President’s annual report

The Botanical Society of America is strong and vibrant thanks to the hard work of its loyal members and dedicated staff. The American Journal of Botany continues to be a pre-eminent outlet for high quality research in plant sciences, and the Society continues to lead important initiatives like PlantingScience and to enhance the services it provides to members. My report can highlight only a few of the more important accomplishments.

In 2009 the Special Libraries Association recognized the American Journal of Botany as one of the ten most influential journals in biology and biomedicine over the last 100 years, and the journal continues to get stronger. Under the guidance of our Editor-in-Chief, Judy Jernstedt, and with the invaluable help of our Managing Editor, Amy McPherson, and Production Editor, Richard Hund, AJB launched an innovative, online-only section of the journal, AJB Primer Notes & Protocols in the Plant Sciences. This new section promises rapid turnaround for short papers (< 1200 words) describing primer sequences for microsatellites or other genetic markers or new protocols for isolating, visualizing, or scoring such markers. Since its debut in the January 2010 issue, 18 Primer Notes have appeared with authors from North America, Europe, Asia, and Africa. This fall AJB staff will also submit an application to have the journal indexed in MedLine. We are very hopeful that the application will be successful, as it will bolster our efforts to broaden the reach of AJB and to further enhance its reputation and impact. But it is not only AJB that has been evolving. Under the watchful eye of our Editor, Marshall Sundberg, Plant Science Bulletin began accepting papers for peer review in late 2009.

The Society plays a leading role in PlantingScience (http://www.plantingscience.org/), an online community that pairs university and college scientists (graduate students and faculty) with teachers and students in middle schools and high schools around the country and engages them in hands-on scientific experiments. Recent projects have included experiments that investigate the genetics of plant height, how soil nutrients affect pedicel length, and how mycorrhizae affect the growth of plants. PlantingScience has even gone international; there is now a test site in the Netherlands (http://nl.plantingscience.org/). The steering committee for PlantingScience now includes representatives from 12 participating organizations, the American Phytopathological Society, the National Academy of Sciences, the American Society of Plant Biologists, the American Institute of Biological Sciences, the National Association of Research in Science Teaching, the
Society for the Study of Evolution, the Crop Science Society of America, the American Fern Society, the Soil Science Society of America, the Society for Economic Botany, the Ecological Society of America, and the American Society of Agronomy.

A year ago the economy was reeling from the worst recession since the 1930s, yet the Society remained financially sound throughout the crisis. Years of dedicated effort led by the Jack Horner as Chair of the Investment Committee\(^1\) helped ensure that the Society’s investments weathered the storm with relatively little damage. And because of the outstanding quality of the *American Journal of Botany*, revenue from institutional subscriptions remained relatively constant even in the face of mounting pressures on library budgets. Even in this challenging environment, careful management of expenses allowed the Society to maintain its services to members. Our Executive Director, Bill Dahl, continues both to look carefully for ways the Society can provide services more efficiently, both to members of the Society and to sister societies. For example, the Society now provides membership and meetings management services for both the Society for Economic Botany and the Society for the Study of Evolution. By all accounts, both societies are very satisfied with the services we provide, and the revenue from our contracts with these societies provides the *Botanical Society* with additional resources to serve our members and the broader botanical community.

The Society has also been deeply engaged in a variety of activities related to science policy. Last fall, for example, Chris Haufler (At-large Director – Education) and Bill Dahl participated in several conference calls involving staff members of the White House Office of Science and Technology Policy (OSTP) to discuss federal plans for support of science education. In a different vein, Judy Jernstedt and I sent a letter to Senators Lieberman and Cornyn to express our concern about the requirement that all federally supported research be made freely available no more than 6 months after publication.\(^2\) I sent a similar letter on behalf of the Society to OSTP, commenting on its request for comment on public access policies for federal science and technology funding agencies. In April, I sent another letter on behalf of the Society to OSTP, this one responding to a request for information on “Grand Challenges of the 21st Century” and to the House Science Committee on science, technology, engineering, and mathematics (STEM) education as part of the reauthorization of America COMPETES. In the comments to OSTP I pointed out the critical role that plant sciences and professional societies play in restoring American leadership in fundamental research. I also pointed to recent reports from the National Academy of Sciences identifying the pressing need for basic research in the biological sciences and the synergy between basic and applied research. The letter to the House Science Committee focused on the role of federal agencies in STEM education, strategies to enhance dissemination of K-12 STEM education materials, and the sustainability of STEM education programs. The letter highlighted *PlantingScience* as

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\(^1\) Long-time members of the Society will recognize the Investment Committee as what used to be called the Financial Advisory Committee. At last year’s meeting, the Council voted to split the responsibilities for financial management of the Society into the Investment Committee, which oversees the Society’s investments, and a Finance Committee, which monitors and helps to plan the Society’s operating budget.

\(^2\) Our letter to Senator Lieberman was published in the Winter 2009 edition of *Plant Science Bulletin*. 

Page 2 of 2
one model that could be widely adopted both to enhance dissemination and to enhance sustainability of STEM education programs.\(^3\)

In short, it has been a busy, but productive year for our Society. Our membership remains vibrant, the American Journal of Botany and the Plant Science Bulletin remain healthy and continue to grow, our services to members and to sister societies continue to improve, and our ability to represent the interests of botanists to policymakers continues to increase. The future of our Society is bright, and it has been a privilege to serve as your president for the past year.

Respectfully submitted,

Kent E. Holsinger, President

P.S. If you’re a member of Facebook, don’t forget to become a fan of BSA. If you’re on Twitter follow BSA there. And even if you don’t want to become part of the whole social media “thing”, you can check out the photos on the BSA Flickr page without joining Flickr. You’ll find buttons to take you to the right places on the lower left corner of our home page.

**Past-President**

As the current past-president of the BSA, my responsibilities are (were) to announce the results of the past elections and the names of new corresponding members. The newly elected officers of the BSA were announced on the BSA website shortly after the closure of the election process, and, to the best of my knowledge, we received no nominations for new corresponding members.

Karl Niklas

**President-Elect**

During the past year, we filled all committee vacancies based on the BSA members who have volunteered to serve the society and balancing the distribution of expertise across the sections of BSA. As of this report, all known vacancies are filled. The grant from NSF UMEB to bring undergraduate students representing diversity has expired, and the NSF program has changed. It was decided to begin a new program for undergraduates that involved mentoring for science and future careers and to seek further funding this coming year to support the program. The activity will be known as Producing Leaders and Nurturing Tomorrow’s Scientists (PLANTS). This year the BSA

\(^3\) I should point out that I did not write any of these letters by myself. First drafts of many were written by other members of the Board. Even when I wrote the first draft myself, the final text was edited and approved by the entire Board before it was submitted.
is supporting 7 students as first time recipients of the PLANTS awards. We will be working with former recipients of the UMEB awarded funds to craft and support a strong program for this undergraduate activity.

**Treasurer**

Date: 19 July 2010  
To: BSA Council  
From: Laura Galloway, Treasurer

The Botanical Society is in healthy financial condition. Income and expenses for the past year have been fairly close to the budgeted amounts. The largest share of income is from the *American Journal of Botany*; institutional subscriptions contribute almost two-thirds of the Society’s income. Grants formed our second largest source of income. Grants are nearly revenue neutral; however they help support the Society’s mission and its staff. The largest share of expenses supports BSA’s staff with its diverse functions; *AJB* costs run about half of that amount.

This past year has seen a rebound of the investment fund which had dropped in value due to the global financial situation.

**Assets**

As of 30 June 2010, assets in the Society’s investment accounts totaled just over $3.1M (Table 1), an increase of approximately $380K or 14.1% in the past year. This increase represents a strong turnaround from the previous year which tallied a $600K decline due to global market conditions. The Investment Fund has regained 73% of its loss, but still is ~$500k below its peak in 2007. See the Investment Committee report for further details. The Investment Committee also altered the performance goal of the endowment to stipulate an 8.00% net rate of return, rather than the absolute rate of return that had been used in the past. The rationale for the change is that now fees and services are included in the goal rather than treated as a side change. This change was initiated (and reported) last year but formalized this year.

**Table 1: Investment fund balances for the Botanical Society of America**

| Investment funds balance 30 June 2007 | $3,666,322 |
| Investment funds balance 30 June 2009 | $2,724,682 |
| Investment funds balance 30 June 2010 | $3,108,492 |

**Income and expenses**

The budget approved for 2009-2010 included budgeted income of $1.96M and budgeted expenses of $1.95M *versus* current year-to-date totals of $1.48M and $1.10M, respectively (Table 2). Both the year-to-date income and expenses are slightly higher than budgeted and approximate last year’s figures at this time.

**Budget for 2009-2010**

Budgeted income is projected at $1.86M in 2010-2011 *versus* $1.6M in 2009-2010. The modest decrease reflects a reduction in expected grant income as several grants are nearing completion. This income also reflects a slight increase in funds expected from individual subscriptions to *American Journal of Botany*, a projected increase in contributions to the Society, and an increase in the institutional subscription rate of *American Journal of Botany*. *AJB* institutional rates will
increase $40 this year to offset an increase in annual costs and no price increase in the previous year. Budgeted expenses are projected at $1.84M in 2010-2011 versus $1.95M in 2009-2010. The drop in predicted expenditures largely reflects the drop in spending associated with grants. Expenses for employment and rent have increased but the St. Louis office is being run with increasing efficiency which represents a source of savings.

