In preparing my thoughts for my first President’s Report, I can’t help but reflect upon where we have come from in the recent past and how this society embraces change. Rolling back time to ten years ago, our society was in dire straits primarily due to a downward financial outlook with a spend rate far exceeding the revenue stream. Tough decisions were required and the SIVB had to change how it conducted business. This involved cutting non-critical expenses from the society’s budget. I was on the board as Vice President during this time and I can tell you these were trying times for all involved with the SIVB. It was also a time of realization that we had fewer attendees coming to our annual meeting and we needed to scale back to reflect this. At the same time, we needed to come up with new sources of revenue to help sustain the SIVB. Much of this landed at the feet of the Development Committee with the charge to solicit contributions from corporate stakeholders and write/submit competitive grants to help cover costs of innovative programs such as the Free Student Registration effort. These efforts were valuable but not enough to truly “turn the corner” regarding the SIVB financial status. The big change in SIVB finances occurred when Mike Horn brought to the SIVB board a proposal that Springer become the new publisher of In Vitro - Plant and In Vitro - Animal. Prior to this, SIVB used two different publishers for the two journals. Not only did Mike’s proposal streamline the process by having one publisher vs two, it also resulted in an annual revenue stream from Springer based on the sales of the journal to libraries in academia, government and the private sector. The move to Springer is where this society did “turn the corner” with regards to its finances.

There is an inner strength and confidence that comes by persevering through adversity and hardship. We have this inner strength and confidence within the SIVB. Now the challenge is to wisely harness this energy because the next challenge is just around the corner and it is in the form of declining membership. Channeling this strength and confidence towards reversing the tide of declining membership is our next opportunity to improve the SIVB.

Yes, the good news is that the SIVB is on very solid financial ground and our future as an organization is very promising. However, the SIVB is not a financial balance sheet. The SIVB is composed of individuals. The SIVB consists of members like you and me. The reality is, no matter how impressive the balance sheet is, if we can’t put a face on the SIVB, we are no longer an organization. This is something that none of us within the SIVB want to see happen. So, I offer these ideas for you to consider where you personally can help reverse this trend toward declining membership.

- Many of us have sons and daughters that have decided to follow a science career path. If their area of research involves cell biology or cell culture in any way, “be the good parent” and sign them up for membership in the SIVB. I will be doing this for my daughter who is using cell culture to study neuro-opthalmology. I can’t think of a better birthday gift!
- Become an SIVB mentor for a student at our annual meeting. It’s easy to do, just ask Marietta to connect you with a student and the two of you find a time to visit. Make sure you tell the student not just why you became a member of the SIVB but why you continue to renew your membership and stay involved with this society. Sharing the personal aspect is good.
- Get involved with the Membership Committee. Bring new ideas to the table at the committee meeting.

This past year has been a pleasure serving you and the SIVB as your President. I look forward to my final year as President and want to finish this race strong.

David Songstad, SIVB President
dsongstad@cibusllc.com
Report

Secretary's Report

As I complete my first year as Secretary for the Society, I am amazed and pleased by the group dynamic that is the SIVB Board. They are great group of individuals that come together and work as a team from a variety of backgrounds for the greater good of the Society of In Vitro Biology. It has been a challenge keeping up with all the members and learning how to keep track of their discussions and ideas for the society. I appreciate their patience as I get accustomed to my new role. I would especially like to thank Marietta Wheaton Ellis, for her guidance and patience, keeping me on track and making sure I haven’t missed any action items or important discussions. It is my job to make sure that the business of the SIVB is recorded and that actions are documented so that the society knows what has been done and what needs to be done to insure that we are here for many more years.

All meeting minutes are available on the website for the members of SIVB.

Lia H. Campbell, Secretary
lcampbell@celltissuesystems.com

Treasurer’s Report

I wish to thank all the members of the SIVB who as Officers, Board Members, Committee Chairs, members of the various committees, fundraisers - the list goes on and on - and of course the New Beginnings Management staff, again helped to make it possible for me to report completion of yet another positive financial year for the Society. We concluded 2012 with unrestricted net assets of $309,234 and total net assets which were $65,902 greater than the 2011 total. This success was achieved in spite of having held the 2012 World Congress in Bellevue, WA, a much less cost effective venue when compared with the prior year’s meeting in Raleigh. As to our investment program, the relationship with our advisor Matt Topper of Morgan Stanley Smith Barney has continued to be very fruitful. Although conservative, our strategy has resulted in a strong positive return on investment and we are confident that those investments best meeting our needs and goals have been selected and are carefully monitored throughout the year.

However, as good as the picture looks at the moment, we cannot afford to sit back and admire our accomplishments. In order to grow as a society, greater focus must be upon increasing membership, publications and annual meeting participation. It is imperative that we continue to work together, seek new opportunities and build on our strengths.

Barbara B. Doonan, Treasurer
doonanbarbara@yahoo.com

The Opening Ceremony is a great place to reconnect with colleagues and make new friends.
The Business Office activities focused on the 2012 World Congress on In Vitro Biology Meeting, 2013 and 2014 Meeting preparations, publications, and membership.

