | VL    | 12?--     | Syn: Sphaeropteris truncata. Few spores/pkt.   |
| 718       | Cyathea       | vaupelii             |               | 2010 - TR            | 2 (2)              | VL    | 12?--     | Syn: Sphaeropteris vaupelii. Few spores/pkt    |
| 720       | Cyathea       | viellardii?          |               | 2010 - TR            | 1 (1)              |       | --        | Few spores/packet.                             |
| 721       | Cyathea       | woollsiana           |               | 2012 - KS            | 15 (15)            | VL    | 10--      | Syn: Alsophila woollsiana                      |
| 726       | Cyrtomium     | caryotideum          |               | 2012 - BA            | 15 (15)            | M     | 6--10     |  |
| 727       | Cyrtomium     | caryotideum          | Dark midribs  | 2012 - BA            | 30 (30)            | M     | 6--       |  |
| 730       | Cyrtomium     | falcatum             |               | 2012 - BA            | 10 (28)            | M     | 7--10     | From Hanakapiai beach, Kauai.                  |
| 734       | Cyrtomium     | falcatum             | Mayi          | 2006 - BJH           | 6 (6)              | M     | 7?--      |  |
| 735       | Cyrtomium     | falcatum             | Rochfordianum | 2010 - DE            | 20 (20)            | SM    | 7?--      |  |
| 737       | Cyrtomium     | fortunei             |               | 2012 - BA            | 10 (25)            | M     | 6--10     |  |
| 744       | Cyrtomium     | macrophyllum         |               | 2010 - BA            | 10 (11)            | SM    | 6--10     |  |
| 745       | Cyrtomium     | sp. 1 Chengdu China  |               | 2012 - BA            | 29 (29)            | M     | --        | Hardy to at least 18F.                         |
| 751       | Cystopteris   | fragilis             |               | 2010 - BA            | 6 (6)              | S     | 2--9      | Collected in S. Oregon at 7000 ft.             |
| 768       | Davallia      | divaricata           |               | 2012 - BA            | 6 (10)             | ML    | 12?--     | Syn: Araiostegia divaricata                    |
| 775       | Davallia      | heterophylla         |               | 2012 - BA            | 5 (5)              | S     | 11?--     | Syn: Humata heterophylla                       |
| 785       | Davallia      | sp. 1                |               | 2012 - BA            | 12 (12)            | SM    | --        |  |
| 805       | Deparia       | acrostichoides       |               | 2004 - KB            | 8 (25)             | ML    | 4--9      | Syn: Athyrium thelypteroides, Diplazium a.     |
| 812       | Dicksonia     | antarctica           |               | 2012 - TR            | 15 (15)            | VL    | 8--10     | Zone 8 with protection.                        |
| 814       | Dicksonia     | fibrosa              |               | 2011 - DY            | 5 (15)             | VL    | 9--10     |  |
| 817       | Dicksonia     | sellowiana           |               | 2005 - KB            | 5 (5)              | ML    | 10--      | Syn: Dicksonia gigantea                        |
| 819       | Dicksonia     | squarrosa            |               | 2010 - TR            | 7 (7)              | VL    | 10--      | "South Island, NZ"                             |
| 820       | Dicksonia     | thyrsopteroides      |               | 2010 - TR            | 13 (13)            | L     | 10?--     |  |
| 821       | Dicksonia     | youngiae             |               | 2012 - RW            | 19 (19)            | VL    | 10--      |  |
| 827       | Didymochlaena | truncatula           |               | 2006 - DE            | 2 (2)              | M     | 11?--     |  |
| 844       | Diplazium     | l'herminieri         |               | 2005 - BA            | 1 (1)              | VL    | 11?--     | Wild collected in Puerto Rico.                 |
| 845       | Diplazium     | lonchophyllum        |               | 2010 - BB            | 1 (1)              | M     | 9--       | Few spores/packet.                             |
| 2006      | Diplazium     | maximum              |               | 2012 - BH            | 6 (6)              | L     | --        | Syn: Allantodia maxima. Few spores per pkt.    |
| 852       | Diplazium     | pycnocarpon          |               | 2009 - ?             | 30 (50)            | ML    | 4--9      | Syn: Athyrium pycnocarpon                      |
| 423       | Diplazium     | sp. 1 Nanning China  |               | 2012 - BA            | 5 (5)              |       | --        | Hardy to at least 40F.                         |
| 859       | Diplazium     | subsinuatum          |               | 2012 - BA            | 15 (21)            | SM    | 8--10     | Syn: Athyrium dubium, D. lanceum               |
| 874       | Doodia        | caudata?             |               | 2006 - DKS           | 12 (12)            |       | --        | Collected in South Africa.                     |