Table 2: Summary of income and expenses for the Botanical Society of America

<table>
<thead>
<tr>
<th>Budgets</th>
<th>Budgeted 2009-2010</th>
<th>Actual 2009-10 YTD*</th>
<th>Budgeted 2010-2011</th>
<th>Increase/Decrease</th>
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</thead>
<tbody>
<tr>
<td>Total Income</td>
<td>$1,963,648</td>
<td>$1,475,883</td>
<td>$1,855,968</td>
<td>11.90%</td>
</tr>
<tr>
<td>Operational Income</td>
<td>1,022,065</td>
<td>1,064,611</td>
<td>1,160,137</td>
<td>138,072</td>
</tr>
<tr>
<td>Investment Income</td>
<td>30,000</td>
<td>-22,863</td>
<td>30,000</td>
<td>0</td>
</tr>
<tr>
<td>Meetings Income</td>
<td>301,580</td>
<td>221,576</td>
<td>301,580</td>
<td>0</td>
</tr>
<tr>
<td>Grant Income</td>
<td>610,003</td>
<td>212,559</td>
<td>364,251</td>
<td>-245,752</td>
</tr>
<tr>
<td>Total Expense</td>
<td>$1,949,265</td>
<td>$1,103,425</td>
<td>$1,837,434</td>
<td>-111,831</td>
</tr>
<tr>
<td>Operational Expense</td>
<td>1,091,015</td>
<td>824,006</td>
<td>1,222,890</td>
<td>131,875</td>
</tr>
<tr>
<td>Investment Expense</td>
<td>30,000</td>
<td>35,532</td>
<td>30,000</td>
<td>0</td>
</tr>
<tr>
<td>Meetings Expense</td>
<td>218,247</td>
<td>51,244</td>
<td>220,293</td>
<td>2,046</td>
</tr>
<tr>
<td>Grant Expenses</td>
<td>610,003</td>
<td>192,642</td>
<td>364,251</td>
<td>-245,752</td>
</tr>
</tbody>
</table>

Consolidated BSA Operations

| Income | 1,022,065 | 1,064,611 | 1,160,137 | 138,072 | 11.90% |
| Expense | 1,019,728 | 824,006 | 1,149,439 | 129,711 | 11.28% |
| Balance | 2,337 | 240,605 | 10,697 | 8,360 | 78.15% |

Botany Conference Series

| Income | 301,580 | 221,576 | 301,580 | 0 |
| Expense | 291,581 | 51,244 | 293,744 | 2,163 | 0.74% |
| Balance | 10,000 | 170,332 | 7,836 | -2,164 | -27.62% |

BSA Grants

| Income | 610,003 | 212,559 | 364,251 | -245,752 | -67.47% |
| Expense | 610,003 | 192,642 | 364,251 | -245,752 | -67.47% |
| Balance | 0 | 19,917 | 0 | 0 |

BSA Investment

| Income | 30,000 | -22,863 | 30,000 | 0 |
| Expense | 30,000 | 35,532 | 30,000 | 0 |
| Balance | 0 | -58,395 | 0 | 0 |

TOTAL

| Income | 1,963,648 | 1,526,997 | 1,855,967 | -107,681 | -5.80% |
| Expense | 1,951,311 | 1,124,279 | 1,837,434 | -113,877 | -6.20% |
| Balance | 12,337 | 402,718 | 18,534 | 6,197 | 33.44% |

*as of 6/30/10
**Program Director**

Snowbird conference planning

A site visit was made to the Providence Location in mid-December myself, Johanne Stogran (BSA Conference Manager), Patrick Herendeen (ASPT Program Director), Rob Brandt (BSA Manager of Technology Development), Erica Edwards (Local Representative), Jessica Budke (Local Representative), and Elizabeth Farnsworth (Field Trip Coordinator). We reviewed all of the facilities.

**Statistics for the Providence Conference**

- 900 registrants
- 247 people signed up for field trips
- 657 people signed up for workshops

Only 97 people signed up to receive abstract books out of the current 900 registrants, indicating success in the “green” effort to reduce excessive printing

- 800 abstracts were printed, broken down as:
  - 461 oral papers
  - 220 posters
  - 94 symposium presentations (resulting from 12 separate symposia)
  - 6 special presentations
  - 6 discussion sessions
  - 17 workshops

**Planning for the 2011 Conference**

Dates: July 9 (Saturday) – July 13 (Wednesday)

Location: St. Louis Chase Park Plaza (Sunday evening Plenary Session at Missouri Botanical Gardens).

Other: We have contracted for two host hotels and dormitories at Washington University.

**Planning for the 2012 Conference**

Dates: July 7 (Saturday) – July 11 (Wednesday).

Location: Greater Columbus Convention Center.

**Director-at-Large, Education**

Good Green Teaching Colleagues,

Here is my attempt to distill the very productive meeting that we just concluded.

The Education Summit was conceived as a way to gain better perspectives on the various education activities in the BSA and to parse the BSA education objectives into the best
hands to ensure that progress is made. Based on the Strategic Plan that is guiding the future of the BSA, we focused on what we can and should do to meet the goals that have been established. We also discussed the roles of the different education-oriented entities in the BSA and developed action plans to achieve the goals that we established. Below, these action plans are developed as recommendations.

The strategic plan emphasizes that the BSA should seek to provide botany resources for teachers. We concurred and discussed the best ways to meet this plant information expectation. To meet the goal of locating and engaging BSA experts who can contribute facts and information about plants, we noted that the plans for the new Membership Directory will include opportunities to collect and display such information about members. The Directory will be searchable for membership expertise.

To gather information about experts who will identify gaps in existing instructional materials, we recommend developing a new box on the abstract submission form for the annual meeting. This box would solicit information from "experts" on the nature and progress on the "broader impacts" component of funded research projects. We reasoned that BSA members with active, well supported research programs would be the ones with the "broader impacts" statements and plans. With information about ongoing activities, we should be able to discover what ongoing education projects might be made more public and could provide topics for education symposia and workshops at the annual meeting. This will also meet the goal of fostering collaboration among BSA members to share information and ideas about education initiatives.

Claire Hemmingway guided a discussion of PlantingScience progress and new objectives. She noted that summer institutes, held at Texas A&M University, provided opportunities for exploring active learning activities and conducting focus groups with teachers to help them implement these active learning possibilities. She also discussed expanding the roles of mentors in helping to initiate and conduct experiments with teachers and students, and she introduced how video clips were helping teachers gain a better understanding of some concepts and methods. Claire provided information about a goal of the PlantingScience program to help teachers learn how to cover the field of biology using plants ("Planting across the curriculum."). Assessment of the program is essential, but has been challenging and is still an elusive ultimate goal. She noted that questionnaires provided to participants as well as Pre-and Post testing of students was involved as was tracking teachers and their successes with the program in their classes. Carol Stuessey has been the point person in developing a plan to develop meaningful and effective assessment of the program so that its contributions can be fully demonstrated. We strongly encouraged progress on this important component of PlantingScience so that the program could have more promise of integration with state standards and testing. We also noted that continued and expanded funding for PlantingScience was likely to depend on well-documented and analyzed evidence of its effectiveness.

Bill Dahl reported on recent discussions in Washington, DC involving the Obama administration's response to the current nationwide scientific literacy crisis. Politicians are seeking ways to generate more science teachers who will incorporate more inquiry.
methods in student learning. Interdisciplinary society participation has been sought through the coordination of fields and programs represented by members of the Council of Scientific Society Presidents. This group is pushing plans for a "Science Week" program to highlight progress and goals for future science education.

We discussed options for developing outreach by BSA professionals to students in their local city and regional neighborhoods, and that this has been supported in some instances by NSF funding. We noted that such outreach might be best targeted at making connections between 4-year colleges and the Community Colleges where an offer of expertise is likely to be well received. We recommended establishing information on the membership form to ask whether individuals would be open to inquiries from their community to answer science questions and serve in an "Ask a Botanist" capacity. The BSA could function as a clearinghouse and communication hub for making such connections. These connections might also lead to more community college professionals seeking membership in the BSA. We also noted that the BSA may be able to serve as a place for certifying the quality of on-line courses, helping students know which courses will provide the education outcomes that they seek.

Chris Martine discussed his success in establishing a student chapter of the BSA, getting students involved with neighborhood activities and involving them in service to the community. We recommend having a workshop on student chapters at the annual meeting.

We considered it to be a valuable BSA contribution for us to develop assessments of teaching modules, but we wondered how to generate funding for such assessments. We already have some PlantingScience modules and curricula that meet some state standards and the goals of assessment tests of students. But we need more of them for teachers to use as well as for the education of new teachers (pre-service training).

We recommended building on the fine work of Chris Martine, who has developed videos to inform children about aspects of science in general and botany in particular. To develop this agenda, we recommend providing opportunities at our annual meeting to conduct video interviews with experts attending the meeting. Not only would this help to explore topics that might be expanded into new video segments, but it would also discover which BSA colleagues are ideally suited for this video medium, and whose research might be used to illustrate science principles and practices. We might also be able to develop "How To" videos of various techniques and procedures.

We devoted some discussion to the opportunity for certification of individuals as "Botanists." We concluded that we need to review the competencies necessary to be certified. Robynn Shannon commented that the Ecological Society of America has developed a certification program and we might be able to learn from their efforts and adopt some of their methods. We recommended forming a committee to explore these options and develop recommendations that would be reviewed by the Education Committee and ultimately forwarded to the Board of Directors for discussion and implementation. Members of that exploration committee could include Marsh Sundberg.
(who has been working with the National Forest Service to develop a certification option), Robynn Shannon, Krissa Skogen, and Bill Dahl.

Through the meeting, we devoted time and thought to exploring and defining the roles of the Education Committee and the Teaching Section of the BSA. After considerable discussion, we concluded that the Education Committee meets the governance function in education for the BSA, i.e., implementing the educational mission of the BSA and recommending policies that will help the BSA achieve its education mission. Thus, the Education Committee would be charged with organizing society-wide education initiatives at annual meetings (such as opportunities for workshops and forums on education). The Teaching Section would function to serve the members of that section, by organizing contributed papers sessions and symposia of interest to those members. Thus, both the Education Committee and the Teaching Section provide vital and complementary contributions to the BSA and its members. We recommend that special attention be paid to appointing Education Committee members so that those interested in meeting BSA education goals will be involved and we recommend appointing a member of the Teaching Section as an ex officio member of the Education Committee. Normally, this would be the Chair of the Teaching Section, but another individual may be appointed as appropriate.

We note that the we are working toward achieving the strategic goals established by the BSA strategic planning committee and we are now poised to have a better sense of how to coordinate and develop cooperation among the various components of the BSA that address education aspects of the Society.

I personally thank the members who took time out of their obviously busy schedules to attend this Summit and contribute their expertise and perspectives on education and the BSA. We certainly had a productive and valuable meeting that should translate in an improved and invigorated education mission of the BSA.

