PRESIDENT'S LETTER

We Have a New Name

We have begun the transition to our new name, the American Society of Plant Biologists. ASPB calendars were sent to all members in February. In keeping with the membership vote to change the name, numerous minor changes to the constitution and bylaws were approved by the Executive Committee at its meeting on February 24. The modifications are posted on the Society's Web site (look for the item in Hot News). To make the legal paperwork under which our Society is incorporated consistent with our new name, a general meeting of the membership was convened on February 24 to vote for the required changes in the articles of incorporation. It passed, with one dissenting vote to represent those who favored the former name. And a reminder: The names of our journals have not been changed by the vote or subsequent actions.

We are now planning an active membership drive, spearheaded by Hans Kende (Michigan State University). You can expect to receive a packet from us, asking for your help in identifying plant biologists who ought to be, but are not, members of ASPB. Recall that our Society publishes two of the leading journals in this field, keeps close watch on events in Washington that affect our future, and works to secure funding for programs that will allow our science and its applications to prosper. Our Society is often asked to comment on plant-related legislation and has proposed wording that has been incorporated into legislation. Members outside the United States may not care about these latter efforts, but do not underestimate the positive competitive effect that funding initiatives in Washington may have on parallel programs in other countries. Our Society works on behalf of plant biologists, and it needs their support to be effective.

Vote for Anton Lang’s Dog

Ever wonder how our Society really elects its leaders? It begins with the nomination process, in which each member is allowed to nominate one person for each open office. The person with the highest number of nominations is asked to run on the ballot with a second candidate who is put forward by the Society's nominating committee. The members vote, and the count determines the new officers.

Elections in recent years have drawn approximately 1,100 votes, which represents about 20 percent of the membership. Not so good, but it could be worse. I hope that the advent of electronic balloting will raise this number, because this Society was intended to be a membership-driven organization. In the name change vote of December 2000, we had the largest voter turnout on record—1,904 votes—which may be attributed to a combination of member interest in the issue and the advent of electronic balloting.

The most important, and the weakest, part of this system is the nomination process by the membership. Typically, 50–60 nominations are received, spread over a wide range of names. Do the math and you can guess what the highest count comes to.

Only about 1 percent of the membership submits nominations. There is an apocryphal story about Anton Lang's dog accruing the largest number of nominations some years ago. (For those whose memory does not go that far back, Lang was a professor at the Michigan State University—Department of Energy Plant Research Lab, and the large number of Society members from MSU may account for this tale.) For the true story underlying this myth, ask Hans Kende. The point is, your vote does continue on page 3

INSIDE...

- Society Releases Statement on Genetic Modification of Plants Using Biotechnology
- Members Organize GM Workshop for Press, Legislative Aides
- New Look for Newsletter!
Future ASPP Annual Meetings

2001
Saturday, July 21, through
Wednesday, July 25
Providence, Rhode Island

2002
Saturday, August 3, through
Wednesday, August 7
Denver, Colorado

2003
Saturday, July 26, through
Wednesday, July 30
Honolulu, Hawaii

2004
Saturday, July 24, through
Wednesday, July 28
Orlando, Florida

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and prepared by ASPP staff
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EXECUTIVE COMMITTEE

Chair
Donald J. Cosgrove
Vice-Chair
Vicki L. Chandler
Secretary
Daniel R. Bush
Treasurer
Mark R. Bradly

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Editor, ASPP NEWS, 15501
Monona Drive, Rockville, MD
20855-2768 USA; e-mail
nancyw@aspp.org; telephone
301-251-0560, ext. 117.
Count, and never more than in the nomination process. You will receive this issue of the newsletter after this year's nomination process has been completed, but you still can vote in the election, which should be in process now. Do it! And next year, instigate some conversations with your colleagues about likely nominees. The Society needs your thoughtful input.

Other News from the Executive Committee

Our finances remain healthy; sales of the new textbook—Biochemistry & Molecular Biology of Plants—are greatly exceeding projections; and the documentary film on the history of agriculture, sponsored by the Education Foundation, will be ready for viewing at the annual meeting in July. Look for it, but bring your own (transgenic) popcorn!

Foundation Documentary in Final Stages

The largest initiative ever undertaken by the Education Foundation—the production of a major documentary film for television—is nearing completion. Final editing of the film is expected to be completed in a few weeks. Many hours of film footage taken in Iowa, California, Mexico, England, and Israel are being edited for a final production format of 90 minutes, divided into three parts. The film will trace the history of agriculture from its beginning some 10,000 years ago. It will look at landmark advances in agriculture made possible by science, including the use of biotechnology to modify plants.

Those attending the annual meeting in Providence, Rhode Island, July 21–25, will have the opportunity to see a presentation of the completed film. Education Foundation Chair Bob Goldberg volunteered a substantial number of hours to assist with production of the film, from concept development, review of script, and filming on location. Several other ASPP members, including past presidents Debbie Delmer and Brian Larkins, contributed to production of the film.

Kugelblitz, an award-winning science film production company, is producing the film for the Education Foundation. An earlier television production by Kugelblitz titled The Rise and Fall of GM that dealt with public acceptance of modified foods received critical acclaim in England.

The Executive Committee approved preliminary plans by the Program Committee to sponsor a Plant Genetics Meeting in the fall of 2002. This gathering is intended to be smaller than the annual meeting—in the range of 200–400 participants—and to pay for itself or perhaps generate a modest surplus. This initiative is the first foray by the Society to organize meetings outside its annual meeting, and plant genetics may be an ideal test of the concept because the field has broad impact on plant biology research and because there are no competing meetings that include a wide range of species.

Finally, the committee approved the site for the annual meeting in 2004: Disney World in Orlando, Florida. Yes, you can bring your family and friends.

Daniel Cosgrove
Penn State University
dcosgrove@psu.edu

Foundation Staff Changes

A search is being conducted for a full-time director for the Education Foundation, a new position. The director will conduct development activities with other foundations, industry, and individuals to support future Education Foundation programs. He or she will also work with the Foundation Board and Society leadership in identifying new programs for the foundation made possible by expanded development activities.

A search is also under way for an administrative assistant for the foundation. Foundation administrative assistant Janice Jordan resigned February 16 to begin work with an information technology firm in Potomac, Maryland, as a policy analyst. The firm, Information Technology International, supports federal, state, and community initiatives in the areas of juvenile justice, child development, social welfare, health programs, environmental programs, and employment training.

Janice, who formerly did social work, will be involved in reviewing programs for children sponsored by the Department of Justice. She worked for the Education Foundation for nearly four years and also provided administrative support for Education and Public Affairs activities. ASPP staff thank Janice for her many contributions and wish her well.

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The Plant Cell Introduces Digital Proofs for Authors

The Plant Cell will begin sending digital proofs to authors of accepted manuscripts effective with the June 2001 issue. This new system, called E-Proof, delivers article page proofs to authors electronically as PDF pages for corrections and revisions. Supplemental materials such as reprint order forms and author instructions on how to handle the proofs are also provided. The system is simple to use and will reduce the production time of manuscripts by eliminating the cost and use of more traditional mail systems. Color figures will be included in the digital proofs, but traditional color proofs will also be mailed to authors who request them.

Janice Jordan

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Four Important Meetings at Headquarters

Trustees Meeting

Society headquarters in Rockville, Maryland, was the site of four important meetings February 23-25, 2001. The Board of Trustees (BOT), which is charged with overseeing the investments of the Society, received presentations from three financial advisers on February 23. Although the Society has enjoyed a positive return on its investments over the past 20 years, during which time one adviser has managed the investments, the BOT wanted to learn if other services could be provided to further enhance the return. BOT Chair Don Ort was pleased with the three presentations and is requesting additional information before any further decisions are made.

Executive Committee Winter Meeting

The Executive Committee met February 24 with a full day's agenda. President Dan Cosgrove expressed his appreciation for the 100 percent attendance and outstanding efforts of all committees in bettering the Society. Highlights of the meeting include the following:

- Changes to the constitution and bylaws will be presented to the membership. These changes are the result of the membership vote to change the Society's name.
- Investigation of a National Academy of Sciences plant biology award will be directed to Society members who are also Academy members to develop a strong rationale for such an award and funding alternatives.
- Travel grant awards were approved as part of the regular budget in light of the program's success over the past three years.
- Approval was given to the Program Committee to organize a specialty conference on plant genetics in the fall of 2002.
- Orlando, Florida, was designated as the site for Plant Biology 2004.
- The new position of Webmaster was approved to enhance the electronic communications of the Society.
- The Society’s institutional site license will be amended to permit authorized users online access to Plant Physiology and The Plant Cell from off-campus locations.
- Recommendations for the best method to digitize back issues of Plant Physiology and The Plant Cell and suggestions for funding will be presented at the July meeting.
- A special membership drive, focusing on the name change and member benefits, will be conducted this year.
- The name of the Committee on the Status of Women in Plant Biology will be changed to the Women in Plant Biology Committee.

Special Meeting

Midway during the Executive Committee meeting, a special membership meeting was held to vote on changing the Society's articles of incorporation to comply with the previous approval to change the Society's name to the American Society of Plant Biologists. Twenty-seven members attended the meeting and voted to change the articles to make them uniform with the Society's new name. This meeting also gave the visiting members a chance to interact with Executive Committee members and staff.

Membership Committee

Dan Cosgrove and Hans Kende conducted a meeting of the ad hoc Membership Committee on Sunday morning, February 25, to stage a special membership drive. It is hoped that the name change will stimulate interest within new sectors of plant biology and provide a platform to highlight the many services and benefits that the Society provides. "If each member encourages just one colleague, student, or postdoc to join, our membership can double!" Hans Kende pointed out. Incentives will be developed for members to spread the word that belonging to your professional society is very important. Watch for this exciting new campaign to roll out in the next couple of months. The committee also discussed possible enhancements for the newsletter and Web page. Stay tuned for new and interesting features.

Important Dates in 2001

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<tr>
<td>Northeast Section meeting—Worcester, Massachusetts</td>
<td>May 4-5</td>
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<td>Washington, DC, Section meeting—Arboretum, Washington, DC</td>
<td>May 10</td>
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<td>Plant Biology 2001—Early bird registration cutoff</td>
<td>May 15</td>
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<td>Plant Biology 2001—Housing registration cutoff</td>
<td>June 15</td>
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<td>Plant Biology 2001—Providence, Rhode Island</td>
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A New Name, a New Newsletter!

The ASPP NEWS will become the ASPP NEWS with the May/June issue, to reflect the name change of the Society to the American Society of Plant Biologists. Along with the new name, we’re going to introduce a whole new look and feel. Our goal is to make the newsletter more inviting to read and more interesting to all of our members.

We have lots of ideas for new features, and we welcome more! Dina Mandoli will be writing a new “Bioethics” column that takes a case-study approach. Upcoming topics will include how ethics and morals differ, effective ways to conduct case studies, authorship (rules for authorship), data handling (what constitutes falsification of data, etc.), mentorship (how it turns right/wrong), conflict of interest, and genetically modified organisms. Jeff Habben will be coordinating a column dealing with issues from an industry perspective. Edgar Spalding will recruit grad students to write a column specifically geared to their colleagues. We have other ideas as well (information on GMO issues, international and national initiatives that affect us, useful Web links, and more).

What is most important is that we hear from you. Please tell us what you like to see in YOUR newsletter. We’d appreciate your thoughts and have suggested a few questions to jump-start your thinking. Any and all feedback is welcome and can be e-mailed to nancyw@aspp.org. Let us hear from you!

- What information in the current newsletter would you like to see retained?
- What do you find most useful about the newsletter?
- What would you like to see in the newsletter that has not been covered in the past?
- How would you rate the overall quality of the articles?
- How useful do you find the job ads and meeting notices?
- Would you like to see the newsletter posted online? If so, would you still opt to receive the print newsletter in the mail?

Send your answers and suggestions to nancyw@aspp.org!

Section News

The Western Section of the Society has distributed a questionnaire to its members asking for input on how best to serve the section. (So far, we have only 24 returns, so Western Section members, please respond!) The section’s last meeting, “Plant Genomics,” organized by Sharman O’Neill, Frances Dupont, and Rolf Christophersen in November 1998, was a terrific success, but we are finding it impractical to plan another meeting like that one and are looking for members’ input on how best to interact and promote the interests of the section.