2012 World Congress on In Vitro Biology

The 2012 World Congress on In Vitro Biology was held in Bellevue, Washington from June 3–7, 2012 at the Hyatt Regency Bellevue on Seattle’s Eastside. The World Congress is an international event held once every 4 years focusing on the science, novel technologies and advances of in vitro biology for both plants and animals. The meeting highlighted a Keynote presentation by Dr. Leroy Hood, President and Co-founder of the Institute for Systems Biology. He spoke on a “Systems Approaches to Disease and the Emergence of Proactive P4 Medicine.” After the Keynote presentation, the 2012 Lifetime Achievement Awards were presented to Niels C. Bols, PhD and Wallace L. McKeehan, PhD in honor of their years of exemplary research. Also during the Opening Ceremony, outgoing President, William J. Smith, PhD, presented Distinguished Service Awards to Dannette Connor-Ward; Tetsuji Okamoto, PhD, DDS, and Peggy Ozias-Akins, PhD.

Special events held at meeting included an Evening at the Chateau Ste. Michelle, a tour of the Institute for Systems Biology and Fred Hutchinson Cancer Center, a tour of the Pacific Rim Bonsai Collections and the Rhododendron Species Botanical Garden, and the Puget Sound Silent Auction.

At the 2012 World Congress on In Vitro Biology, the attendance reached 385. There were 154 members, 30 non-members, 24 post docs, 73 student, 9 one-day, 2 emeritus, 1 Opening Ceremony, 3 guests, 11 volunteer and 53 speaker registrants. Also, there were 4 staff registrants and 13 Exhibitors with 21 staff members in attendance.

The Business Office and Local Organizing Committee worked with the Washington Biotechnology Association to bring additional awareness of the event to the local scientists in the Seattle and other biotech regions in the state. With the Program Committee, the Business Office assisted in the preparation of a grant with the USDA Biotech Risk Assessment Program to support speaker travel expenses and the Student Initiative for students who attended the 2012 World Congress on In Vitro Biology. They also worked with those who had prepared the previous NSF grants to clarify the distribution of funds previously provided to the SIVB.

While the meeting was a success, it was not as financially successful as 2011, as the location and venue for the 2012 Congress was more expensive. The Business Office is working with the board to focus on finding appropriate venues to create future meetings that are as successful as possible.

The Business Office offers a special thank you to the volunteers who offered their assistance during the 2012 World Congress on In Vitro Biology, many of them working hours beyond what was required. We greatly appreciate all of their efforts on behalf of the SIVB.

2013 In Vitro Biology Meeting

The upcoming 2013 In Vitro Biology Meeting will be held at the Rhode Island Convention Center with a block of rooms being held for meeting attendees at the Omni Providence. Providence is known as the Creative Capital and combines the accessibility and friendliness of a small town with the culture and sophistication of a big city. Only a 50-minute drive from Boston and three-hour drive from New York City, this thriving arts community includes vibrant and diverse neighborhoods, outstanding hotels, a renowned restaurant scene and so much more. Nearby Warwick offers bountiful shopping and 39 miles of coastline, while the scenic beauty and rich history of Rhode Island’s other regions are a quick drive away. Historic and hip, sophisticated and small-town, Providence packs the best of New England into one convenient and colorful package.

The 2013 In Vitro Biology Meeting will highlight a keynote presentation by Distinguished Professor of Cell & Developmental Biology, University of California San Diego, Dr. Steve Briggs. He will be presenting a talk on “Protein Networks from an Atlas of Proteotypes.” There will also be presentations of the Lifetime Achievement Awards during the meeting to Paul J. Price, PhD and William J. Smith, PhD. Lisa Lee, PhD will receive the SIVB Fellow Award and the Young Scientist Award will be presented to both Addy Alt-Holland, PhD and Sadanand Dhekney, PhD. During Monday night’s Joint Sections Social, there will be a tribute to SIVB member Michael Horn who passed away last year. In addition, there will be student awards, student competitions and more presented at the meeting.

The 2013 Creative Capital Silent Auction will begin during the Welcome Reception on Saturday, June 15 and will end on Tuesday morning, June 18, 2013. Additionally, attendees will be invited to enjoy a host of special activities including: an afternoon
tour of the MA Biomanufacturing Education Center; a special evening clambake on Tuesday, June 18 at Squantum Association; and an afternoon tour on Wednesday, June 19 of the Woods Hole Oceanographic Institution and Marine Biological Laboratory.

This year SIVB will also be holding an Advanced Tissue Culture Workshop on Saturday, June 15 from 8:00 am – 12:15 pm. The aim of this course, entitled “Best Practices in Plant and Animal Cell Cultures” is to acquaint participants with best practices in plant and animal cell culture techniques. The course is modular providing concurrent presentations for the plant and animal cell culture components. Speakers will cover the basics in cell culture. Separate registration is required and course credit will be available.

The Student Initiative Program continues to grow with the offer of free student membership including online access to the journals for all students who register and attend the prior year’s SIVB Annual Meeting. The Student Committee is organizing symposia and workshops during the 2013 annual meeting to encourage growth and participation of its student members, both graduate and undergrad. In 2013, both sections will offer Oral Presentation Competitions. The IVACS section will hold a joint Post Doc/Student competition and the PBS section will present separate Student and Post Doc Oral Presentation competitions. We also offer the Sponsor-a-Buddy program where for only $25, SIVB Members and attendees of the SIVB Annual Meeting can help support a student “buddy.” Contributions will support the Student Initiative for the meeting. Contributors to the Sponsor-a-Buddy-program will be acknowledged at the 2013 In Vitro Biology Meeting.