Respectfully submitted,

Chris Haufler, Board of Directors Member associated with BSA education

**Editor, American Journal of Botany**

- The Editor-in-Chief and editorial office of the *American Journal of Botany* are grateful to our dedicated Associate Editors, to the editors of the new *AJB Primer Notes & Protocols in the Plant Sciences*, and to AJB reviewers for their thoughtful and diligent work over the past year.
- *AJB Primer Notes & Protocols in the Plant Sciences*:
  - A new online-only section of the journal was launched in December 2009 to promote rapid dissemination of protocols used in genetic analyses of plants. The idea was suggested earlier in 2009 by the BSA Executive Board, and the effort
has been spearheaded by "PNP" founding Editors Kent Holsinger, Pam Soltis, Theresa Culley, and Mitch Cruzan.

- 25 articles have been published so far; a large percentage of submissions have been from China, Italy, and Spain, as well as from the US
- Protocols for other research areas may be added if interest exists and expertise is available

**Impact Factor**
The 2009 Journal Citation Report from Thomson Reuters shows increases in *A JB*’s stats:

- **Impact Factor:** 2.684 (up from 2.642 in 2008 and 2.512 in 2007)
- **Immediacy Index:** 1.139 (up from 0.497 in 2008 and 0.356 in 2007)
- **Eigenfactor Score:** 0.02617 (up from 0.02562 in 2008, but still down from 0.029735 in 2007)
- **Eigenfactor Influence Score:** 1.339 (up from 1.181 in 2008 and 1.274 in 2007)
- **Total citations:** 13,282 (up from 11,858 in 2008 and 11,213 in 2007)

However...

- Ranking within all plant journals dropped to 29/172 from 27/155

**PubMed application:**

- The Pubmed/Medline application is complete, and we are currently collecting letters of support.
- We are targeting the fall meeting of the PubMed Literature Selection Technical Review Committee (LSTRC).
- We are considering a proposal from tbi, a research and marketing firm, to analyze the strengths of and opportunities for the journal to more aggressively pursue areas of potential growth.
- There continues to be a moving one-year wall for open access to all *A JB* content; authors are now given the option to pay for **Open Access** upon publication for their articles.
- BSA members and subscribing institutions have immediate access to all current and past *A JB* content (through 1997) on HighWire Press. Members have access to the entire archive of *A JB* issues through the BSA web site and JSTOR.
- The current editorial staff includes Ms. Amy McPherson (Managing Editor), Mr. Richard Hund (Production Editor), Dr. Sophia Balcomb (Assistant Editor/Content Editor), Dr. Beth Hazen (Manuscript Editor), Mr. Richard Earles (Copy Editor), and Ms. Jan Niehoff (Copy Editor). Dr. Caroline Kellogg and Dr. Sophia Balcomb have been supporting our outreach by writing press releases for EurekAlert.

**Suggestions for special paper topics and books reviews are encouraged.** Current projects in the works are:

- Biodiversity special issue slated for March 2011; Special Issue Editors: Peter Raven, Jon Chase, and J. Chris Pires
- Imaging and Visualization in Plant Sciences special issue; Special Issue Editors: Ed Exteberria, Judy Jerstedt, , and possibly Scott Russell
- Plant Tropism special issue; potential editors expressing interest: Hanns-Christof Spatz, Gar Rothwell, and John Kiss
- A special paper on plant response to the Gulf oil spill

- Comments and suggestions are always welcome from readers, authors, reviewers, staff, and Associate Editors. E-mail us at ajb@botany.org.
- All communications (electronic, mail, and telephone) should be directed to the Editorial Office, which is located in St. Louis, at the BSA headquarters at the Missouri Botanical Garden. The address is American Journal of Botany, P.O. Box 299, St. Louis, MO 63166-0299; tel. 314-577-5112; fax 314-577-9515; email to: ajb@botany.org; www.amjbot.org).
Total number of manuscripts submitted

January 1—July 15, 2010: 253
January 1—July 15, 2009: 213; total of 400
January 1—July 15, 2008: 244; total of 431

Manuscript Categories Submitted to Journal*

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<th>Total 09</th>
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<th>Total 07</th>
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<tr>
<td>Evolution and Phylogeny</td>
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<tr>
<td></td>
<td>400</td>
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<td>378</td>
</tr>
</tbody>
</table>

*In 2009, four papers were submitted to the AJB Primer Notes & Protocols section, one in Genetics and the other three in Population Biology.

Respectfully submitted,

Judy Jernstedt  Amy McPherson  Richard Hund
Editor-in-Chief  Managing Editor  Production Editor

Editor, Plant Science Bulletin

Volume 55

1. Four issues, 180 pages, were published on schedule.

2 Feature articles included:
- Botany in Equatorial Guinea & in the Island Nation of Sao Tome and Principe. Anitra Thorhaug, Yale University.
- Climate Change Symposium: Carbon Cycling and Sequestration in the Sea by Phytoplankton and Macrophytes. Anitra Thorhaug, John Raven and Erica Young, Yale University, University of Dundee, and University of Wisconsin-Milwaukee.

   - Donald R. Kaplan Memorial Fund Benefit Dinner.

4. 74 books were received for review; 43 book reviews were published.

5. Feature articles (Reports and Reviews) and book reviews were moved to the end of each issue in anticipation of making these peer-reviewed contributions and separate from the newsletter features of each issue such as News from the Society and Announcements. Preliminary information about peer review in the Plant Science Bulletin was published in PSB 55(4):142-145.

Volume 56
1. Articles submitted may now go through peer review. An on-line submission system, mirroring that for the American Journal of Botany, has gone through “field testing” and should be fully functional with issue number 3. Detailed instructions for submission will be available on the website.

2. Paper size was reduced to 6X9 inches to reduce cost at the printer with a standard paper size and to achieve a format size compatible with increasingly common electronic media.

3. The first two issues, 100 pages, were published on schedule.

4. Feature articles included:
   a. Botany in Romania, Highlighting its Endangered Plant Species. Anitra Thorhaug, Yale University
      This is the first peer-reviewed paper published in PSB.

5. 28 books were received for review; 28 reviews were published.
Individuals interested in submitting feature, peer reviewed articles or in suggesting future article topics should contact the editor. We are particularly interested in articles about botanical education, history of botany, and economic botany.

Respectfully Submitted,
Marsh Sundberg, Editor, Plant Science Bulletin

2010 BSA Business Report

Introduction

The following report provides an overview of the activities of the Botanical Society of America’s business office over the past twelve months. Let me begin by thanking and acknowledging the Executive Committee for their support and direction. On behalf of the Executive Committee, the Society, and myself, I also thank and acknowledge the Society’s staff, Rob Brandt, Heather Cacanindin, Claire Hemingway, Richard Hund, Wanda Lovan, Amy McPherson, Jennifer Potratz and Johanne Stogran, for their efforts and dedication to the Botanical Society of America. Once again, as a team, your staff was able to improve the Society’s ability to support members and our mission. In reading the following report, please bear in mind the current BSA strategic planning document - http://www.botany.org/spc/Strategic-Plan-2009-03-27.pdf.

Thank you!

We extend a special thank you to members who donated to our endowment, and to the various BSA section and award funds. Contributions so far this year totaled over $48,000.

Financial Update

Our key operational revenue streams for the year to date are budgeted at $978,413. Actual income to date is $1,064,611. Variance (+$86,198) is largely due to higher than anticipated institution subscription income ($843,702 actual vs. $796,143 budget, +$47,559), BSA Corporate membership (+$15,000) and JSTOR income (+$8,549).

Expenditures are currently running higher than anticipated at $824,006 with a budget of $749,576. Variance (+$74,430) is largely due to unbudgeted audit costs (+$18,969), publication costs (+25,122), travel and meetings costs (+$11,234) and web development costs (+20,446). With this, I still anticipate we will end the year slightly below budget on expenditure.

It was a busy year as we completed our second annual audit through Brown Smith Wallace L.L.C. Overall the audit was good and the financial reports were found to be a true reflection of the Society’s position. The auditors found three points where they indicated we could strengthen financial reporting accuracy and operating efficiency.

1. Adjusting Journal Entries
In moving costs to specific accounting areas (NSF Grants) in QuickBooks, we were amending entries directly. **In line with recommendations we have moved to a General Ledger system within the program.**
2. Conference Agreements
It was noted we do not have “accurate and legally enforceable” agreements with ABLS, AFS, ASPT and other partner organizations for Botany Conferences. We have yet to take any specific action.

3. Endowment Fund
Considerable changes have occurred in the accounting for and disclosure of the organization’s endowment fund due to the implementation of ASC 958 (formerly FSP 117-1, Endowments for Not-for-Profit Organizations: Net Asset Classification of Funds Subject to an Enacted Version of the Uniform Prudent Management of Institutional Funds Act, and Enhanced Disclosures for All Endowment Funds). In conjunction with FSP 117-1, the Connecticut State Legislature enacted the Uniform Prudent Management of Institutional Funds Act (UPMIFA) in June 2007. We are in the process of drafting specific policy to ensure all BSA endowment spending policies comply with both laws.

4. Segregation of Duties
Our accounting department is limited in size which leads us to a limitation in creating further segregation of duties.

5. Proper Recording of Net Assets
Inconsistencies were note in the recording of transactions related to three classes of net assets. This was due to incorrectly classified “Board Restricted” assets being noted as Permanently Restricted. We have corrected the positions in our accounts.

6. Financial Statement Preparation
The auditors were critical of Walepole and Co. the long-time BSA accounts in Santa Barbara. We are investigating this position.

2009 Financial Statements with Independent Auditors Report
http://www.botany.org/governance/reports/Audit_BSW-2009_BSA-FS.pdf

2009 Brown Smith Wallace L.L.C. Advisory Letter to the Board

2010 NSF Desk Review letter

The DRAFT 20010-11 BSA budget can be found online at http://www.botany.org/governance/reports/board/2011-BSA_Budget_Draft.xls.