With the changes in the format of the national meeting, we recognize that our students and postdocs are having less opportunity to present their research. Furthermore, because of the geographic spread of the Western Section and the infrequency of sectional meetings, we all have less opportunity to meet in person to discuss matters of importance to plant biologists. It’s also true that there are a number of Society members living in western states who are not members of the Western Section. We draw your attention to the commentary by Jonathan Monroe, “Can the ASPP Geographic Sections Serve Us Better?” that appeared in the Nov/Dec 2000 edition of the ASPP NEWS (the article is posted at http://csm.jmu.edu/biology/mo rno 0/e d/asppsect/sections.html). Monroe suggests we realign the sections and establish smaller regions in which to hold annual meetings. An alternative would be to create regions within the Western Section, centered around concentrations of members (for example, L.A., Bay Area, Pacific Northwest, Utah/Nevada).

Western Section members, please respond to the questionnaire! These were distributed in February and are to be returned to Kelley Noone at the national office. If you need another copy, please e-mail Kelley at knoone@aspp.org. If you’d rather offer your opinions and ideas without the questionnaire, please send your comments to Dina Mandoli at mandoli@u.washington.edu or to Liz Van Volkenburgh at lizvanv@u.washington.edu.

New Staff

Wendy D. Sahfi joined the Society in March as Webmaster. She will be maintaining the Society’s Web site and adding new functionality to make it even more exciting and useful for users to visit every day. She has over six years of experience on the Web doing Web design, Web server administration, Web application development, and project management. She was previously a Web project manager for ScienceWise and has also worked with US News, Ingenium Corporation, Microwave Signal, Vitro Corporation, and the American Occupational Therapy Association.
Society's Statement Cites Promise, Relative Risks and Benefits of Modified Plants

The ASPB Executive Committee has approved a statement on genetic modification of plants using biotechnology. The Committee on Public Affairs recommended the initial version of the statement to the Executive Committee. The statement will be sent to members of Congress, the Executive Branch, and the news media.

While noting the many benefits of research using biotechnology, the statement points out the need to address issues related to food and environmental safety and socioeconomic and ethical concerns. The statement makes use of the new name of the Society—the American Society of Plant Biologists—as approved by vote of the membership.

Following is the ASPB statement on genetic modification of plants using biotechnology:

STATEMENT OF THE AMERICAN SOCIETY OF PLANT BIOLOGISTS ON GENETIC MODIFICATION OF PLANTS USING BIOTECHNOLOGY

Technical advances in agriculture, coupled with time-honored methods, provide the best opportunity for world food supplies to meet the demands of an ever-growing world population while protecting our environment and natural resources. The American Society of Plant Biologists (ASPB) submits this statement supporting the continued, responsible use of new technologies, such as recombinant DNA technology (hereafter referred to as "biotechnology"), which can add effective tools to those needed to combat hunger and maintain a healthy environment. ASPB also supports the continued use and further development of rigorous and responsible science-based procedures to assess the risks and benefits of the technology and its products.

The use of biotechnology to modify plants represents a significant advance in plant science, building on centuries of human involvement in the genetic modification of crop species. It allows for the transfer into a plant of specific, characterized genes under known regulatory control. The precision of this technology and the knowledge of the specific nature of the manipulated genetic information make the effects of this type of gene transfer more predictable than the random mixing of genes that occurs during classical breeding.

The rapid adoption of the first generation of these crops, made tolerant to certain pests or herbicides, underscores the benefits that can accrue to users. Early data indicate that some farmers have realized reduced pesticide use, increased crop yield, and easier weed control, leading to reduced soil tillage. Such advances can complement other sustainable agricultural practices and lead to significant environmental benefits, such as lowered soil erosion and reduced use of synthetic pesticides.

Modified crops resulting from plant biotechnology should provide major health benefits to people throughout the world. Examples include enhancing the vitamin and mineral content of staple foods, eliminating common food allergens, developing higher protein quality and quantity in widely consumed crops, and modifying edible plants to contain vaccines against many illnesses. In many cases, conventional breeding cannot achieve such improvements. Specially selected and modified plants are also being used in nonfood applications, such as phytoremediation, where plants remove contaminating pollutants from soils and water resources. Modified plants can also serve as biofactories to make compounds presently made using nonrenewable resources, e.g., industrial oils, fuels, and plastics.

Responsible use of new plant biotechnologies could contribute to a more sustainable and environmentally compatible agriculture. Responsible development and use of modified plants is essential to protecting the quality of life and the environment for an ever-growing world population.

Concerns raised by some interests about this technology and its products include food and environmental safety issues and socioeconomic and ethical matters. To the extent that scientific data can be gathered to address these concerns, the ASPB supports and encourages such investigations. Regulatory agencies must mandate extensive safety testing of new biotechnology-derived food products, testing which far exceeds that of foods created by classical breeding. Consumer confidence is paramount to the acceptance of the products of biotechnology. It is imperative that the extensive federal regulatory framework presently in place be maintained and regularly reviewed to determine whether additional scientific data are needed to address consumer concerns.

A number of expressed environmental concerns currently raised as potential problems with modified plants also should be considered. A number of these concerns also must be addressed with conventionally bred plants and traditional agricultural practices. Scientists and regulators must continue to guard against gene transfer to compatible wild species, development of pesticide-resistant insects, and possible adverse effects on genetic diversity. Regulators, scientists, and farmers should continue to maintain sufficient monitoring to assess the environmental effects of large-scale growth of crops modified through biotechnology. In addition to the oversight of modified crops by federal regulatory agencies, ASPB encourages rigorous independent studies by third-party researchers.

No technology is risk-free, and fear and mistrust often accompany the introduction of new processes and products. Growing crops utilizing organic practices or high-inputs of pesticides and fertilizers has both benefits and tangible risks. Modifying plants using traditional breeding practices is not risk-free and neither is the application of biotechnology. The United States has adopted acceptable standards for the safety of organic production, high-input farming, conventional breeding, and biotechnology.

To ensure the continuation of these standards of safety, ASPB strongly endorses the continued responsible development and science-based oversight of biotechnology and all food production technologies and practices. ASPB is dedicated also to providing science-based information needed for the government, the private sector, individuals, and other stakeholders to make informed choices about the products resulting from biotechnology. ASPB believes strongly that, with continued responsible regulation and oversight, biotechnology will bring many significant health and environmental benefits to the world and its people.
Society Joins Energy Sciences Coalition Supporting DOE Research

A broad-based coalition of universities and now science societies is encouraging the administration and Congress to strengthen the nation’s financial commitment to the Department of Energy’s Office of Science in fiscal year 2002. The Society has joined this Energy Sciences Coalition (ESC), which has recently reached out to science societies. The group meets monthly. The Energy Biosciences program within the Office of Science supports basic research on plants and microbes.

For the current fiscal year, the Society joined forces with the National Corn Growers Association (NCGA) to protect the DOE Energy Biosciences program from cuts planned in the Senate. ASPP and NCGA signed a joint letter to all House/Senate conference members in support of Energy Biosciences. ASPP Campus Contacts and their colleagues sent letters to key conferees urging increased support for Energy Biosciences.

The FY2001 appropriation for Energy Biosciences went from $28,274,000 in the House to $33,714,000 in the House/Senate Conference Agreement that ultimately determined funding levels.

ASPP Members Organize Workshop for Press, Legislative Aides on GM Crops

At regular intervals we are urged to get out of our ivory towers and educate Joe Public. Easier said than done, as we all know. San Diego plant biologists decided to give it a try and organized a “Workshop of GM Crops and GM Foods for Media Representatives and Legislative Aides” on February 2, 2001. We found it a very rewarding experience and are sharing some ideas on how to go about it, should you be interested in organizing such an event. We next plan to do a workshop for high school biology teachers.

In this case a major obstacle was finding our audience. I don’t know any media people or legislative aides! We contacted the University of California San Diego’s Public Affairs Office and the Legislative Liaison Office. They were able to identify science writers at the various newspapers (big and small) in San Diego and the legislative aides. They issued the invitations, and people did show up. Only about 60 percent of the pre-registered media people came, but that is usual. Media reps often have unexpected deadlines. If you educate 10 serious people, that’s a great achievement. We managed to get a few farmers as well (no easy feat in San Diego).

We kept the presentations short: about 15–20 minutes each, and each one followed by 10 minutes of questions. We presented talks on GM technology and plant breeding (Maarten Chrisepeels, UCSD), the GM pipeline (Peggy Lemaux, UC Berkeley), the genome project: from the weed to the crop (Joanne Chory, Salk Institute), food safety (Carl Winter, UC Davis), and discoveries in basic science that lead to agricultural innovation (Marty Yanofsky, UCSD). As you can see, one objective was to inform about genetically modified crops, but another objective was to show how basic scientists contribute to agriculture (this is important for our legislative aides to know). Shape your message to fit your audience. Additional faculty members were on hand to answer questions.

In the middle of the morning, we had a 45-minute break to isolate DNA from vegetables. This extremely valuable activity was run by two graduate students. It demystified DNA genes, and it broke down the formality of the setting so that people began to talk to one another. The event was a great hit with all the participants because they saw the DNA come out of solution after alcohol was added.

Lunch was held at the Faculty Club and provided another opportunity to exchange views. After lunch we went to the field station and looked at greenhouses and fields. Bob Schmidt (UCSD) set up another experiment there. We ended at 2:30 pm so that the media reps could be back at their desks by 3:00 pm.

You will need to prepare a small press packet (10–15 pages) that contains a sheet with brief bios and contact information (phone numbers and e-mail addresses) for the presenters, as well as some short, easy-to-understand articles about the issues (we copied from the front sections of Science and Nature, as well as from newspaper articles

Newly Formed Coalition Seeks Increases in Agricultural Research Funding

A coalition of commodity groups, scientists, and science society representatives have organized this year to seek a doubling in federal support for agricultural research and extension over five years.

The coalition is called National C-FAR, which stands for the National Coalition for Food and Agricultural Research. National C-FAR is modeled after Illinois C-FAR, a coalition that has met with some success in its support of agricultural research at the state level.

Among the groups with representatives in the new coalition are ASPP, the National Cotton Council, Forest Landowners Association, National Grain & Feed Association, U.S. Rice Producers Association, American Farm Bureau Federation, National Corn Growers Association, National Council of Farmer Cooperatives, American Meat Institute Foundation, National Cattlemen’s Beef Association, North American Millers’ Association, American Veterinary Medical Association, Association of American Veterinary Medical Colleges, American Crop Protection Association, American Feed Industry Association, and Wildlife Management Institute.

Some in the group have acknowledged that seeking a doubling in agricultural research funding over five years, or an average of 14.4 percent a year over five years, is somewhat ambitious in the current budget environment. At the same time, joint efforts by producers and scientists may help increase the prospect of better funding for research programs sponsored by the Department of Agriculture and other agencies.

ASPP staff attended the inaugural meeting of National C-FAR, which was held January 31 in Washington, DC, and are participating in the group’s legislative committee meetings.
San Diego Scientists Produce Brochure on Modified Foods

A brochure for the general public titled "Foods from Genetically Modified Crops" has been produced by the San Diego Center for Molecular Agriculture (SDCMA), an alliance of scientists who work at public research institutions in San Diego. Maarten Chrispeels, ASPP member and past editor-in-chief of Plant Physiology, is director of the SDCMA and editor of the brochure.

The 16-page color brochure explains several benefits that modified foods offer people and the environment. It covers relative safety of foods modified using plant genetic engineering and addresses questions raised by opponents of this modern technology. The brochure explains the importance of using new technologies such as biotechnology to meet growing world demand for food. Although, genetically modified (GM) crops aren't the only solution to the problem of world hunger, the piece notes that modified foods do play an important role in meeting increasing food demands.

People have been manipulating crops for some 10,000 years, the brochure points out as it compares traditional plant breeding to modern transformation technologies. The section devoted to organic farming maintains that universal use of organic farming practices alone would leave half the people in the world today (3 billion of the world's 6 billion population) without food.

The full copy of the brochure can be viewed on the Web at www.sdcma.org. The first printing of 5,000 copies was funded by The Samuel R. Noble Foundation of Ardmore, Oklahoma. You can obtain up to 25 copies free of charge while supplies last for use with groups of lay people or students to discuss foods from GM crops. Larger quantities (100–300) can be obtained by making a donation to SDCMA. General contributions to fund the next printing of the brochure are also accepted. Contact mchrispeels@ucsd.edu for more information.

Maarten Chrispeels
Director, Center for Molecular Agriculture
mchrispeels@ucsd.edu

2001 Congress on In Vitro Biology
June 16 - 20, 2001 St. Louis, Missouri
The Society for In Vitro Biology

Plenary Speaker
Roger Beachy, PhD, Opportunities and Challenges in Plant Biology to Benefit Health and Sustainability.