2014 World Forum on Biology, Joint Meeting of the Society for In Vitro Biology and the Society for Cryobiology

In 2012, the Business Office worked with the SIVB Board of Directors and the Society for Cryobiology Officers to finalize a memorandum of understanding between the two organizations for holding a joint meeting during SIVB’s Annual Meeting in 2014. This meeting, entitled “World Forum on Biology” will be held in Savannah, Georgia from May 31 – June 4, 2014 at the Hyatt Regency Savannah. The Society for Cryobiology has noted that it is their intention to have their portion of the meeting match the overall format of the SIVB’s program as seamlessly as possible. SIVB is very excited about this joint venture and will have more information available at the 2013 In Vitro Biology Meeting.

Membership

Membership numbers decreased slightly this year, which is due in part to decreased attendance at the 2012 World Congress as compared to the 2011 meeting held in Raleigh. Membership numbers dropped 2.85% for regular membership and 11.9% for overall membership.

Membership initiatives included the extension of the Member-get-a-Member campaign as well as a special drawing for members who renewed by December 31st. The winners of the 2012 “renew before December 31” contest were drawn during the 2012 SIVB Business meeting and were: 3rd place, John Griffis, who won a $50 Gift card; second place, Robert Nardone, who won 1 free year of SIVB membership; and first place, Cindy Goodman, who won a Kindle Fire. The 2013 contest winners will be drawn during the 2013 Business Meeting and prizes include a gift card, year of membership with SIVB, and a new Kindle HD Fire.

The Business Office worked with a very active Membership Committee in 2012. A one-page flyer was designed by the committee and disseminated to the membership by broadcast email to advertise the 2013 In Vitro Biology Meeting. The broadcast email also included a link to the flyer that was housed on the SIVB website for tracking. The Committee has also reviewed the 2005 Student Survey as well as other previous membership campaigns to determine a plan of action to expand our current membership.

SIVB has continued to explore the world of Social Marketing and looked for ways to expand our reach to share the Society’s message even more in 2012. We continue to have Facebook and LinkedIn pages and just recently established a Twitter account. If you haven’t friended us on Facebook or started following us on Twitter (#SIVBiology), please do. We provide timely reminders about upcoming deadlines and other member benefits throughout the year.

SIVB’s Career Center site allows SIVB members to post resumes at no cost. In addition, employers who are SIVB members receive free or significantly discounted services to post jobs or purchase resumes from the bank. These job listings are also linked to our Facebook page providing higher visibility for your positions. Don’t forget to check it out under Employment on the SIVB web site.

Did you want to make a donation to the SIVB or the various available funds to support students and Post Docs? Visit www.sivb.org and click on the “Donation” button. The funds we offer to support our students can only continue to be offered with your support.
The Business Office also began working with the SIVB Ad Hoc Website Committee to discuss updating the SIVB Website. The process is beginning and it is hoped that SIVB will start to have a new look online as soon as possible!

Publications

The Business Office’s Publications Department’s continued to support the SIVB’s print and online publications.

To encourage the integrity and quality in submissions, SIVB has added a checklist of requirements that each author must acknowledge prior to submitting their work. The Business Office worked with the Publications Committee and the Board in instituting these new requirements. The Editors also continue to follow COPE (Committee on Publication Ethics) policies to address any issues about duplication of data or potential plagiarism should it arise in the submissions received. Finally, to encourage submissions, the Publications Committee gathered a list of names of scientific writers/editors that the Editors-in-Chief can provide to authors who have language problems with English in preparing their manuscripts.

The Business Office also worked with the Publications Committee to update and disseminate a survey about the usage habits of our members with the SIVB journals. SIVB Members are still actively reading their hard copy journals on a pretty regular basis and it was agreed that, for the time being, SIVB would continue to offer both print and online access to the journals for our members.

*In Vitro - Animal* continued to show steady growth in 2012 with the yearly number of submissions rising along with a significantly higher impact factor. Editor-in-Chief, Tetsuji Okamoto continues to encourage active participation from the Associate Editors and members of the Society to publish in our journal.

*In Vitro – Plant* Editor-in-Chief, John Finer completed a successful year by moving the back log of accepted papers through to publication early in 2012. The journal also received a significant jump in its impact factor. Submissions continued to be heavy; however, there was a slight backlog in processing submitted manuscripts. This is currently being addressed by the Editor-in-Chief and Associate Editors and manuscript paper flow is beginning to move forward once again.

The *In Vitro Report* has made some changes to encourage the inclusive goals of the organization. Each issue of the publication now contains Member Profiles featuring in-depth bios from some of our members. In addition, the SciNews and Explants articles are being published together as Member News and prior to each issue’s publication, the editors are actively soliciting news from our individual members. While the newsletter continues to publish content of interest to our members, it requires your support to make the issue as relevant and timely as possible. Members are encouraged to forward their news and information to either of the Co-Editors-in-Chief. Information for submission can also be forwarded to sivb@sivb.org.