<table>
<thead>
<tr>
<th>Membership</th>
<th>US and Non-US Memberships</th>
</tr>
</thead>
<tbody>
<tr>
<td>Membership in the Society has taken its first dip in three years. It must be the economy =). A main concern is the drop in student number, currently 671 student members, which is down on the previous three years. We’ll turn this around over the coming year through increased communication and establishing a program to engage professional</td>
<td>USA</td>
</tr>
<tr>
<td>2002</td>
<td>2,057</td>
</tr>
<tr>
<td>2003</td>
<td>1,725</td>
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<tr>
<td>2004</td>
<td>1,530</td>
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<tr>
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<tr>
<td>2009</td>
<td>2,367</td>
</tr>
<tr>
<td>2010</td>
<td>2,075</td>
</tr>
</tbody>
</table>
members in recruiting their students as future members.

Remember, student growth comes from BSA member lead programs you and/or your peers are supporting— the $10 gift memberships, free sectional membership, and special early renewal rates.

**Recommendation 1:** It is recommended hold current membership rates for 2010.

**Recommendation 2:** It is recommended we again provide students and Post-Docs an incentive to renew, with an "early renewal" rate of $15 for Students and $20 for Post-Docs.

**Recommendation 3:** It is recommended we again hold a new student membership drive early in the fall with at a gift-rate of $10 per student.

### Membership Types

<table>
<thead>
<tr>
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<td>53</td>
<td>53</td>
<td>49</td>
<td>51</td>
<td>50</td>
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<td>54</td>
<td>51</td>
<td>48</td>
<td>48</td>
<td>46</td>
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<td>Ernestus</td>
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<td>212</td>
<td>291</td>
<td>192</td>
<td>114</td>
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<td>25</td>
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<td>21</td>
<td>9</td>
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<tr>
<td>R Family</td>
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<td>2</td>
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<td>Professional</td>
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<td>1393</td>
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<td>PostDoc</td>
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<td>PD Family</td>
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<td>Student</td>
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<td>816</td>
<td>785</td>
<td>701</td>
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<td>19</td>
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<td>4</td>
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<td>9</td>
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<td>Amateur</td>
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<td>3096</td>
<td>2969</td>
<td>2245</td>
<td>2328</td>
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**American Journal of Botany**

We have registered 1,293 institutional subscriptions for the year to date (1,398 in 2009). We have exceeded the budgeted sales volume of 1,277 subscriptions. Sales revenue is $843,000 as compared to a budget of $796,000.

Member print subscriptions, at 406 copies, are slightly below the budget of 450.

I’m pleased to report the move to Sheridan Press has gone smoothly, and that publishing members will see and experience the benefits of doing so. See the American Journal of Botany Editor’s report for more detail.

Over the past year we have seen a significant drop in the number of print copies of the AJB being delivered, down ~400 (-22%, ~1,800 per month down to 1,400). We use the average cost “per delivered issue” of the AJB as one metric in monitoring change. Over the past year, this has risen from $23.77 to $28.69 (+21%). Over the past eight years this has nearly doubled. It is interesting to note that the average cost “per produced issue” has remained relatively stable over that period.

The 2011 American Journal of Botany institutional rates will move to a base level of $665.00, up $40 (7%) on that for 2008 and 2009.
Membership & Institutional Subscription Activity

<table>
<thead>
<tr>
<th>Print Subscriptions</th>
<th>Online Only</th>
<th>Total Overall Relationship</th>
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<tbody>
<tr>
<td></td>
<td>USA</td>
<td>Other</td>
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<td>Member Subscriptions</td>
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<tr>
<td>Dec-02</td>
<td>671</td>
<td>389</td>
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<tr>
<td>Dec-03</td>
<td>622</td>
<td>355</td>
</tr>
<tr>
<td>Dec-04</td>
<td>561</td>
<td>332</td>
</tr>
<tr>
<td>Dec-05</td>
<td>561</td>
<td>296</td>
</tr>
<tr>
<td>Dec-06</td>
<td>488</td>
<td>296</td>
</tr>
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<td>Dec-07</td>
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<td>279</td>
</tr>
<tr>
<td>Dec-08</td>
<td>437</td>
<td>262</td>
</tr>
<tr>
<td>Dec-09</td>
<td>374</td>
<td>202</td>
</tr>
<tr>
<td>Jun-10</td>
<td>253</td>
<td>153</td>
</tr>
<tr>
<td>Institutional Subscriptions</td>
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<tr>
<td>Dec-02</td>
<td>1,354</td>
<td>402</td>
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<td>Dec-03</td>
<td>1,255</td>
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<td>Dec-04</td>
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<tr>
<td>Dec-05</td>
<td>1,205</td>
<td>312</td>
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<td>Dec-06</td>
<td>1,118</td>
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<td>Dec-07</td>
<td>1,044</td>
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<td>Dec-08</td>
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<td>Dec-09</td>
<td>906</td>
<td>218</td>
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<tr>
<td>Jun-10</td>
<td>747</td>
<td>172</td>
</tr>
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</table>

BSA Support Services

In 2008 the BSA began providing support to the Society for Economic Botany (SEB) as a means of better utilizing our infrastructure as envisaged by the BSA Board in 2002 as one way to serve our mission and the botanical/scientific community. In late 2009 we started providing support to the Society for the Study of Evolution (SSE). Agreements with both groups are based on an estimated annual staff time allotment as a base. The agreements can be found via the links at the end of this section. You’ll also find the spreadsheet used to estimate the SSE values. The total estimated hours used in the calculations are:

<table>
<thead>
<tr>
<th>Activity</th>
<th>SEB</th>
<th>SSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Membership Management –</td>
<td>290 hrs</td>
<td>156 hrs</td>
</tr>
<tr>
<td>Subscription Management –</td>
<td>214 hrs</td>
<td></td>
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<tr>
<td>Financial Management –</td>
<td>78 hrs</td>
<td>156 hrs</td>
</tr>
<tr>
<td>Communications Management –</td>
<td>62 hrs</td>
<td>63 hrs</td>
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<tr>
<td>Web Management –</td>
<td>156 hrs</td>
<td>156 hrs</td>
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<tr>
<td>Support Services –</td>
<td>13 hrs</td>
<td></td>
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<tr>
<td>Meeting Management –</td>
<td>266 hrs</td>
<td></td>
</tr>
<tr>
<td>Reporting –</td>
<td>31 hrs</td>
<td></td>
</tr>
<tr>
<td>General Management –</td>
<td>56 hrs</td>
<td>13 hrs</td>
</tr>
<tr>
<td>Total Hours –</td>
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<td>854 hrs</td>
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<tr>
<td></td>
<td>$28,000</td>
<td>$30,350</td>
</tr>
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</table>
In both instances, the first year of the relationship was a learning process, calling for more time than might be anticipated. We are still in that stage with SSE, which was exacerbated by being a staff member down over the past few months (Heather is on maternity leave).

Please note, the 1,710 hours represented in the contracts is equal to roughly .8 of a person over a year. The actual hours are spread across ~4 BSA staff. The difference in the actual contract values is due to the time the Executive Director needs to spend with each group. During the most demanding time with SSE (supporting their conference), we anticipate the time allocations were still within our tolerance level (20 hrs x 2 people x 12 weeks = 480 hrs) + (web 20 hrs x 5 weeks x 1 person = 100 hrs). We may use more than the remaining 276 hrs this year, but anticipate a much easier year in 2011.

The SEB contract has stabilized and we are able to add a good support product that falls within the time constraints. My feeling is that the SEB Board would feel they are getting a great deal and are being well served in the relationship. I see SSE evolving in the same manner in 2011.


**Botany Conference**

Upcoming Botany Conferences:
- 2011 – Joint meeting with the Society for Economic Botany, AFS, and ASPT in St. Louis, Missouri
- 2012 – Columbus, Ohio
- 2013 & 2014 Under Review – New Orleans LA, Dallas TX, Flagstaff AZ, Boulder CO, Bozeman MT…

**Plant Science Bulletin**

The *Plant Science Bulletin* is now live online. We are working with Marsh to place all items online as they come in. In addition, we have upgraded the “Botany in the News” feature and the “Books for Review” as RSS feeds, allowing us to experiment with this technology. All appear to be receiving positive feedback.

**PlantingScience**

I’m pleased to report that interactions on the *PlantingScience* site continue to improve. Our understanding of how the online interactions work best, and Claire’s approach to recruiting, training and supporting online mentors, are beginning to pay off. The graph to the right clearly shows that interest in the program continues to grow.

We have 1.42 million visitors to the site, worked with over 7,000 students from 86 schools in 32 states. There are now 13 Scientific Societies partnering in the program.
In the fall we will open the site to the largest session yet, and we hope to support the 10,000th student early in the new-year.

We have just completed our third round of project reporting to both NSF and Monsanto. You will find links to each report below.

http://www.botany.org/plantingscience/reports/Monsanto_submitted10report.pdf

**Website**

The overall growth trend for people accessing the BSA website at [www.botany.org](http://www.botany.org) has leveled off over the past year. Roughly 7,000 people per day visit the BSA web site. Over 13.56 million people have visited since we began recording statistics in February of 2000.

**Thanks, Bill**

---

**Investment Committee**

**Date:** July 09, 2010

**From:** BSA Investment Committee (IC)
- Joe Armstrong <jearmstr@ilstu.edu> (Member)
- Russell Chapman <rchapman@ucsd.edu> (Member)
- Mackenzie Taylor <mackenzie@utk.edu> (Member)
- Jack Horner <jth@iastate.edu> (Member and Chair)
- Bill Dahl <wdahl@botany.org> (ex officio, Executive Director)
- Laura Galloway <lgalloway@virginia.edu> (ex officio, Treasurer)
- Kent Holsinger <kent@darwin.eeb.uconn.edu> (ex officio, President)

**To:** Executive Committee (EC) and Council of the Botanical Society of America (BSA)

**Re:** Annual Report of the Investment Committee (IC) for 2009-2010 regarding the BSA Endowment Fund

Since the previous 2008-2009 Annual Report, the IC has:
• Monthly monitored the BSA Endowment Fund (EF) invested with Morgan Stanley Smith Barney (MSSB) in Des Moines, IA;
• Added a student voting member to the IC (Mackenzie Taylor)
• Had one conference call on May 26, 2010 with the MSSB staff (Bryan Boesen, CFP, CIMA, Vice President – Wealth Management) in Des Moines, IA;
• **Voted** to amend the two BSA statements of investment policy objectives & guidelines (see two attachments);
• **Voted** to provide the EC/Council $75,000 from EF unrestricted funds for 2010-2011 initiatives, pending further discussion and vote by EC/Council in Providence, RI.