| Order Num | Genus         | species                | variant              | Most rcnt dt - donor | Packets rcnt (tot) | Fr SZ | USDA Zone | Notes  |
|-----------|---------------|------------------------|----------------------|----------------------|--------------------|-------|-----------|--|
| 887       | Doryopteris   | palmata                |                      | 2010 - BA            | 8 (8)              | S     | 9--       | Syn: Doryopteris pedata var. palmata             |
| 889       | Doryopteris   | pilosa                 |                      | 2007 - DE            | 5 (5)              | S     | 11--11    | Doryopteris cordata in horticulture.             |
| 896       | Drynaria      | sparsisora             |                      | 2012 - BA            | 8 (8)              | L     | 11?--     |  |
| 900       | Dryopteris    | affinis                |                      | 2012 - BA            | 24 (24)            | L     | 4--8      | Syn: Dryopteris abbreviata, D. pseudomas         |
| 913       | Dryopteris    | affinis                | Crispa Gracilis      | 2012 - BA            | 15 (17)            | S     | 4--       |  |
| 933       | Dryopteris    | affinis                | Stableri Crisped     | 2010 - BA            | 20 (20)            | L     | 4--       |  |
| 940       | Dryopteris    | arguta                 |                      | 2009 - DY            | 8 (18)             | M     | 8--9      |  |
| 947       | Dryopteris    | bissetiana             |                      | 2006 - BJH           | 10 (10)            | M     | 5--8      | Syn: Dryopteris setosa                           |
| 928       | Dryopteris    | borreri                | Polydactyla Dadds    | 2012 - BH            | 2 (2)              | L     | 4?--8?    | D. affinis ssp. borreri 'P.. Dadds'. Few spores. |
| 952       | Dryopteris    | carthusiana            |                      | 2012 - JK            | 30 (30)            | M     | 2--7      | Syn: Dryopteris spinulosa                        |
| 957       | Dryopteris    | championii             |                      | 2012 - BA            | 15 (15)            | M     | 5--8      | origin: Nanjing China.                           |
| 959       | Dryopteris    | clintoniana            |                      | 2011 - RC            | 1 (1)              | M     | 3--8      | D. goldiana x D. cristata                        |
| 967       | Dryopteris    | corleyi                |                      | 2012 - BA            | 30 (48)            | M     | 8--       | D. aemula x D. oreades                           |
| 968       | Dryopteris    | crassirhizoma          |                      | 2010 - DE            | 3 (11)             | L     | 5--8      |  |
| 972       | Dryopteris    | cristata               |                      | 2012 - JK            | 30 (80)            | M     | 3--9      | Wild collected in Beaumont, Ohio.                |
| 989       | Dryopteris    | erythrosora            |                      | 2010 - BJH           | 1 (1)              | M     | 6--9      |  |
| 991       | Dryopteris    | erythrosora            | red form             | 2007 - BJH           | 4 (4)              | M     | 6--       | "Japan"  |
| 995       | Dryopteris    | filix-mas              |                      | 2012 - BA            | 40 (40)            | L     | 4--8      |  |
| 1011      | Dryopteris    | filix-mas              | Fluctuosa Cristata   | 2012 - BA            | 7 (7)              | SM    | 4?--      |  |
| 2009      | Dryopteris    | filix-mas              | Incisa Cristata      | 2012 - BH            | 1 (1)              |       | 4?--      | Few spores per packet.                           |
| 1018      | Dryopteris    | filix-mas              | Linearis Polydactyla | 2012 - BA            | 19 (19)            | L     | 4--       |  |
| 1033      | Dryopteris    | formosana              |                      | 2010 - BA            | 12 (20)            | M     | 6--9      |  |
| 1036      | Dryopteris    | fuscipes               |                      | 2006 - BJH           | 10 (10)            | M     | 7--11     |  |
| 1037      | Dryopteris    | fusco-atra             |                      | 2005 - BA            | 5 (5)              | M     | --        | Hardy to at least 20F.                           |
| 1042      | Dryopteris    | goldiana               |                      | 2012 - JK            | 12 (22)            | L     | 3--8      |  |
| 1048      | Dryopteris    | hawaiiensis            |                      | 2010 - DE            | 19 (39)            | ML    | 8?--      |  |
| 1053      | Dryopteris    | intermedia             |                      | 2012 - JK            | 30 (30)            | M     | 3--8      | Syn: D. spinulosa var. intermedia                |
| 1064      | Dryopteris    | marginalis             |                      | 2012 - JK            | 30 (55)            | M     | 3--8      |  |
| 1069      | Dryopteris    | munchii                |                      | 2009 - BJH           | 1 (9)              | M     | 7--11     |  |
| 1076      | Dryopteris    | pacifica               |                      | 2012 - BA            | 40 (40)            | M     | 6--       |  |
| 1085      | Dryopteris    | purpurella             |                      | 2009 - BA            | 6 (27)             | SM    | 5--9      | Syn: D. erythrosora var. purpurascens            |
| 1087      | Dryopteris    | ramosa                 |                      | 2012 - BA            | 18 (18)            | L     | 6--       |  |
| 1096      | Dryopteris    | sieboldii              |                      | 2011 - BA            | 19 (19)            | SM    | 7--9      |  |
| 1102      | Dryopteris    | sp. 3 Nanjing China    |                      | 2012 - BA            | 24 (24)            | M     | --        | Hardy to at least 18F.                           |
| 1103      | Dryopteris    | sp. 4 Zijin Mtn. China |                      | 2012 - BA            | 9 (9)              | M     | --        | Hardy to at least 18F.                           |
| 1104      | Dryopteris    | sp. 5 Kunming China    |                      | 2012 - BA            | 24 (24)            | M     | --        | Maybe D. sublacera. Hardy <= 18F.                |
| 1109      | Dryopteris    | stenolepis?            |                      | 2012 - BA            | 19 (19)            | L     | 8--       |  |
| 1111      | Dryopteris    | subarborea             |                      | 2011 - DY            | 14 (24)            | VL    | 12?--     |  |
| 1113      | Dryopteris    | tokyoensis             |                      | 2012 - BA            | 19 (43)            | ML    | 4--8      |  |
| 1118      | Dryopteris    | uniformis              |                      | 2007 - BJH           | 25 (25)            | S     | 5--8      |  |
| 1124      | Dryopteris    | wallichiana            |                      | 2006 - BJH           | 20 (20)            | L     | 6--10     | Syn: D. paleacea, D. parallelogramma             |
| 1128      | Elaphoglossum | apodum                 |                      | 2012 - BA            | 6 (6)              | S     | 12?--     |  |
| 1131      | Elaphoglossum | crinitum               |                      | 2007 - ES            | 20 (46)            | SM    | 12?--     | Syn: Hymenodium crinitum                         |
| 1132      | Elaphoglossum | decoratum              |                      | 2006 - BJH           | 2 (2)              | S     | 12?--     |  |
| 1139      | Elaphoglossum | metallicum             |                      | 2011 - DY            | 10 (10)            | S     | 10?--     |  |
| 1141      | Elaphoglossum | nigrescens             |                      | 2010 - DY            | 3 (3)              | SM    | 11?--     |  |
| 1143      | Elaphoglossum | paleaceum              |                      | 2011 - DY            | 3 (3)              | SM    | --        |  |
| 1145      | Elaphoglossum | peltatum               |                      | 2007 - DY            | 1 (1)              | VS    | 11?--     | Syn: Peltapteris peltata                         |
| 1152      | Elaphoglossum | sp. blue from Brazil   |                      | 2006 - PB            | 4 (4)              |       | --        |  |
| 1174      | Gymnocarpium  | jessoense              |                      | 2012 - BA            | 5 (11)             | S     | 3--       |  |
| 1177      | Hemidictyum   | marginatum             |                      | 2007 - BA            | 4 (4)              | VL    | 12?--     |  |
| 1201      | Lastreopsis   | effusa                 |                      | 2007 - BJH           | 20 (20)            | M     | 11?--     |  |
| 1212      | Lecanopteris  | sinuosa                |                      | 2009 - BA            | 5 (11)             | S     | 11?--     | Syn: Myrmecopteris sinuosa                       |
| 1215      | Lemmaphyllum  | microphyllum           |                      | 2010 - BB            | 1 (1)              | VS    | 9--       | Few spores per packet.                           |
| 1239      | Llavea        | cordifolia             |                      | 2010 - BB            | 1 (1)              | M     | 11?--     | Few spores per packet.                           |