The *In Vitro* journals are still receiving income through SIVB’s previous arrangement with BioOne and its continuing agreement with JSTOR. This income becomes part of the overall revenue stream for each respective journal published with Springer. The last year SIVB will receive funds from BioOne for our past participation will be in 2014 for the 2013 activity. Our participation in JSTOR will continue at that time.
The 2012 Society for In Vitro Biology’s World Congress took place on June 3 – 7, 2012 in Bellevue, Washington. The IVACS annual business was conducted on Tuesday June 5th from 6:00pm – 7:30pm. The business meeting started with the recognition of IVACS members who have made outstanding contributions to the Society through their leadership and service. The following individuals were recognized:

- William Smith — SIVB President
- Lucy Lee and Liz Roemer — SIVB Board of Directors
- Michael J. Fay — IVACS Section Chair
- Cynthia Goodman — IVACS Secretary
- Brad Upham — Vice Chair-Program
- Yvonne Reid — Vice Chair-Membership
- Tetsuji Okamoto — Editor-in-Chief of In Vitro Cellular & Developmental Biology-Animal

We also recognized and thanked John Harbell and all of the IVACS members who helped to raise funds for the 2012 SIVB Meeting as well as all of his past fund raising efforts. We thanked the following sponsors for their generous financial support of the 2012 SIVB World Congress on In Vitro Biology:

- BASF Corporation
- Gale & Robert Lawrence Foundation
- Japanese Society of Alternatives to Animal Experiments (JSAAE)
- Japanese Tissue Culture Association (JTCA)
- Johnson & Johnson
- Thermo Fisher Scientific/Cellomics
- University of Waterloo

The 2012 SIVB World Congress was a success at many levels. The overall theme of the IVACS/joint plenary sessions was “Translational Biology in the 21st Century, the Essential Need of In Vitro Systems”. Attendance at the sessions was excellent and each session generated many enthusiastic questions and discussions. This meeting clearly afforded our participants from around the world opportunities to learn from a myriad of experts about the latest scientific achievements in the development and use of advanced in vitro cell systems in human health. Participants were able to meet with other scientists including leaders in their respective disciplines as well as networking with friends and colleagues from around the world in a very friendly setting. The success of this meeting was a result of the dedication and hard work of the Program Chair, Fredy Altpeter, Program Co-Chair, Denry Sato, and Co-Chair of the animal program, Brad Upham, and the entire Program Planning Committee who all convened sessions as indicated below.

The joint plenary sessions with the plant section and conveners were:

- Applications of nanotechnology in “in vitro” biology (nanobiology) (Kan Wang & Brad Upham);
- Non-human viruses in biomedical research (Stephanie DeWitte-Orr & Cynthia Goodman);
- Nutraceuticals in the 21st century: identification, production, and demonstration of efficacy and safety (Mary Ann Lila & John Harbell);
- Omics technologies in the dissection of biological processes (Patrick McNutt & A. Pereira);

In addition, we had a roundtable discussion for the students on “How to submit grant proposals” with panelists Michael Fay, Harold Trick, Pamela Weathers, and Brad Upham.

The IVACS sessions and conveners were:

- In vitro systems to study obesity and metabolic diseases (Thomas Flynn & Magnolia Ariza-Nieto);
- Identifying environmental endocrine disruptors: Do in vitro models predict relevance? (Eugene Elmore & Lyle Burgoon);
- Advanced 3-D tissue culture systems (Addy Alt-Holland, Michael Dame & Brad Upham);
- Gene knockdown and gene knockout (Michael Fay & Paul Price);
- Carcinogenesis: the need for advanced mechanistic in vitro systems (Brad Upham, Michael Dame & Addy Alt-Holland);
- In vitro tools for human cancer research (Addy Alt-Holland);
- Regulatory acceptance of alternative carcinogenicity tests (Hajime Kojima);
- New therapeutic approaches to cancer from in vitro studies (Miho Furue and Ken Kataoka).

In addition to these conveners, the following were also on the program committee: Vanita Daniel, Lucy Lee, Jessica Rupp, and Guy Smagge.

Students were an integral part of the 2012 World Congress. At the 2012 Student and Postdoctoral Oral Presentation Competition, Breanne Cuddington, McMaster University, was awarded first place for her presentation titled “Characterization of Bovine Herpesvirus Type 1 as a Novel Oncolytic Virus”; second place was awarded to Taylor Lavallie, Midwestern University, for her presentation titled “Evaluation of Aurora kinase B as a Potential Therapeutic Target for Human Liposarcoma”; and third place was awarded to Deborah Esposito, Plants for Human Health Institute, NC State for her presentation titled “Homobrassinolide Enhances Myogenic Potential of Satellite Muscle Cells”. SIVB Student Awards were awarded as follows: Wilton R. Earle and Student Travel Awards to Sumiyo Mimura, National Institute of Biomedical Innovation; Honor B. Fell and Student Travel Awards to Jeff Kwak, Midwestern University; Cellular Toxicology
Award to Nguyen Vo, University of Waterloo; and Joseph F. Morgan and Student Travel Award to Breanne Cuddington, McMaster University. The Education and Student Committees also organized the following sessions: “How to submit a grant proposal” and the “Student networking luncheon”.

At the 2012 Opening Ceremonies, SIVB Outgoing President, William Smith, presented Distinguished Service Awards to several IVACS Members. Elizabeth J. Roemer, Lucy EJ Lee, Guy Smagghe, and John Harbell received Distinguished Service Awards for their outstanding contributions to SIVB. In addition, Tetsuji Okamoto from Hiroshima University was presented with the SIVB Fellow Award in honor of his contributions to both SIVB and the scientific community. Lastly, there were two IVACS members presented with SIVB’s highest honor, the Lifetime Achievement Award. Both Niels C. Bols of the University of Waterloo and Wallace L. McKeehan from Texas A&M University System Health Science Center received this award, which acknowledges scientists who are considered pioneers or are highly influential researchers to the science and art of cell culture. They are men and women who have devoted their careers to exemplary research and teaching.