Comparison of this year’s value with the EF values for the two previous years* and compared to the highest value in 2007**:

June 30, 2010 the EF value was $3,108,492*** (this is a yearly increase of $381,810 or 14.1%)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Equities</td>
<td>$ 2,389,761</td>
</tr>
<tr>
<td>Fixed Income</td>
<td>$ 458,900</td>
</tr>
<tr>
<td>Alternatives</td>
<td>$ 171,950</td>
</tr>
<tr>
<td>Cash &amp; Equivalents</td>
<td>$ 87,881</td>
</tr>
</tbody>
</table>

June 30, 2009 the EF value was $2,724,682*
June 30, 2008 the EF value was $3,326,358 *
*June 10, 2007 the EF value was $3,633,455 **

*This decline and slight increase in EF value has been the direct result of the erosion of the world economy, especially during 2008-2009, and the first one-half of 2010 (approximate decline of 14.4% over the three-year period).
***The EF is divided into two parts: Unrestricted funds (90.5% of total EF = $2,813,185); and Restricted funds (9.5% = $295,307) which represent Section and special awards funds.

The EF total management fee for this last fiscal year was $41,896.38 (1.4455%).

The chair or any member of the IC will be willing to answer questions about the EF.
Respectfully submitted,

Harry T. (Jack) Horner, IC Chair

**Attachments:** BSA Endowment Fund Overview and BSA Endowment Fund Statement of Investment Policy Objectives and Guidelines
Cheadle Award Committee

The BSA Cheadle Award winners for 2010 were selected by the Cheadle committee from 16 applicants. The Chair of the Developmental and Structural committee serves as head of the committee consisting of Bruce Kirchoff, Anna Jacobson and Erika Edwards. Edwards was on maternity leave and did not review applications; Jones did not rank the Mocko application due to conflict of interest. Five award winners were selected:

1. Chunmiao Feng, North Carolina State University (advisor Jenny Xiang)
   Evolutionary developmental study of inflorescence in Cornus
   (D & S section)

2. Christine Whitelock CSU Bakersfield (advisor: Brandon Pratt)
   Are xylem traits in chaparral species phylogenetically conserved?
   (Molecular Ecology and Evolution section)

3. Kerri Mocko Univ. of Connecticut (advisor: Cynthia Jones)
   A phylogenetic analysis of stomatal evolution and leaf shape in Pelargonium
   (D & S section)

4. Geraldine Boyden St. John's University (advisor Dianella Howarth)
   Virus-induced gene silencing of Cycloidea-like genes in Fedia cornucopiae;
   Duplications in the floral symmetry gene RADIALIS in Dipsacales and Pentapetalae are similar to those of other floral transcription factors
   (both talks in EVO-DEVO)

5. Courtney Traugh, CSU Bakersfield (advisor Brandon Pratt)
   Storage of non-structural carbohydrates in the xylem among chaparral shrub species may come at the cost of reduced stem mechanical strength.
   (Physiological section)

Merit Awards Committee

The Merit Award Committee for 2009-2010 received six meritorious dossiers for the BSA Merit Award, which is the highest award that BSA bestows. All who participated in the nomination process are to be commended for their attention to detail and thoroughness, which greatly facilitated the judging and reflected well on all of the nominees.

We were pleased to recommend that the Merit Award be granted to: Drs. Darleen DeMason, Nancy G. Dengler, Judy Jernstedt, Douglas E. and Pamela S. Soltis, and Dennis Stevenson, each of whom have made significant contributions to botany in research, education, mentoring and service to botany and BSA. Inscriptions are posted in the Plant Science Bulletin and plaques will be presented at the banquet.

Respectfully submitted,

MERIT AWARDS COMMITTEE (6 appointed members; 3 year terms)

- Scott Russell, Co-Chair (2010)
Moseley Award Committee
FROM: Roger D. Meicenheimer, Chair 2010 Moseley Award Committee
RE.: 2009 Moseley Award Committee Report

The 2009 Mosely Award Committee consisting of Chair Bonnie Jacobs (Southern Methodist University), Roger Meicenheimer (Miami University), and Gar Rothwell (Ohio University) judged 15 student presentations in Paleobotanical and Developmental and Structural sessions at the 2009 annual BSA meetings in Snowbird, Utah. The committee gave the Mosely Award to Erin Bissell, Department of Ecology and Evolutionary Biology, University of Colorado for her paper, “Modular genetic architecture of floral morphology in Nicotiana: comparative phenotypic and quantitative genetic approaches to floral integration.”

The composition of this years committee is Roger Meicenheimer (Chair), Gene Mapes (Ohio University), Stefan Little (UC, Davis), and Tatyana Livshultz (Academy of Natural Sciences of Philadelphia). We look forward to judging 14 student papers at the 2010 annual BSA meetings in Providence, Rhode Island.

Respectfully submitted on behalf of the committee,

Roger D. Meicenheimer

Development and Structural Section

Submitted by Cynthia Jones
July 2010

At the sectional meeting BOTANY AND MYKOLOGY 2010 held at Snowbird, Utah. We discussed the following items:
1) Students who received Cheadle and Developmental and Structural Section travel awards were introduced.
2) Carol Wilson was elected the new Program Chair of the section.
3) The section discussed the current bill pending before congress that would require that all publically funded research publications appear in journals with open
access beginning at 6 months. The concern of the BSA Council that this law would affect institutional subscriptions was voiced.

4) The section discussed the proposal brought before the BSA Council by the Executive board of the ASPT that BSA do away with abstracts in favor of title only submissions. Following much discussion, a straw vote was taken in favor of the society eliminating abstracts. There was nearly unanimous opposition to this proposal in the Developmental and Structural section.

5) David Lee suggested that D&S should sponsor an annual speaker at BSA until the Kaplan funds build up. It was suggested we start with “in house” people who will not require a fee. A motion was put forth that D&S sponsor a Kaplan lecture in 2010, for one year, as part of the general conference program. The officers of D&S would decide on speaker and honorarium. The motion passed.

6) There was general discussion of whether D&S should have an annual dinner – to raise money for the Kaplan fund or alternatively because it would be good for the section. There was no consensus and it was decided to evaluate after this year’s Kaplan dinner.

7) An issue was raised regarding the lack of guidelines for the poster award. A motion was made that a list should be generated that includes all posters on which the first and presenting author is a student. All will be considered for the award (not just students who ask to be considered). The motion carried.

8) There was also a general discussion about student awards and self-identifying for awards. The Chair of the section will contact the technology committee about redesigning the award submission web pages so that all students presenting papers or awards will be identified as students.

During the 2009 Meetings in Snowbird Utah, a total of 11 posters were presented in the Developmental and Structural Section and affiliated areas. Thirty oral presentations were delivered in the section or affiliated areas in.

Two symposia were sponsored in part by the Developmental and Structural section:
(2) Genome, Phenome, Environment, and Evolution of Land Plants.

At Botany 2009, the 2009 Easu Award for the most outstanding paper in structure and development was presented to Brett Bergman, for his paper entitled Effect of Leaf Nodes on the Mechanical Properties of Stems. Brett is from California State Polytechnic University and his co-authors were Frank Ewers and Edward Bobich.

The 2009 Moseley Award was presented to Erin Bissell from the University of Colorado for her paper entitled Modular genetic architecture of floral morphology in Nicotiana: comparative phenotypic and quantitative genetic approaches to floral integration. Her co-author was Pam Diggle.

During the spring of 2010, the executive committee of the Developmental and Structural section evaluated eight applications to the D&S travel fund. Six awards were presented. (The remaining two students received Cheadle Travel Awards.)

2. **Natalia Pabon-Mora**, New York Botanical Garden (advisor Amy Litt) The role of APETALA1/FRUITFULL genes in non-core eudicots; Analysis of candidate genes implicated in specifying dry versus fleshy fruit development in the Solanaceae

3. **RoseMary Puhr**, California State University Long Beach (advisor Simon Malcomber) Evolution of the YUCCAlike flavin monooxygenase SPARSE INFLORESCENCE1 lineage within flowering plants.

4. **Dustin Ray**, Cal Poly Pomona (advisor Edward Bobich) Seasonal Changes in Non-Structural Carbohydrates in Stems and Lignotubers of Burned and Unburned Southern California Black Walnut (Juglans californica)


6. **Chi-Chi Wu**, University of Colorado Boulder (advisor Pam Diggle) AbstractOneTitle: Development of the female gametophyte and young fruit of Balsas teosinte, Zea mays subsp. parviglumis

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The BSA Cheadle Award winners for 2010 were selected by the Cheadle committee from 16 applicants. The Chair of the Developmental and Structural committee serves as head. Five award winners were selected:

1. **Chunmiao Feng**, North Carolina State University (advisor Jenny Xiang) Evolutionary developmental study of inflorescence in Cornus (D & S section)

2. **Christine Whitelock**, CSU Bakersfield (advisor: Brandon Pratt) Are xylem traits in chaparral species phylogenetically conserved? (Molecular Ecology and Evolution section)

3. **Kerri Mocko**, Univ. of Connecticut (advisor: Cynthia Jones) A phylogenetic analysis of stomatal evolution and leaf shape in Pelargonium (D & S section)

4. **Geraldine Boyden**, St. John's University (advisor Dianella Howarth) Virus-induced gene silencing of Cycloidea-like genes in Fedia cornucopiae; Duplications in the floral symmetry gene RADIALIS in Dipsacales and Pentapetalae are similar to those of other floral transcription factors (both talks in EVO-DEVO)

5. **Courtney Traugh**, CSU Bakersfield (advisor Brandon Pratt) Storage of non-structural carbohydrates in the xylem among chaparral shrub species may come at the cost of reduced stem mechanical strength. (Physiological section)
Ecological Section
A Summary of the Ecological Section’s Activities in 2009-2010

