

# Society for In Vitro Biology

## 2009 Annual Report

### President's Report

As year 2 of my presidency draws to a close, I would like to take this opportunity to reflect on where SIVB has come in the past 2 years, and speculate a bit on where I think the Society can go in the next decade. To say that the past 2 years have been challenging would be a bit of an understatement. While economists and pundits may conclude that we are out of the worst recession in 80 years, the reality is that, for many of us and for our Society, the recovery is going to be slow and painful. Financial issues will remain omnipresent for the incoming administration and the SIVB Board of Directors will need to be vigilant and prudent in handling finances for

years to come. That being said, I am proud of the fact that the Society for In Vitro Biology is, in fact, "in the black" and is on the most secure financial footing in years. This was not accomplished without sacrifice and consternation, nor was it accomplished due

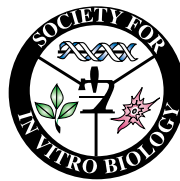
to actions by my administration alone. As most of you know, the Society put itself on a financial diet a few years ago and we are now finally realizing the benefits of that frugality. The main objective of the current board was to ensure continued fiscal responsibility and to maintain a society that provided value to its constituents and promoted sound in vitro science. I think we have accomplished that. As the rest of the world regains its financial footing, I am bold enough to suggest that the Society for In Vitro Biology is better poised now to grow, evolve and meet the challenges of a modern-day scientific society than it has been in years. I have full faith that our current Board of Directors, our Treasurer, Barbara Doonan, and our new President, Bill Smith, will provide the leadership our Society needs as we go forward.

As usual, we are in full planning mode for the 2010 Annual meeting. What is not usual this year is that we are planning the meeting in collaboration with the International Association of Plant Biotechnology. This arrangement, which was outlined in a Memorandum of Understanding back in early 2008, has made organizing this year's meeting particularly challenging. The IAPB is a much larger society and their vision for this meeting was considerably more grand than our typical meeting. It has taken the dedicated efforts of a number of people to ensure that SIVB interests are appropriately represented in the program. In particular, since the IAPB is dedicated to plant biotechnology, it was paramount that SIVB still be able to mount an enticing and exciting program for the IVACS members. I believe we have succeeded and I would like to particularly commend the efforts of the overall Program Chair, Michael Spencer and the Program Co-Chair, Cindy Goodman, for their dedication and resourcefulness in pulling together a solid program, particularly for

our IVACS members. Their input into the plant-related sessions was also invaluable and I believe the entire program is absolutely the highest caliber possible. A particular concern going into this meeting was that fundraising may be problematic, not only due to the economy, but also due to the fact that it was a joint Society meeting. It was imperative that SIVB raise funds independently of IAPB to support our SIVB-specific activities, such as the IVACS sessions and our fellowships to cover the meeting registration costs of SIVB student members. While not officially approved yet, we have again applied for an NSF grant to support our student initiatives and early indications from NSF have been positive. We remain optimistic. My thanks again this year go to Michael Spencer, Marietta Ellis, Dwight Tomes, and Peggy Ozias-Akins for their efforts in writing and submitting the NSF grant. Even without the NSF grant, we were able to raise sufficient funds to cover our SIVB programs and to provide IAPB with a donation to support a series of micro-propagation-related symposia of interest to SIVB members. While the meeting is still 2 months away and many logistics still need to be worked out, I am excited about the outstanding scientific program and the opportunity to interact with our IAPB colleagues.

This meeting also represents a unique and real opportunity to recruit new members and to demonstrate the vitality and relevance of the Society for In Vitro Biology to a large, new audience. I would be completely remiss if I did not acknowledge the contributions from our New Beginnings Management colleagues for their help in planning the 2010 meeting. In particular, I need to recognize Marietta Ellis for being our voice and our advocate during many, many planning meetings; I sincerely appreciate all of your help during the past 2 years, and none more so than during the planning for the 2010 meeting. The 2010 meeting with IAPB has been a unique challenge, but in the end, I think a combination of careful planning and dedicated SIVB fund-raising will pay dividends in another outstanding and successful annual meeting.

Our journals have been published by Springer for 2 years now and negotiations are underway for another contract extension. We have been receiving a steady flow of manuscripts for both journals and arrangements have been made with IAPB to ensure steady, uninterrupted publication of IV-Plant. The Publication committee has been in the capable hands of our publication chair, Barbara Reed. For details on our publications, please see the annual report from the Publication Committee. There is, however, one specific topic that I would like to mention regarding our publications. The Society for In Vitro Biology has played a lead role in addressing the issue of mammalian cell line authentication and, on Jan 1, 2009 we instituted a policy requiring proof of cell line authentication to be included in any manuscript submitted for publication in *In Vitro - Animal*. This action has been enthusiastically supported



and *In Vitro - Animal* is now joined by 8 other journals requiring cell line authentication, including Cancer Research, Cell Biochemistry and Biophysics and Nature. I expect SIVB to continue to be a progressive voice for demanding the highest quality standards in cell culture research.

I would like to recognize the dedication of the respective section chairs, Peggy Ozias-Akins and Dennis Laska, representing Plant Biotechnology and IVACS, for their cooperation and help over the past year. In particular, they were instrumental in providing suggestions, feedback and evaluation for joint planning sessions with IAPB on the 2010 meeting. Their input and opinions were invaluable and sincerely appreciated by me as I attempted to represent SIVB interests. Both Peggy and Dennis always responded to any questions that I had and each addressed the needs of their sections constructively and passionately. It has been a pleasure working with both of them over the past 2 years. Their dedication and involvement has made my job immeasurably easier.

The Society has begun to dabble in the social networking tools now available on the web. Our website remains a "work-in-progress" and I sincerely expect to see improvements to the site over the next year or two. As our website is our "face" to many prospective (and current) members, I want to see it be more inviting, more interactive and more representative of the vitality within our organization. SIVB is now "LinkedIn" - there is an SIVB group and an SIVB/IVACS sub-group (managed by Thomas Gurganus) on LinkedIn. We currently have over 100 LinkedIn group members. The group is a forum for discussions of any topic related to plant or animal tissue culture and biotechnology in general and is a great way to network with colleagues. If you are a member of LinkedIn, please join the SIVB group and help us make it a lively, interactive, and informative site. Once again, I encourage you to bring any suggestions you may have for utilizing social networking, or other Web 2.0 tools to your SIVB representatives to the Board for consideration. There are myriad ways to connect with colleagues and potential members and we need to explore all possible venues.

One area of concern that I have is our steadily dwindling membership. Like many small scientific organizations, our member numbers have been declining for several years now with little sign that the loss is slowing. This situation is not unique to SIVB and was certainly exacerbated by the poor economy the past 2 years. However, the questions remain: why do we continue to lose members, what are the reasons members aren't renewing and what can we provide our continuing members and potential new members to make them stay/return/join? To this end, the Long Range Planning committee has been developing a strategic plan for SIVB that I am anxious to see implemented in the coming years. We need to be proactive in seeking new members and, just as importantly, we need to

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SIVB President Todd J. Jones

## President, *continued*

identify and enhance the value we bring to existing and prospective members. If our Society cannot provide sufficient value to entice members to stay or to join, we will not survive. It is imperative, it is our greatest challenge, to identify the needs and desires of our customers and to provide them with a compelling reason to remain or become members of SIVB. I believe the strategic plan being developed by the Long Range Planning Committee, under the direction of President-Elect, and soon-to-be President, Bill Smith will address those issues and provide answers and direction. While the challenge is great, I am heartened by the fact that we are now in a financial position to actually be thinking and planning strategically for our future. I have full confidence that with the leadership of the Society and the will of the members, the Society for In Vitro Biology will again be a growing, prosperous and vital scientific society.

Lastly, I must also thank our Managing Director, Marietta Wheaton Ellis, and her staff at New Beginnings Management for their dedication and service to the Society. I am personally indebted to them for all that they do, from managing the business aspects of the Society to their role in organizing the annual meeting. They do an immense amount of work on behalf of the Society and they do it with alacrity, cheerfulness and grace. They are dedicated and talented individuals and I would have been lost without them. Thank you for all the help you have provided me over the past 2 years and for your tireless service on behalf of the Society.

I'm looking forward to meeting you all in St. Louis in June.

**Todd Jones**  
President, Society for In Vitro Biology  
todd.jones@basf.com

## Secretary's Report

The Secretary's role is to provide a continuum of information to the Board, by producing a written record of the Board meetings. A related, crucial role is to also share this information with all SIVB members by having the Board meeting minutes posted on our website. Yet another role is to be part of the nomination/election process.

All the minutes from 2009 have been posted on the website for review by the SIVB membership. Also, the 2010 - 2012 slate was selected and finalized in 2009. All ballots were tallied by an electronic ballot system and the new officers were announced in the January-March 2010 *In Vitro Report*.

Thank you to everyone who has been of such great assistance during my first term as Secretary and I look forward to my next term in office. I appreciate your help and support.

**John J. Finer, Secretary**  
finer.1@osu.edu

## Treasurer's Report

As we move forward toward our 2010 annual meeting to be held jointly with the IAPB, I am pleased to be able to report that we ended 2009 in a positive financial position. A quick review of the Treasurer's Summary Report, included as part of this SIVB Annual Report, indicates that net assets (unrestricted) as of December 31, 2008 were a negative \$12,614.00. As of December 31, 2009 net assets had risen to a positive \$68,586.00! It is my very great pleasure, as the current Treasurer of the SIVB, to congratulate all the members of the society, the Board of Directors, the Finance Committee, the Development Committee and the Publications Committee who have worked so hard towards accomplishing this goal. An additional important aspect of our finances is the approach taken for investments. Certificate of Deposit investments matured during 2009 requiring that similar or alternative strategies be sought in order to achieve maximum security while earning the best possible return. Potential investment

strategies have been researched with options presented by Matthew Topper, financial advisor from Morgan Stanley Smith Barney. Following internal discussions recommendations were made to the Board of Directors by the finance committee for the investment of 100K.