Program
The Congress program includes symposia, workshops, contributed paper and poster sessions, continuing education programs, exhibits, and other events that reflect the latest research in the diverse areas of plant and crop biotechnology, plant cell culture, cellular biology, and bioengineering. Visit the SIVB Web site (http://www.sivb.org) for program information and to register on-line.

Scientific Attendees
Plant Crop, Plant Biotechnology, In Vitro Cell Biology, and Bioengineering scientists and students.

Exhibit and advertisement space available for the 10th IAPTC&B Congress, please visit www.hos.ufl.edu/iaptb.

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Exhibit and advertisement space available for the 2001 Congress on In Vitro Biology. Contact Melinda Thompson, Society for In Vitro Biology, 9315 Largo Drive, West, Suite 255, Largo, MD 20774, (301) 324-5054, email: melinda@sivb.org.
The American Association for the Advancement of Science (AAAS) announced in mid-February the launch of a Web-based forum to help the public understand the debate over genetically modified (GM) foods.

The information available online will come from top scientists in the field who study the techniques of genetic engineering and their impact on human health and the environment, AAAS said in a news release. "Controversies Surrounding Genetically Modified Food" is the latest product of the SCOPE (Science Controversies On-Line: Partnerships in Education) Project (http://scope.edu.washington.edu).

The Web-based project is the work of editors at Science magazine, which is published by AAAS, and scientists at the University of California at Berkeley and the University of Washington. The groups are collaborating to provide a balanced scientific view of related issues in a way that might be useful to educators, scientists, policymakers, and the public, AAAS said. "The challenge of course, is to enable non-specialists to engage in the debate intelligently and critically," said Alan McHughen, a contributor to the site and professor and senior research scientist at the University of Saskatchewan in Saskatoon, Canada. "We do this by providing enough accurate information, balanced between being superficially simplistic and overwhelmingly technical."

Science editor Donald Kennedy maintained that the magazine's participation in the SCOPE project is a natural fit. "Science and AAAS are concerned whenever new scientific findings and new technologies raise important challenges for public policy," Kennedy said. "Genetically modified foods have produced a public controversy that demands good scientific information—and that is what SCOPE was developed to provide."

SCOPE contacted ASPB President Daniel Cosgrove of Pennsylvania State University, who will be making a contribution concerning the GM debate. The GM debate is the third to be posted on the four-year-old SCOPE site. The first two controversies focused on the world's declining amphibian population and on malaria and the use of DDT to contain it. The National Science Foundation is a major funder of the effort. One of the architects of the SCOPE site is Philip Bell, assistant professor in the University of Washington's College of Education. He sees the SCOPE site as a way to give students in particular a view of "science in the making."

"Before a settled notion about the natural world is reached in the scientific community, there is a whole process that scientists engage in to explore competing accounts," Bell said. "Often, that is a controversial process. We are trying to bring kids into this process so they can develop an image of the nature of science that actually reflects the practice of science."

In addition to commentaries on different scientific aspects of genetic modification of food, the site provides a glossary of terms, links to other relevant sites, a model curriculum for teaching the science of genetic modification, a resource library, and answers to questions posed to scientists by editors at Science.
Results from the Society Questionnaire on Membership Involvement in Mentoring Students

As you may recall, an e-mail questionnaire was sent out to the membership in November 2000 to determine the extent of involvement of Society members in undergraduate and high school student research and outreach activities and to gauge the level of interest in initiating such activities. We had an astonishing 531 valid responses! We believe that the responses reflect a significant portion of our membership. A close inspection highlights certain trends within the Society:

- Fully 87 percent of the respondents mentor undergraduates in research and find it to be a positive experience. This response reflects the commitment of our membership to the intellectual development and education of our undergraduates despite major research and teaching commitments.
- Nearly half (49 percent) of our responding membership mentor high school student researchers in some capacity or another, and 84 percent of those members find this a positive relationship. Forty percent of the respondents are involved, in some capacity, with outreach in either local schools or the community.
- A significant portion of our respondents who are not involved show interest in becoming involved. How can we provide outreach to those who are interested?
- Only a small fraction (6 percent) of our membership are involved with the Council on Undergraduate Research (CUR). This national organization (http://www.cur.org) provides support to strengthen the research programs of faculty in predominantly undergraduate institutions (PUIs). We suspect that our membership in PUIs is significantly underrepresented in the survey.
- A large number of the responses came from graduate students, postdocs, and industry and government laboratories. We even received quite a few responses from members outside the United States. The interest and involvement of these membership segments are most welcome.

It is apparent that our membership is interested in and deeply involved with education and outreach at many different levels. Although the outcome may not surprise some of our education advocates, it substantiates the strong support of the plant academic community for involvement in education and should spur efforts to seek funding toward these goals. It was also apparent from the responses that several essential factors (e.g., institutional support, time to sustain the involvement) remain significant challenges. While each institution may present a unique facet of these problems, perhaps those who have achieved a sustainable level of success can serve as paradigms for others. Please feel free to drop me a line if you would like to comment on these issues.

(Special thanks to Eric Davies for creating the survey and tabulating the responses. A detailed analysis of the results will be presented in a poster at the annual meeting [Coker and Davies] with additional information available at our Web site.)

2nd Annual Education Booth Exhibition Grants

The Education Committee cordially invites you to share your activity with the ASPP membership by hosting an interactive exhibit/demonstration at the Education Booth at the annual meeting this summer in Providence July 21–25. We are looking for new ideas and technology that you are using in the teaching laboratory or classroom and, as an incentive, we are offering a cash grant of $500 and registration costs for up to three presenters.

There is no formal application. Please follow the guidelines below:

1. Provide a clear, detailed summary of how the exhibit will function. In particular, it will be important to illustrate how the visitors can interact with the presentation.
2. Indicate the equipment that will be required for the exhibit. Please indicate whether a computer, Internet connection, or a VCR and monitor will be needed. We will make every effort to meet your needs.
3. Attendance on a daily basis is mandatory. We are asking all presenters to set aside at least an hour or two a day when they will be available to be at the exhibit to interact with interested visitors. You’re welcome to choose the times most convenient for you.

Please feel free to e-mail me if you have questions. You should address your proposal to gkuleck@lmuemail.lmu.edu. I look forward to receiving your proposal.

Annual Meeting Education Workshop

Many of our members attended a workshop by Diane Ebert-May on assessing and evaluating student learning at last year’s annual meeting. We are delighted to announce that the Plant Biology 2001 Workshop in Providence will focus on teaching portfolios. The featured speaker will be Dr. Bob Beckmann, from the Botany Department at North Carolina State University. Dr. Beckmann will examine the teaching portfolio as an important step toward enhancing your value to your institution, your colleagues, your career, and yes, even to your students. Attendees at this workshop will begin to construct a portfolio that reflects their philosophy and documents their track record as effective teachers. This year’s workshop promises to be informative for those at all levels of teaching, from postdocs considering an academic career to senior faculty reflecting on their teaching experiences.

The Application

Although the application process is relatively informal, there are a set of general guidelines and issues to address in your application.

The proposal should be a maximum of three pages in length and should:

- State clearly the rationale behind the exhibit. Highlight the use of new techniques or technology. How is this presentation exciting and new?
- Provide a clear, detailed summary of how the exhibit will function. Please indicate whether a computer, Internet connection, or a VCR and monitor will be needed. We will make every effort to meet your needs.
- Attendance on a daily basis is mandatory. We are asking all presenters to set aside at least an hour or two a day when they will be available to be at the exhibit to interact with interested visitors. You’re welcome to choose the times most convenient for you.

Please feel free to e-mail me if you have questions. You should address your proposal to gkuleck@lmuemail.lmu.edu. I look forward to receiving your proposal.
Following is an example of a letter to the State Science Supervisors of all 50 states and to U.S. territories that was sent November 27, 2000, by ASPP President Daniel Cosgrove:

November 27, 2000

Linda Jordan
Science Consultant
Tennessee Department of Education
5th Floor Andrew Jackson Building
710 James Robertson Parkway
Nashville, TN 37243-0379

Dear Ms. Jordan:

The American Society of Plant Physiologists (ASPP), a non-profit society of 6,000 plant scientists, seeks the opportunity to further advance science education by helping students at the K-12 levels gain a better understanding of plant biology.

As part of ASPP’s efforts to support education in plant biology, the Society has developed the enclosed Principles of Plant Biology that provide basic concepts for science education in plant biology. We believe that an understanding of these 12 principles provides an excellent base for further study of plant science by students and teachers. Please let us know if you have any recommendations on further development of the Principles of Plant Biology.

The principles address similarities and differences between plants and other living organisms; photosynthesis; evolution and reproduction of plants; respiration; cells; diversity; plant products; diseases; role of water in plants; growth and development; and plants in relation to the environment. ASPP’s Principles of Plant Biology are included in the textbook Biology, written by Dr. Neal Campbell, which is the most widely read undergraduate biology textbook in the nation.

Full-color bookmarks explaining each principle are being developed by ASPP and its Education Committee, chaired by Carol Reiss of Brown University. Enclosed is a copy of the bookmark for principle 7, “Plants exhibit diversity in size and shape ranging from single cells to gigantic trees.” Bookmarks and the principles can be viewed and printed from the ASPP homepage at http://aspp.org/education/resources.htm.

Other education resources that are available on the ASPP Web site include sample plant science laboratory exercises for students, a state-by-state listing of plant scientists seeking mentoring, and other outreach opportunities with students and teachers. The ASPP Web site includes links to plant science education sources such as Wisconsin Fast Plants and C-Fern Resource. Paul Williams of both the ASPP Education Committee and Wisconsin Fast Plants has spoken twice in recent years to the Council of State Science Supervisors during its annual meeting on the use of the Principles of Plant Biology as an educational tool.

We’d appreciate your assistance in circulating the Principles of Plant Biology, including bookmarks, to students and teachers in your state. We would also appreciate any consideration you could give to including or referencing the principles in the state’s science education standards.

Thank you for leading efforts in support of science education. Please let us know if there is more we could do with you and your state in further enhancing knowledge of plant biology.

Sincerely,

Daniel Cosgrove
President, American Society of Plant Physiologists
Professor, Department of Biology
Pennsylvania State University

Enclosures: Bookmark
Principles of Plant Biology

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Minisymposia Topics for
Plant Biology 2001

- Intracellular Signalling
- Intercellular Signalling
- Organelle Biology
- Membrane Transport
- Reproductive Biology
- Vegetative Development
- Photomorphogenesis
- Growth Regulators & Hormones
- Temperature
- Metabolite Profiling & Engineering
- Cell Walls
- Enzymology & Metabolism
- Photosynthesis
- Regulation of Gene Expression - Posttranscriptional
- Regulation of Gene Expression - Transcriptional
- Functional Genomics
- Pathogen Interactions
- Vascular System Biology
Gatherings

ASPP NEWS publishes dates, titles, locations, and contact names and addresses for meetings, courses, seminars, and the like that are of interest to ASPP members. Submit announcements via e-mail to sbraxton@aspp.org or mail to Sylvia Braxton Lee, ASPP NEWS, 15501 Monona Drive, Rockville, MD 20855-2768 USA. Faxed transmissions are not accepted.

Please go to http://eng.farmchina.com to see the Web site of the trade fair in the specific channel or contact Leonard Mao at maolh@farmchina.com for further information.

May 30–June 2
Plant Photobiology
19th Annual Missouri Symposium
University of Missouri, Columbia
See http://www.biosci.missouri.edu/liscum/usp01.html for contacts and information.

2001

April 18–20
Global Agriculture 2020: Which Way Forward?
John Innes Centre, Norwich, United Kingdom
Contact: Agric. 2020 Conference Secretariat, John Innes Centre, Norwich Research Park, Norwich, UK, NR4 7UH; telephone +44-1-603-456581/456641, e-mail agric2020@bbrc.ac.uk, Web site http://www.jic.bbsrc.ac.uk/events/agric2020.

April 20–22, 2001
18th Annual Eastern Regional Photosynthesis Conference
Swope Center of the Marine Biological Laboratory
Woods Hole, Massachusetts

April 20–26
2001 China International Vegetable Fair
Shandong, China
Please go to http://eng.farmchina.com to see the Web site of the trade fair in the specific channel or contact Leonard Mao at maolh@farmchina.com for further information.

April 22–26
The 85th Annual Meeting of the Potato Association of America (PAA 2001)
St. Augustine, Florida
Oral and poster abstracts are being accepted through January 10, 2001. For more information visit the conference Web site http://www.ifas.ufl.edu/~confereweb/paa/ or contact the University of Florida, IFAS Office of Conferences by telephone 352-392-5930, fax 352-392-9734, or e-mail mmatlock@gnv.ifas.ufl.edu.