| Order Num | Genus            | species             | variant          | Most rcnt dt - donor | Packets rcnt (tot) | Fr SZ | USDA Zone | Notes  |
|-----------|------------------|---------------------|------------------|----------------------|--------------------|-------|-----------|--|
| 1245      | Lophosoria       | quadripinnata       |                  | 2011 - DY            | 10 (10)            | VL    | 9--       |  |
| 1263      | Lygodium         | japonicum           |                  | 2010 - DE            | 2 (9)              | VL    | 7--10     |  |
| 1271      | Macrothelypteris | torresiana          |                  | 2007 - BJH           | 20 (20)            | L     | 8--10     | Syn: Thelypteris torresiana, T. uliginosa      |
| 1283      | Matteuccia       | struthiopteris      |                  | 2011 - RC            | 5 (5)              | VL    | 2--8      | Syn: M. pensylvanica, Pteritis nodulosa        |
| 1288      | Microgramma      | lycopodioides       |                  | 2012 - BA            | 9 (9)              | S     | 10--      |  |
| 1290      | Microgramma      | percussa            |                  | 2012 - BA            | 10 (14)            | S     | 10--      | Syn: Pleopeltis percussa                       |
| 1295      | Microlepia       | marginata           |                  | 2012 - BA            | 10 (14)            | SM    | 9?--      |  |
| 1296      | Microlepia       | platyphylla         |                  | 2007 - BJH           | 10 (30)            | L     | 9--       |  |
| 1298      | Microlepia       | speluncae           |                  | 2006 - BJH           | 3 (3)              | ML    | 10--      | Wild collected in Hilo Hawaii.                 |
| 1306      | Microsorium      | fortunei            |                  | 2009 - BA            | 2 (4)              | M     | 9--11     | Syn: Polypodium normale                        |
| 1310      | Microsorium      | lucidum             |                  | 2012 - BA            | 40 (40)            | SM    | 9--       | Phymatosorus cuspidatus                        |
| 1313      | Microsorium      | membranifolium      |                  | 2010 - BA            | 8 (8)              | M     | 11?--     | Syn: M. alternifolium, Phymatosorus nigrescens |
| 1324      | Microsorium      | pustulatum          |                  | 2012 - BA            | 10 (20)            | SM    | 9--       | Syn: Microsorium diversifolium                 |
| 1325      | Microsorium      | scandens            |                  | 2008 - DE            | 8 (8)              | SM    | 10--      |  |
| 1327      | Microsorium      | scolopendria        |                  | 2010 - BB            | 1 (1)              | M     | 11--      | Syn: Polypodium scolopendrium. Few spores.     |
| 1330      | Microsorium      | thailandicum        |                  | 2012 - BA            | 3 (3)              | S     | 12?--     | Few spores per packet.                         |
| 1332      | Microsorium      | vieillardii         |                  | 2012 - BA            | 9 (23)             | M     | 12?--     | Syn: Phymatodes vieillardii                    |
| 1338      | Neocheiropteris  | palmatopedata       |                  | 2006 - BJH           | 30 (30)            | M     | 10?--     | Syn: Microsorium palmatopedatum                |
| 1383      | Onychium         | sp. 1 Kunming China |                  | 2012 - BA            | 20 (20)            | L     | --        | Hardy to at least 22F.                         |
| 1413      | Pecluma          | sp. 1 Puerto Rico   |                  | 2012 - BA            | 4 (4)              | M     | 12?--     | Probably Pecluma pectinata.                    |
| 1418      | Pellaea          | cordifolia          |                  | 2006 - BJH           | 5 (5)              | SM    | 8--11     | Syn: Pellaea cordata, P. sagittata v. cordata  |
| 1429      | Pellaea          | ovata               |                  | 2012 - BA            | 15 (25)            | M     | 8--10     |  |
| 1432      | Pellaea          | rotundifolia        |                  | 2012 - BA            | 6 (6)              | S     | 8--11     |  |
| 1438      | Pellaea          | viridis             |                  | 2010 - LR            | 19 (19)            | SM    | 10--      | Syn: Cheilanthes viridis, Pellaea hastata      |
| 1441      | Pellaea          | wrightiana          |                  | 2012 - BA            | 2 (6)              | SM    | 7--9      | P. truncata x P. ternifolia                    |
| 1452      | Phlebodium       | aureum              |                  | 2010 - HM            | 5 (12)             | L     | 9--       | Syn: Polypodium aureum var. aureum             |
| 1455      | Phlebodium       | aureum              | Ekstrand         | 2010 - HM            | 10 (20)            | L     | 9?--      |  |
| 1458      | Phlebodium       | aureum              | Mexican Tasseled | 2010 - HM            | 5 (5)              | M     | 9?--      |  |
| 1459      | Phlebodium       | decumanum           |                  | 2010 - HM            | 5 (5)              | L     | 10--      | Syn: Polypodium decumanum                      |
| 1463      | Phyllitis        | scolopendrium       |                  | 2012 - BA            | 12 (12)            | M     | 4--10     | Syn: Asplenium scolopendrium                   |
| 1481      | Phyllitis        | scolopendrium       | Kaye's Lacerate  | 2010 - BA            | 10 (17)            | S     | 4?--      |  |
| 1482      | Phyllitis        | scolopendrium       | Laceratum        | 2012 - BA            | 7 (7)              | S     | 4?--      |  |
| 1498      | Pityrogramma     | calomelanos         |                  | 2008 - MF            | 6 (6)              | SM    | 10--      |  |
| 1511      | Platycterium     | bifurcatum          |                  | 2010 - BA            | 11 (11)            | M     | 10--      |  |
| 1515      | Platycterium     | bifurcatum          | Gresham          | 2010 - HM            | 19 (29)            | M     | 10?--     |  |
| 1518      | Platycterium     | bifurcatum          | Majus            | 2010 - HM            | 29 (29)            | M     | 10?--     |  |
| 1525      | Platycterium     | 'Celebes'           |                  | 2010 - HM            | 29 (29)            | SM    | 10?--     |  |
| 1526      | Platycterium     | coronarium          |                  | 2009 - ?             | 7 (9)              | L     | 12?--     | Syn: Platycterium biforme                      |
| 1527      | Platycterium     | elephantotis        |                  | 2011 - DC            | 8 (8)              | ML    | 12?--     | Syn: Platycterium angolense                    |
| 1528      | Platycterium     | ellisii             |                  | 2006 - CT            | 5 (5)              | M     | 12?--     | Syn: Platycterium diversifolium                |
| 1529      | Platycterium     | grande              |                  | 2011 - DC            | 7 (7)              | VL    | 12?--     |  |
| 1531      | Platycterium     | hillii†             | Bahia            | 2006 - DE2           | 5 (29)             | --    | --        | Probably P. hillii 'Bahia'.                    |
| 1537      | Platycterium     | ridleyi             |                  | 2011 - DC            | 9 (9)              | M     | 13?--     | Syn: Platycterium coronarium var. cucullatum   |
| 1540      | Platycterium     | superbum            |                  | 2010 - SMD           | 28 (33)            | VL    | 10--      | Syn: Platycterium grande var. tambourinense    |
| 1543      | Platycterium     | veitchii            |                  | 2009 - DE            | 7 (7)              | SM    | 10--      | Syn: Platycterium bifurcatum var. veitchii     |
| 1544      | Platycterium     | wallichii           |                  | 2009 - ?             | 2 (2)              | M     | 11?--     | Wild collected in Thailand.                    |
| 1545      | Platycterium     | wandae              |                  | 2011 - DC            | 8 (8)              | VL    | 12?--     |  |
| 1546      | Platycterium     | willinckii          |                  | 2010 - HM            | 19 (19)            | L     | 10?--     | Syn: P. bifurcatum willinckii, P. sumbawense   |
| 1548      | Platycterium     | willinckii          | Pygmaeum         | 2010 - HM            | 34 (34)            | SM    | 10?--     |  |
| 1551      | Pleocnemia       | macrodongta         |                  | 2007 - BJH           | 30 (30)            | L     | 13?--     |  |
| 1552      | Pleopeltis       | angustata           |                  | 2010 - BB            | 1 (1)              | SM    | 10?--     | Few spores per packet.                         |
| 1559      | Pneumatopteris   | pennigera           |                  | 2006 - ST            | 15 (15)            | L     | 9?--      |  |
| 1567      | Polypodium       | californicum        |                  | 2009 - DY            | 7 (7)              | SM    | 8--9      |  |
| 1590      | Polypodium       | glycyrrhiza         |                  | 2011 - CY            | 6 (6)              | SM    | 6--       | Syn: Polypodium vulgare var. occidentale       |
| 1591      | Polypodium       | glycyrrhiza         | Grandiceps       | 2011 - DE            | 6 (6)              | SM    | 6?--      |  |