Since we are all aware from past experience that a jointly held meeting does pose some unknowns as to precise outcome with respect to anticipated financial gains/losses, throughout the planning process our Officers, Board of Directors, Committee members and New Beginnings Management staff have been diligently representing our needs and interests. We are a unique society, bridging a broad range of disciplines, and we can feel proud of the true team spirit that abounds across the society. I am confident in our ability to continue and to enhance the positive trends reported here as we move forward into the second decade of the 21st century.

**Barbara B. Doonan, Treasurer**  
bdoonan@usthq.com

## Business Office Report

In 2009, the Business Office ran both the day to day functions of the SIVB and worked with the leadership of the SIVB and IAPB in preparation for the upcoming collaboration with the SIVB. We move forward toward new goals and hope for a stronger future for the organization.

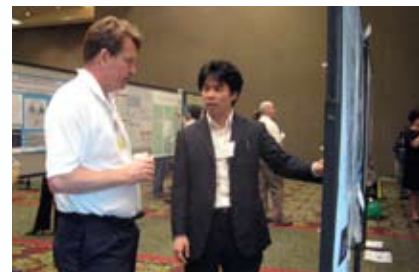
### 2009 In Vitro Biology Meeting

The 2009 In Vitro Biology Meeting was held in Charleston, South Carolina from June 6 - 10, 2009 at the Embassy Suites North Charleston. The meeting highlighted Dr. Russ Miller, PhD, Manager of Technology Transfer and Partnerships at Oak Ridge National Laboratory. He spoke on an "Introduction to the DOE BioEnergy Science Center."

The special events held during the meeting included a tour of Fort Sumter and the South Carolina Aquarium on June 6, 2009; an Evening at the Magnolia Plantation on June 9, 2009; a silent auction, which ended on June 9, 2009; and a tour of ArborGen on June 10, 2009. The two sections held a Joint Social on Monday night, June 8, 2009 with entertainment provided by SIVB members. Everyone enjoyed both the music and the company.

In 2009, the first Student and Post Doc Oral Presentation Competitions were held for the PBS section, while the IVACS section continued to offer a poster presentation competition for students.

Attendance reached 402 which included 158 members, 18 non-members, 35 post docs, 1 emeritus, and 14 one-day registrants. Also, there were 67 student registrants, 11 volunteers, 64 speakers, and 6 guests. For the fourth year, SIVB offered all students free registration to the scientific sessions of the 2009 Meeting and free membership to the Society in 2010.



*The poster sessions give members a chance to share their most recent findings*

### 2009 Awards

The Lifetime Achievement Awards were presented to Dr. Christopher J. Bayne, PhD; Glen B. Collins, PhD; Toyoki Kozai, PhD; and Masayoshi Namba, MD, PhD who were being honored for their years of exemplary research, achievements, and pioneering contributions to the field of cell culture. The Fellow Awards were presented to Daniel C. W. Brown, PhD; Lia H. Campbell, PhD; Michael E. Kane, PhD; and Pamela J. Weathers, PhD during the IVACS and PBS Section Business Meetings. Distinguished Service Awards were presented to John W. Harbell, PhD; Peggy Ozias-Akins, PhD; Wayne A. Parrott, PhD; T. Michael Spencer; and Kan Wang, PhD for their support of the organization in raising funds for the 2009 meeting and working with the NSF to raise funds for the SIVB Student Initiative, respectively. SIVB worked with the Awards, Student Affairs and Phillip White Award Committees to coordinate information about the various applications and preparing information to the winners.

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## 2010 In Vitro Biology Meeting

This year's meeting, the 2010 In Vitro Biology Meeting, is an international event being held in collaboration with the 12th International Association of Plant Biotechnology (IAPB) Congress from June 6 - 11, 2010 at the America's Center in St. Louis, Missouri. The theme of the 2010 In Vitro Biology Meeting is "In Vitro Biology: Impacting the Globe, Improving Lives." The 12th IAPB Congress' theme is "Sustainability Through Agricultural Biotechnology: Food, Biomaterials, Energy, and Environment."

This year's event is very different and the Business Office began working with the IAPB and conference organizers, MU Conference



The SIVB thanks the 2009 In Vitro Biology Meeting Volunteers for their generous assistance

Center, back in July to begin preparations. In the following months the Business Office worked heavily with the IAPB by participating in conference calls, preparing and reviewing forms, abstract submission information, and online materials. SIVB had to coordinate its schedule with the IAPB's timetable for the joint meeting and worked hard to get the message of earlier deadlines and other important information out as it became available.

The biggest change for this year was addressing how to continue to offer the SIVB Student Initiative of free student registration plus membership in the following year. As IAPB was not able to offer free student registration, SIVB created an SIVB Student Registration Fellowship to allow 65 students to attend the meeting without having to pay the registration fee. The Business Office worked with the Student Affairs Committee to coordinate a protocol for this fellowship process and prepared final documentation for potential applicants. To support this fellowship, the Business Office worked with a small group of SIVB members to prepare the application for a second grant with the National Science Foundation.

The 2010 In Vitro Biology Meeting schedule will be a bit different and will hold all business meetings and the Sections Social in the same night. During the Business Meeting, SIVB will

hold its Awards Ceremony to highlight presentations of the Lifetime Achievement Awards to Donald E. Ingber, MD, PhD; Peggy G. Lemaux, PhD; and Wilfred A. Keller, PhD. Dennis J. Gray, PhD and Wayne A. Parrott, PhD are to receive the SIVB Fellow Award during their Section meeting. The 2010 Gateway Arch Silent Auction will be held during the SIVB Sections Social on Monday, June 8, 2010 rather than run throughout the Congress.

## Membership

SIVB completed the first year working with the new online membership database, which allows for real time purchases of membership and meeting registration. If you wish to access your record on the membership database, but do not have a log in and password, please contact the office at [sivb@sivb.org](mailto:sivb@sivb.org) for more information.

The Business Office worked with the Society to forward its membership initiatives of encouraging new members and extending services to current members. The Business Office extended its use of broadcast emails sent to members about upcoming public policy issues as well as reminders of meeting deadlines and membership renewals. At the end

of 2009, SIVB initiated a special offer for those who renewed their 2010 membership by December 2009. Winners could receive a Wii, free membership in 2011, or a \$50 gift card. SIVB also instituted a Member-get-a-Member campaign where members become eligible to receive prizes if they recommend a new member who joins

SIVB. If you recruited 5 members, you will be eligible to receive free registration to the next Annual Meeting! This campaign is continuing throughout the year.

## Publications

The Business Office's Publications Department is working with Springer and the Publications Chair and Committee to negotiate the upcoming contracts for 2011-2016 contract period.

*In Vitro - Animal* has shown substantial growth and at the end of 2009 was back to publishing singular issues rather than doubled issues as it had been publishing for the past few years. In 2009, the journal began plans for a special issue on Human Embryonic Stem Cells, which was published in the March and April 2010 issues of the journal. The Business Office worked with the Editors and Board of Directors to add submission requirements for Cell Line Authentication to assure the quality of the research published in the journal for the future.

*In Vitro - Plant* continues to publish healthy issues and published a special issue on Biofuels in June 2009, which was offered as open access to increase its visibility. The journal updated its matrix to allow for clearer

definitions of what is required for submission. *In Vitro - Plant* also established a protocol to allow for smoother publication of the journal by sharing appropriate papers with the IAPB for their 2 special yearly issues.

In its last active year participating with BioOne, both journals showed significant income from the program. *In Vitro - Animal* received \$19,879 and *In Vitro - Plant* received \$22,050 in revenue from BioOne. Although the agreement with BioOne has been cancelled, SIVB will continue to receive income for another 5 years based on the materials already in BioOne's catalog. SIVB still is actively participating with JSTOR offering our journal in their archive. In 2009, we received our first revenue for participation with JSTOR. *In Vitro - Animal* received - 5,418.76 and *In Vitro - Plant* - \$3,709.38.

At the end of 2009, the Business Office began discussions for a revised design of the *In Vitro Report* newsletter which was released with the January - March 2010 issue. We encourage you to support this publication by sending in your news and other information of interest to [sivb@sivb.org](mailto:sivb@sivb.org).

## Administration

The Executive Committee, comprised of the President, President-Elect, Vice President, Secretary, Treasurer, and Past President hold conference calls with the head of New Beginnings Management, Inc. (NBM) to review the status of the Society and its upcoming needs as required. Both myself and Michele Schultz appreciate the continuing support of NBM and look forward to working with the new Executive Committee, Board of Directors, and Section Officers who will take their positions in June 2010.

The Business Office worked closely with the Treasurer with finalizing all of the financial statements for the year. The year-end financial statements showed that the Society is running in the black for the first time in many years. We also reviewed investment strategy of the organization looking for optimal investments.

Special thanks to those members whose efforts have been integral to the continuing health of the Society and its future endeavors. I would like to personally thank the 2008 - 2010 Board of Directors, Committee Chairs and Section Chairs for their support and care for SIVB during their terms of office. We are grateful for their enthusiasm and the vision they have for the Society's future potential. Lastly, a special thanks to the volunteers who offered their assistance during the 2009 In Vitro Biology Meeting, many working hours beyond what was required of them. The meeting wouldn't run as smoothly as it did without their generosity.