FUTURE ASPP ANNUAL MEETING SITES

2001: Providence, Rhode Island
Saturday, July 21, through Wednesday, July 25

2002: Denver, Colorado
Saturday, August 3, through Wednesday, August 7

2003: Honolulu, Hawaii
Saturday, July 26, through Wednesday, July 30

2004: Orlando, Florida
Saturday, July 24, through Wednesday, July 28

2001

April 18–20
Global Agriculture 2020: Which Way Forward?
John Innes Centre, Norwich, United Kingdom
Contact: Agric. 2020 Conference Secretariat, John Innes Centre, Norwich Research Park, Norwich, UK, NR4 7UH; telephone +44-1-603-456581/456641, e-mail agric2020@bbrc.ac.uk, Web site http://www.jic.bbsrc.ac.uk/events/agric2020.

April 20–22, 2001
18th Annual Eastern Regional Photosynthesis Conference
Swope Center of the Marine Biological Laboratory
Woods Hole, Massachusetts

April 20–26
2001 China International Vegetable Fair
Shandong, China
Please go to http://eng.farmchina.com to see the Web site of the trade fair in the specific channel or contact Leonard Mao at maolh@farmchina.com for further information.

May 9–11
Ifgene Workshop on the Intrinsic Value and Integrity of Plants in the Context of Genetic Engineering
Basel, Switzerland
Information can be found at http://www.anth.org/ifgene/switzer.htm. Please address any correspondence about this message to David Heaf at 101622.2773@compuserve.com.

May 16–18
China Animal Husbandry and Feed Industry Trade Fair 2001
Dalian, China
Please go to http://eng.farmchina.com to see the Web site of the trade fair in the specific channel or contact Leonard Mao at maolh@farmchina.com for further information.

June 16–20
2001 Congress on In Vitro Biology
Regal Riverfront Hotel
St. Louis, Missouri
Contact: Marietta W. Ellis; telephone 314-324-5054, fax 314-324-5057. Program information can be viewed at www.sivb.org.

April 20–26
The 85th Annual Meeting of the Potato Association of America (PAA 2001)
St. Augustine, Florida
Oral and poster abstracts are being accepted through January 10, 2001. For more information visit the conference Web site http://www.ifas.ufl.edu/~confereweb/paa/ or contact the University of Florida, IFAS Office of Conferences by telephone 352-392-5930, fax 352-392-9734, or e-mail mmatlock@gnv.ifas.ufl.edu.

May 30–June 2
Plant Photobiology
19th Annual Missouri Symposium
University of Missouri, Columbia
See http://www.biosci.missouri.edu/liscum/usp01.html for contacts and information.

June 16–20
2001 Congress on In Vitro Biology
Regal Riverfront Hotel
St. Louis, Missouri
Contact: Marietta W. Ellis; telephone 314-324-5054, fax 314-324-5057. Program information can be viewed at www.sivb.org.

June 18–20
XX Congress of the Scandinavian Society for Plant Physiology
Reros, Norway
Contact Knut Asbjørn Solhaug, PO Box 5014, NO-1432 Ås, Norway; telephone +47-64948482, fax +47-64948502, e-mail knut.solhaug@ibn.nh.no, Web site http://www.green.uio.no/SPPS.html.

June 21–23
First European Allelopathy Symposium
Physiological Aspects of Allelopathy
Vigo, Spain
For more information, e-mail us at feas@uvigo.es or visit us at http://www.uvigo.es/feas.

June 23–27
XII International Conference on Arabidopsis Research
Madison, Wisconsin
Contact details to be provided by the North American Arabidopsis Steering Committee and posted at the TAIR Web site at www.arabidopsis.org.

July 1–4
Plant Growth Regulation Society of America
Wynndall Miami Beach Resort, Miami, Florida
Contact: Dr. Gary Stulte, Program Chair, Dynamac Corporation, Mail Code DYN-3, Kennedy Space Center, FL 32899; telephone 321-476-4319, fax 321-853-2859, e-mail gary.stulte-1@ksc.nasa.gov, Web site http://www.griffin.peachnet.edu/pgrsa.
July 1–6
Gordon Research Conference on “Molybdenum and Tungsten Enzymes”
Queens College, Oxford, United Kingdom
Chairs: Dave Carner and Ralf Mendel. Detailed information about the conference can be found at http://www.grc.uri.edu. For further information, contact Dr. Ralf Mendel at r.mendel@tu-bs.de.

July 8–12
The 6th International Symposium on Inorganic Nitrogen Assimilation
Reims, France
Information is available at http://www.inra.fr/Internet/Projets/reims2001/ or e-mail hirel@inra.versailles.fr and lea@lancaster.ac.uk.

July 8–21
Plant Biochemistry Summer Course 2001
Institute of Biological Chemistry
Washington State University, Pullman
For information, contact Karen Maertens (maertens@wsu.edu) or visit the Institute of Biological Chemistry Web site at www.wsu.edu.

July 10–14
10th International Congress on Molecular Plant–Microbe Interactions
Memorial Union of the University of Wisconsin–Madison
For more information, contact the local host chair, Sally León, at sal@plantpath.wisc.edu or visit the Web site at http://www.plantpath.wisc.edu/mpmi/.

July 21–25
The Quadennial Joint Annual Meetings of the American Society of Plant Physiologists and the Canadian Society of Plant Physiologists (Societe Canadienne de Physiologie Vegetale)
The Rhode Island Convention Center
Providedence
For more information, see http://www.aspp.org/annual_meeting/pb-2001/index.htm or contact American Society of Plant Physiologists, telephone 301-251-0560, fax 301-279-2996, email aspp@aspp.org.

July 22–24
International Symposium on Ecological and Societal Aspects of Transgenic Forest Plantations
Skamania Lodge, Stevenson, Washington
Columbia River Gorge
Pacific Northwest United States
For information, contact Steve Strauss at s.strauss@orst.edu or visit http://www.fs.orst.edu/gerc/iufro2001/eco_symposium.ufo.htm.

July 22–27
Tree Biotechnology in the Next Millennium
Skamania Lodge, Stevenson, Washington
Columbia River Gorge
Pacific Northwest United States
For information, contact Steve Strauss at s.strauss@orst.edu or visit http://www.fs.orst.edu/gerc/iufro2001/.

August 2–8
Plant Nutrition Colloquium 2001
University of Hannover, Hannover, Germany
Hosted by the International Council on Plant Nutrition, President W. J. Horst. The meeting will be followed by a two-day field trip. Information on the program and how to register can be obtained from www.ipn-uni-hannover.de.

August 28–August 2
XIV International Plant Nutrition Colloquium
University of Hannover, Hannover, Germany
Hosted by the International Council on Plant Nutrition, President W. J. Horst. The meeting will be followed by a two-day field trip. Information on the program and how to register can be obtained from www.ipn-uni-hannover.de.

AUGUST

August 4–8
Phytochemical Society of North America
“Phytochemistry in the Genomics and Post-Genomics Eras” Oklahoma City, Oklahoma
Contact the organizer, Dr. Rick Dixon, at radixon@noble.org or see the Phytochemical Society of North America’s Web site (www.psimo-online.org) for details of the program and registration and abstract submission deadlines.

August 6–10
7th International Congress on Amino Acids and Proteins
Vienna, Austria
For information, contact Bijay K. Singh, BASF Corporation, PO Box 400, Princeton, NJ 08543-0400; telephone 609-443-8341, fax 609-275-5216, e-mail singhb@pt.cyanamid.com.

August 13–15
International Satellite Conference on “Chloroplasts: Development and Function”
New Delhi, India
The meeting is in conjunction with the XII International Photosynthesis Congress to be held in Brisbane, Australia, August 18–23, 2001. Contact: Professor A. S. Raghavendra, Department of Plant Sciences, School of Life Sciences, University of Hyderabad, Hyderabad 500046, India; telephone +91-40-3010630, fax +91-40-3010145, e-mail asr@sﬁ@uohydernet.in, Web site http://www.geocities.com/satellitedelhi.

August 27–29
Symposium: Environmental Signalling: Arabidopsis as a Model
Utrecht University, Utrecht, The Netherlands
Organizers: Sjef Smekens, Marcel Proveren, Rens Voesenek and Pieterse Corné. See the Web page for information and registration: http://www.bio.uu.nl/EPS-summerschool/

SEPTEMBER

September 2–7
9th Cell Wall Meeting
Toulouse, France

September 5–8
The Fourteenth John Innes Symposium
Chromosome Dynamics & Expression
John Innes Centre
Norwich, Norfolk, United Kingdom
For information, contact Samantha Lingwood, Symposium Secretary, John Innes Centre, Norwich Research Park, Colney, Norwich, NR4 7UH, United Kingdom; telephone 44-1603-450000, fax +44-1603-450045, e-mail samantha.lingwood@bbrc.ac.uk, Web site http://www.jic.bbrc.ac.uk/events/symposium/.

September 7–12
Biochemistry of Type IV Secretion Processes
EuroConference on the Medical and Ecological Implications
Castelvecchio Piacelli, Italy
Deadline for applications is April 30, 2001. For information and application forms, contact the head of the EURESCO Unit, Dr. J. Hedenkov, European Science Foundation, 1 Quai Lezay-Marnesia, 67080 Strasbourg, cedex, France; telephone +33-388-76-71-35, fax +33-388-36-69-87, e-mail euresco@esf.org, Web site http://www.esf.org/euresco.

September 12–15
Plant Protein Phosphorylation
Vienna, Austria
See the Web site at http://www.at.embnet.org/gems/plant/congress.htm for details.

October

October 17–18
Societal Aspects of Transgenic Forest Plantations
Skamania Lodge, Stevenson, Washington
Columbia River Gorge
Pacific Northwest United States
For information, contact Karen Maertens (maertens@wsu.edu) or visit the Institute of Biological Chemistry Web site at www.wsu.edu.

October

November 11–15
6th ISSR Symposium “Roots: The Dynamic Interface Between Plants and the Earth”
Nagoya, Japan
Organizers: Japanese Society for Root Research (JSRR) and International Society of Root Research (ISSR). For information, contact Dr. S. Morita at anatomy@mail.ecc.u-tochio.ac.jp or visit the Web site at http://wwwsoc.nacsis.ac.jp/jsrr/isrr/.

November
ASPP Placement Service

This form may be used only by members of the American Society of Plant Physiologists. Please print or type your placement information on this form (curriculum vitae will not be accepted) and send it to Donna Gordon, ASPP Headquarters, 15501 Monona Drive, Rockville, MD 20855-2768 USA; e-mail dgordon@aspp.org

LAST NAME
STREET ADDRESS
CITY
STATE
ZIP
COUNTRY
PHONE
FAX
E-MAIL

I am seeking the following position (check all that apply):
[ ] Permanent [ ] Temporary [ ] Postdoctoral [ ] Industrial
[ ] Academic [ ] Government [ ] USA only [ ] Outside USA

US citizen? [ ] Yes [ ] No Date available: ________________

Fields of interest, specialties, and publications titles:
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Thesis, dissertation topics, professor:
________________________________________________________________________

Professional societies and honors:
________________________________________________________________________

Degree/year Major Minor College/university and location
________________________________________________________________________
________________________________________________________________________

Postdoctoral study (specialty and with whom, where, and when):
________________________________________________________________________

Employer and location From To Position, title, and duties
________________________________________________________________________
________________________________________________________________________

References (names, addresses, and telephone numbers):
________________________________________________________________________
________________________________________________________________________
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________________________________________________________________________
II. Placing a Position Ad in ASPP NEWS and on the ASPP World Wide Web Homepage
Submit all ads by e-mail to Sylvia Braxton Lee at sbbraxton@aspp.org (or by mail to Sylvia Braxton Lee, 15501 Monona Drive, Rockville, MD 20855-2768 USA). If you are submitting a chargeable ad, please include billing information when you send the ad.

- Academic/Government/Industry Permanent Positions (Ph.D. level):
  Fee: $150. Includes listing in one issue of the ASPP NEWS and 12 weeks on the ASPP online Job Bank.
  Word Limit: 200 for print ad; no limit for online ad.

- Postdoctoral Positions
  Fee: No charge for universities, non-profit organizations, and government installations; $150 for private companies. Includes listing in one issue of the ASPP NEWS and 12 weeks on the ASPP online Job Bank.
  Word Limit: 200 for print ad; no limit for online ad.