| Order Num | Genus        | species                   | variant     | Most rcnt dt - donor | Packets rcnt (tot) | Fr SZ | USDA Zone | Notes   |
|-----------|--------------|---------------------------|-------------|----------------------|--------------------|-------|-----------|---|
| 1592      | Polypodium   | hesperium                 |             | 2012 - BA            | 10 (21)            | S     | 4--       | P. amorphum x P. glycyrrhiza                    |
| 1603      | Polypodium   | pellucidum                | pellucidum  | 2009 - BA            | 7 (7)              | SM    | 9?--      |   |
| 1615      | Polypodium   | scouleri                  |             | 2012 - BA            | 25 (31)            | SM    | 8--9      |   |
| 1618      | Polypodium   | squamatum                 |             | 2012 - BA            | 12 (12)            | M     | 10?--     | Syn: Pleopeltis squamata                        |
| 1620      | Polypodium   | virginianum               |             | 2009 - ?             | 4 (4)              | S     | 2--8      | Wild collected in Canaan Township, Ohio.        |
| 1632      | Polystichum  | acrostichoides            |             | 2012 - JK            | 25 (45)            | M     | 3--9      |   |
| 1642      | Polystichum  | andersonii                |             | 2012 - BA            | 25 (25)            | ML    | 6--8      |   |
| 1658      | Polystichum  | imbricans                 | imbricans   | 2010 - BA            | 11 (11)            | SM    | 5?--      | Collected in S. Oregon at 7000 ft.              |
| 1663      | Polystichum  | lonchitis                 |             | 2010 - BA            | 3 (9)              | M     | 3--8      |   |
| 1669      | Polystichum  | microchlamys              |             | 2005 - DW            | 20 (20)            | M     | 6?--      |   |
| 1672      | Polystichum  | munitum                   |             | 2012 - BA            | 40 (70)            | ML    | 7--9      |   |
| 1676      | Polystichum  | neolobatum                |             | 2012 - BA            | 40 (40)            | M     | 6--8      |   |
| 1678      | Polystichum  | plicatum                  |             | 2005 - SF            | 10 (10)            | SM    | 7?--      | Wild collected in Chile.                        |
| 1689      | Polystichum  | rigens                    |             | 2012 - BA            | 19 (36)            | M     | 5--8      |   |
| 1690      | Polystichum  | scopulinum                |             | 2010 - BA            | 11 (11)            | SM    | 4--8      | P. lemmonii x P. imbricans. Wild OR 7K ft.      |
| 1706      | Polystichum  | setiferum                 | Divisilobum | 2012 - BA            | 20 (20)            | ML    | 6--       |   |
| 1742      | Polystichum  | tetragonum                |             | 2005 - DY            | 5 (5)              | ML    | 10?--     |   |
| 1773      | Pteris       | argyreaea                 |             | 2010 - LR            | 4 (4)              | M     | 9--       | Syn: Pteris quadriaurita var. argentea          |
| 2005      | Pteris       | aspericaulis              |             | 2012 - BA            | 4 (4)              |       | --        |   |
| 1787      | Pteris       | cretica                   | Parkeri     | 2005 - BA            | 3 (3)              | M     | 8?--      |   |
| 1796      | Pteris       | ensifformis               |             | 2009 - BJH           | 12 (12)            | SM    | 9--10     |   |
| 1798      | Pteris       | ensifformis               | Victoriae   | 2010 - LR            | 5 (5)              | SM    | 9?--      |   |
| 1800      | Pteris       | fauriei                   |             | 2006 - BJH           | 2 (42)             | SM    | 9--       |   |
| 1802      | Pteris       | gallinopes                |             | 2012 - BA            | 10 (25)            | SM    | --        | Hardy to at least 18F.                          |
| 2008      | Pteris       | scabririgens              |             | 2012 - BH            | 5 (5)              | M     | 10?--     | Few spores per packet.                          |
| 1820      | Pteris       | semipinnata               |             | 2005 - BA            | 5 (5)              | M     | 8--       |   |
| 1821      | Pteris       | sp. 1                     |             | 2012 - BA            | 12 (12)            | M     | --        |   |
| 1823      | Pteris       | tremula                   |             | 2010 - DY            | 10 (10)            | L     | 8--11     |   |
| 1824      | Pteris       | tricolor                  |             | 2010 - BB            | 1 (1)              | M     | 11?--     | Syn: P. aspericaulis var. tricolor. Few spores. |
| 1827      | Pteris       | vittata                   |             | 2005 - KB            | 10 (10)            | M     | 8--       |   |
| 1830      | Pteris       | vittata                   | Macrophylla | 2005 - KB            | 2 (2)              |       | 8--       |   |
| 1831      | Pteris       | wallichiana               |             | 2012 - BH            | 8 (14)             | VL    | 9--       |   |
| 1842      | Pyrrosia     | lingua                    |             | 2012 - BA            | 15 (15)            | S     | 7--10     | Origin: Hong Kong                               |
| 1846      | Pyrrosia     | piloselloides             |             | 2010 - BA            | 6 (6)              | VS    | 11?--     | Syn: Drymoglossum piloselloides. Few spores.    |
| 1847      | Pyrrosia     | polydactyla               |             | 2007 - BA            | 5 (5)              | S     | 8--10     |   |
| 1852      | Pyrrosia     | stigmosa                  |             | 2010 - BB            | 1 (1)              | M     | --        | Few spores per packet.                          |
| 1853      | Pyrrosia     | subfurfuracea?            |             | 2012 - BA            | 20 (47)            | VL    | --        | Maybe P. calvata. Hardy to at least 30F.        |
| 1856      | Rumohra      | adiantiformis             |             | 2005 - SF            | 6 (6)              | M     | 8--10     | Syn: Polystichum adiantiforme. Wild, Chile.     |
| 1857      | Sadleria     | cyatheoides               |             | 2010 - DY            | 7 (7)              | VL    | 9--       |   |
| 1862      | Schaffneria  | nigripes                  |             | 2012 - BA            | 3 (3)              | S     | 13?--     | Syn: Asplenium nigripes. Few spores/pkt.        |
| 1872      | Selliguea    | feei                      |             | 2006 - DE            | 1 (1)              | S     | 9?--      |   |
| 1873      | Selliguea    | hastata                   |             | 2012 - BA            | 5 (5)              | SM    | 10--      | Syn: Crypsinus hastatus                         |
| 1876      | Serpocaulon  | dissimile                 |             | 2012 - BA            | 12 (24)            | ML    | 12?--     | Syn: Polypodium dissimile                       |
| 1880      | Serpocaulon  | "sp. 1 Porto-Alegre, Br." |             | 2012 - BA            | 15 (15)            | M     | 10--      |   |
| 1881      | Solanopteris | brunei                    |             | 2012 - BA            | 1 (2)              | S     | 11?--     | Few spores per packet.                          |
| 1894      | Stenochlaena | tenuifolia                |             | 2010 - BJH           | 30 (30)            | M     | 9--       |   |
| 2007      | Sticherus    | sp. 1 India               |             | 2012 - BH            | 2 (2)              |       | --        | Very few spores per packet.                     |
| 1909      | Tectaria     | coadunata                 |             | 2012 - BH            | 2 (2)              | L     | 10?--     | Few spores per packet.                          |
| 1916      | Tectaria     | hilocarpa                 |             | 2007 - BA            | 1 (3)              | S     | 13?--     | Syn: Hemigramma latifolia                       |
| 1924      | Tectaria     | sp. 1                     |             | 2007 - NT            | 1 (1)              |       | --        |   |
| 1926      | Tectaria     | trifoliata                |             | 2012 - BA            | 15 (28)            | L     | 12?--     |   |
| 1927      | Tectaria     | zeylanica                 |             | 2012 - BA            | 15 (42)            | S     | 9--       | Syn: Quercifilix zeylanica                      |
| 1934      | Thelypteris  | cheilanthoides            |             | 2012 - BA            | 6 (6)              | L     | --        | Amauropelta cheilanthoides                      |
| 1937      | Thelypteris  | dentata                   |             | 2010 - BB            | 2 (2)              | M     | 8--       | Syn: Christella dentata, Cyclosorus dentatus    |
| 1940      | Thelypteris  | guadalupensis             |             | 2007 - BA            | 6 (6)              | SM    | 12?--     | Syn: Cyclosorus guadalupensis                   |