We welcome your ideas and suggestions in promoting and supporting the Society for In Vitro Biology. Contact us at [sivb@sivb.org](mailto:sivb@sivb.org).

**Marietta Wheaton Ellis**  
[sivb@sivb.org](mailto:sivb@sivb.org)

# In Vitro Animal Cell Sciences Section

The annual business meeting of the In Vitro Animal Cell Science Section (IVACS) was held on Monday evening, June 8, 2009 in Charleston, South Carolina as part of the annual SIVB In Vitro Biology meeting. The officers presiding over the business meeting included:

- Dennis Laska–Chair
- Cynthia Goodman-Vice Chair–Program
- Richard Heller-Vice Chair-Membership initiatives
- Guido Caputo-Secretary

Following the business meeting we joined our Plant Biotechnology (PB) colleagues at the on-site joint social at the Embassy Suites where we enjoyed good food, beverage, entertainment, and friends. During our business meeting we discussed the financial and membership position of our section. Our section continues to see a general membership decline; however we continue to success-



*At the reception honoring the 2009 Lifetime Achievement Awardees, members spoke of the achievements of the winners and how they affected the future of SIVB*

fully recruit new members, scientific input, and participation from the local universities and life sciences businesses in and around the host city. We pledged to continue this collegial relationship for future meetings. In addition, to discussing preliminary program ideas and funding sources we recognized award winners from our section. These included:

- Lifetime Achievement Award winners: Drs. Christopher Bayne (PhD) and Masayoshi Namba (MD, PhD)
- Fellow Award winner Dr. Lia Campbell (PhD) who received her award during our business meeting.
- Distinguished Service Award winner Dr. John Harbell (PhD).

In addition, several of our IVACS member students were honored for their efforts and included:

- Wilton R. Earle Award: Sumaria Zamurad – SUNY Stony Brook, Stony Brook, NY

- Honor B. Fell Award and Hope E. Hopps Award: Nicole Anne Napolitano – Stony Brook University, Setauket, NY
- Cellular Toxicology Award and Joseph F. Morgan Award: Bryan Sansom – University of Waterloo, Uxbridge, ONT
- Student Travel Award: Sumaria Zamurad and Nicole Anne Napolitano

As mentioned above, our discussions included strategy and initiatives to enhance membership and funding and were led by Dr. Richard Heller. Actually, the registration for the meeting as a whole was on par with the World Congress attendance in Tucson, AZ a year earlier. This was a very good turnout for a fine meeting and venue. Thanks to Richard Heller and John Harbell who have worked hard again this past year to secure funding for our various activities and to encourage recruitment of scientific leaders in and around the host city to present at our meetings. These efforts have paid off as our activity fund

has grown steadily over the past few years. A great effort was put forth this past year in collaboration with the Plant Biotechnology section to secure a grant to fund student initiatives from the National Science Foundation (NSF). I want to personally thank everyone who funded their travel and registration through “In Kind” funding and take one last opportunity to recognize our 2009 IVACS sponsors.

They included:

- Ariadne Genomics
- Alternatives Research and Development
- GlaxoSmithKline
- Johnson and Johnson
- Lucy E. J. Lee
- Mary Kay Inc.
- National Anti-Vivisection Society/ International Foundation for Ethical Research
- Procter & Gamble
- Sigma Aldrich
- United States Tobacco Company (UST)



*The 2009 In Vitro Biology Meeting welcomes SIVB members from throughout the globe*

I hope this list will continue to grow. If you have ideas please bring them forward to any current or incoming section officer.

Speaking of new officers, it is my pleasure to congratulate and welcome the incoming 2010 – 2012 IVACS officers. I trust everyone will work as closely with them as you all have with me and the other outgoing offices these past two years. Our new officers are:

- Chair: Michael J. Fay
- Vice Chair - Program: Brad Upham
- Vice Chair – Membership: Yvonne Reid
- Secretary: Cindy Goodman

As I mentioned earlier the 2009 meeting was by all accounts a success. Those that participated experienced a wonderful meeting full of cutting edge science and technology. We must thank Cindy Goodman and all the members of her Program Committee for assembling this exciting program. The IVACS workshops, sessions, and poster presentations included:

- Gene Targeting
- Bio/Tissue Engineering
- Cell Culture of Marine Invertebrates
- Cryopreservation
- Integration of Genomics, Proteomics, and Metabolomics
- The June Bradlaw Memorial Symposium on Toxicology in the 21st Century
- Cancer Biology and Cell–Cell Interactions
- Cellular Models – Policy, Immunity, and Toxicology
- Commercially Available In Vitro 3-D Tissue Models for Biomedical Research and Product Development
- Bioassay Protocols
- National and International Regulatory Aspects of GEOs
- Impact of Cell Contamination on Research
- Intelligent Media Design
- Cellular Pathology and Cell Line Establishment and Characterization

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- Cellular Models – Extracellular Matrix, 3-D Models, and Cryopreservation
- Evaluation of Human Health Enhancing Products Through Animal Assays
- Protocols for Cell Characterization, Identification, and Contamination Testing

IVACS members, PBS, and the Education Committee held several special student oriented workshops, competitive poster presentations and programs which included:

- How to Get the Most out of a Scientific Conference
- Sharing Science: Promoting Progress Through Public and Media Interactions
- Student Networking Symposium: Build your Written/Oral Skills, Advise Yourself, and Find That Perfect Job
- Student Working Luncheon
- Including several high school silent abstracts

This past year our section's journal *In Vitro Cellular and Developmental Biology – Animal* has also experienced renewed vigor. Through the efforts of the journal's Editor and Chief, Denry Sato, the number and quality of submitted and published manuscripts has increased steadily. Our appreciation to Denry, Michele Schultz, subject matter journal reviewers, and all who have made this happen.

The meeting closed for us with an evening of entertainment and food at Magnolia Plantation. As I turn the reins of the IVACS section over to Michael and his fellow officers, I have one last person to thank and that is our Meeting Secretariat, Ms. Marietta Wheaton Ellis and her staff at New Beginnings Management Inc. She has helped us all in every aspect of the business of being a not-for-profit society. Her knowledge and legacy with our society is unmeasurable. Thanks to you, Marietta, and your staff.

I sincerely thank the membership for your support this past year and know that you will continue to support IVACS initiatives in the coming years.

**Dennis Laska, IVACS Chair**  
dalpsu@lilly.com



Members Amy Wang and Lisa Lee take some time to catch up

## Plant Biotechnology Section

The Plant Biotechnology Section (PBS) Business Meeting was held June 8, 2009 during the annual meeting of the SIVB at the Embassy Suites in North Charleston. The PBS meeting was very well attended and served as a forum during which Section officers, committee chairs, and Board representatives were recognized. Their efforts over the year keep the Society and Section moving forward. Also recognized were organizations that sponsor SIVB and PBS meeting activities, having done so in response to Michael Spencer's fund-raising requests for donations. Michael brought in \$31,500 which was less than for 2008, but still a respectable sum in a year of recession, and has kept PBS fiscally sound. Michael, Kan Wang, Wayne Parrott, and I also invested considerable time to put together a successful proposal to the National Science Foundation which supported our student initiative. The NSF grant allowed us to pay registration expenses and one-year memberships for 65 students! Congratulations team! We hope that at least some of these students will continue to be involved with the Society and PBS to infuse new ideas and energy. They were exposed to a spectrum of topics during the meeting ranging from basic research in plant biology to applied research in the production of commercial products. The excellent scientific program attracted participants from the U.S. and 21 other countries. Speakers who are leaders in their fields and whose presentations were made possible by the grant included:

- James Birchler - Engineered Minichromosomes in Maize
- Anne Britt - Motivating Gene Targeting: How an Understanding of the Basic Mechanisms and Regulation of Recombination May Yet Lead to Efficient Gene Replacement in Higher Plants
- Melissa Monaghan – Plant Extracts for Cosmeceutical Applications: Genetic Profiling of Cell Responses
- Prahlad Parajuli - Anti-tumor Mechanisms of Various Scutellaria Extracts and Constituent Flavonoids
- Hugh Pritchard - Beyond the Cell Wall: A Comparison Between Plant and Animal Cell Cryopreservation
- Steven Strauss - Cisgenic and Intragenic Approaches to Genetic Modification of Growth and Form in Poplar
- Lloyd Sumner - Metabolomics and Integrated Functional Genomics Reveal



Fredy Altpeter with the winners of the 2009 Plant Biotechnology Post Doc Oral Presentation Competition: Charles Hancock, Joseph Knoll and Jiarui Li



Members from Tuskegee University enjoy time to take a tour of the Magnolia Plantation.

Novel Information Related to Medicago Secondary Metabolism

- Suzanne Warwick - Gene Flow in a Model GM Crop: Canola
- Maureen Whalen - Engineering Rubber Production in Plants

These among many other outstanding presentations and educational activities made the 2009 meeting an excellent opportunity for students to learn and network.