- Research/Technical Positions (non-Ph.D.)
  Fee: No charge for universities, non-profit organizations, and government installations; $150 for private companies. Includes listing in one issue of the ASPP NEWS and 12 weeks on the ASPP online Job Bank.
  Word Limit: 200 for print ad; no limit for online ad.

- Assistantships, Fellowships, Internships, etc.
  Fee: No charge; ad will appear in two issues of the ASPP NEWS: the first time at full length; the second time in an abbreviated form, and 12 weeks on the ASPP online Job Bank.
  Word Limit: None.

ACADEMIC/GOVERNMENT/INDUSTRY PERMANENT POSITIONS (Ph.D.)

Assistant Professor
Western Illinois University, Macomb
(Received 01/08)
A tenure-track assistant professor position in plant physiology/phyiology is available starting August 2001. A Ph.D. and evidence of excellent teaching are required. Persons hired will direct M.S. students and undergraduates (including honors) in their research. Candidate with research program in physiology will teach general biology, cell biology, plant physiology, and physiology. Availability of the position is contingent upon funding. The search will continue until position is filled. Send transcripts of all academic work, curriculum vitae, publications, statements of teaching and research interests, and three letters of reference to Dr. L. M. O’Flaherty, Chair of Biological Sciences, Western Illinois University, 1 University Circle, Macomb, IL 61455-1390; Web site http://www.wiu.edu/users/mibiol.
Western Illinois University is an affirmative action/equal opportunity employer.

Racheff Chair of Excellence in Plant Molecular Genetics
The University of Tennessee, Knoxville
(Received 01/10)
The Department of Ornamental Horticulture and Landscape Design in the College of Agricultural Sciences and Natural Resources (CASNR) and the Tennessee Agricultural Experiment Station (TAES) seeks outstanding applicants to fill a 12-month, tenure-track professorship and Racheff Chair of Excellence in Plant Molecular Genetics. The chair is expected to maintain an internationally recognized and extramurally funded research program and will be expected to participate in the graduate program in CASNR by advising doctoral students and teaching a doctoral-level course in plant genetics. The chair’s research laboratory will be located in a 120,000 sq. ft. plant biotechnology building currently under construction. The chair will have opportunities to collaborate with other CASNR scientists, as well as scientists in the College of Arts and Sciences at The University of Tennessee and those at the Oak Ridge National Laboratory. A start-up package is available, as well as recurring funds for graduate students and postdoctoral research scientists. Nominations should be sent to Dr. C. A. Speer, Dean, CASNR/TAES, 2621 Morgan Circle, 126 Morgan Hall, The University of Tennessee, Knoxville, TN 37996-4500; telephone 865-974-6756, fax 865-974-9329, e-mail caspeer@utk.edu.
Applications consisting of a letter of application, professional mission statement including teaching and research philosophies, curriculum vitae, and names, addresses (postal and e-mail), and telephone numbers of five references should be sent to Dr. Speer. The review of applications will begin on April 2, 2001, and continue until a suitable candidate has been identified. UT is an EEOAA/Title IV/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services. Women and minorities are encouraged to apply.

Cooperative Extension Specialist
University of California, Riverside
(Received 01/23)
The Department of Botany and Plant Sciences invites applications for an assistant or associate level cooperative extension specialist (75%) with a 25% appointment in the Agricultural Experiment Station. This is an 11-month academic career track appointment to begin July 1, 2001. The salary scale is equivalent to the corresponding rank in the UC professorial series. In collaboration with other cooperative extension specialists the appointee will lead development of a statewide extension education and research program that informs farm advisors, growers, and the public about...
biotechnology issues such as the advantages and risks of genetically engineered crops. The appointee is also expected to develop an innovative, independent research program that uses plant transformation and/or other biotechnology methods to develop new crop varieties that complement existing programs, and may conduct field research to evaluate genetically engineered crops. Opportunities exist for interaction with UCR researchers in the Departments of Botany and Plant Sciences, Entomology, Environmental Sciences, Nematology, and Plant Pathology (see Web site listed below). The campus is building a new plant transformation laboratory and greenhouse and developing a Genomics Institute, Cooperative Extension, part of the Division of Agriculture and Natural Resources of the University of California, has a national reputation for innovative and independent research and extension programs. Statewide workgroups in biotechnology and related areas facilitate communication and collaboration with other researchers and farm advisors and appropriate clientele. Funding opportunities exist from State and Federal agencies, the California agricultural industry, and private individuals and institutions. Opportunities exist for supervising graduate students. Applicants must hold a Ph.D. related to plant biotechnology and have postdoctoral experience. Evaluation of applications will begin February 5, 2000 and continue until the position is filled. Interested individuals should submit a letter of application, curriculum vitae, statement of research and educational interests, and the names and addresses of at least three references to Dr. Eugene A. Nothnagel, Chair, Department of Botany and Plant Sciences, University of California, Riverside, CA 92521-0124; telephone 909-787-4401, fax 909-787-4437, e-mail nothnagel@citrus.ucr.edu. For additional information on the Department and campus visit http://cas.ucr.edu. The University of California is an equal opportunity/affirmative action employer.

Assistant/Associate Professor
Mississippi State University, Mississippi State
(Received 02/02)
The Department of Biochemistry and Molecular Biology at Mississippi State University invites applications for a 12-month tenure-track teaching and research position at the assistant/associate professor rank to be filled by July 1, 2001. This position will include funding for a postdoctoral associate for two years and additional startup funds. Responsibilities include participation in our undergraduate and graduate teaching programs and establishment of an active research program capable of attracting external funding. We are particularly interested in a plant molecular biologist who can play a role in a newly established Life Sciences and Biotechnology Institute.

Applicants must have demonstrated involvement in quality research as evidenced by publications in peer-reviewed journals. Applicants at the associate professor level will be expected to have demonstrated success in acquiring external funding. Send curriculum vitae, summary of research interests, and names of three references to Dr. John Boyle, Head Department of Biochemistry and Molecular Biology, Box 9650, Mississippi State, MS 39762. Applications accepted through February 15, 2001, or until position is filled. MSU is an AA/EEO.

Assistant Professor
University of Missouri–Columbia
(Received 02/06)
Teaching responsibilities include a freshman course for plant science majors that provides a modern and dynamic introduction to plant science. This will be a lecture and laboratory course that complements Botany and Introduction to Soil Science. The person will also assume responsibility for teaching a junior-level crop physiology course after one to two years and will have partial responsibility for teaching a sophomore-level grain crops course. Research will focus on current and relevant approaches toward understanding the physiology of grain crops. Possible areas of emphasis could include the effects of abiotic stress on reproductive development or carbon allocation/source-sink relationships as related to crop performance. There is great potential for collaboration within the Agronomy Department, other departments in the Plant Sciences Unit, and the campus-wide Interdisciplinary Plant Group of more than 40 faculty. There is also a strong Molecular Biology Program that provides a variety of core facilities. Greenhouses, growth chambers, and field research facilities at numerous locations around the state are available. Participation in advisement of undergraduates and in the training of graduate students is expected. Possession of a doctorate by the time employment begins in agronomy, crop science, plant physiology, or a closely related area is required. Excellent writing and oral communication skills are required. Prior teaching experience will be an asset, and postdoctoral research is desirable. Salary will be commensurate with rank and qualifications. Application materials should be submitted to Margie Anglen, ESA, Plant Sciences Unit, 1-41 Agriculture Bldg., University of Missouri–Columbia, Columbia, MO 65211. Questions regarding this position should be directed to Dr. Dale G. Blevins at 573-882-1827, fax 573-882-1469 or e-mail blevins@missouri.edu. Your letter of application should include a current vita, transcripts, and names and addresses of three references familiar with your teaching and research experience. Applications will be reviewed starting in 30 days and continue until a suitable candidate is hired. EEO/ADA/AA employer.

Faculty Positions—Plant Biology
Donald Danforth Plant Science Center
St. Louis, Missouri
(Received 02/23)
The Danforth Center announces positions for faculty at full, associate and assistant member levels to direct fundamental research programs. Seeking scientists with broad interests/training in at least two scientific disciplines and well-formed research programs that will benefit from interactions with scientists of other disciplines. Demonstration of prior/current support and of interdisciplinary research beneficial. Up to 10 faculty appointments will be considered in structural biology, biochemistry, phytochemistry, molecular/biochemical, genetics, cell biology, gene regulation, root-soil interactions, molecular physiology, molecular plant pathology, and abiotic stress biology. Successful candidates are expected to develop collaborative research programs within the Danforth Center and/or with scientists at partner institutions. Send resume, brief description of research interests, reprints of three key publications, and names of three references to Dr. Billie Brooker, Human Resources, Donald Danforth Plant Science Center, 7425 Porsy Boulevard, Campus Box 1098, St. Louis, MO 63105. Visit our Web site, www.danforthcenter.org, for more information.

The Donald Danforth Plant Science Center is an equal opportunity/affirmative action employer and encourages applications from underrepresented groups, including minorities, women and people with disabilities.

POSTDOCTORAL POSITIONS

Postdoctoral Position
Colorado State University, Fort Collins
(Received 01/08)
Two NSF-funded postdoctoral positions are available to study the biological significance of Ribosome-inactivating Proteins (RIPs) in plants. Projects include (1) biochemical and molecular analysis of the antifungal activity of RIPs, (2) characterization of RIPs in Arabidopsis and tobacco and (3) dissection of the enzymatic activity of RIPs against viroids (Plant Physiology 119, 1447–1456, 1999; Plant Disease 83, 1116–1121, 1999; Trends Plant Science 4, 220–226, 1999). Innovative, independent, and highly motivated candidates are sought with significant experience in state-of-the-art technologies in one or more of the following areas: protein purification/characterization, proteomics, genomics, library construction/screening, promoter analysis, cell biology, protein expression/transgenic, yeast two hybrid system, and yeast genetics. Requirements include a Ph.D. in a relevant area of plant sciences, molecular/cell biology, biochemistry, or other related fields. Interested candidates should submit a detailed curriculum vita, reprints, statement of interests, and three letters of reference to Dr. Jorge M. Vivanco, Department of Horticulture and Landscape Architecture, Colorado State University, Fort Collins, CO 80523-1173; fax 970-491-7216, e-mail jvivanco@lamar.colostate.edu, lab Web site http://lamar.colostate.edu/~jvivanco/. Application deadline is April 15, 2001. Colorado State University is an equal opportunity employer.
Postdoctoral Position  
USDA/NRSL, University of Florida, Gainesville  
(Received 01/08)

A postdoctoral position is available to study differential transcriptional and translational gene expression during microgametogenesis in sorghum and maize. The goal is to identify genes and gene products that are critical to the normal development of pollen through exploiting male-sterile mutants and their cohort nuclear genes that permis suppress processes associated with pollen viability. Special attention will be paid to sucrose metabolism and starch biosynthesis, because developing pollen grains fated to become sterile lack starch. The incumbent will conduct research on the problem using genetic, molecular, and cell biology technologies. The project is a collaborative effort with Dr. P. S. Chourey, USDA/NRSL. We visualize exploiting cellular-level analyses such as in situ RT-PCR to elucidate the bases of altered gene expression in these tissues. Applicants must have a Ph.D. in plant sciences/ genetics and a strong background in plant molecular biology, biochemistry, or cell biology. Experience in cellular-level analyses of gene expression (in situ hybridization, immunolocalization) is particularly desirable. Send a curriculum vitae and addresses of three references to Dr. D. R. Pring, USDA/NRSL, Plant Pathology Department, 1453 Field Hall, University of Florida, Gainesville, FL 32611; telephone 352-392-3638, fax 352-392-6532, e-mail drpg@gnv.ifas.ufl.edu. USDA/NRSL is an equal opportunity employer.

Postdoctoral Position  
University of Maine, Orono, Maine  
(Received 01/09)

A postdoctoral position is available immediately to investigate the intracellular symbiosis between a marine sea slug (Elysia chlorotica) and chloroplasts of the chromophytic alga, Vaucheria litorea. As a result of this association, the mollusk is able to sustain itself solely by carrying out photosynthesis for its entire life span (nine to 10 months). Despite the absence of any algal nucleo-cytosolic components in the sea slug cytoplasm, the plastids remain transcriptionally and translationally active for several months. The goal of this NSF-supported project is to identify the mechanisms that contribute to the long-term functioning of the plastids using integrated structural, biochemical, and molecular approaches. More specifically, the project involves studies on chloroplast and protein stability, protein targeting, lateral gene transfer, and chloroplast autonomy. Candidates must have strong background and demonstrated experience in molecular biology and biochemical techniques. Previous experience working on chloroplasts and/or photosynthesis would be a plus, but not essential. For a further description of the project please see Plant Physiology 123, 29-38 and 124, 331-342, 2000. Interested applicants should send a cover letter and detailed curriculum vitae and arrange for three letters of reference to be sent to Dr. Mary Rumpho, Department of Biochemistry, Microbiology and Molecular Biology, 5735 Hitchiner Hall, University of Maine, Orono, ME, 04401-5735 or by e-mail to mmrumpho@umit.maine.edu; telephone 207-581-2806, fax 207-581-2801.