| Order Num | Genus       | species              | variant    | Most rcnt dt - donor | Packets rcnt (tot) | Fr SZ | USDA Zone | Notes                                      |
|-----------|-------------|----------------------|------------|----------------------|--------------------|-------|-----------|--|
| 1943      | Thelypteris | kunthii              |            | 2009 - BA            | 6 (6)              | ML    | 7--10     | Syn: <i>Christella normalis</i>            |
| 1944      | Thelypteris | limbosperma          |            | 2005 - BA            | 2 (2)              | ML    | 5--9      | Syn: <i>Oreopteris limbosperma</i>         |
| 1949      | Thelypteris | palustris            |            | 2005 - KB            | 3 (3)              | M     | 3--10     |  |
| 1957      | Thelypteris | pennata              |            | 2012 - BA            | 10 (10)            | ML    | 12?--     | Syn: <i>Goniopteris pennata</i>            |
| 1960      | Thelypteris | puberula             | sonorensis | 2007 - BJH           | 15 (15)            | L     | 8--       |  |
| 1964      | Thelypteris | reticulata           |            | 2008 - ?             | 20 (20)            | ML    | 10--      | Syn: <i>Meniscium reticulatum</i>          |
| 1965      | Thelypteris | rheophyta?           |            | 2012 - BA            | 8 (12)             | SM    | 12?--     | Syn: <i>Amauropelta rheophyta</i>          |
| 1968      | Thelypteris | simulata             |            | 2011 - RC            | 2 (2)              | M     | 4--6      | Syn: <i>Parathelypteris simulata</i>       |
| 1978      | Vittaria    | lineata              |            | 2012 - BA            | 11 (17)            | L     | 10--11    | Few spores per packet.                     |
| 1993      | Woodsia     | pseudopolystichoides |            | 2012 - BA            | 20 (42)            | S     | 4--       |  |
| 1996      | Woodwardia  | areolata             |            | 2005 - KB            | 2 (2)              | M     | 3--9      | Syn: <i>Lorinseria areolata</i>            |
| 2001      | Woodwardia  | x†semicordata        |            | 2010 - BJH           | 8 (48)             | L     | 9--       | <i>W. martinezii</i> x <i>W. spinulosa</i> |
| 2003      | Woodwardia  | unigemmata           |            | 2009 - BJH           | 9 (9)              | ML    | 8--11     |  |