In addition to recognizing donors during the business meeting, PBS recognized student award recipients including winners of the Student and Postdoc Oral Presentation Competitions who also were presented monetary awards, made possible by funding from Monsanto. Fredy Altpeter and Michael Bosela did an exceptional job of selecting participants for the competitions, recruiting judges, and tabulating scores. The winners were:

Student oral presentation competition:

- First Place: Paula Lomba, University of Florida-IFAS, P-1000. Expressing the Gibberlin Catabolizing Enzyme AT-GAox1 in a Low-input Turfgrass (*Paspalum notatum* Flugge) Improves Turf Quality and Field Performance
- Second Place: Olubunmi O. Aina, University of Florida-IFAS, P-1004. Regeneration of *Arachis paraguariensis* Through Different Morphogenic Pathways
- Third Place: Zun Liu, Baylor University, P-1003. Highly Efficient Suppressor-dependent Protein Expression in Plants with a Foxtail Mosaic Virus Vector

Postdoc oral presentation competition:

- First Place: Charles N. Hancock, University of Georgia P-1008. Transposon Mutagenesis of Soybean (*Glycine max*) Using the Rice MITE mPing
- Second Place: Jiarui, Li, Kansas State University, P-1006 Host-delivered RNAi: An Effective Strategy to Silence Nematode Genes in Transgenic Hairy Roots of Soybean

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## Plant, continued

- Third Place: Joseph E. Knoll, University of Georgia, P-1009 TILLING for Peanut Improvement

The first ever Young Scientist Award was presented to Tzvi Tzfira, University of Michigan, whose productivity has set a high precedent for this award. Fellow Awards were presented to Dan Brown, Michael Kane, and Pam Weathers, all of whom have demonstrated their value to the Society and their profession. Glen Collins and Toyoki Kozai were presented Lifetime Achievement Awards. Dr. Collins was recognized not only for his achievements in soybean biotechnology, but also for his dedication to students, many of whom are active members of SIVB. Professor Kozai was honored for his lifetime work on in vitro microenvironmental control, which has significantly impacted the micropropagation industry. He also is admired by students as a mentor. The contributions of all these award recipients reflect the breadth and quality of our SIVB/PBS membership.

The post-meeting year was unusual for SIVB in that the meeting planning activities for 2010 were dominated by IAPB (International Association for Plant Biotechnology) and were run out of Dr. Roger Beachy's office at the Donald Danforth Plant Science Center in St. Louis, site of the current IAPB secretariat. The 12th IAPB Congress will be held in conjunction with the 2010 In Vitro Biology Meet-

ing, June 6-11, in St. Louis. The focus of IAPB, as apparent from its name, is plants. While these joint meetings are exciting for those of us in the Plant Biotechnology Section, the SIVB Program Committee strives to make this meeting attractive for Animal Section members, particularly by organizing sessions with speakers and topics of interest to both "kingdoms". The program is diverse and represents many timely



*The annual meeting is a chance for members to meet face-to-face*

themes. Michael Spencer, PBS 2010 Program Chair, is to be commended for diligently working with Todd Jones, SIVB's representative during IAPB's program development, Animal Section Program Committee members, and conveners of SIVB organized sessions to put SIVB's portion of the program together. As is inevitable when different organizations work together intermittently to hold such a conference, there are policy differences to be resolved,

but Marietta Ellis worked tirelessly to clarify communications between SIVB and IAPB. Since the joint meeting also impacts scheduling of SIVB and PBS planning, social and networking events, be sure to carefully review the meeting agenda and highlight the PBS Program Committee Meeting/Breakfast, the PBS Section Business Meeting, and the SIVB Joint Section Social so you don't miss these Society activities. Planning for the 2011 meeting will resume under more typical SIVB operating procedures, so I encourage you to participate in this process as a new slate of officers guides PBS over the next two years. Until that time, feel free to contact me, Valerie Pence

(Co-Chair), Michael Bosela (Secretary), Kan Wang (Program Chair), or Tzvi Tzfira (Program Co-Chair) with any suggestions or concerns.

**Peggy Ozias-Akins, Chair, Plant Biotechnology Section Chair**  
pozias@uga.edu



*The 2009 Plant Biotechnology Student Oral Presentation Competition Winners: Paula Lomba, Olubunmi Aina and Zun Liu*

ing, Harvard School of Engineering & Applied Sciences, for the 2010 Lifetime Achievement Award. Dr. Ingber is well known nationally and internationally for his pioneering efforts in the development of biomaterials and establishment of tissue-engineered angiogenesis, systems biology, nanotechnology and architectural models for medicine and surgery. A notable inventor, he holds numerous patents and has published hundreds of peer-reviewed scientific articles in the area of tissue engineering and novel biomaterials. In keeping with the mission and roll of the SIVB History Society, we will continue to serve as a venue to recognize and nominate scientists who have contributed to the pioneering efforts, global technology and practical application of in vitro biology.

The History Society recognized the life and achievements of Dr. Walter Nelson-Rees who passed away January 23, 2009. Dr. Nelson-Rees's scientific and pioneering contributions to in vitro biology were his research on the contamination of cell lines. In 1974, while a scientist at the University of California, Berkeley School of Public Health Cell Culture Laboratory he published a report that indicated "as much as one third of the world's established cell lines have become cross-contaminated" with HeLa cells. The work of Dr. Nelson-Rees in identifying a "hit list" of contaminated cell lines was often controversial and became at times overtly acrimonious among his scientific colleagues. Dr. Nelson-Rees received the 2004 SIVB Lifetime Achievement Award and overdue recognition for his unwavering and dedicated contributions to the prevention and detection of cell line cross-contamination and misidentification.

The History Committee continues to explore options and venues to find institutions willing to protect and archive the historical artifacts and records of the pioneering founders of in vitro biology.

**Sandra L. Schneider**  
drsandra@stic.net

## History and Records Committee

The History Society was established in 1979 at the Seattle Washington Tissue Culture Association (TCA) meeting as the Records and Historical Committee. The charge of the committee is to preserve historical information concerning the growth, maintenance and in vitro experimental use of cells, tissues and organs. The History Society, in conjunction with the Records and Historical Committee oversees contributions to the SIVB archives located in the main library of the University of Maryland, Baltimore, MD. This archived material is available to all that would like to acquaint themselves with the history of tissue culture and scientific application to in vitro biology.

Members of the History Society and Records Historical Committee include: Sandra L. Schneider (Chair), Research & Clinical Laboratory Systems; Gertrude C. Buehring (Co-Chair), University of California, Berkeley; Barbara B. Doonan, UST, Inc.; Ian Freshney, University of Glasgow; Cynthia L. Goodman, U.S. Department of Agriculture, ARC, Biological Control of Insects Research Laboratory; Leonard Hayflick, University of California, San Francisco; Karl Maramorosch, Rutgers The State University of

New Jersey; Wallace L. McKeehan, Center for Cancer & Stem Cell Biology Institute of Biosciences and Technology (IBT) Texas A&M Health Science Center, Houston, TX; Tetsuji Okamoto, Graduate School of Medicine, Dentistry & Pharmaceutical Sciences, Hiroshima University, Japan; Jon Ryan, Abbott Laboratories; Yvonne Reid, American Type Culture Collection; Denry Sato, Mount Desert Island Biological Laboratory, and Just Vlak, Wageningen University Plantentwetenschappen.

The History Society, Laboratory Materials and Biosafety Committee and the Japanese Tissue Culture Association (JTCA) co-hosted a reception to recognize the 2009 Lifetime Achievement Awardees to include: Professor Masayoshi Namba, MD, PhD, President of Niimi College and Professor Emeritus Okayama University; Christopher J. Bayne, PhD, Oregon State University; Glenn B. Collins, PhD, University of Kentucky and Toyoki Kozai, PhD, Chiba University.

The History Society and Records History Committee supported the nomination of Donald Ingber, MD, PhD, Professor of Bioengineer-



# STANDING COMMITTEES



The 2009 Distinguished Service Award Recipients: (l to r) Wayne Parrott, Peggy Ozias-Akins, T. Michael Spencer, and Kan Wang, inset: John Harbell



Lia H. Campbell is presented with the 2009 Fellow Award by IVACS Chair, Dennis Laska



Fellow Award Recipient Pamela J. Weathers



Christopher J. Bayne receives the Lifetime Achievement Award from Lucy Lee and Todd Jones



Toyoki Kozai is presented with the Lifetime Achievement Award by Chieri Kubota and Todd Jones

## Awards

The Awards Committee, comprised of Maud Hinchee, Dennis Laska, Peggy Ozias-Akins, and Todd Jones, was pleased to receive multiple meritorious nominations in 2009 for the Young Scientist Award, Fellow Award and Lifetime Achievement Award. Being offered for the first time in 2009, the Young Scientist recognizes professionals who have contributed significantly to advancement of the in vitro sciences within ten years of completion of their terminal degree. The Fellow Award was created to recognize the outstanding professional accomplishments in in vitro biology and service to the Society. The Lifetime Achievement Award recognizes and honors those who have achieved academic excellence and who have made significant contributions to the field of in vitro biology.

At the 2009 In Vitro Biology Meeting in Charleston, South Carolina, the SIVB was honored to present the Lifetime Achievement Award to the following recipients:

**Dr. Toyoki Kozai** is a pioneering leader in understanding the impact of the tissue culture environment on the physiology and performance of plant tissue cultures. He has 185 publications in refereed scientific journals, and he is also an active member in the Asia and Pacific Association of Plant Tissue Culture and Agrobiotechnology. He had very strong recommendations from his colleagues, previous students and post-doctoral candidates who are

currently active professionals in plant tissue culture research.

**Dr. Glenn Collins** is recognized as pioneer in the integration of transgenic technology into traditional plant breeding. He is recognized as a leader in developing tobacco as a model in vitro system and in soybean transformation. He has had a very productive lab with over 27 publications on plant biotechnology research and multiple students or post-doctoral candidates who in turn have made significant scientific contributions to the field of plant tissue culture and biotechnology.

**Dr. Christopher Bayne** is a pioneering researcher in use of in vitro invertebrate cells to study parasite/host interactions. He has authored over 111 scientific publications and has been cited over 560 times in other publications in immunology and parasitology. He has published in highly prestigious journals such as PNAS and the Comparative and Developmental Immunology. He is also recognized as one of the foremost researchers in the area of schistosomiasis, a snail-borne parasitic disease affecting humans in the developing world.