While the finances for the IVACS section have improved in recent years, the issue of declining membership continues to be a major issue facing our section. As members of IVACS, we all need to be active in the recruitment of new members. Encourage your colleagues to become active members of SIVB and to participate in our annual meetings. Remember that the Society also has several incentives to encourage the recruitment of new SIVB members. The long term success of any scientific organizations particularly requires the recruitment of young scientists. Last year we have successfully recruited the following graduate students: Shaneen Baxter, Geulah Sara Ben-David, Catherine Anne Blebea, Eliane T. Bodah, Dongliang Chen, Whitney Crosson, Breanne Cuddington, Robert Curry, Vinita C. K. Daniel, Melissa Filile, Anna de la Fuente, Dina Golfeiz, Christopher A. Hendrickson, Miranda Jarrett, Blake Lee Joyce, Jeff Kwak, Taylor Erin LaVallie, Michael L. Lloyd, Emma R. McConnel, Maxwell Joseph Mianecki, Sumiyo Mimura, Yuichi Mine, Brandon K. Pfeffer, Christine E. Provost, Katelin Spiteri, Maria Stupnikov, Adam Michael Swartz, Venkata Arun Timmaraju, Nguyen T. K. Vo, Sachiko Yamasaki, Mazyar Yazdani, Yanqiong Zhang, and the following postdoctoral students: Stephanie D Boomkamp, Yan Jiang, Kyung-Hee Kim, Muruganantham Mookkan, Richelle Monaghan, Soumen Nandy, Zoë Prytherch, Sugae Wada. This was truly a very positive step for IVACS, so let’s continue this effort and be sure to welcome them at our next meeting. I also strongly encourage all of you to reach out to these new members and get them involved in our activities. Addy Alt-Holland, Co-chair, IVACS Program, has recruited some of our student members to help moderate sessions with the help of an experienced mentor for our 2013 meeting in Providence. I encourage all of us to follow in Addy’s footsteps.

The following have all been working hard to organize an outstanding meeting for the 2013 National SIVB meeting in Providence, RI on June 15-19, 2013: J. Denry Sato (Annual Meeting Program Chair), T. Michael Spencer (Co-chair, IVACS Program), and the Program Planning Committee: Fredy Altpeter, Michael K. Dame, Vinita C. K. Daniel, Barbara B. Doonan, Eugene Elmore, John W. Harbell, Todd J. Jones, Theodore M. Klein, Jeff Kwak, Lucy E. J. Lee, Sylvia A. Mitchell, Kerri Neugebauer, Valerie C. Pence, Elizabeth J. Roemer, Jessica L. Rupp, Sukhpreet Sandhu, Sydney Shaw, Guy Smagghe, David D. Songstad, Harold N. Trick, Brad L. Upham, Zeng-Yu Wang, and Pamela J. Weathers, and the Local Organizing Committee: Barbara B. Doonan, Liwen Fei, Addy Alt-Holland, Robert H. Lawrence, Jr., Elizabeth J. Roemer, J. Denry Sato, Sydney Shaw, T. Michael Spencer, and Pamela J. Weathers. We look forward to seeing a strong participation by the IVACS Section at the 2013 meeting, and having a great time together. Again, please bring your students.

The success of the IVACS Section and the SIVB is due to the dedication and hard work of our membership and our Business Office at New Beginnings Management, Inc. Thanks to you all in the IVACS and Plant Biotechnology sections who have contributed to our success, and thank you to Marietta Wheaton Ellis (Managing Director), Michele Schultz (Publications Manager) and the entire staff of New Beginnings Management, Inc. for their dedicated service to the SIVB.

Brad L. Upham, In Vitro Animal Cell Sciences Section Chair upham@msu.edu

Winners of the IVACS Student and Post Doctoral Oral Presentation Competition were:
Deboara Esposito, Taylor Lavaille and Breanne Cuddington.
The 2012 SIVB World Congress was held from June 3-7 at the Hyatt Regency in Bellevue, Washington. Once again, the Plant Program Committee Members did an excellent job putting on a high-caliber, diverse program together. I would personally like to thank and acknowledge Vibha Srivastava (2012 PBS Chair), Jim Thomson (Sr. Co-chair), Zeng-Yu Wang (Jr. Co-chair) and the rest of the program committee for their hard work.

Recapping the program, the plenary session included: Applications of nanotechnology in “in vitro” biology (nanobiology); Nutraceuticals in the 21st century: identification, production, and demonstration of efficacy and safety; Omics technologies in the dissection of biological processes; and Commercialization of GMOs: IP-risk assessment and regulation. There were a total of 17 plant symposia, contributed papers, interactive poster sessions and workshops highlighting diverse areas of research.

Overall the Plant Biotechnology Section had 165 abstracts for the World Congress: 71 general abstract submission; 42 invited speakers; and 52 student abstracts. The total number of registrants of the World Congress was approximately 385 with 258 of the participants choosing Plant Biotechnology as their primary interest. Approximately 20% of the attendees were international. USDA Biotech Risk Assessment Program Grant (submitted by Zeng-Yu Wang) was received and raised $16,025.71 to support speaker expenses and the Student Initiative.