## Monograph of *Moranopteris* (Polypodiaceae)

submitted by George Yatskievych

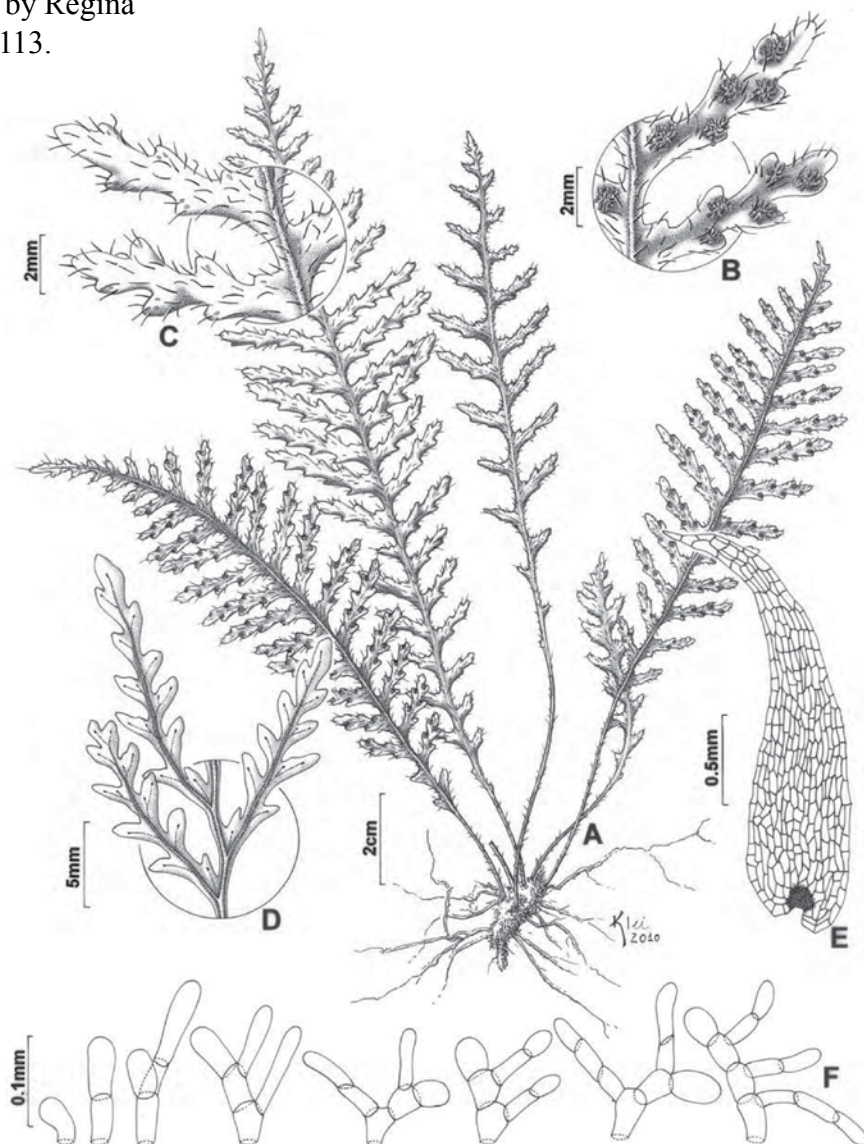
Now Available! After a long hiatus, the Society's series of longer monographs has a brand new volume in print: Monograph of *Moranopteris* (Polypodiaceae), by Regina Y. Hirai and Jefferson Prado. *Pteridologia* 4: 1-113. 2012.

*Moranopteris* (which honors our longtime member, Robbin Moran) is a segregate of the widespread *Grammitis* alliance that was officially named by the authors in 2011. The 29 species are found throughout the Neotropics. The new monograph is beautifully illustrated with line drawings and distribution maps, as well as an introductory section with several black and white photographs.

Those interested may order copies from the Society's authorized agent,

Missouri Botanical Garden Press  
P.O. Box 299  
St. Louis, MO  
63166-0299  
tel. 314-577-9534 or  
877-271-1930 (toll free)  
online [www.mbgpress.info](http://www.mbgpress.info).

Per-copy cost is \$28.00 plus shipping, but AFS members should let the Press know that they are members to receive a 10% discount.



# *Treasurer's Report for 2011*

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March 5, 2012

## TREASURER'S REPORT FOR 2011

TO: A.F.S. COUNCIL AND OTHER MEMBERS OF THE SOCIETY

Ladies and Gentlemen:

I have the pleasure of presenting to you a report on the financial condition of the American Fern Society, Inc., for the year 2011.

Current receipts amounted to \$48,486.66. With \$9,404.59 in my checking account and \$1,971.34 in the Membership Secretary's savings account at the beginning of the year, the grand total of receipts was \$59,862.59. Receipts from the dues category amounted to \$17,620.15. This figure includes dues received by the Membership Secretary from the British Pteridological Society and dues received by the Treasurer from BSA by online transactions. The Membership Secretary received two life memberships this year. Gifts were about one-half the amount received last year. The society received no bequests and no net income from the Spore Exchange. Sales of back issues/volumes were much higher this year than last, and sales of *Pteridologia* were about double those of last year. Receipts for page charges were about the same as for last year, but interest earned from checking and savings bank accounts were slightly lower this year than last year's amounts. Revenue from Bio One, JSTOR, and the Copyright Clearance Center was slightly higher this year than last. The society received only about one-half of meeting revenue share this year than last. The amount received represents the positive difference between AFS income minus expenses incurred at Botany 2011. A statement on the financial status of the several accounts accompanies the Treasurer's Report along with a statement of assets and liabilities. Overall, the receipts for 2011 were about \$1,000.00 more than the receipts for last year. This slight increase may be a reflection of a slight upturn in the national economy during the latter quarter of 2011.

Current disbursements amounted to \$53,256.81. With \$4,068.31 in the Treasurer's checking account and \$2,537.47 in the Membership Secretary's savings account at the end of the year, the grand total of \$59,862.59 balances with the grand total of receipts. Journal and bulletin printing costs were about the same as last year's figures due to no significant increase in printing and mailing costs. The journal and bulletin editors continue to do an excellent job in keeping expenses to a minimum, and the journal editors in encouraging the payment of page charges by publication authors. Other Council members' expenses were in the expected range as were other expenses. I am pleased to report to you that the society is in a sound financial condition, but there was not enough money left over in the treasury at the end of the year to add funds to the savings certificates.

I wish to thank the Membership Secretary, Dr. George Yatskievych; the Journal Editor-in-Chief, Dr. Jennifer Geiger; the Managing Editor, Dr. Jill Dill; the Bulletin Editors, Drs. Joan Hudson and David Schwarz; and the Publications Curator, Dr. James D. Montgomery, for their help in keeping the society treasury accurate.

Respectfully submitted,

James D. Caponetti  
Treasurer

# Treasurer's Report for 2011

| RECEIPTS   |  |             |                    |
|--|--|-------------|--------------------|
| Cash on hand, January 1, 2011  |  |             |                    |
| Treasurer  |  | \$9,404.59  |                    |
| Membership Secretary   |  | \$1,971.34  |                    |
| <b>TOTAL</b>   |  |             | \$11,375.93        |
| Current Year's Dues Received by Membership Secretary Directly                        |  | \$9,250.00  |                    |
| Current Year's Dues Received by Treasurer from BSA by Online Transactions            |  | \$6,340.75  |                    |
| Prepayments for Future Years   |  | \$25.00     |                    |
| Current Year's Overpayments  |  | \$24.65     |                    |
| Life Memberships   |  | \$600.00    |                    |
| Gifts to the Society   |  | \$1,251.00  |                    |
| British Pteridological Society Dues  |  | \$1,379.75  |                    |
| Spore Exchange, Net  |  | \$0         |                    |
| Sales of Back Issues of the Journal<br>Treasurer - \$304.00<br>Memb. Sect. - \$43.00 |  | \$347.00    |                    |
| Sales of Pteridologia  |  | \$537.60    |                    |
| Savings Interest from Memb. Secretary Bank   |  | \$3.73      |                    |
| Checking Interest from Treasurer's Bank  |  | \$7.16      |                    |
| Page Charges   |  | \$1,650.88  |                    |
| Funds Received by Treasurer from Membership Secretary                                |  | \$12,000.00 |                    |
| Bio One Revenue Sharing  |  | \$10,193.00 |                    |
| JSTOR Publisher Pool Payment   |  | \$3,800.25  |                    |
| JSTOR Sales Service Revenue  |  | \$52.00     |                    |
| Copyright Clearance Center Royalty Payment   |  | \$359.25    |                    |
| BSA Botany 2011 Meeting Revenue Sharing  |  | \$664.64    |                    |
| Outreach Fund Contributions  |  | \$0         |                    |
| 2011 Checks Outstanding  |  | \$0         |                    |
| <b>CURRENT RECEIPTS</b>  |  |             | <b>\$48,486.66</b> |
| <b>GRAND TOTAL</b>   |  |             | <b>\$59,862.59</b> |