**Dr. Masayoshi Namba, MD** is highly meritorious on multiple fronts. He has conducted in pioneering work in human cell immortalization and the use of these cells to develop new therapeutics, he has shown significant leadership in professional societies associated with tissue culture, and he has demonstrated a talent and effort in mentoring new research scientists. He is the author on over 400 scientific publications.

SIVB was pleased to present the SIVB Fellow Award to the following SIVB Members:

**Dr. Daniel C. W. Brown** has been a very active member of the Society for In Vitro Biology, starting from when it was called the Tissue Culture Association. He is currently a member of the Board, has had roles as an associate editor and member of the editorial board of the society journal, has been a member, chair and co-chair of multiple annual meeting program committees, and has twice been a member of the long-range planning committee. He has also acted as the Managing Editor and Editor-in-Chief of the journal *Plant Cell, Tissue and Organ Culture*. Dan has been extremely productive in his research, having pioneered alfalfa somatic embryogenesis and synthetic seed technology but also leading other important research programs in the tissue culture and biotechnology of horticultural crops such as plum and ginseng. He has strong letters of support.

**Dr. Lia Campbell** has made a very positive impact on the society in a relatively short amount of time. She has brought in a previously overlooked discipline of vertebrate cryopreservation as a more active element of the society, and she has been very active in generating student participation in society meetings. She has been a co-chair of the IVACS section, has been an annual meeting program co-chair, has been a very active member of the Education Committee, and is the current Chair of the Local Organizing Committee for

*continued*

## Awards, continued

the 2009 meeting. She has multiple publications and two patent applications, and demonstrates scientific strength in her area of expertise.

**Dr. Michael Kane** has led more than 20 workshops on plant tissue culture in the classroom, with many of these workshops given at annual SIVB meetings. He has been an active participant in the plant program committee, chairing sessions at meetings, and fostering excellence in the education and micropropagation components of the meeting. He also always brings several students with him to every meeting. He is an internationally recognized expert in the area of micropropagation, especially for ecosystem restoration and conservation. He has also been an editor for the society journal. He has strong letters of support.

**Dr. Pamela Weathers** has been a dedicated member and leader within the Society for In Vitro Biology. She has served and/or continues to serve, often as chair, on the following SIVB committees: The Philip White Award Committee, the Student Awards Committee, and the Public Policy Committee. She is, and has been, a member of the SIVB Board of Directors since 2004. She has served as an associate editor for society journal since 2002, following several years of service as a Reviewing Editor. Dr. Weathers is a distinguished plant biotechnology research scientist and educator, who has produced 65 refereed journal articles, 12 invited review articles, and 5 patent applications. Approximately 66% of her publications have undergraduate students as co-authors, demonstrating her strong student mentorship activities. She currently leads a multidisciplinary research team in the scaleup and bioprocessing of plant secondary metabolites

SIVB was pleased to award the first Young Scientist Award in June at the 2009 In Vitro Biology Meeting held in Charleston, South Carolina.

**Dr. Tzvi Tzfira** is an exemplary candidate for the Young Scientist Award. He meets or exceeds all the criteria required for the award: he is internationally known for his gene targeting research, and is a PI on several grants in this area of research. He has demonstrated strong student mentorship, as evidenced by the publication track record of his first student, the presentations/publications made by his

undergraduate students, and his remarkable success mentoring high school students and enabling them to be co-authors on publications. He is an author on over 70 publications in peer reviewed journals, approximately 20 review articles, 20 book chapters, and the editor of 3 books. His publication track record is astounding for a scientist 10 years past his doctoral degree. Dr. Tzfira is active in promoting the exchange of scientific information with peers, and has organized the 2008 Crown Gall conference.

The Distinguished Service Award was presented by the President of the SIVB to the following members in 2009 for their support of the fundraising initiatives for the SIVB: **Dr. John W. Harbell, Dr. Peggy Ozias-Akins, Dr. Wayne A. Parrott, Mr. T. Michael Spencer** and **Dr. Kan Wang**.

The awards committee is pleased to announce the following awardees for 2010 Lifetime Achievement Award: **Drs. Peggy Lemaux, Dr. Wilf Keller** and **Dr. Donald Ingber, MD** who were selected to receive the Lifetime Achievement Award for their career-long sustained scientific contributions to in vitro biology. We are also pleased to announce that **Dr. Dennis Gray** and **Dr. Wayne Parrot** have been selected to receive the 2010 Fellow Award to recognize both their strong scientific capabilities as well as their active and significant contributions to the Society. Please join me in congratulating these outstanding individuals and it is my hope that you can do that personally at the upcoming annual meeting in St. Louis, Missouri.

The Student Awards Committee this year consisted of Pamela Weathers (Chair), Craig Meyers, and William Smith. Carol Stiff (Chair), Sylvia Mitchell, Esther Uchendu, and Nirmal Joshee comprised the active Phillip White Award Committee. Because her students were applying for awards, Elizabeth Roemer recused herself this year from reviewing applications. The following awards were presented at the 2009 meeting. **Sumaria Zamurad**

– Department of Pathology, SUNY Stony Brook, Stony Brook, NY was granted the Wilton R. Earle Award and an SIVB Travel Award for “Analysis of Extracellular Matrix Synthesized by Human Bronchial Smooth Muscle Cells In Vitro.”

**Emrah Kirdok** – Gebze Yuksek Teknoloji Enstitusu Istanbul Caddesi, Kocaeli, Turkey, was granted the John S. Song Award and an SIVB Travel Award for “Development of Procedures for Medium- and Long-term Storage of Coast Redwood (*Sequoia sempervirens*).” The Honor B. Fell Award, the Hope E. Hopps Award, and an SIVB Travel Award were won by **Nicole Anne Napolitano** – Stony Brook University, Setauket, NY for “Collagen Production by Normal Human Dermal Fibroblast Cells in Serum-free Media.” The Cellular Toxicology and Morgan Awards were won by **Bryan Sansom** – Uxbridge, ONT CANADA, for his work on “Comparison of Fish Cell Line Responses to Chemicals and Process-Affected Waters from the Oil Sands of Alberta, Canada.” The 2009 Philip White Memorial Award and an SIVB Travel Award went to **Sean Michael Halloran** of Clemson University, Dept. of Horticulture, Clemson, SC to attend the SIVB meeting in 2009. His work focused on “Macronutrient Optimization for In Vitro Growth of Turmeric (*Curcuma longa* L.).”

**Maud Hinchee, Awards Committee Chair**  
mahinch@arborgen.com

**Pamela J. Weathers, Student Affairs Committee Chair**  
pweathers@astate.edu

**Carol Stiff, Phillip White Committee Chair**  
carol@kitchencultureEducation.org



*Fellow Award Recipient Daniel C. W. Brown*



*Fellow Award Recipient Michael E. Kane*



*Tzvi Tzfira is presented with the first Young Scientist Award*



*Glenn B. Collins is presented with the Lifetime Achievement Award by Gregory Phillips and Todd Jones*



*2009 Student Award winners were: (L to R) Sumaria Zammurad, Emrah Kirdok, Nicole Anne Napolitano, Bryan Sansom and Sean Michael Halloran*



# Constitution and Bylaws

The 2009 Constitution and Bylaws committee consists of the following members: Delia Bethell, Mary Ann Lila, Eugene Elmore, Kathy Kamo and Lisa Lee. At the 2009 SIVB Annual meeting in Charleston, the C&B committee reviewed and discussed several items that the committee is to recommend changes to the Board of Directors for action. After the meeting, the committee members discussed through email diligently and two letters were forwarded for the Board's review. First letter referred to C&B Constitution rewording recommendation for future establishment of standing committee to better serve the SIVB members. Second letter was the C&B Award Recommendation referred to limit the number of award presented each year in the Fellow and Lifetime Achievement categories.

**Lisa Lee, Constitution and Bylaws  
Committee Chair**  
[Lisa.lee@scotts.com](mailto:Lisa.lee@scotts.com)



*Tetsuji Okamoto accepted the Lifetime Achievement Award for Masayoshi Namba from Sandra Schneider and Todd Jones*



*The Opening Reception is a chance for attendees to get to know each other*



*Barbara Reed with post doc Esther Uchendu*

# Development

The 2008 Development Committee consisted of the following members: Janis Demetriulias, Barbara Doonan, David Jayne, Linda Jacobson, Mark Jordan, Dennis Laska, Nancy Reichert, Elizabeth Roemer, Ray Shillito, David Songstad, Amy Wang, Allan Wenck, Michael Spencer and Dwight Tomes (Chair).

Fundraising for the 2008 meeting was successful in that \$113,750 was raised to support the general meeting or specific sections within the SIVB. Special thanks to Michael Spencer who was the fundraising chair this past year for his diligent efforts, to Michael and Kan Wang for drafting the NSF proposal and to Wayne Parrot and Peggy Ozias-Akins who finalized and submitted the NSF grant proposal that was funded for meeting support in 2009.

The companies and organizations that contributed to the 2009 Annual Meeting were: Monsanto, Bayer CropScience, Pioneer Hi-Bred Intl., BASF, GlaxoSmithKline, Saaten Union, Ar-

borGen, Syngenta, UST, Inc., Colgate-Palmolive, Humane Society Legislative Fund, Mary Kay Inc., Procter & Gamble, Dow Agrosciences, The Scotts Miracle Gro Company, National Anti-Vivisection Society/International Foundation for Ethical Research, Alternatives Research and Development Foundation, Lucy Lee, Johnson and Johnson, Sigma-Aldrich, The University of Arizona, Ariadne Genomics, Research and Clinical Laboratory Systems, and the National Science Foundation grant # NSFDBI-0931251. The amount listed above does not include the "in kind" contributions from invited speakers that were able to obtain funds to pay for their expenses while at the 2008 annual meeting. The Development Committee would like to express special thanks to these donors because these contributions allow us to help fund the program and our many initiatives during our annual meeting.