The student and postdoc oral competitions continue to be a great success. Sukhpreet Sandhu and Jeff Adelberg coordinated the competitions, respectively and over 51 abstracts were reviewed. For the student competition the judges were Dr. Todd Jones, Dr. Jyoti Rout, and Dr. Sylvia Mitchell. Five abstracts were selected for the competition and the winners for the student competition were Sydney Shaw (Penn State University) for 1st place and there was a tie for 2nd between Micah Stevens (Purdue) and Sukalya Poothong (Oregon State University). For the Postdoctoral competitions the judges were Dr. Nancy Reichert, Dr. C. S. Prakash Kumar, and Dr. John Finer. Out of the five competitors 1st place went to Sherif Sherif (University of Guelph), 2nd place went to Meredith Cook (USDA-ARS-WRRC in Albany, CA), and M. Aydin Akbudak (University of Arkansas) took 3rd place. Awards were donated by BASF Plant Science.

The student awards committee was chaired by Pam Weathers. The committee selected the following PBS awardees: the John S. Song Award, Liwen Fei (Worcester Polytechnic Institute); the Phillip White Memorial Award, Eleanor Vesty, (University of Birmingham, UK); and the Hope E. Hoppes Award, Elizabeth Mayers (University of Florida). The SIVB Travel awards went to: Carlos Hernandez-Garcia (Ohio State), Elizabeth Mayers, and Dinum Perera (Mississippi State). Congratulations to all our recipients!

We also have two new Fellow recipients in our section. The Fellow Award recognizes current members of the SIVB who have been active members for at least 10 years. Fellow awards were presented to PBS members Dannette Connor-Ward and Peggy J. Ozias-Akins at the 2012 World Congress for their outstanding contributions.
Fundraising continues to be a challenge and we appreciate the hard work of Jim Thompson, Fredy Altpeter and Valerie Pence for contacting potential donors. Total contributed to the PBS section for the 2012 Congress was $40,000. Contributors included Monsanto Company, Dow AgroSciences, Syngenta, The Scotts Miracle-Gro Company, ArborGen LLC, Bayer CropScience, BASF Plant Sciences, and Pioneer Hi-Bred International. In addition, a $16,025.71 grant was received from the USDA Biotech Risk Assessment Program Grant (submitted by Zeng-Yu Wang) as mentioned earlier.

In Vitro-Plant continues to improve with its impact factor growing 1.06 to 1.497 in 2012. John Finer, the Editor in Chief, has also initiated a fast track for submissions for SIVB members. We encourage members to submit their quality manuscripts to our journal and hopefully lead to the impact factor increasing higher.

I would like to thank and acknowledge the outgoing PBS officers (Fredy Altpeter, Chair; Valerie Pence, Co-chair; and Sylvia Mitchell, Secretary) for all of their leadership initiatives over the past two years and welcome the new officers (myself, Michael Spencer, Co-chair; and Valerie Pence, secretary).

As a reminder, elections for the 2014-2016 term will be this fall so please be thinking about your nominations. SIVB needs active members and this is a great time to become active in the society.

The 2013 meeting will be on June 15th -19th in Providence, RI and planning for the meeting is about complete. The PBS Program Chair, Zeng-Yu Wang, Sr. Co-Chair, Valerie Pence, and Jr. Co-Chair, Sukpreet Sandhu have been hard at work with the rest planning committee. Hope to see you there!

Harold N. Trick,
Plant Biotechnology Section Chair
hnt@ksu.edu

All members take time to review the research presented during the poster sessions.
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, Department of Molecular Oral Medicine and Maxillofacial Surgery, Graduate School of Biomedical Sciences, Hiroshima University, Japan; Jon Ryan, Consultant Wheaton; Yvonne Reid, American Type Culture Collection; J. Denry Sato, Mount Desert Island Biological Laboratory, and Just Vlak, Wageningen University Plantenwetenschappen.

The History Society and Records History Committee recognizes the 2012 Fellow Award for Dr. Tetsuji Okamoto, DDS, DPhil, Professor and Chairman of the Department of Molecular Oral Medicine and Maxillofacial Surgery, Graduate School of Biomedical Sciences, Hiroshima University, Japan and Executive Vice President of Hiroshima University. Professor Okamoto was nominated and supported for recognition of his seminal contributions to functional growth factors in human derived cell by colleagues at the National Institute of Biomedical Innovation; Yokohama City University, Department of Genome System Sciences; the Riken Cell Bank and Hiroshima University, Oral Biology & Engineering and Cellular & Molecular Biology. Professor Okamoto also serves as a Visiting Professor at Osaka University and Hokkaido University Schools of Dentistry, Japan; Sun Yat-sen University of Medical Sciences and Taipei Medical University, China; and Academic Consultant, Ministry of Education and Health, Republic Kazakhstan.

Dr. Okamoto received his doctoral degree in biochemistry from the Hiroshima University School of Dentistry where he studied the effects of intermediates in cholesterol biosynthesis on the differentiation of cultured epidermal keratinocytes with Professor K. I. Okuda. He continued this research as a postdoctoral fellow with Dr. Gordon H. Sato at the W. Alton Jones Cell Science Center in Lake Placid, NY, where he worked on growth factor purification and the cellular physiology of mammalian cells. These studies culminated in the clinical use of lymphokine-activated killer lymphocytes to treat oral cancers and the development of serum-free culture conditions for creating and propagating human-induced pluripotent stem cells.