| DISBURSEMENTS   |  |             |                    |
|---|--|-------------|--------------------|
| American Fern Journal (Allen Press)                     |  |             |                    |
| Vol. 100, No. 3   |  | \$3,919.40  |                    |
| Vol. 100, No. 4   |  | \$4,285.56  |                    |
| Vol. 101, No. 1   |  | \$4,394.08  |                    |
| Vol. 101, No. 2   |  | \$5,164.11  |                    |
| Vol. 101, No. 3   |  | \$5,059.61  |                    |
| <b>TOTAL</b>  |  |             | <b>\$22,822.76</b> |
| Fiddlehead Forum Printing (S.H.U. Press)                |  |             |                    |
| Vol. 37, No. 5  |  | \$1,721.92  |                    |
| Vol. 38, No. 1  |  | \$1,200.44  |                    |
| Vol. 38, No. 2  |  | \$1,274.57  |                    |
| Vol. 38, No. 3  |  | \$1,150.30  |                    |
| Vol. 38, No. 4  |  | \$1,677.54  |                    |
| <b>TOTAL</b>  |  |             | <b>\$7,024.77</b>  |
| Treasurer's Expenses                                    |  | \$214.00    |                    |
| Blanket Fidelity Bond                                   |  | \$187.00    |                    |
| Membership Secretary's Office Expenses for AFS          |  | \$868.28    |                    |
| Membership Secretary's Office Expenses for Pteridologia |  | \$0         |                    |
| President's Expenses                                    |  | \$0         |                    |
| President-Elect's Expenses                              |  | \$0         |                    |
| Secretary's Expenses                                    |  | \$0         |                    |
| Publications Curator's Expenses                         |  | \$21.73     |                    |
| Journal Editor-in-Chief's Expenses                      |  | \$4,000.00  |                    |
| Journal Managing Editor's Expenses                      |  | \$2,000.00  |                    |
| Web Server Maintenance                                  |  | \$0         |                    |
| Domain Name Renewal                                     |  | \$0         |                    |
| Webmaster's Expenses                                    |  | \$0         |                    |
| Bulletin Editor's Expenses                              |  | \$0         |                    |
| Fern Foray Expenses                                     |  | \$150.00    |                    |
| A.I.B.S. Dues   |  | \$200.00    |                    |
| Refunds to Agencies and Members                         |  | \$33.00     |                    |
| British Pteridological Society Dues                     |  | \$2,889.27  |                    |
| Addition to CD in First Tenn. Bank                      |  | \$0         |                    |
| Addition to CD in Home Federal Bank                     |  | \$0         |                    |
| Funds Transferred from Checking to Savings              |  | \$0         |                    |
| Funds Transferred from Savings to Checking              |  | \$0         |                    |
| Botany 2011 Student Travel Awards                       |  | \$800.00    |                    |
| Botany 2011 Symposium Expenses                          |  | \$0         |                    |
| Botany 2011 Conference Fees                             |  | \$0         |                    |
| Outreach Coordinator's Expenses                         |  | \$0         |                    |
| Funds Transferred to Treasurer by Membership Secretary  |  | \$12,000.00 |                    |
| Bank Charges  |  |             |                    |
| Treasurer   |  | \$35.00     |                    |
| Membership Sec.   |  | \$11.00     |                    |
| <b>TOTAL</b>  |  |             | <b>\$46.00</b>     |

|                               |     |                    |
|-------------------------------|-----|--------------------|
| Bad Checks                    | \$0 |                    |
| <b>CURRENT DISBURSEMENTS</b>  |     | <b>\$53,256.81</b> |
| Cash on Hand, January 1, 2012 |     |                    |
| Treasurer                     |     | \$4,068.31         |
| Membership Secretary          |     | \$2,537.47         |
| <b>GRAND TOTAL</b>            |     | <b>\$59,862.59</b> |

## STATEMENT OF AFS ASSETS AND LIABILITIES AS OF DECEMBER 31, 2011

| Assets   |                     |
|--|---------------------|
| Cash in Treasurer's Checking Account           | \$4,068.31          |
| Cash in Membership Secretary's Savings Account | \$2,537.47          |
| Cash in Treasurer's Savings Account            | \$10,613.80         |
| Savings Certificate in First Tennessee Bank    | \$30,000.00         |
| Savings Certificate in Home Federal Bank       | \$56,967.40         |
| Journal Inventory                              | \$19,079.50         |
| <b>TOTAL</b>                                   | <b>\$123,266.48</b> |

| Liabilities                  |                     |
|------------------------------|---------------------|
| Prepayments for Future Years | \$25.00             |
| Current Year's Overpayments  | \$24.65             |
| Savings Certificates         | \$86,967.40         |
| General Fund                 | \$36,249.43         |
| <b>TOTAL</b>                 | <b>\$123,266.48</b> |

## STATEMENT OF AFS BANK ACCOUNTS BALANCE OF FUNDS AS OF DECEMBER 31, 2011, AND INTEREST EARNED DURING 2011

| BANK ACCOUNTS   | BALANCE OF FUNDS    | INTEREST EARNED |
|---|---------------------|-----------------|
| Membership Secretary's Savings Account in Commerce Bank | \$2,537.47          | \$3.73          |
| Treasurer's Savings Account in First Tennessee Bank     | \$10,613.80         | \$5.26          |
| Treasurer's Checking Account in First Tennessee Bank    | \$4,068.31          | \$7.16          |
| Treasurer's Savings Certificate in First Tennessee Bank | \$30,000.00         | \$90.00         |
| Treasurer's Savings Certificate in Home Federal Bank    | \$56,967.40         | \$348.27        |
| <b>TOTALS</b>   | <b>\$104,186.98</b> | <b>\$454.42</b> |

# Auditor Report

March 5, 2012

I hereby certify that I have seen the books and accounts of James D. Caponetti, Treasurer of the American Fern Society, Inc., and have obtained confirmation of the correctness of the Society's balance on hand as set forth in detail in the accompanying report of the Treasurer.