**Dwight T. Tomes, Development  
Committee Chair**  
[editor.invpit@me.com](mailto:editor.invpit@me.com)

# Education

The Education Committee's mission for the next three years is to work closely with the Student Committee to develop more student-focused programs. We also intend to make SIVB the leading source for biotechnology-related information and to translate complex scientific advances particularly to K-12 and undergraduate educators. With this in mind, at the 2009 SIVB meeting in Charleston, South Carolina, the Education Committee sponsored a Plant Workshop with talks on in vitro lab exercises. The workshop was convened by Michael Kane. There were four presentations: "Using Tobacco to Teach Plant Tissue Culture and Transformation", by Margaret Young of Elizabeth City State University and Nancy Reichert of Mississippi State University; "A Classroom Exercise in Asymbiotic Orchid Seed Germination: The Whole Story", by Timothy Johnson and Phillip Kauth of the University of Florida; "Using Plant Tissue Cultures to Demonstrate Mineral Nutrient Deficiencies: Comparison with Conventional Hydroponic Techniques", by Michael Bosela of Indiana University- Purdue University at Fort Wayne; and "Synthetic Seed Technology Demonstrated Through a Novel teaching Exercise", by Michael Kane of the University of Florida. The workshop was well attended, the discussions ensued were lively and the attendees had access to lab handouts prepared by the presenters. We intend to also develop additional in vitro lab exercises for plant, animal and insect cultures and to have these available on the SIVB website. We look forward at the next meetings to implement workshops specifically for K-16 educators from the surrounding areas.

We thank Todd Murphy for his services for the past two years as the Chair of this committee, and welcome Margaret Young as the new Chair.

# Student Committee

Student events were thriving at the 2009 SIVB meeting in Charleston, South Carolina. Past-Chair, Phillip Kauth led the student session "How to Get the Most Out of A Scientific Conference" where panelists shared their effective strategies, and created a welcoming environment for new and returning student members. This year's meeting in St. Louis, Missouri will build on this success, and a similar session will be held Tuesday evening from 7:00 to 9:00 pm. Other student run events last year included an informative, entertaining and engaging presentation by Karen Eippert on networking strategies for students desiring to enter into various careers, as well as an excellent presentation provided by David Ellis on careers with the USDA and Agricultural Research Service. This year there will be an informal student run event to visit a St. Louis attraction where students will have the opportunity to meet and socialize. The student committee events will conclude with the Student Affairs Committee meeting on Wednesday June 9th at 7:30 am. Last year, the committee welcomed Denis Odokonyero from Texas AgriLife Research as Co-Chair of the Student Committee, as Phillip Kauth completed his two-year term. This year we look forward to welcoming a new Co-Chair, as Richelle Monaghan completes her two-year term as Chair. By attending the Student Affairs Committee meeting, students can nominate and elect the incoming Co-Chair, and provide suggestions and feedback on planning a successful student program for the 2011 annual meeting.

**Margaret Young, Education Committee Chair**  
[mmyoung2@mail.ecsu.edu](mailto:mmyoung2@mail.ecsu.edu)

**Richelle Monaghan, Student  
Committee Chair**  
[rmonagha@uwaterloo.ca](mailto:rmonagha@uwaterloo.ca)

# Laboratory Materials and Biosafety



*The Magnolia Plantation*

## Long Range Planning

The Long Range Planning Committee (LRPC) is a standing committee of the Society and is chaired by the President-Elect of the Society. The Long Range Planning Committee is charged, as the name implies, with developing strategies for the long-term vitality of the SIVB.

Since the long-range planning of any organization is connected to its long-range financial health, the LRPC is preparing finalization of the SIVB Endowment Fund that is being explored by an Ad Hoc Oversight Committee established by the President of SIVB. The Incoming Chair of the LRPC will be a member of that Ad Hoc Committee.

The Ad hoc oversight committee established by the President provided these topics for discussion:

- Establishment of a Strategic Plan for SIVB
- Various mechanisms for contributions to go into the Endowment Fund
- How we can expand our interactions with other professional societies
- What sort of workshops or tutorials SIVB can offer at meetings or on the website?
- How can we expand the number of exhibitors at the annual meetings?
- What sources of continuing support can we identify?

After the upcoming June meeting, the Incoming Chair will be a member of this Ad Hoc Committee and will work with individual committee members to explore each of the ideas that were presented above.

**William J. Smith, Long-Range Planning Committee Chair**  
*William.j.smith3@us.army.mil*

The Laboratory Materials and Biosafety Committee (LMBC) provides a mechanism within the Society for In Vitro Biology (SIVB) to promote laboratory standards, biotechnology practices, laboratory materials, safety equipment, and facilities that constitute biosafety levels 1-4 associated with in vitro and biotechnology methodology. The goals of the LMBC are: 1) to provide an educational process and format to distribute information regarding potential hazards and risk assessment associated with: the cell culture process, the use and handling of biological agents, quality control of biomaterials, and updates on federal regulation pertinent to research, industry and clinical biotechnology applications; 2) to recommend laboratory practice, operation, or materials based on risk assessment of the agent/or material and the laboratory activity involved; and 3) to promote the interaction of committee members with national and international scientists, professional groups, and manufacturers regarding the design, processing, and use of material for in vitro and biotechnology methodology.

The LMBC committee members represent government, university/academia, private industry and include: Linda B. Jacobsen (chair), Berit Biotech, LLC; Sandra L. Schneider (co-chair), Research and Clinical Laboratory Systems; Walter Finkbeiner, University of California-San Francisco; Thomas Goodwin, Johnson Space Center, NASA; John Harbell, Mary Kay, Inc.;

John Masters, University College London, Institute of Urology-UK; Tohru Masui, JCRB Cell Bank, Division of Bioresources, National Institute of Biomedical Innovation, Osaka, Japan; Colette J. Rudd, Xenoport, Inc; Lynn Rutsky; The University of Texas Health Science Center Houston; William J. Smith, U.S. Army Medical Research Institute of Chemical Defense; Glyn N. Stacey, National Institute for Biological Standards and Control-UK; and Alda Vidrich, University of Virginia Health Sciences Center.

The LMBC co-sponsored the reception for 2009 Lifetime Achievement Awardees Professor Masayoshi Namba, MD, PhD, President of Niimi College and Professor Emeritus Okayama University; Christopher J. Bayne, Oregon State University; Glenn B. Collins, University of Kentucky and Toyoki Kozai, Chiba University.

The SIVB Laboratory Materials and Biosafety Committee is a forum to lead the discussion on setting industry standards and guidelines for world-wide compliance of cell line authentication and tissue engineered products. New endeavors include stringent toxicity assessment and continued vigilance of cell line identification resulting from emerging and advanced nanotechnology

**Sandra L Schneider, Co-Chair**  
*drsandra@stic.net*

## Membership

At the Membership Committee meeting in Charleston, we discussed prior initiatives from the Tucson meeting and discussed future initiatives. As our membership numbers have grown smaller, we have begun to look at ways to retain new members who join the Society who often only keep their membership for one year when they attend the annual meeting.

At the end of 2008, our membership was at 645 members, which included: 98 Emeritus Members, 9 Honorary Members, 9 Life Members, 454 Regular Members, 67 Student Members and 8 Post Doctoral Members. At the end of 2009, our numbers dropped to 579 members, which included: 98 Emeritus Members, 9 Honorary Members, 9 Life Members, 393 Regular Members, 63 Student Members and 7 Post Doctoral Members. 108 of the 579 members in 2009 were new to the Society.

Recognizing this, in 2009, SIVB organized to encourage member's continued participation in the organization. SIVB designed an incentive program to have Members renew by December 31, 2009 for 2010. If they did, they were eligible to participate in a drawing to win a Wii, free membership in 2011, or a \$50 gift card.

SIVB also initiated a Member-get-a-Member campaign. When an SIVB member recommends a person to join the SIVB as a regular member; SIVB contacted the potential member and offers them a \$10 discount to join the Society. If a member recommends 5 potential members and they all join, the SIVB member receives free registration to the upcoming SIVB Annual Meeting. This campaign is still being offered in 2010. It is our hope that continued participation in the SIVB programs will encourage our members to bring in new members and new members to become more involved in the SIVB in the future.

We have also continued to encourage more student member participation in the membership with adding student liaisons to some of the SIVB Committees and raising money to offer an SIVB Student Registration Fellowship to students who wished to attend the 2010 In Vitro Biology Meeting/12th IAPB Congress.

These members are the Society's future and should be recognized as such. Many members join to attend the annual meeting, and it is our hope that once they see the benefits of membership, we will be able to encourage them to continue with us as we head toward the future.

**John Finer, Membership Committee Chair**  
*finer.1@osu.edu*



# Nominating Committee

The Nominations Committee was made up of Paul Price (Chair), Greg Phillips, Michael Kane, Michael Fay, Michael Dame, and Cynthia Goodman. The goal of the committee was to put together a slate of candidates for the 2010 - 2012 term of office. The SIVB Board of Directors, Section Officers and Committee Chairs for 2010 - 2012 are as follows:

## Board of Directors

- President: William J. Smith
- President-Elect: David Songstad
- Vice President: Gregory C. Phillips
- Secretary: John Finer
- Treasurer: Barbara Doonan
- Member-at-Large (IVACS): Lucy Lee
- Member-at-Large (IVACS): Elizabeth J. Roemer
- Member-at-Large (PBS): Wayne Parrott
- Member-at-Large (PBS): Mark C. Jordan
- Publications Chair: Barbara Reed
- Public Policy Chair: Pam Weathers
- Past President: Todd J. Jones

## Vote to Approve Change to the SIVB Constitution

The following text was approved to improve SIVB's flexibility for the establishment of new standing committees via the amendment of bylaws

### ARTICLE VI, A. 2

Other Standing Committees that are key to the mission of the SOCIETY. These include the Awards Committee, Laboratory Materials and Bio-safety Committee, Education Committee, and the Constitution and Bylaws Committee, and others as specified in the Bylaws.