Postdoctoral Positions  
Michigan Technological University, Houghton  
(Received 01/10)

Two postdoctoral fellow positions are available to participate in a functional genomics program that is established at the Plant Biotechnology Research Center of Michigan Technological University (http://forestry.mtu.edu/lcerpbrc/). Interdisciplinary approaches including DNA microarray and metabolite profiling will be utilized to investigate tree growth and development. Position 1: Microarray system. Strong background and training in molecular biology required. Experience with high throughput and microarray technology desirable. Position 2: Data mining, analysis and integration of gene expression and metabolite profiles. Strong background in statistics, bioinformatics, or computational biology required. Experience with programming and databases desirable; knowledge about biology/chemistry data is a plus. The Plant Biotechnology Research Center offers state-of-the-art molecular biology, biochemistry, chemistry, and tissue culture laboratories, including greenhouse and new microarray facilities. Positions will start as soon as possible and a Ph.D. is required. Send cover letter (position number must be indicated), curriculum vitae including a publications list, and names of three references to Dr. Chung-Jui Tai, Assistant Professor, Plant Biotechnology Research Center, School of Forestry and Wood Products, Michigan Technological University, Houghton, MI 49931; fax 906- 877-2815, e-mail chtsai@mtu.edu. Michigan Technological University is an equal opportunity/affirmative action employer.

Postdoctoral Position  
University of California, Berkeley  
(Received 01/16)

A position is available for a molecular biologist to apply DNA insertional mutagenesis and screening, genetic analysis, and gene cloning in the model green alga Chlamydomonas reinhardtii. Tasks will be to identify and characterize genes and proteins involved in (1) the repair of chloroplasts from photoinhibition and (2) the regulation of the chlorophyll antenna size of photosynthesis. Applicants should have experience with PCR, sequencing, and other molecular and microbiological techniques. Beginning salary $30,000/year plus benefits. Send inquiries to Dr. Tasis Melis, Department of Plant & Microbial Biology, University of California, Berkeley, CA 94720-3102; e-mail melis@nature.berkeley.edu, Web site http://molbio/faculty/faculty_pages/  Melis.html, http://plantbio.berkeley.edu/ UC Berkeley is an equal opportunity employer.

Postdoctoral Position  
Rutgers University, New Brunswick, New Jersey  
(Received 01/16)

An NSF-funded postdoctoral position is available immediately to study the regulation of sulfate assimilation in Arabidopsis thaliana. The research will focus on 5-adenylylsulfate (APS) catabolism in determining plant architecture and physiology and will also be explored both by transgenic over-expression as well as by identifying Arabidopsis “knock-outs.” This is a well-defined project that should be very productive. Contact Adrian Cutler at adrian.cutler@nrc.ca (or telephone 306-975-5581) for additional information or go to http:// www.sbr.nrc.ca/absicicacid/. You can send your curriculum vitae, directly to me, although a formal NSERC-NRC postdoctoral application will also have to be made. The new PDP will be one of several postdocs that are current, or soon to be hired, who work on collaborative ABA-related problems.
reductase (J Bacteriol 182, 135, 2000; Annu Rev Plant Physiol Plant Mol Biol 54, 141, 2000; PNAS, 95, 8404, 1998), an intriguing enzyme composed of a fusion between a reductase domain and a glutaredoxin (redox cofactor) domain. Using molecular and biochemical techniques, the candidate will explore whether the glutaredoxin domain functions in catalysis or in enzyme regulation. The position requires strong experience in molecular biology and enzymology. The project is dynamic and the postdoc will interact with several collaborating international laboratories. The successful candidate must be able to demonstrate personal dynamism, preferably through a record of publication. Although the position can begin immediately, there is the possibility to delay the start date until the summer of 2001. Contact Thomas Leustek at leustek@seesp.rutgers.edu. Mailing address is Rutgers University, 59 Dudley Road, New Brunswick, NJ 08901-8529. Rutgers University is an equal opportunity employer.

Postdoctoral Position
Umeå Plant Science Centre
Umeå, Sweden
(Received 01/17)
A postdoctoral position is available immediately. The basic technology used in the project will be based on proteomics. Both transgenic and wild type Arabidopsis and populus will be used as model plants. Main areas of interest are lignification and active oxygen metabolism processes. The group is traditionally very strong in mass spectrometry and is now building the proteome part, including MALDI-TOF and QTOF mass spectrometry. More information on the department and ongoing research is available at http://www.genfys.slu.se/research.htm. Candidates should have a Ph.D. in plant biology or biochemistry. Experience with mass spectrometry or electrophoretic separation of proteins is advantageous. The salary will be ca 170000 Skr per year. Interested candidates should send a curriculum vitae including names and addresses (e-mail or mail) of three references to Docent Gunnar Wingle, Department of Forest Genetics and Plant Physiology, SUAS, Umeå Plant Science Centre, UPSC, 90183 Umeå, Sweden; e-mail Gunnar.Wingle@genfys.slu.se.

Postdoctoral Position
Michigan State University, East Lansing
(Received 01/23)
A postdoctoral position is available to study the developmental genetics of Anabaena (see http://www.plant.msu.edu/wolk.html). Strong molecular genetic and microbological background is essential, and genomic background is desirable. Please e-mail a letter of application with curriculum vitae to wolk@msu.edu, and have three letters of reference sent to C. P. Wolk, MSU-DOE Plant Research Laboratory, Michigan State University, E. Lansing, MI 48824. Michigan State University is an affirmative action, equal opportunity institution.

Postdoctoral Positions
Miami University, Oxford, Ohio
(Received 1/23)
Postdoctoral positions are available immediately to study the production of unusual fatty acids in oilseeds. A Ph.D. with a strong background in biochemistry and molecular biology is a minimum requirement, and experience with plants and plant molecular genetics is highly desirable. A functional genomic approach to understanding lipid pathways leading to the synthesis of unusual fatty acids will be a major focus of the research. These projects are part of a multidisciplinary collaborative effort to produce industrial feed stocks in agronomically important crops. This research will be carried out at Miami University in Oxford, Ohio, located in the southwest corner of Ohio. Please send a curriculum vitae (preferably by e-mail) and contact information for three references to Jan Jaworski, Department of Chemistry and Biochemistry, Miami University, Oxford, OH 45056; e-mail jaworsjg@muhiohio.edu.

Postdoctoral Researcher
National Renewable Energy Laboratory (NREL)
(Received 01/23)
We have an immediate opening for a postdoctoral researcher. The candidate will be involved in completing the cloning of the algal reversible hydrogenase and performing in vitro mutagenesis on it. The mutagenized genes will be transformed into hydrogenase-less mutants already available in our laboratory. The transformants will be screened for O2-tolerance of the hydrogenase activity using a chemochromic method developed in-house. The project also requires the candidate to apply biochemical and electrochemical measurements to the positive transformants in order to more accurately measure their H2-producing activity. A Ph.D. degree in biochemistry or molecular biology is required, as well as practical experience in algal molecular biology and genetics. Familiarity with the biochemistry of photosynthesis is also required and experience in random mutagenesis and/or directed molecular evolution is a plus. Candidates lacking the above requirements will not be considered. Qualified candidates should submit their resume to Dr. M. Seibert (mike.seibert@nrel.gov) or Dr. M. Ghirardi (maria.ghirardi@nrel.gov). Please include the names, addresses, and telephone numbers of at least three references who we may contact. NREL is an equal opportunity employer and proud of its commitment to diversity. Women and minorities are encouraged to apply.

Postdoctoral Position
Purdue University, West Lafayette, Indiana
(Received 02/09)
A one-year position for a postdoctoral research associate is available. The candidate must have a strong background in plant molecular biology. Sound skills in cloning, PCR, RT-PCR, nucleic acid isolation, and analysis are a must. A successful candidate will be expected to carry out genetic and reverse genetic experiments with Arabidopsis and gene expression studies in model systems, including protoplasts and cell culture. Send application and three recommendation letters to Zoya Avramova, Department of Biological Sciences, Purdue University, West Lafayette, IN 47907. Purdue University is an affirmative action/equal opportunity employer.

Postdoctoral Positions
Purdue University, West Lafayette, Indiana
(Received 02/09)
Two NSF-funded postdoctoral positions are currently available for individuals interested in studying the biochemical genetics of secondary metabolism in Arabidopsis. The first position will focus on the characterization of the re/f mutant of Arabidopsis and the enzyme encoded by the re/f locus, the cytochrome P450-dependent monooxygenase, c-p-coumarate 3-hydroxylase. The second position will focus on the functional analysis of the serine carboxypeptidase-like (SCPL) gene family of Arabidopsis (Plant Cell 12, 1295-1306). For more information, see http://www.biochem.purdue.edu/~chappel/. Qualifications: A Ph.D. in molecular biology or biochemistry. Experience
with biochemical techniques such heterologous protein expression and protein purification, gas chromatography/mass spectrometry, or HPLC is desirable. Interested individuals should submit a curriculum vitae and the names of three references (including e-mail addresses), preferably by e-mail to Dr. Clint Chappe, Department of Biochemistry, Purdue University, West Lafayette IN 47907-1153; fax 765-496-7213, e-mail chapple@purdue.edu. Purdue University is an equal opportunity/affirmative action employer.

Postdoctoral Position
Cornell University, Ithaca, New York
(Received 02/09)
A postdoctoral position is available to study chloroplast gene regulation at the post-transcriptional level. The precise project is flexible, but focus will be placed on translation initiation mechanisms, RNA processing and/or RNA stability using a mixture of genomic, genetic and biochemical approaches. Candidates should forward their curriculum vitae and a short statement explaining their interest in this project to Dr. Darrel Stortz, Boyce Thompson Institute at Cornell University, Tower Rd., Ithaca, NY 14853; telephone 607-254-1306, e-mail ds28@cornell.edu. Some recent laboratory publications are listed at www.plantbio.cornell.edu/faculty.php?fid=43. Salary and benefits are competitive. BTI is an equal opportunity employer.

Postdoctoral Position
University of Florida, Gainesville
(Received 02/19)
A postdoctoral position is available for up to three years to study the mechanism of protein transport by the thylakoid delta pH-dependent system. This novel translocation system transports folded proteins employing only the trans-thylakoid pH gradient. There are three known components of the machinery; we have cloned all three in pea and Arabidopsis and prepared transport-inhibiting antibodies to each. Two intermediates on the pathway have been identified, one of which is associated with two components of the machinery. The successful candidate will have experience with protein biochemistry and recombinant DNA methodology. Please send resume and names of three references (with contact information) to Kenneth Cline, Plant Molecular and Cellular Biology, Box 110690, University of Florida, Gainesville, FL 32611-0690.

Postdoctoral Position
University of Florida, Gainesville, Florida
(Received 02/20)
A postdoctoral research associate position is available immediately. The candidate must have a strong background in plant molecular biology and genetics. Excellent skills in nucleic acids manipulation (DNA/RNA isolation and analysis, PCR, RT-PCR, and cloning), and experience with Agrobacterium are essential. The successful candidate will be expected to carry out the last phases of a project aimed at positional cloning of the gene of the common bean. A BAC-based contig that spans the target gene has been constructed, and the BAC clone that contains the gene identified. This resistance gene has been found in a cluster of NBS-LRR type of resistance gene homologs. Specifically, the candidate will be responsible for carrying out complementation experiments in both homologous and heterologous systems. A protocol for Agrobacterium-mediated transient expression in Phaseolus vulgaris is already available in the lab. Send application and three letters of recommendation to Eduardo Vallejos, Department of Horticultural Sciences, University of Florida, Gainesville, FL 32611-0990. The University of Florida is an affirmative action/equal opportunity employer; e-mail vallejos@ufu.edu.