1. Business Meeting conducted during Botany and Mycology 2009 meetings, at Snowbird, Utah. Topics at this meeting included:
   a. Call for and discussion of ideas for Symposia for Botany 2010 meeting, noting a limited number will be scheduled. Also they need to be 1/2 day with 6 speakers. Two ideas - habitat fragmentation and species interactions (Diane Byers) and conclusions from long-term ecological data sets (Claudia Jolles).
   b. Student Awards
      1) Travel award winners for Botany and Mycology 2009 were recognized: Kelsey L. Dunnell, of North Dakota State University, and Amanda M. Kenney, of University of Texas. We also thanked the judges: Jeff Walck, Rebecca Drenovsky, Heidi Dobson, Margaret Dewall and myself. Note this was Jeff Walck's last year as a judge and he was replaced by Phil Gibson.
      2) A limited number of students were competing for the paper and poster presentation awards. Some students were added to the list to be judged in response to an e-mail from Diane Byers to all of the students. The number for 2009 was 4 students for posters and 8 students for presentations but this is still low. A few students did not respond to the e-mail and thus were missed. Suzanne Koptur suggested students were shy and everyone needs to encourage students to sign-up to be judged. Joe Armstrong said there have been problems with other aspects of the site (volunteering box) and changes need to be made. Diane Byers suggested having students send her an e-mail directly in addition to checking the box (to be judged). (note for 2010 in a note to the section - I recommended that all students wanting to be judged to send me an e-mail. I did not receive any messages. However, more students have requestd to be judged for both the poster and paper presentation awards (both were at 14 before a couple were cancelled).
   c. Vice-chair election to be held. Jeff Walck is at the end of his term, thus early in the summer Diane Byers called for nominations. We have two people (Phil Gibson and Susan Cordell) nominated so elections will be held via e-mail in August/Sept). -- Note: Phil Gibson won this election and we have welcomed him as our new vice-chair.
   d. Scheduling conflict with section's meeting and poster session. We discussed moving our section's meeting time to Breakfast, Lunch or 4:00. It was concluded among the attendants that the current time (after paper presentations) was strongly preferred. It was suggested that we contact the scheduling committee and request that one evening be available for meetings (no posters or BSA banquet).
e. Networking Beyond Meetings - Janice Coons proposed a group to work on a web page/facebook page of information on section members' research and contact information. This idea was seconded by Suzanne Koptur. Others interested were to contact Janice.

f. Ways of increasing attendance at Botany meetings by Ecologists and Fund Raising. The following ideas were discussed: contacting local Universities; increased fund raising with more student travel awards. Discussion continued but focused on fund raising for more awards with the following suggestions: silent auction suggested but as problematic - raffle potentially a better alternative - Joe Armstrong's comment, increase section dues, sponsorship by companies such as Licor (Rebecca Drenovsky) or Forestry Supplies (Phil Gibson's comment), formation of a subcommittee to gather ideas (Diane Byers).

g. Topics from the Council Meeting. Should we have abstracts or just titles? Mixed but most wanted abstracts. Laura Galloway encouraged attendance at the business meeting.

2. Student Awards for Botany and Mycology 2009
   Travel Awards ($400 each)
   Kelsey L. Dunnell, North Dakota State University, Fargo, ND - Advisor, Dr. Steven E. Travers - Botany 2009 presentation: "Early flowering of plants in the Northern Great Plains linked to increasing spring temperatures over 100 years."

   Amanda M. Kenney, University of Texas, Austin, TX- Advisor, Dr. Thomas E. Juenger - Botany 2009 presentation: "Selection on water-use efficiency (WUE) in *Ipomopsis aggregata* - an analysis of the functional relationships among WUE, other ecological traits, and fitness."
   Presentation Awards ($150 each)
   Jesse Lincoln of Grand Valley State University for his poster titled "*Ailanthus altissima* increases nodulation in *Trifolium pratens*: a novel weapon for an invasive species."
   Meredith Jabis of Northern Arizona University for her paper titled "Pollinator-mediated gene flow fosters genetic variability in a narrow alpine endemic, *Abronia alpina* (Nyctaginaceae)."

3. Our section sponsored or co-sponsored two symposia at Botany and Mycology 2009
   a. Phylogenetic and functional patterns of host plants and their associated fungi: implications for symbiotic co-evolution, community interactions, and ecosystem processes. Organizers: Louise Comas, Amy Tuininga and Hilary Callahan. ($960 support)

   b. Environmental Climate Change: The role of marine and aquatic photosynthetic organisms in the global carbon cycle. Organizer: Anitra Thorhaug. ($240 support)
4. At Botany and Mycology 2009 our section had 44 papers, 20 posters and others in topics sessions.

5. In Botany 2010 we will be sponsoring or co-sponsoring three symposia.
   a. Plant invasions in a time of environmental change. Organizers: Rebecca Drenovsky, and Brenda Grewell. ($1,000 support)

   b. Plant/Pollinator Interactions in Fragmented Landscapes. Organizers: Diane Byers, Krissa Skogen, and Suzanne Koptur. ($1,000 support)

   c. A Historical Perspective on Botany in the Rhode Island Area. Organizer: Marissa Grant (name only)

6. In Botany 2010 there are 115 papers or presentations in the ecological section sessions.

7. The student travel awards to attend Botany 2010 at $400 each were given to:
   Tanya Cheeke, Portland State University, Portland, OR - Advisor, Dr. Mitchell B. Cruzan - Botany 2010 presentation: "Transgenic Bt maize: An evaluation of nine different Bt maize isolines on arbuscular mycorrhizal fungi."

   Keith Bowman, SUNY College of Environmental Science and Forestry, Syracuse, NY - Advisor, Dr. Dr. Robin Kimmerer - Botany 2010 presentation: "The influence of the diaspore (propagule) bank and diaspore rain on bryophyte (moss) community composition in northern white cedar swamps" and "Bringing mosses into the K-12 classroom."

Respectfully Submitted, Diane Byers July 25, 2010

**Economic Botany Section**

**Business Meeting Minutes, July 28, 2009, Snowbird, UT**

**Attendees:** Bussmann, R.W. (Chair), Abler, R., Sundberg, M., Eisenman, S., Grant, M., Coutant, N., Offringa, S.

R. Bussmann called the meeting to order at 3:45 P.M.

Secretary/Treasurer Felix Coe sends his apology for not being able to attend the meeting due to a family emergency. 2009 is the last year of the current office term of secretary/treasurer. Elections to be held 2010.

**Agenda Items:** Collaboration with other sections and sister societies, Section focus, Talk no-shows, Membership fees, Awards
Collaboration with other sections and sister societies:
- The Economic Botany Section and Historical Section plan to collaborate closer. A first effort will be the organization of a joint symposium focusing on Economic Botanists in the New England States for the 2010 meeting in RI, as well as joint field trips highlighting important collections in the region. Similar efforts will be planned for St. Louis 2011. The sections consider establishing a discount for members participating in the field trips.
- A workshop with the Teaching Section, focusing on Economic Botany / Ethnobotany is suggested
- EBS will continue efforts to cooperate closer with other sister societies like Economic Botany, Ethnobiology and Ethnopharmacology

Section focus:
EBS embraces all aspects of plant use, including classic Economic Botany, Ethnobotany, Ethnopharmacology etc. Rainer Bussmann will prepare an article for the Plant Science Bulletin to inform the membership about “Economic Botany in the 21st century” to attract more BSA members to the section.

How to handle talk no-shows:
Talk no-shows are still a problem. The section suggests implementing a policy where abstract acceptance is linked to the full payment of the meeting registration fee. No refunds given if talks are not cancelled before program goes to print.

Membership fees:
The attendees vote unanimously to establish a fee for membership in EBS. The new fee is set at US$ 2.00, provided that the BSA business office confirms that membership fees did not lead to membership drop in other sections.

Awards:
The attendees vote unanimously to establish the following awards:
- Student travel awards: EBS will award an amount of a total of US$ 500 for two student travel awards. The awards will be given according to the respective actual travel finance needs of two students, and are awarded by the section chair. Preference will be given to undergraduate students.
- Student presentation award: EBS establishes a US$ 100 award to be given for the best student paper presentation. An ad-hoc panel of three (3) members present, selected by the section chair, will serve as judges.

The meeting adjourned at 4:25 P.M.

BSA Historical Section
After many years of serving as Chair, Lee Kass steps down this year. We thank Lee for all the hard work and dedication and hope that she continues to be a force in the
Historical Section. Marissa C. J. Grant, graduate of Eastern Illinois University was voted in as the new Chair. The group invited Janelle Burke, Ph.D. candidate Cornell University, New York, to be Vice-chair and she graciously accepted. Carol Kelloff, Secretary Treasurer of the section presided at the Historical Section Annual meeting on 27 July 2009, at Botany 2009, Snowbird, Utah.

At Botany 2009, the section sponsored three presentations and one poster. Dennis Stevenson from the New York Botanical Garden was the Responder and presented a nice summary of the talks, and led the questions / discussion section.

The Emanuel Rudolph Award was established in 2006 for the best student paper or poster on a historical subject in botany. This year the Award was given to Mauricio Bonifacino, of the Universidad de la Republica, Uruguay for his presentation of “Cassini the 5th, Master of Compositae: insight into his life and work.”

Carol Kelloff spoke about increasing member awareness of the Historical Section and to try to increase membership for future meetings. She sent out a letter through the BSA website in hopes of encouraging more people to take an interested in the Historical Section and to attend the meetings and to generate more talks and posters on the history of Botany.

Marissa C. J. Grant accepted and will take the lead on organizing the symposium for Botany 2010 at Providence, Rhode Island. The participants discussed the possibility of co-sponsoring the symposium between the Historical and Economic Botany Sections along with a field trip and Dennis Stevenson talked about the presenting a talk or overview on the history of Botany in RI. Members agreed to stay in contact and discuss more on the symposium.

The BSA website [as of July 2010] lists 164 members of the Historical Section a substantial increase from last year. Keep up the good work everyone.