**Paul Price, Nominating Committee Chair**  
[p.price05@comcast.net](mailto:p.price05@comcast.net)

# Program

The 2009 Society for In Vitro Biology annual meeting in Charleston, South Carolina, was a resounding success. This success is founded in the fact that the attendance was greater this year than what it was last year (370 attendees vs. 340 at the World Congress in Tucson). Furthermore, this success was financially positive for the SIVB continuing the trend set in place by past Presidents David Altman and Paul Price and current President Todd Jones. However, what excites me the most is that this success is sustainable for the future of the SIVB. Our society is sustainable for two primary reasons. First is the "free student registration" initiative that attracted 65 students to this year's meeting. Students are the foundation for the future of our society because from them our membership rolls will grow and our future board members will arise. Second, our society will be sustainable through powerful programs on timely subjects. An example of this is choosing the keynote speaker in concert with the roll out of the *In Vitro - Plant* Special Issue Publication on Biofuels. Five authors of papers included in

the Biofuels special publication were present at this year's meeting: Russ Miller (Oak Ridge National Laboratory), Stephen Hughes (USDA/ARS NCAUR), Greg Phillips (Arkansas State University), Prakash Lakshmanan (BSES) and Dave Songstad (Monsanto).

The Keynote Symposium address was given by Russ Miller, Manager of Technology Transfer and Partnerships at Oak Ridge National Laboratory with a presentation entitled "Introduction to the DOE BioEnergy Science Center". Russ's presentation was cited many times throughout the meeting due to the clear interest in the area of biofuels within this conference and the SIVB.

As mentioned above, the strength of the program is one of the keys to a vibrant meeting and enduring society. I give credit to Cindy Goodman and Fredy Altpeter for pulling together the animal, plant, joint and plenary sessions for the 2009 annual meeting. I also give credit to the Animal and Plant Program Planning Committees from which the ideas and focus



*The 2009 In Vitro Biology Meeting is a good opportunity for students to network and share their research*



*Keynote Speaker, Russ Miller with 2009 Program Chair, David Songstad*

of the 2009 annual meeting originated. From these efforts we reached the following accomplishments:

- 16 Plenary Symposia presentations covering a variety of animal and plant related topics
- 10 Joint Symposia presentations covering a variety of topics pertinent to both plant and animal sections
- 2 Education Symposia presentations beneficial to students and those in academia.
- 24 Animal Section Symposia presentations
- 36 Plant Section Symposia presentations
- 165 Volunteered presentations and posters across both animal and plant sections

This meeting sets the stage for the 2010 joint SIVB/IAPB meeting in Saint Louis. This meeting has the promise of another successful venue when the combined efforts of SIVB and IAPB come together. Another reason for attending is this meeting is in Saint Louis, the heart of the Bio Belt, and the ideal place to showcase the very best of In Vitro Animal and In Vitro Plant technologies!

**David D. Songstad, 2009 Program Chair**  
[david.d.songstad@monsanto.com](mailto:david.d.songstad@monsanto.com)

# Publications Report

Our publications continue to receive more submissions and better quality submissions for both *In Vitro Cellular and Developmental Biology - Animal* and *-Plant*. A special issue on biofuels was published last summer and an issue on *In Vitro* Applications for Conservation Biology is in progress. Editors J. Denry Sato and Dwight Tomes are working hard to insure the quality and timeliness of the journals. We are in the final stages of completing a new contract with Springer to continue publishing our journals for the next 6 years. All members should have online access to their subscriptions as well as access to online submission for their manuscripts. We greatly appreciate the tireless service of the Editors, the many associate editors, reviewing editors, and reviewers for the manuscripts submitted to our journals. Without your excellent volunteer efforts the peer review process would be impossible for the SIVB to complete. I encourage all SIVB members to submit your research to our journals, cite pertinent IV-P or IV-A articles in your own manuscripts, and recommend the journals to your colleagues.

Providing access to scientific literature is too expensive for many libraries and universities in developing countries. To overcome the gap in access to current scientific knowledge, the United Nations and many academic publishers, including Springer, organized to provide digital publications in the sciences to developing countries. Access to Global Online Research in Agriculture (AGORA) includes over 1200 journals including both *In Vitro Cellular and Developmental Biology - Animal* and *-Plant* and is available to libraries and universities of 107 countries. The Health Inter Network Access to Research Initiative (HINARI) involves over 2000 journals, including *In Vitro - Animal*, and is available to over 60 countries. We are pleased to be included in these initiatives and see our members' research more widely disseminated throughout the world.

## In Vitro - Animal Report

(For the year 3/1/09 through 2/28/10)

The journal experienced a slight increase (6.5%) in total submissions of new manuscripts over the comparable period last year (165 compared to 155 in 2008-2009) and a 43.5% increase in submissions in the past two years. The numbers of submitted manuscripts for the past year compared to the prior year were: 120 regular papers (115 in 2008-2009), 39 Reports (32 in 2008-2009), 3 Reviews (4 in 2008-2009), 3 opinion Letters-to-the-Editor (4 in 2008-2009), and no book reviews (0 in 2008-2009). Of the 165 submissions, 86 (52.1%) were accepted (57.3% acceptance rate), 63 (38.2%) were rejected, 1 (0.6%) was withdrawn, and 15 (9.1%) were still in review or revision.

In addition to the USA, 33 countries were represented in the submissions received in 2009/2010. Average time from receipt to first decision in the review process was 7.76 weeks compared to 6.87 weeks overall last year. All new submissions were received through the online system.

The *In Vitro - Animal* journal published 10 issues combined in 7 mailings. The journal is continuing to publish on schedule. The 2008 impact factor for IVA was 0.576.

The continued increase in submitted manuscripts is encouraging and likely results from the marketing efforts of Springer, which publishes the *In Vitro* journals. A significant proportion of submissions came from outside the US so there is an awareness of and a market for *In Vitro - Animal* beyond the US research community.

*In Vitro - Animal* continues to publish papers in traditional areas such as cell line derivation and toxicology, but we are also receiving increasing numbers of submissions in the areas of adult and embryonic stem cell biology,

tissue engineering, cell signaling, and methods development for cell line characterization. In 2009 in collaboration with the International Stem Cell Initiative, an international consortium of stem cell researchers, we solicited manuscripts characterizing new human embryonic stem cell lines. A special issue of *In Vitro - Animal* entitled "Novel human embryonic stem cell lines and related resources" containing 30 papers will be published as the March/April issue of 2010.

## In Vitro - Plant Report

The journal has made major progress in the past year for several of our longer term objectives. *In Vitro Cellular and Developmental Biology - Plant* is published by our able colleagues at Springer on behalf of the SIVB and in association with the IAPB. This is my second year as the Editor in Chief. I've enjoyed working with Dr. Nigel Taylor who is the main Editor of the two IAPB issues and with Dr. Prakash Lakshmanan, Reviews Editor and Guest Editor, Dr. David Songstad. The number of review manuscripts increased substantially with the publication of a special issue (Volume 45-3) devoted to biofuels edited by Drs. Lakshmanan and Songstad. These collected manuscripts (15 in total) are in press for a book published by Springer, entitled "Biofuels: Global Impact on renewable energy, production agriculture, and technological advancements".

The four *In Vitro - Plant* issues and two IAPB issues consisted of 86 and 22 manuscripts respectively. This is an increase of 15 manuscripts compared to 2008. Updated instructions for authors which include an updated publication matrix was approved by the publication committee and will appear in the journal in Volume 46. The publication matrix describes the minimum content standards for the eight sub-disciplines represented in journal. Manuscript acceptance continues to be stringent (~25%) which emphasizes the high standards being set by the editorial boards of both journals. The impact factor of 0.503 is about *continued*



The Canadian Council on Animal Care was one of SIVB's new exhibitors in 2009



The 2009 Low Country Silent Auction was a big success



the same as the previous two years. We're confident that our continued emphasis on high quality contributed manuscripts and timely and topical reviews in targeted subject matter areas will find favor with the scientific community.

## In Vitro Report

The *In Vitro Report* is the quarterly newsletter for the membership of the Society for In Vitro Biology which is published on the Society's website ([www.sivb.org](http://www.sivb.org)). The co-editors are Michael Fay and Carol Stiff who represent the In Vitro Animal Cell Sciences (IVACS) and Plant Biotechnology sections, respectively. The co-editors work closely with the Publications Manager, Michele Schultz, to facilitate the editorial and publication process. A major focus of the *In Vitro Report* is to promote the Society's journals by publishing editor-selected Journal Highlights from *In Vitro Cellular and Developmental Biology – Animal* and *In Vitro Cellular and Developmental Biology – Plant*. Additional content includes: The SIVB President's Report; ExPlants; SciNews; Research and Education News; Updates on the SIVB annual meeting; New Members Welcome; and articles highlighting the award winners from the annual meeting. An ongoing goal of the *In Vitro Report* is to provide information on career and professional development for the student members of the Society, and a recent addition towards this goal is a new feature that highlights the career paths of members. A future goal for the *In Vitro Report* is to include more information about available workshops and funding opportunities related to in vitro research.