Postdoctoral Position
Michigan State University, East Lansing
(Received 02/21)
A postdoctoral position in fungal/plant molecular genetics is available immediately in the laboratory of Jonathan Walton, DOE-Plant Research Lab (PRL) and Department of Botany and Plant Pathology. The position is to work on histone deacetylases (HDAC) in maize, Arabidopsis, and the maize pathogen C. elegans. HDAC is the site of action of HC-toxin, a critical virulence determinant for C. carbonum (Brosch et al., Plant Cell 7, 1995). We have characterized three HDAC genes in C. carbonum and shown that one of them regulates cell-wall-degrading enzyme expression and plant virulence. Current research questions include: (1) How does C. carbonum protects itself against HC-toxin? (2) How do HDACs control fungal virulence? and (3) How does HDAC inhibition in maize cause disease compatibility? Depending on the interests of the successful applicant and the state of the program at the time of starting, the research will involve some combination of enzyme characterization and purification, fungal and plant gene cloning and gene disruption, microarrays, and natural products analysis. Funding is for one year with possibility of renewal for up to three years. Please send curriculum vitae and the names of three references to J. Walton, DOE-Plant Research Lab, Michigan State University, E. Lansing MI 48824; telephone 517-353-4885; email walton@msu.edu. MSU is an affirmative action/equal opportunity employer.

Postdoctoral Position
Umea University, Umea, Sweden
(Received 02/22)
A postdoctoral position is currently available in my laboratory at the Department of Plant Physiology, Umea Plant Science Centre, Umea University, Sweden. The position concerns studies on structure/function properties of a higher plant UDP-glucose pyrophosphorylase (UGPase), a key enzyme of UDP-glucose formation. The primary goal of this project is to identify regions in the amino acid sequence of UGPase that are responsible for subunit/subunit interactions, protein oligomerization and binding regulatory proteins. The position requires strong background in gene manipulation (e.g. site-directed mutagenesis, two hybrid system), and some experience with protein/enzyme work. The position is financed by the biotechnology grant from Umea University initially for 12 months, with a possibility of extension for one more year. The position carries a yearly tax-free salary of 168,000-180,000 SEK, depending on experience. A Ph.D. in an appropriate area is required. Qualified candidates are encouraged to send a letter of interest (together with curriculum vitae and e-mail addresses of two references) either through e-mail (preferably), fax, or mail to Dr. Leszek A. Kleczkowski, Department of Plant Physiology, Umea University, S-901 87 Umea, SWEDEN; fax +46-90-7866675, e-mail Leszek.Kleczkowski@plantphys.umu.se. The UPSC provides a thriving environment for scientific advancement, with over 30 researchers having combined skills in molecular biology, gene technology, plant physiology, and biochemistry. For more information on research activities at UPSC, please consult our web page at http://www.ups.c.u.

Scientist Positions
University of Kentucky, Lexington
(Received 02/26)
Two scientist positions are available in a state-supported biotechnology mission examining development of new crops for "molecular farming" and entirely new applications of the tobacco plant. This is a unique opportunity to lead exciting research projects with excellent laboratory facilities, project budgets, and technical support. Position SP25810—Plant gene discovery: Employ genomics technologies (existing and novel) to the discovery of plant genes appropriate to the development of disease resistance, herbicide resistance, stress tolerance, and/or other performance traits in plants. Position SP27692—Novel transgenic plants: Develop and investigate transgenic plants expressing novel genes for the above performance traits and for the accumulation of new products. Both positions require a Ph.D. in a relevant field of plant science with experience in plant molecular biology or transformation. For more information contact Dr. D. A. Davis, e-mail mdavis@pop.uky.edu. Applications should arrive no later than April 20, 2001, at Human Resources, 21 Scovell Hall, University of Kentucky, Lexington, KY 40506 referencing the above position numbers. The University of Kentucky is an equal opportunity employer.

Postdoctoral Position
Arizona State University, Tempe
(Received 02/27)
A postdoctoral position, funded through the NSF, will be available beginning April 2001 for a person interested in experimentally elucidating the role of selected Arabidopsis peroxin homologs and membrane proteins in the biogenesis and differentiation of oilseed peroxisomes. Experimental designs will entail expression of site-directed modified genes in suspension-cultured cells to discover novel intracellular sorting pathways (ER, peroxisomal vesicles, etc.), molecular targeting signals, and the mechanisms by which these proteins are sorted and imported into ER and peroxisomes. Most research will be conducted with transiently- or stably-transformed BY-2/Arabidopsis cells. Cell fractionation, molecular analyses (subcloning, PCR, RT-PCR, etc.), and
light (epifluorescence and laser confocal) and electron (immunogold) microscopy collectively will be employed. Requirements are a Ph.D., experience in recombinant DNA/RNA methodology, and demonstrated scientific writing skills (published research). Experience in protein biochemistry and Arabidopsis biology is desirable. Send letter of interest, curriculum vitae and names and e-mail addresses of referees to trelease.dick@asu.edu (preferably) or to Dr. Richard Trelease, Arizona State University, Dept. of Plant Biology POB 871601, Tempe, AZ 85287-1001, ASU is an equal opportunity/affirmative action employer.

Postdoctoral Researcher/Graduate Student University of Florida, Gainesville (Received 02/27)
The Soil and Water Science Department at University of Florida seeks a highly motivated individual (postdoctoral/graduate student) to join a multi-disciplinary and multi-year research project funded by National Science Foundation to study the mechanisms of arsenic uptake, translocation, distribution, and detoxification by a newly discovered arsenic hyperaccumulating plant, which is recently documented in Nature. The candidate must have a strong background in vascular plant physiology and biochemistry with emphasis on plant metabolism and mineral nutrition. Knowledge and experience in hydroponics, molecular biology, plant genetics, plant metal uptake, and/or hyperaccumulating plants would be very useful. Send application letter, resume, transcripts, and three letters of reference to Dr. Lena Ma, Soil and Water Science Department, University of Florida, Gainesville, FL 32611-0290; telephone 352-392-9063, e-mail lqma@ufl.edu.

Postdoctoral Associate Plant Genetics/Plant Molecular Biology USDA/ARS, St. Paul, Minnesota (Received 02/28)
The U.S. Department of Agriculture, Agricultural Research Service, Plant Science Research Unit, St. Paul, Minnesota, is recruiting for an ARS postdoctoral research associate (two-year appointment) in the area of plant genetics/plant molecular biology, GS-11, salary $44,380/year. A recent Ph.D. is required. The incumbent will conduct research on genomic approaches to nutrient stress adaptation in the model legume Medicago truncatula. The focus of the research will be on identifying genes involved in nutrient acquisition, particularly nitrogen and phosphorus, with the goal of improving nutrient acquisition in legumes. Applicants must demonstrate knowledge of plant genetics and plant molecular biology. Applicants also need knowledge of biochemistry, cell biology, and plant physiology. The successful candidate will collaborate with ARS and University of Minnesota personnel involved in M. truncatula genomics. Send curriculum vitae and three letters of reference to Dr. Carroll P. Vance, USDA/ARS, Agronomy and Plant Genetics Dept., University of Minnesota, 411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108-6026; telephone 612-625-5715, e-mail vance004@tc.umn.edu. See further position information (RA-01-0241) on our Web site at http://www.aimars.usda.gov/divisions/hrd/hrdhomepage.html. USDA-ARS is an equal opportunity employer and provider.

Postdoctoral Position Colorado State University, Fort Collins (Received 02/28)
A three-year postdoctoral position is available immediately to investigate the molecular components of pollen-pistil interactions in plants. The successful candidate will study the role of pollen extensions (Pex) proteins in reproduction using transgenic Arabidopsis and tomato. In addition, the postdoc will use the yeast 2-hybrid system and other protein-protein interaction methods to identify ligands of the Pex proteins. Candidates should have a Ph.D. in plant biology, biochemistry, molecular biology, genetics, or a related field, along with evidence of research potential as demonstrated by publications in peer-reviewed journals. Experience in molecular biology, biochemistry, and plant transformation is essential. To apply for this position, please send a cover letter, curriculum vitae, representative publications, and names and e-mail addresses of three referees to Patricia Bedinger, Ph.D., Associate Professor, Biology, Colorado State University, Fort Collins, CO 80523-1878, e-mail bedinger@lamar.colostate.edu.

RESEARCH/TECHNICAL POSITIONS
(Non-Ph.D.)
Scientific Technician I
University of Maine, Orono (Received 01/09)
A scientific technician I position is available to support research in molecular and biochemical studies of sea slug/chloroplast symbiosis and oyster/bacterial interactions. The individual would assist with initial laboratory set-up, daily operation, and research activities in two laboratories in the Department of Biochemistry, Microbiology and Molecular Biology. For a complete description of the research projects, please see Plant Physiology 123, 29-38, and 124, 331-342; 2000; Applied and Environmental Microbiology 65, 2534-2539; and 66, 3924-3930; 2000. Minimum qualifications include a B.A./B.S. in biology or a related discipline. Experience with general laboratory and microbiological techniques is required, and familiarity with molecular biology is highly desired. An ability to work independently and supervise one or two undergraduate students is also required, as well as a demonstrated ability to keep good records. The starting salary is $19,240, and the position is available immediately. Interested applicants should send a detailed resume with a list of course work and research experience, and telephone numbers/e-mail addresses of three references to Drs. Mary Rumpho and Kathy Boettcher, Department of Biochemistry, Microbiology and Molecular Biology, 5735 Hitchner Hall, University of Maine, Orono ME, 04401-5735. E-mail applications are encouraged to either mrumpho@umit.maine.edu or boettche@maine.edu.

Research Positions
Cleveland Clinic Foundation (CCF)
Cleveland, Ohio (Received 1/10)
Two positions are available immediately in the newly created Center for Cardiovascular Genetics in Department of Cardiology at the Cleveland Clinic Foundation (CCF). The center applies cutting-edge technologies to map, clone, and characterize susceptibility genes for premature coronary artery disease, the number one killer disease in the developed countries. The CCF Cardiology program is one of the largest programs in the United States, and has been consistently ranked first for the past six years by U.S. News and World Report. More than 600 sib pairs with premature coronary artery disease are already available for the project, and we have access to thousands of new patients each year at CCF. State-of-the-art research facilities are available for the project. Position one is for a postdoctoral research fellow or senior research technologist in the area of genetics, molecular biology, or related disciplines. Position two is for a project scientist with expertise in genetics of complex disease, statistical genetics, or functional genomics. Interested applicants please submit a curriculum vitae and names and addresses of three references to Dr. Qing Wang, Center for Molecular Genetics, ND40, or Dr. Eric Topol, Chairman, Department of Cardiology, F25, The Cleveland Clinic, 9500 Euclid Ave., Cleveland, OH 44195; fax 216-444-2682; email wangq@ccf.org and toppole@ccf.org.

Research Positions
Westvaco Forest Science Laboratory
Summerville, South Carolina
(Received 01/19)
Westvaco is a major producer of paper, envelopes, packaging and specialty chemicals with an active Forest Science and Technology department located near Charleston, South Carolina. Ongoing research efforts into the application of Biotechnology to tree improvement in forest tree species include tissue culture, molecular biology and transformation. We are seeking three highly motivated candidates to join our programs in hardwood tissue culture and molecular biology of flowering and stress resistance. For each position a masters degree in biology (or related area) with experience in molecular biology, plant tissue culture, or plant physiology is preferred. Candidates with a bachelors degree in biology (or related field) and at least three years experience in these fields will also be considered. One position (#FR-04-00) is available in hardwood tissue culture. Applicants are expected to have experience in tissue culture of plants, preferably woody plants. Experience with organogenesis systems and/or embryogenesis systems is desirable, as is familiarity with plant transformation. Two positions (#FR-01-01 and #FR-02-01) are available in molecular biology. Experience in manipulation of nucleic acids, molecular cloning, and PCR and ligation aspects of gene construction is essential. Experience with gene expression analysis in transgenic plants and plant physiology are also desired. Each candidate should be able to

ASPP NEWS
function within a team environment with a moderate degree of independence. Additional duties may include general lab maintenance, ordering of supplies, field collection of samples, and caring for transgenic plants. Authorization to work in the U.S. is required. Interested candidates should send resume, college transcripts, and three letters of recommendation to FST Jobs (please reference job number from above), Westvaco Forest Science Laboratory, PO Box 1956, Summerville, SC 29484; telephone 843-851-4733, e-mail FSTjobs@westvaco.com. Applications will be accepted until March 30, 2001, or until qualified candidates are found. Westvaco is an equal opportunity employer, m/f.

Technician
Duke University, Durham, North Carolina
(Received 02/02)
The person in this position should have experience in scientific research and interest in plant science. The project involves assay of antisense compounds in living plants. Skills required include preparation, culture of plants and flowers in a laboratory or greenhouse setting, use of radioisotopes, and statistical analysis. College degree (AA to MA) is appropriate for this position. Send curriculum vitae to Professor M. C. Furr, Department of Chemistry, Duke University, PO Box 90317, Durham, NC 27708-0317; fax 919-660-1591.