An active member of the Society for In Vitro Biology (formerly the Tissue Culture Association) since 1985 and President of the Japanese Tissue Culture Association (2005–2008), Dr. Okamoto was instrumental in continuing the international scientific relationship and collaboration between the SIVB and JTCA that were established during the 1996 SIVB World Congress under the leadership of Professor Masatoshi Namba, MD,
PhD, President of Niimi College, Professor Emeritus of Okayama University, JTCA President (1996-2004). Dr. Okamoto has served the SIVB as a Congress Symposium convener/speaker and member of the Invertebrate and Cellular Toxicology Sections (now IVACS). In addition to numerous peer-reviewed scientific publications, Professor Okomoto has served as an author, reviewer, Associate Editor and, since 2011, as Editor-In-Chief of the *In Vitro Developmental Biology-Animal* Journal in maintaining and promoting international in vitro biology research contributions and emerging technology.

The scientific community was notified of the passing of the legendary neuroscientist hero, Academy of Science Member and Nobel laureate, Rita Levi Montalcini, MD, (April 22, 1909-December 30, 2012). In the 1950s, Dr. Levi-Montalcini, in collaboration with colleague biochemist Stanley Cohen, PhD, at Washington University in St. Louis developed an assay for purification of nerve growth factor (NGF), the prototypical growth factor, for which they shared the 1986 Nobel Prize in Physiology or Medicine.

The oldest living Nobel laureate at 103 years, Dr Levi-Montalcini overcame extreme odds surviving racial and sexual prejudice in contributing to science the development and function of the nervous system. NGF was the first class of neurotrophic molecules that Levi-Montalcini developed from experimental mouse sarcoma cells implanted into chick embryos, as the source of NGF in promoting rapid growth of sensory neurons in embryonic tissues.

Following completion of her medical degree at the University of Turin in the early 1940s where she began her research career with the legendary histologist Giuseppe Levi and fellow students and future Nobel laureates, Renato Dulbecco (February 22 1914-February 19, 2012) and Salvador Luria (August 13, 1912 -February 6, 1991), Levi-Montalcini, who was Jewish, fled to Florence and then Belgium. During these years, she continued to conduct research underground in her bedroom apartments modified as lab space and served as a medical doctor in camps for war refugees.

Following the war, after successfully escaping the fascists and German invasions, she moved to Washington University in St. Louis to collaborate with Viktor Hamburger and Stanley Cohen for the next 30 years until her 1977 retirement as full Professor of Neurobiology. In 1962, Dr. Levi–Montalcini divided her time between America and Italy, establishing a research unit in Rome and became Director for the Institute of Cell Biology of the Italian National Council of Research. After her retirement in 1979, she became Emeritus Professor of the Institute of Neurobiology. From 1989-1995, she continued to work at the Institute testing new hypothesis on the action of NGF. Her most recent experiment “Nerve growth factor regulated axial rotation during early stages of chick embryo development” was published in the January 2012 *Proc Natl Acad Sci USA* (106(6) 2009-2014. Dr. Levi-Montalcini’s last publication also made her the oldest member of the National Academy of Science to publish in PNAS.

The greatest contribution to the life of Rita Levi-Montalcini is the legacy she left with colleagues and collaborators that “she transferred her knowledge and enthusiasm to a cadre of talented young scientist who undoubtedly will continue to carry on her search for the biological functions of NGF.

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, History and Records Committee Chair
drsandra@stic.net
Awards

The Awards Committee, comprised of Maud Hinchee, Michael Fay, Fredy Altpeter, and Bill Smith, was pleased to receive multiple meritorious nominations for the Lifetime Achievement and Fellow Award. This year we received no nominations for the Young Scientist Award that recognizes professionals who have contributed significantly to advancement in in vitro sciences within ten years of completion of their terminal degree.

Lifetime Achievement Award

The Awards Committee selected the nominations of Dr. Niels C. Bols and Dr. Wallace L. McKeehan to receive the Lifetime Achievement Award, which recognizes and honors those who have achieved academic excellence and who have made significant contributions to the field of in vitro biology.

To receive the Lifetime Achievement Award, a candidate must have demonstrated significant contributions to their field of specialization with an expectation of continued contribution. In addition, their ability to demonstrate a positive impact on the development of young scientists is also considered. Dr. Niels Bols meets and exceeds these criteria. His laboratory is internationally renowned for his pioneering and sustained contributions to the establishment and research utilization of cell lines from teleost fish. These cell lines have in themselves become valuable to the scientific community as they have been used as either standard tools in toxicology studies, immunology studies, and as feeder layers for the cultures of fish stem cells. Dr. Bols’ work has become the foundation upon which many researchers in the field of aquatic biology build their research programs. He has published his research in over 200 peer-reviewed journals and in book chapters, and he has served on the editorial boards of several journal focused on in vitro science (Cytotechnology, Methods in Cell Science, and IVCDB-Animal). Dr. Bols has distinguished himself as an exceptional mentor, having supervised 36 graduate students and 70 undergraduate students in his laboratory. Many of his trainees have gone onto academic positions and twelve of his graduate students currently hold positions as university lecturers or professors. Even as Dr. Bols’ retires, he will continue his mentorship role in promoting the science of aquatic biology.

Dr. Wallace McKeehan has achieved academic excellence and made significant contributions in the areas of cell culture media development, mechanisms of growth factor action, and cancer biology in his 40-year career. He is the author of 176 peer-reviewed publications. He has made major scientific contributions to understanding the mechanisms of cell-cell communication in health and disease through cell surface tyrosine kinase receptor signaling controlled by tissue matrix heparan sulfate. Cumulatively, Dr. McKeehan’s research showed that an important element of prostate cancer is the basic failure of cells in the microenvironment to communicate properly using the FGF receptor tyrosine kinase signaling mechanisms, and they...
revealed multiple steps in tumor progression that may be potentially reversed by treatment or prevention. In addition to his academic excellence and significant contributions in areas of cell biology, Dr. McKeehan served as an Editor-in-Chief of *In Vitro Cellular & Developmental Biology-Animal* from 1986 to 2005, and has been a strong mentor to 23 graduate students, 16 post-doctoral fellows and 16 visiting scientists. Many of Dr. McKeehan’s mentees are now in leadership positions in academia and industry.