In July 2010, the section chair is organizing a committee to review eligible submission for the Botany 2010 Emanuel Rudolph Award. The committee members are Edward Cobb (Cornell University), Dennis Stevenson (New York Botanical Garden) and Carol Kelloff (Smithsonian Institution, alternate). At present 2 papers are eligible for the award.

The Section Secretary Treasurer thanks Bill Dahl, Marshall Sundberg, Lee Kass, Marissa Jernegan, Ed Cobb, Dennis Stevenson and Janelle Burke for their support.

Respectfully submitted,
Dr. Carol Kelloff, Secretary Treasurer, Historical Section, BSA
Department of Botany MRC166
Smithsonian Institution, NMNH
P.O. Box 37012
PALEOBOTANICAL SECTION
presented at The Botanical Society of America Council Meeting
1 August 2010, Providence, Rhode Island
The Paleobotanical Section currently has 374 members (339 regular members, 19 associate
members, and 16 honorary members). This represents an increase of 3 members since last year.

The Section has a program for the Providence meeting with 42 contributed papers, and 6 posters.

Of the contributed papers, 7 are student papers which will all be in competition for the Isabel Cookson Award, and many of those will be in competition for the Maynard Moseley Award. The Section will hold its annual mixer and banquet on Monday evening, 2 August 2010 in the Rotunda Room of the Convention Center. The annual business meeting is scheduled for 3:30 pm on Wednesday, 4 August 2010. This year’s Paleobotany button “I Dig Paleobotany” are available for $2.00 each.

Financial activity was light during the year and was primarily restricted to printing and mailing costs for the The Bibliography of American Paleobotany for 2009. The Bibliography was mailed to members and institutional subscribers prior to this year’s annual meeting. Copies will be provided for the BSA Archives and for the editor of the Plant Science Bulletin. Others may purchase copies for $18 each.

Respectfully submitted,
Michael T. Dunn, Secretary/Treasurer
Paleobotanical Section, Botanical Society of America

PTERIDOLOGICAL SECTION
Presented to the 2010 Botanical Society of America Council Meeting
Providence, RI

At the Botany & Mycology 2009 meetings in Snowbird, UT, the Pteridological Section of the Botanical Society of America co-sponsored one field trip, 13 oral presentations, and one contributed poster.
Approximately 25 people attended the combined fern foray/ecology of rare plants field trip associated with the 2009 meetings at Snowbird. This all-day field trip, targeting three localities in the central Wasatch Mountains, was ably led by Dr. Loreen Allphin (Brigham Young University) and Michael D. Windham (Duke University).

The judging committee for the Edgar T. Wherry Award (for best oral presentation in the joint Pteridological Section/American Fern Society contributed papers sessions) gave the 2009 award to Michael Sundue, of The New York Botanical Garden’s Institute for Systematic Botany, for his paper entitled “Silica bodies and their systematic implications in the Pteridaceae.”

The Pteridological section contributed $400 to the publication of the Annual Review of Pteridological Research, Volume 22 (2008).

Funding from BSA also allows the Pteridological Section to provide $400 travel awards (in conjunction with the American Fern Society) to qualified students giving oral presentations in the joint Pteridological Section/AFS contributed papers sessions. A total of four awards were provided to help students attend the Botany 2010 meetings in Providence, RI. These awards were given to the following students:

2) Chris Creese: University of California-Los Angeles (Advisor: Dr. Lawren Sack) – presentation entitled “The coordination of structure and function in 15 fern species from Southern California.”
3) Emily B. Sessa: University of Wisconsin-Madison (Advisor: Dr. Thomas Givnish) – presentation entitled “Relationships of New World Dryopteris (Dryopteridaceae).”

Submitted by Section Chair: Michael D. Windham
Pteridological Section, Botanical Society of America

July 26, 2010

**Systematics Section**

This year (2010) BSA Systematics Section used income from Section dues to support student participation in field trips associated with the Botany 2010 conference. ASPT has joined Systematics Section in offering field trip support. Expenses are being split evenly between Systematics Section and ASPT. We provided up to $100 per student toward the cost of the field trip. This year we supported 26 students for a total of $1,995.
Sponsorship of symposia, colloquia, and workshops. As in previous years, Systematics Section and ASPT have coordinated sponsorship and funding decisions to maximize support of symposia at the annual meeting. During fiscal year 2010 the BSA Systematics Section supported one symposium with funds and sponsored one symposium, three colloquia, and one workshop without funds for the Botany 2010 conference.

I list here all symposia, colloquia, and workshops that were sponsored and funded by Systematics Section and ASPT.

Financial Support. BSA Systematics Section and ASPT supported two symposia:
1) $500 from ASPT for “Leveraging the use of herbarium collections in modern systematics—examples from Pteridology” Organizer Erin Sigel
2) $1000 Systematics Section and $1000 ASPT for “Emerging Results from Studies of Gymnosperms on the Tree of Life II” Organizer Sarah Mathews

Sponsorship in name only (without financial support). The ASPT and/or BSA Systematics Section sponsored the following:
1) Colloquium- Emerging Results from Studies of Gymnosperms on the Tree of Life II. Organizer: Sarah Mathews
2) Colloquium- SERNEC: Four years of development of a herbarium Research Coordination Network. Organizer: Zack Murrell
3) Colloquium- Systematic and Evolutionary Perspectives on Apomixis. Organizer: Richard Noyes
4) Workshop- Building the US National Virtual Herbarium (USVH) Organizer: Mary Barkworth and Zack Murrell

Respectfully submitted,
Patrick S. Herendeen

Tropical Biology Section
During the 2009 meetings in Utah four oral papers and five posters were presented. A business meeting with the participation of 19 members immediately followed the oral session. There was a motion to institute dues for members of the section in order to have funds to sponsor student travel or an award. The motion was seconded, but did not carry. A motion was put forth that if the section did not sponsor a symposium, then the funds be used to cover student travel expenses. If that were the case this would be advertised well in advance of the deadline for abstracts in order to encourage participation of students during the contributed oral papers. Potentially the section could partially support up to three students. The motion was approved. However, this year the section is sponsoring a symposium and this travel award was not offered.

During the 2010 meetings in Rhode Island five oral papers and two posters will be presented. A business meeting will immediately follow. The section will also sponsor a
symposium titled “Plant/Pollinator Interactions in Fragmented Landscapes”, which is being coordinated by Suzanne Koptur from Florida International University.

Submitted by Fabián A. Michelangeli
The New York Botanical Garden

Northeastern Section
Philadelphia Botanical Club, Torrey Botanical Society
Sixty-fourth Annual Field Meeting, June 20 – 24, 2010

The meeting was held at Buxton School in Northern Berkshire County, Massachusetts. This is a small private high school in Williamstown. It has a lovely setting with dormitory space in the main building where our meals and evening activities took place. A porch and stone terrace made a pleasant evening setting. Two other buildings were available as dorm space. Six people not wanting dorm accommodations stayed at a local motel.

The staff of Buxton School was wonderful and saw to our every need…all very low-key and comfortable. Meals were excellent and the cook was very sociable and thought of everything to make our visit a pleasure.

A science teacher from the school joined us as the liaison to Buxton in exchange for joining our field trips. She made sure there were no glitches!

And lastly the weather cooperated beautifully but did give us moments of frantic worry.

In planning the meeting I enlisted the help of the two Berkshire botanists I knew, C. Barre Helquest, Biology Professor Emeritus, Massachusetts College of Liberal Arts, and Pam Weatherbee, Berkshire County Botanist. Although not able to join us, Barre met with me and we discussed Berkshire County and all the possibilities available as sites to visit.

Pam and I met several times, and this spring we visited various sites….some appropriate and some not. When plans were mostly finalized we visited the sites just before the meeting to be sure things were as we expected. Pam was a great help and I could not have done it without her.

I made up a folder for each participant with local information, meeting schedule and participant list. Included was a story of a trip to Greylock by Timothy Dwight and other dignitaries in 1799. A local farmer, Jeremiah Wilbur, who had built a road to the top where he farmed, escorted them. Also in the folder was information about Kampoosa Bog and a lengthy excerpt of a report on various aspects of Bartholomew’s Cobble flora. Instead of several plant lists I included a copy of Pam Weatherbee’s illustrated book, Flora of Berkshire County.

Sunday evening Pam gave a fine introduction to Berkshire County and showed slides of major Berkshire features, flora and early naturalists.

Monday we left by school bus for Greylock, the highest mountain in Massachusetts. On the way we stopped to see the Massachusetts endangered Hairy Honeysuckle (Lonicera hirsuta). At the base of the mountain Pam lead us up the Appalachian Trail a
ways to see the rare Broad-leaved Waterleaf (Hydrophyllum canadense) in an area that has many other rich soil plants.

Also on our way up the mountain we stopped at the historic site of Wilbur’s Clearing where Jeremiah had a farm back in the late 1700’s.

Next was a view stop, but across the road was interesting geology in the new road cut, and it took time to round up those interested in geology.

Mountain Cranberry (Vaccinium Vitis-idaea) grows in a small patch near the top of the mountain, and we were able to stop the bus in the road and direct the traffic so people could observe and photograph the plant.

At the top Pam pointed out the differences between the Mountain Ash (Sorbus americana) and the rare Northern Mountain Ash (Sorbus decora) that blooms earlier. Also we saw the rare Bartram’s Shadbush (Amelanchier bartramiana). People wandered around the top observing the krummholz balsam and other wildflowers. This was also our lunch stop when folks sat around enjoying the view.

In the afternoon we descended the mountain part way and Pam took us up the old Dynamite Trail where the CCC used to store their dynamite for construction purposes building the early roads and the lodge on the mountaintop. On this trail we saw Swamp Red Currant, (Ribes triste), the rare Woodland Millet (Milium effusum) and various ferns. Up along the brook we climbed to see a lovely tall specimen of Braun’s Holly fern (Polystichum braunii) and the rare Bristly Black Currant (Ribes lacustre).

The final stop of the afternoon was at the Trustees of Reservations Field Farm in Williamstown. Pam took the group around one of the trails where they saw several sedges and other limy plants. A longer hike had been planned but time ran out.