Broker, G.R.I.  
Nathan E. Way

# *Ferns of Alabama — Book Review*

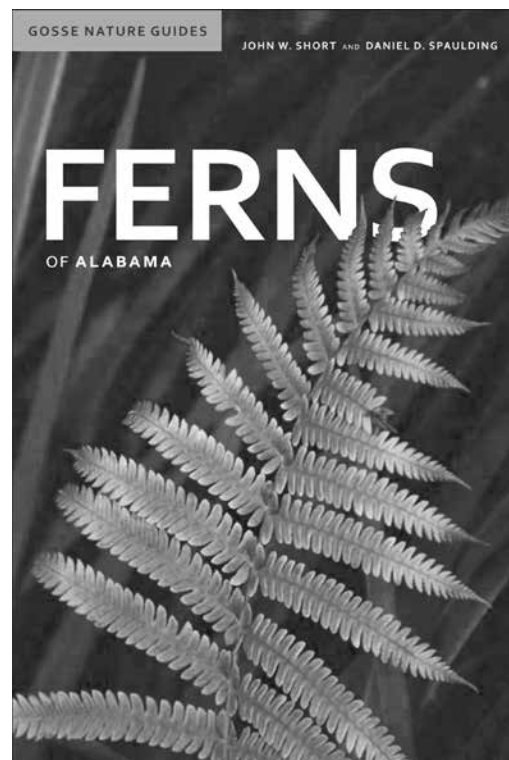
submitted by George Yatskievych

*Ferns of Alabama*, by John W. Short and Daniel D. Spaulding. 2012. xiv, 368 pp., 391 photos and drawings. University of Alabama Press, Tuscaloosa. ISBN 978-0-8173-5647-7, paperbound. \$39.95.

When we think of states with high pteridophyte diversity, places like Florida and California come to mind. Yet, this attractive new guide includes more than 120 species of ferns and lycophytes! Sturdily bound with heavy paper covers, the latest contribution to the Gosse Nature Guides series is a collaboration between two of the most knowledgeable botanists on the state's fern flora. The book is nicely laid out, although the design is relatively lavish, with lots of empty white-space on the pages. This results in a larger, heavier book than some might wish for in a field guide.

For those unfamiliar with Alabama, the introductory material provides a nice summary of the geology, geography, and biogeography of Alabama ferns. The treatments of the species include brief descriptions, summaries of habitats and ranges, and useful natural history comments, as well as common names and major nomenclatural synonyms. Colored maps at the county level amplify the range summaries and the authors state that all occurrences are based on herbarium specimens examined by them. Several photographers and artists contributed to the illustrations of all of the species. Although most of the photographs are clear and informative, a few are printed rather darkly. Especially useful among the beautiful line drawings are the diagrams illustrating branching patterns and leaf arrangements in some of the lycopods. Where photos from the field were insufficient or unavailable, images of pressed specimens have been used.

Two things that may confuse neophytes are the nomenclature of species and the arrangement of genera, which follow those in the much-outdated system used in David Lellinger's out-of-print 1985 book, *A Field Manual of the Ferns and Fern-Allies of the United States and Canada*. This requires some mental adjustment for the user, as the names in some groups have been updated for so long that the older names are no longer widely used. Also, botanists have discovered much about the relationships among fern families, and the continued grouping of such things as the climbing ferns (*Lygodium*) and the maidenhair ferns (*Adiantum*) is misleading. The authors attempt to mitigate some of



these issues by adding an appendix with an alternative set of identification keys and names excerpted from the 1993 *Flora of North America* pteridophyte volume (itself now somewhat dated). Thus, users potentially have to run a plant through two different sets of keys, one to figure out where the species is described in the main text and a second to figure out what name the Flora of North America Project used for the plant. The user has to hope that an unknown plant keys to the same species in the less technical first key and the more technical second one. A better approach would have been to use the name considered most correct by the authors and to discuss alternative taxonomies and nomenclature under each species entry, or to adopt a more modern classification as a standard. In a few cases, the dependence on Lellinger's nomenclature results in the proliferation of errors. For example, the name *Azolla caroliniana* has been shown to be misapplied and technically a synonym of the western *A. filiculoides*, and the oldest valid scientific name for the eastern mosquito fern appears to be *A. cristata*.

Nevertheless, the first comprehensive account of Alabama's pteridoflora in more than 40 years is still a very useful and well-researched volume. Those who like to explore and botanize in the state's wild areas will find it to be an indispensable addition to their bookshelves.

# American Fern Society Spore Exchange

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## Mail-in Order Form for AFS members

This form is for USA orders only.  
For international order, please  
contact Brian Aikins, spores.afs@  
comcast.net.

Your Name: \_\_\_\_\_

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

Email Address (optional): \_\_\_\_\_

Your email address will only be used for correspondence related to this order. It will never be published or shared.

List spore requests by order number:

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In case some of your requests are no longer available, please list alternates in preference order (left to right):

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- Include:**
1. This completed order form.
  2. A self-addressed stamped envelope (SASE) to send back requested spore packets. Please use a #6 small(35/8 x 6½ inch) or #10 standard (4 x 9½ inch) business envelope with no markings such as “fragile” or “live material.” A one ounce stamp (currently 45 cents) is enough to send up to 35 packets.
  3. 50 cents for each fern requested. In lieu of postage, add appropriate amount to payment. Make check payable to Brian Aikins or send cash at your own risk.
  4. [Optional] Spore donation(s). When collecting spores, Please follow the guidelines on page 31 or the AFS spore collecting page ([amerfernsoc.org/sporcoll.html](http://amerfernsoc.org/sporcoll.html)).

**Send to:** Brian Aikins  
3523 Federal Ave.  
Everett WA, 98201-4647

Please include any questions, comments or  
suggestions on this form or send email to  
spores.afs@comcast.net.



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## *Excellent Powerpoint presentations on spore collecting and growing*

A program has been prepared by the late Barbara Joe Hoshizaki and Wendy A. Born concerning spore propagation of ferns. If you would like to improve your success rate, this is for you. It is available at no charge as a PowerPoint presentation on a CD for Windows or Mac.

Also available is the presentation, Collecting Fern Spores. Also no charge. Send your postal address to Tom Stuart, [coordinator@hardyfernlibrary.com](mailto:coordinator@hardyfernlibrary.com). U.S. mail address on page 30.

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## **Renew your membership today!**

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We would like to thank all American Fern Society members for their contributions to the Fiddlehead Forum in 2012 and send out a request for members to submit articles for inclusion in the Fiddlehead Forum in 2013.

We need your submissions! No article is too large or too small!

**Happy New Year!**