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## Public Policy

The Public Policy Committee is a standing committee of the Society and is designed to aid its members and the general public to obtain a more informed understanding of in vitro biology and its research process and progress. The Committee is charged to aid the Board of the SIVB in their dealings with members of Congress and other governmental officials for the purpose of giving advice on funding priorities and other relevant matters. With the assistance of other associations the Public Policy Committee's goal is to actively educate its members about current issues affecting the scientific community and society as a whole. To assist the Society in this mission it is currently a member of the following associations that work

with legislators to effect national and international scientific policy: AIBS, American Institute of Biological Sciences provides a variety of public policy services for their members and the biological community at large; CAST, Council for Agricultural Science and Technology assembles and communicates science-based information regionally, nationally, and internationally on fiber, food, natural and agricultural resources and environmental issues to its members including legislators,

media, regulators, policy makers, private sector, and the general public; AAAS, America Association for the Advancement of Science examines science-related questions of concern to world citizens and their governments including human rights and ecosystem protection, federal spending, ethics, and equity; IFER, International Foundation for Ethical Research is a non-profit group that is dedicated to finding non-animal alternatives for scientific research. Mary Ann Lila is now the society's CAST representative as Dave Songstad was elected to serve on the Executive Board of CAST. In 2007 we also joined COPUS, the Coalition on the Public Understanding of Science.

This year Public Policy had a number of actions that were prepared and submitted to USDA Animal and Plant Health Inspection Service (APHIS) supporting the safe release of glyphosate tolerant (Round-up) alfalfa, to EPA regarding release of virus-resistant plum, and to the EU on the release of a genetically modified potato variety, Amflora. Dr. Guy Smaggha, a Belgian citizen, aided the committee in submitting the EU response. Thanks to Wayne Parrot



*SIVB Members spend a moment in the garden of the Magnolia Plantation*



*Attendees find quiet moments during the meeting to get to learn about each other's work*

for his help in identifying and then helping to draft responses for submission to both US and EU agencies. Public Policy also requested a Broadcast email sent to Plant Section members appealing for their support of a Peruvian scientist who was prosecuted and convicted for questioning the validity of a report on the presence of transgenes in Peruvian corn. At the 2009 annual meeting in Charleston, SC, Public Policy also held a well-attended workshop on Promoting Progress through Public and Media Interactions.

Public Policy continued to support action on the issue of cell line cross-contamination. We applaud the SIVB Board of Directors for continuing to support efforts to control this challenge within the cell culture community. The Editors of an increasing number of journals including SIVB's own *In Vitro Cellular and Developmental Biology – Animal*, now require a statement be included in publications as to the validation status of the cell line(s) used in their submitted research manuscripts.

Public Policy added a new student member, Patrick Arsenault from Worcester Polytechnic Institute, to the committee.

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# REPRESENTATIVES OF THE SIVB

## American Type Culture Collection

The issues of misidentification and cross-contamination of cell lines remains a major concern for the Cell Biology Program and the larger scientific community. The Cell Biology Program employs several protocols including STR analysis, COI analysis, microbial detection (Mycoplasma, bacteria, fungi, and virus) to ensure that the distributed cell lines are authenticated and remains vigilant in monitoring cell lines to ensure that they are authenticated and, consequently, will provide reliable scientific data.

The Cell Biology Program continues to broadcast the benefits of authenticated cell lines and the serious consequences of misidentified cell lines. In 2009, ATCC sponsored several initiatives, including publications, interviews in scientific journals and the sponsorship of a Webinar on the risks of misidentified cell lines.

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*The Exhibition is a great opportunity for attendees to see the latest developments*

## International Association for Plant Biotechnology

Plans are being finalized for the 12th International Association for Plant Biotechnology World Congress. Dr. Roger Beachy, President of the Donald Danforth Plant Research Center, is the President of the IAPB for 2006-2010, and is spearheading this Congress, which will be held in St. Louis, Missouri at the America's Center from June 6-11, 2010. This event is being held in collaboration with the Society for In Vitro Biology's 2010 In Vitro Biology Meeting. Dr. Todd Jones, SIVB President, is a member of Scientific Program Committee which planned the sessions for the Congress. The University of Missouri-Columbia's conference office is the Congress organizer and has led discussions and contract negotiations with the America's Center for meeting space and hotel guest room allocation for all participants, both SIVB and IAPB. The program has been finalized and the congress website located at <http://www.iapb2010.org> includes information on the program, registration, abstract submission and more.

The IAPB has organized a number of exceptional plenary speakers to present during the congress. Speakers include: Indra Vasil, Mayor Francis Slay, Michael MacCracken, Robert Paarberg, Mary Ann Lila, Pascal Braun, Mark Howden, Jay Keasling, Peter Beyer, Steven Pueppke, Jeffrey Gordon, Eric Sachs, Richard

Flavell, Robb Fraley, Calestous Juma, and Roger N. Beachy. Additionally, there are extensive concurrent symposia with keynote speakers presenting research in all aspects of plant biotechnology.

The International Association for Plant Biotechnology (IAPB) was founded in 1963. The primary activities of the IAPB have been to organize international congresses of plant tissue culture and biotechnology every four years, and to publish a newsletter/journal for its membership. The IAPB is the oldest and the largest international professional organization to represent plant biotechnology. It has more than 2,500 members in over 80 countries. Each year, members receive two issues of the journal *In Vitro - Plant* that are organized by an international team of Editors. Only IAPB members can receive these two special issues each year. Membership also includes electronic access.

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*Members of the Plant Biotechnology Section enjoy the time to socialize*

**2011**  
**In Vitro Biology Meeting**

**Save the Date**  
**June 4 - 8, 2011**

**Raleigh, North Carolina**



**TREASURER'S SUMMARY REPORT**

**SOCIETY FOR IN VITRO BIOLOGY**

**STATEMENTS OF FINANCIAL POSITION  
DECEMBER 31, 2009 AND 2008**

**ASSETS**

	December 31, <u>2009</u>	December 31, <u>2008</u>
<b><u>Current Assets:</u></b>		
Cash	\$ 312,377	\$ 169,902
Accounts Receivable	27,696	36,159
Prepaid Expense	<u>29,450</u>	<u>49,521</u>
Total Current Assets	<u>369,523</u>	<u>255,582</u>
<b><u>Property and Equipment:</u></b>		
Furniture and Fixtures	161,657	161,657
Accumulated Depreciation	<u>(161,657)</u>	<u>(161,657)</u>
Total Property and Equipment	<u>-</u>	<u>-</u>
<b><u>Other Assets:</u></b>		
Investments	<u>-</u>	<u>91,449</u>
Total Other Assets	<u>-</u>	<u>91,449</u>
Total Assets	<u>\$ 369,523</u>	<u>\$ 347,031</u>

**LIABILITIES AND NET ASSETS**

<b><u>Current Liabilities:</u></b>		
Accounts Payable	\$ 1,909	\$ 4,562
Other Accrued Expenses	612	-
Deferred Dues and Subscriptions	<u>24,850</u>	<u>77,947</u>
Total Current Liabilities	<u>27,371</u>	<u>82,509</u>
<b><u>Long-Term Liabilities:</u></b>		
Deferred Dues - net of current	<u>574</u>	<u>1,198</u>
Total Long-Term Liabilities	<u>574</u>	<u>1,198</u>
Total Liabilities	<u>27,945</u>	<u>83,707</u>
<b><u>Net Assets:</u></b>		
Unrestricted	68,586	(12,164)
Temporarily restricted	<u>272,992</u>	<u>275,488</u>
Total Net Assets	<u>341,578</u>	<u>263,324</u>
Total Liabilities & Net Assets	<u>\$ 369,523</u>	<u>\$ 347,031</u>

## TREASURER'S SUMMARY REPORT

### SOCIETY FOR IN VITRO BIOLOGY

#### STATEMENTS OF ACTIVITIES FOR THE YEARS ENDED DECEMBER 31, 2009 AND 2008

	<u>Unrestricted</u>	<u>Temporarily Restricted</u>	<u>Total</u>	<u>December 31, 2008 Total</u>
<u>Revenue:</u>				
In Vitro-Animal	\$ 85,558	\$ -	\$ 85,558	\$ 61,199
In Vitro-Plant	56,741	-	56,741	42,452
Newsletter	11,519	-	11,519	9,688
Meetings	150,798	56,454	207,252	215,445
Administrative	73,349	-	73,349	59,493
Other income	730	-	730	673
	<u>378,695</u>	<u>56,454</u>	<u>435,149</u>	<u>388,950</u>
Total revenue				
<u>Program services:</u>				
In Vitro-Animal	7,880	-	7,880	8,861
In Vitro-Plant	11,171	-	11,171	12,082
Newsletter	218	-	218	586
Annual meeting	66,819	58,950	125,769	129,462
	<u>86,088</u>	<u>58,950</u>	<u>145,038</u>	<u>150,991</u>
Total program services				
<u>Supporting services:</u>				
Administrative	211,139	-	211,139	213,924
	<u>297,227</u>	<u>58,950</u>	<u>356,177</u>	<u>364,915</u>
Total expenses				
Change in net assets before unrealized gain/(loss) on investments	81,468	(2,496)	78,972	24,035
Unrealized gain/(loss) in fair value of investments	(718)	-	(718)	973
Change in Net Assets	80,750	(2,496)	78,254	25,008
Net assets, January 1	(12,164)	275,488	263,324	238,316
Net assets, December 31	\$ <u>68,586</u>	\$ <u>272,992</u>	\$ <u>341,578</u>	\$ <u>263,324</u>