Graduate Research Assistantship
Simon Fraser University, British Columbia
Canada
(Received 01/17)
A graduate research assistantship is available to pursue a Ph.D. degree in conifer molecular biology in the Department of Biological Sciences. Research will focus on analyses of gene expression and biochemistry of induced defense responses and resistance mechanisms elicited by insect attack in spruce. Applicants should have a solid background in at least one of the following areas: molecular biology, biochemistry, or plant pathology. In addition, relevant experience in a related field will be considered. For more information, contact Dr. Aine L. Plante, Department of Biological Sciences, Simon Fraser University, 8888 University Drive, Burnaby, British Columbia V5A 1S6, Canada; telephone 604-291-4461, fax 604-291-3496, e-mail aplante@sfu.ca, Web site http://www.sfu.ca/biology/faculty/plant/.

Graduate Assistantships
University of Florida, Gainesville
(Received 01/22)
Research/Teaching assistantships are available for studies leading to a M.S. or Ph.D. degree. Program areas include plant production and nutrition, plant physiology, postharvest physiology and technology, biochemistry, molecular biology, seed physiology, and plant breeding and genetics. Stipends range from $14,000 to $15,000 plus a partial tuition waiver. A limited number of prestigious Graduate Alumni Fellowships and Presidential Fellowships are available for highly competitive Ph.D. applicants. The diverse climatic conditions and cultural practices in Florida offer research opportunities with temperate, subtropical, and tropical commodities. U.S. Applicants are encouraged to apply. For further information, contact Dr. D.J. Huber, Graduate Coordinator, Horticultural Sciences Department, PO Box 110690, University of Florida, Gainesville, Florida 32611-0690; telephone 352-392-1928, ext. 216, e-mail rgoetz@ufl.edu.

Graduate Research Assistantship
North Carolina State University, Raleigh
(Received 01/30)
A research assistantship at the M.S. or Ph.D. level is available immediately. The candidate will participate in a newly funded program integrating physiological, biochemical, and molecular aspects of stress responses in conifer species. In addition, practical aspects of extending storage and reducing the use of chemicals are being developed in the department. These include novel modified atmospheric packaging and the development of thermal and biological control treatments instead of fungicides and insecticides. For further information, contact Dr. Susan Lurie, Department of Postharvest Science, The Volcani Center, ARO, POB 6, Bet Dagan 50250, Israel; fax +972-3-9683622, e-mail zeslov@netvision.net.il. Additional information about the department can be found at http://www.agri.gov.il/Depts/Postharvest.html.

Ph.D. Graduate Research Assistantship
Purdue University, West Lafayette, Indiana
(Received 02/01)
Applicants are invited for a Ph.D. graduate assistantship in the Department of Horticulture at Purdue University to study flavonoid-sensitive membrane-associated aminopeptidases in Arabidopsis and their role in the regulation ofauxin movement at the cellular level. A B.A./B.S. in molecular biology or biochemistry with an emphasis on plant studies is required. The student will use molecular biological and biochemical techniques to study the interactions of these aminopeptidases with the auxin transport regulatory apparatus. Potential applicants are referred to Plant Physiology and Biochemistry 37, 413-443 and Planta 211, 315-324 for further details. The studentships carry a stipend averaging $15,000 plus a tuition and fee waiver, travel allowance of $400 for travel to professional meetings to present research results, payment of a student activity fee (currently $325 per semester), and $140 per year toward the cost of medical insurance. The Department of Horticulture and Landscape Architecture values ethnic and gender diversity. Therefore, women and minority candidates are encouraged to apply. Purdue University is an equal opportunity/affirmative action employer. Interested applicants should contact Angus Murphy, Department of Horticulture, 1165 Horticulture Bldg., Purdue University, West Lafayette, IN 47907-1165; telephone 765-496-7956, e-mail amurphy@hort.purdue.edu.

Ph.D. Graduate Research Assistantship
Purdue University, West Lafayette, Indiana
(Received 02/07)
A Ph.D. graduate research assistantship is available in the Department of Horticulture at Purdue University to study gene involvement in plant cuticular wax biosynthesis. The successful candidate will clone and then examine the function of new wax genes that were recently identified using T-DNA insertion mutagenesis in Arabidopsis. Applicants should have a strong background in molecular biology, genetics, or biochemistry. Assistantships carry a $15,000 stipend plus a tuition and fee waiver, travel
allowance of $400 for travel to professional meetings to present research results, payment of a student activity fee (currently $332 per semester), and $140 per year toward the cost of medical insurance. Purdue University is an equal opportunity/affirmative action employer. Contact Matt Jenks, Department of Horticulture, 1165 Horticulture Bldg., Purdue University, West Lafayette, IN 47907-1165; telephone 765-494-1332, e-mail jenks@hort.purdue.edu.

Graduate Research Assistantships

Louisiana State University, Baton Rouge (Received 02/07)
Research assistantship positions to support graduate student research leading to a Ph.D. degree in plant molecular biology will be available starting the fall semester of 2001 in the Department of Plant Pathology and Crop Physiology at Louisiana State University and LSU Agricultural Center. Particular areas of training emphasis include studies of gene regulation in transgenic rice, protein structure/stability relationships, and transcriptional regulation of bean and rice seed storage proteins. Please refer to our recent publications: Protein Chem. 14, 665-678, 1995; Plant J. 5, 885-890, 1994; Plant Physiol. 109, 777-786, 1995; Transgenic Research 2, 21-28, 1993. Another area of training emphasis includes studies of transformation of cotton, gene regulation, and molecular mode of herbicide resistance in transgenic cotton. Please refer to our publications: Nucl. Acid Res. 18(8), 2188, 1990; Plant Physiol. 97, 1044-1050, 1992; Plant Physiol. 109, 662-668, 1993. Research assistantships are available from the Department of Plant Pathology and Crop Physiology. Other fellowships are available from the LSU Board of Regents’ Graduate Fellowships in Agricultural and the LSU Alumni Federation Graduate Fellowships. Stipend ranges from $13,000 to $18,000 annually. Research facilities include state-of-the-art equipment for molecular and cellular biology, biochemistry, biophysics, and computation. Candidates should have a strong background in molecular biology, genetics, plant physiology, biochemistry, or related fields. Please submit a letter of interest, resume, undergraduate and graduate transcripts, and GRE/TOEFL scores and arrange to have three letters of reference sent to Dr. Norimoto Murai, Department of Plant Pathology and Crop Physiology, Louisiana State University and LSU Agricultural Center, Baton Rouge, LA 70803-1720; telephone 225-578-1380, fax 225-578-1415, e-mail nmurai@lsu.edu.

M.S. Graduate Positions

Salem International University, Salem (Received 02/00)
Scholarship and stipends are available in the Department of Bioscience, Salem International University, Salem, West Virginia, for the M.S. Graduate Program in Molecular Biology and Biotechnology. A position is available to work on the genetic transformation of wetland monocots with novel genes with activity against specific metals and to develop a plant model for the study of metal remediation. Interested individuals should submit official transcripts, curriculum vitae, and three letters of reference to Dr. S. Rogers, Department of Bioscience, Salem International University, Salem, WV 26426-0506; telephone 304-782-5585, fax 304-782-5579, e-mail Rogers@Salemieu.edu. EOE/AA.

Research Assistantships

University of Arkansas, Fayetteville (Received 02/20)
Two research assistantships are available immediately for graduate students at the M.S. or Ph.D. level in the Cell and Molecular Biology Program or Plant Science Program at the University of Arkansas. The assistantships carry stipend, tuition waiver and travel allowance to professional meetings. Using a combination of molecular, biochemical, genetic and genomic approaches, the successful candidates will focus on characterizing defense-related regulatory genes and elucidating signal transduction pathways leading to disease resistance in rice (Genes & Development 11, 1621-1639, 1997). Applicants should send a letter of interest, a resume with names and addresses of three references, undergraduate and graduate transcripts, and GRE/TOEFL scores to Dr. Yinong Yang, Department of Plant Pathology, 217 Plant Science Building, University of Arkansas, Fayetteville, AR 72701; telephone 501-575-5655, fax 501-575-7601, e-mail yiyang@uark.edu.

Graduate Research Assistantship

Texas A&M University, College Station Received 02/26)
A Ph.D. graduate research assistantship is available at the Department of Entomology, Texas A&M University, College Station. The research program areas include studying defense gene regulation and signal transduction pathways in response to attacks by herbivorous pests and understanding how insects adapt to the challenge of plant defense molecules. Research will be conducted at the Institute of Plant Genomics and Biotechnology, which is very well equipped for basic as well as applied scientific studies. The candidate should be motivated in molecular biology research. M.S. degree in a plant- or insect-related area and experience in molecular biology are desirable. However, highly successful and motivated B.S. applicants will also be considered. Please submit a curriculum vitae, GRE scores, three reference letters, publications, and a letter describing professional goals to Dr. Keyan Zhu-Salzman, Department of Entomology, Texas A&M University, College Station, TX 77843-2475, e-mail kzs@tamu.edu.

Ph.D. Graduate Research Assistantship

University of Guelph, Guelph, Ontario, Canada (Repeat)
Contact Dr. David Wolyn, Department of Plant Agriculture, Bovy Building, University of Guelph, Guelph, Ontario, Canada N1G 2W1; telephone 519-824-4120, ext. 3092, fax 519-767-0755, e-mail dwolyn@uoguelph.ca. (Details January/February ASPP NEWS)

Graduate Research Fellowships

Oregon State University, Corvallis (Repeat)
For information, contact Dr. Jim Myers, Department of Horticulture, Oregon State University, 4017 ALS, Corvallis, OR 97331-7504; e-mail myersj@bcc.orst.edu, Web site http://www.orst.edu/dept/hort/grad. (Details January/February ASPP NEWS)

Graduate Fellowships

Lehman College
City University of New York, Bronx (Repeat)
Contact Dr. Eleanor Wurzel, Chair, Plant Sciences Ph.D. Program, Department of Biological Sciences, Lehman College, CUNY, 250 Bedford Park Blvd. West, Bronx, NY 10468; telephone 718-960-8643, fax 718-960-7348, e-mail twlc@ccny.cuny.edu. (Details January/February ASPP NEWS)

Graduate Assistantships

University of Florida, Gainesville (Repeat)
For information on graduate study opportunities at the University of Florida, Gainesville, please see http://www.rpg.ufl.edu/education/graduatedmissions.html. To apply, please mail a curriculum vitae and the names of three references to Dr. Bala Rathinasabapathi, Assistant Professor, Plant Molecular and Cellular Biology Program, Horticultural Sciences Department, University of Florida, Gainesville, FL 32611-0690; telephone 352-392-3991. (Details January/February ASPP NEWS)

Graduate Assistantships

University of Nevada, Reno (Repeat)
Contact Dr. John C. Cushman, Department of Biochemistry/MS200, University of Nevada, Reno, NV 89557-0014; telephone 775-784-1918, fax 775-784-1650, e-mail jcushman@unr.edu. (Details January/February ASPP NEWS)

Graduate Assistantships

University of South Dakota, Vermillion (Repeat)
Contact Dr. Zoran Ristic, Department of Biology, University of South Dakota, Vermillion, SD 57069; telephone 605-677-6170, fax 605-677-6557, e-mail zristic@usd.edu. (Details January/February ASPP NEWS)

Graduate Assistantships

North Dakota State University, Fargo (Repeat)
For information about specific research projects and application requirements, please contact Ron Hutchison, Department of Biology, 218 Stevens Hall, North Dakota State University, Fargo, ND 58105-5516; telephone 701-231-7224, e-mail ron_hutchison@ndsu.nodak.edu. (Details January/February ASPP NEWS)
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**2001 Membership Dues** (Pro-rated)

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**2001 Subscription Fees** (Circle your selection)

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**Membership Dues**

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<td><a href="mailto:jeaton@aspp.org">jeaton@aspp.org</a></td>
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<tr>
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<td>Susan Chambers</td>
<td><a href="mailto:chambers@aspp.org">chambers@aspp.org</a></td>
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<td><a href="mailto:galiano@aspp.org">galiano@aspp.org</a></td>
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<td>Kelley Horse</td>
<td><a href="mailto:horse@aspp.org">horse@aspp.org</a></td>
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<td><a href="mailto:buch@aspp.org">buch@aspp.org</a></td>
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