Monday evening our speaker was Williams College Geoscience Professor Paul Karabinos whose topic was, “The Geologic History of Western Massachusetts – How plate Tectonics and Glaciation Influence Plant Communities.” He explained the interesting geology of Berkshire County, which has areas of very old granites and gneisses, marbles and quartzite and schist. His geology map showed a ribbon of marble under the Dynamite Trail, explaining the rich and rare flora that we had seen that afternoon, and also the acid rocks under the less interesting areas. He commented on the special road cut that folks had spotted that morning.

The second day we went directly to Bartholomew’s Cobble in Sheffield, about an hour and a half bus ride. The Trustees of Reservations staff welcomed us and two leaders each took a group around the cobble area with its excellent variety of ferns and rich soil plants. We had lunch on the lawn then again divided into groups to see more of the area.

On the way home we drove to a sheep farm where we watched the farmer call his sheep from the high pasture to the barnyard. Quite a sight with several black lambs. With the pasture cleared we hiked up through the fields to a calcareous wetland where there were showy ladyslippers, which, unfortunately, were just about gone by. Deer have decimated most other ladyslipper sites in Massachusetts. Other flora attracted several who stopped to identify specimens in the fields.

Tuesday night was our own Robynn Shannon’s turn as the evening lecturer. She started by a humorous presentation to the oldest and youngest participants and to the couple who had been involved with the organization the longest. Then she turned serious with her talk, “Botanical Taxonomy and Nomenclature: How and Why Taxonomists Make Your Life Difficult.” She took a lot of kidding about her topic, but gave very good
explanations of the difference between taxonomy and nomenclature, and told folks to use whatever nomenclature it takes to communicate best with your peers.

Wednesday’s weather had predictions of thundershowers, but by that morning the bad weather had moved to the next day. We set out for Stockbridge and Kampoosa Bog. First stop along the way was to see a good example of black maple with low branches so everyone could see a leaf and note the difference from sugar maple.

We were lucky to have permission from Massachusetts Fish and Game Department to visit Kampoosa Bog, which is technically a lake basin graminoid calcareous fen, and contains one of the state’s most significant rare species habitats. The water level was higher than when we visited a few days before, and it was a wet hike in and a muddy route out but everyone seemed to take it with good humor. Although it was early in the season we saw several interesting species including Bog Birch (Betula pumila), the sedge (Tricophorum alpinus) and two species of orchids, Rose Pogonia (Pogonia ophioglossiodes) and Shining Ladies’- tresses (Spiranthes lucida).

We had our lunch on the campus of Tanglewood and in the afternoon walked the trails at the nearby Bullard Woods to see the impressive collection of big trees and woodland flowers. On the way home we stopped to explore a calcareous meadow in the town of Richmond.

We had our final banquet dinner followed by a delightful illustrated talk about “The Nature of New England” by Tom Tyning, Environmental Science Professor from Berkshire Community College.

Thursday breakfast and farewell completed the Field Meeting for 2010.

Larry Klotz and Robynn Shannon will be co-chairman for 2011.

Nancy N. Williams, 2010 Chairman, Northeastern Division

2010 Field Trip Plant List

**Pine Cobble**
- Hairy Honeysuckle (Lonicera hirsuta)
- New Jersey Tea (Ceanothus americanus)

**Appalachian Trail**
- White Avens (Geum canadense)
- Purple Flowering Raspberry (Rubus odoratus)
- Tall Meadow Rue (Thalictrum polygamum)
- Hog Peanut (Amphicarpa bracteata)
- Dwarf Raspberry (Rubus pubescens)
- Solomon’s Plume (Smilacina racemosa)
- Red Baneberry (Actaea rubra)
- Partridgeberry Michella repens)
- Red-berried Elder (Sambucus pubens)
- Red Trillium (Trillium erectum)
Broad-leaved Waterleaf (Hydrophyllum canadense)
Virginia Waterleaf (Hydrophyllum virginianum)
Wood Nettle (Laportea canadensis)
Silvery Spleenwort (Deparia acrostichoides)
Royal Fern (Osmunda regalis)

**Wilbur’s Clearing**
Red Spruce (Picea rubens)
Bluebead Lily (Clintonia borealis)
Whorled Aster (Aster acuminatus)
Bush Honeysuckle (Diervilla lonicera)
Rosybells (Streptopus roseus)
Indian Cucumber Root (Medeola virginiana)
Blackberry (Rubus allegheniensis)
Low Bush blueberry (Vaccinium angustifolium)
Goldthread (Coptis groenlandica)
Hobblebush (Viburnum alnifolium)
Wild Sarsaparilla (Aralia nudicaulis)
Tree Clubmoss (Lycopodium obscurum)

**Greylock Summit**
Heart-leaved Birch (Betula papyrifera var. cordifolia)
Mountain Cranberry (Vaccinium vitis-idaea)
Mountain Ash (Sorbus americana)
Northern Mountain Ash (Sorbus decora)
Bartram’s Shadbush (Amelanchier brartramiana)
Blue-eyed Grass (Sisyrinchium Sp.)
Yellow Rattle (Rhinanthus crista-galli)
Sheep Laurel (Kalmia angustifolia)
Balsam Fir (Abies balsamea)

**Dynamite Trail**
Swamp Red Currant (Ribes triste)
Northern Lady Fern (Atrium filix-femina)
Woodland Millet (Milium effusum)
Braun’s Holly Fern (Polystichum braunii)
Bristly Black Currant (Ribes lacustre)

**Field Farm**
Creeping Spikemoss (Selaginella apoda)
Penstemon (Penstemon digitalis)
Pendulous Bulrush (Scirpus pendulus)

**Bartholomew’s Cobble**
Maidenhair Spleenwort (Asplenium trichomanes)
Rock Polypody (Polypodium appalachianum)
Marginal Woodfern (Dryopteris marginalis)
Blunt-lobed Woodsia (Woodsia obtusa)
Evergreen Wood Fern (Dryopteris intermedia)
Bulblet Fern (Cystopteris bulbifera)
Walking Fern (Asplenium rhiophyllum)
Fly Honeysuckle (Lonicera canadensis)
Bloodroot (Sanguinaria canadensis)
Wild Ginger (Asarum canadense var. acuminatum)
Herb Robert (Geranium robertianum)
Ostrich Fern (Matteuccia struthiopteris)
Bladdernut (Staphylea trifolia)
False Hellebore (Veratrum viride)
Canada Lily (Lilium canadense)
Narrow-leaved Spleenwort (Diplazium pycnocarpon)
Goldie’s Fern (Dryopteris goldiana)
Wild Cucumber (Echinocystis lobata)
Sweet Cicely (Osmorhiza claytonii)
Blue Cohosh (Caulophyllum thalictroides)
Maidenhair Fern (Adiantum pedatum)
Cut-leaved Toothwort (Dentaria lacinia)
White Baneberry (Actaea pachypoda)
Honewort (Cryptotaenia canadensis)
Silvery Spleenwort (Deparia acrostichoides)
Xmas Fern (Polystichum acrostichoides)
Hooked Crowfoot (Ranunculus recurvatus)
Thimbleweed (Anemone cylindrica)
Golden Alexanders (Zizia aurea)
Pagoda Dogwood (Cornus alternifolia)
Yellow Oak (Quercus muhlenbergii)
Purple Cliff-brake (Pellaea atropurpurea)
Harebell (Campanula rotundifolia)
Columbine (Aquilegia canadensis)
Hackberry (Celtis occidentalis)
Red Cedar (Juniperus virginiana)
Wild Garlic (Allium canadense)
Box Elder (Acer negundo)
Common Milkweed (Asclepias syriaca)
Wild Bergamot (Monarda fistulosa var. fistulosa)
Motherwort (Leonurus cardiaca)
Fragile Fern (Athyrium tenuis)
Carion-flower (Smilax herbacea)
Butternut (Juglans cinerea)
English Plantain (Plantago lanceolata)
Mountain Laurel (Kalmia latifolia)
Moonseed (Menispermum canadense)  
Scirpus sp.

**Farm**  
Showy Lady’s Slipper (Cypripedium reginae)

**Carey Corner Fen**  
Ladies-tresses (Spiranthes lucida)  
Horsetails (Equisetum variegatum)  
Autumn Willow (Salix serissima)  
Water Avens (Geum rivale)

**Kampoosa Field**  
Bladder Campion (Silene vulgaris)  
Indian Hemp (Apocynum cannabinum var. cannabinum)  
Maiden Pink (Dianthus deltoides)  
Devil’s Paintbrush (Hieracium aurantiacum)

**Kampoosa Bog**  
Bog Birch (Betula pumila)  
Sweet Gale (Myrica gale)  
Shrubby Cinquefoil (Pentaphylloides floribunda)  
Large Cranberry (Vaccinium macrocarpon)  
Bog Bean (Menyanthes trifoliata)  
Bog Rosemary (Andromeda glaucophylla)  
Rose Pogonia (Pogonia ophioglossoides)  
Pitcher Plant (Sarracenia purpurea)  
Alpine Bulrush (Scirpis hudsonianus)  
Hoary Willow (Salix candida)  
Carex aquatilis  
Northern Bladderwort (Utricularia intermedia)

**Bullard’s Woods**  
Tulip Tree (Liriodendron tulipifera)  
Shagbark Hickory (Carya ovata)  
Pignut Hickory (Carya glabra)  
Sugar maple (Acer saccharinum)  
Red oak (Quercus rubra)  
White Oak (Quercus alba)  
Wild Chervil (Anthriscus sylvestris)

**Southeastern Section**
2010 Student Awards

This is a truncated report on the SE section.

We had our annual meeting, concurrent with the Southern Appalachian Botanical Society, at the ASB meeting in Asheville, NC in April. At that meeting it was agreed to continue the $300 award for best paper and best poster though we are changing the way students apply.


Best Paper Award $300 Chris Stoehrel. Western Carolina University. Phylogeny of the *Trillium erectum* complex.

Both these awards were presented at the Awards Banquet at the annual meeting of the Association of Southeastern Biologists held in Asheville, North Carolina 09 April 2010.

Lytton John Musselman, Chair
Botanical Society of America—Southeastern Section