**Fellow Award**

The Awards Committee selected the nominations of Mrs. Dannette Connor Ward, Dr. Tesuji Okamoto and Dr. Peggy Ozias-Akins to receive the Fellow Award based on their accomplishments as well as their enthusiastic and dedicated service to the Society.

Mrs. Dannette Connor-Ward has been a member of the Society since 1980. She has been a member of the Program Planning Committee, the Local Arrangements Committee, and has been Session Convener at three SIVB annual meetings. She has been an outstanding contributor to SIVB by helping in the creation of the Education Committee, which she co-chaired for three years and functioned as a member since its inception. She also has been a member of the Phillip White Award Committee. Ms. Connor-Ward is highly respected for her contributions that enabled the commercial application of plant biotechnology to agriculture. She was an essential contributor to the development of transformation systems for important biotech products that include Roundup-Ready soybean and Roundup Ready sugarbeet. Her field of specialization also includes biotechnology education in addition to research. In addition to her activities with the Education Committee of the Society, Ms. Connor-Ward has shown educational commitment and exceptional leadership by organizing a “Teachers Lounge” for plant biotechnology at the Annual Future Farmers of America convention for over eight years, developing a plant biotechnology curriculum at Saint Louis Community College, providing biotechnology education to inner-city school children through her participation in the St. Louis Science Literacy Initiative, and by being a Biotech Advisor for the Clyde C. Miller Career Academy in St. Louis.

Dr. Tesuji Okamoto is an excellent example of the international reach and collaborative spirit of the Society. As the immediate past-President of the Japanese Tissue Culture Association (JTCA), Dr. Okamoto served as a liaison between the JTCA and the SIVB, and organized JTCA-sponsored sessions at the SIVB World Congresses. He has made and continues make significant contributions to the success of our Society journal. He has served as an Associate Editor and is the current Editor-in-Chief of IVCD-B-Animal. Dr. Okamoto has distinguished himself as a highly respected scientist who makes a bridge between basic research and clinical applications. His major research emphasis has been the study of the effects of growth factors in human derived cells, and he has applied his discoveries to treat patients suffering from congenital craniofacial abnormalities and cancer in the maxillofacial region. He has pioneered the use of IL-2-autologous lymphocytes for oral carcinomas, and has built a cell therapy facility at the Hiroshima University Hospital.

Dr. Peggy Ozias-Akins has met and far exceeded the criteria of demonstrating outstanding scientific contributions, active participation in the Society and sustained Society membership. She is an internationally respected scientist who has been a pioneer in the in vitro culture and regeneration of grasses, peanuts and other agronomically important plant species. She also is a recognized leader in the study of apomixis, and has been recognized for this work by being elected a Fellow of the American Association for the Advancement of Science. Dr. Ozias-Akins has actively participated in SIVB programs and governance since 1986, and has functioned in multiple roles including Plant Program Co-chair, Program Committee member, Awards Committee member, Development Committee member, and Plant Biotechnology Section Chair. In recognition of her extensive and continuing contributions to the success of SIVB, Dr. Ozias-Akins has twice been the recipient of the Distinguished Service Award.

*In Vitro - Animal’s Editor-in-Chief, Tetsuji Okamoto, proudly receives the SIVB Fellow Award.*

*Dannette Ward receives the SIVB Fellow Award from long-time friend and colleague David Songstad.*

*Peggy Ozias-Akins is honored with the SIVB Fellow Award for her service to SIVB and the scientific community.*
Student Awards

The committee this year consisted of Pamela Weathers (Chair), Craig Meyers, Argelia Lorence, Carol Stiff, Sylvia Mitchell, Esther Uchendu, Nirmal Joshee, Cindy Goodman, Guy Smagghe, Elizabeth Roemer, and William Smith. Because Pam Weathers had a student competing for an award, she recused herself and Argelia Lorence chaired the committee evaluation process in order to assess and finalize the results.

The following awards were presented at the 2012 meeting. Sumiyo Mimura from the National Institute of Biomedical Innovation, Osaka, Japan was granted the Wilton R. Earle Award and an SIVB Travel Award for, “Prospect of Neural Cells Derived from Human Pluripotent Stem Cells for Application of In Vitro Developmental Toxicity Test.” Liwen Fei from Worcester Polytechnic Institute, Worcester, MA was granted the John S. Song Award for the project entitled “Towards Automation of Micropropagation Using a Mist Bioreactor.” The Hope E. Hopps Award was won by Zachary R. King – University of Georgia, Athens, GA for “Construction and Validation of the Novel pANIC Vector Set by Stable and Transient Expression Using in vitro Cultures of Switchgrass (Panicum virgatum L.) and Rice (Oryza japonica L.).” The Cellular Toxicology Award was granted to Nguyen Vo, University of Waterloo, Waterloo, Ontario, Canada for “Establishing and Characterizing an Endothelial Cell Line from the Bulbus Arteriosus of Juvenile Walleye, Sander vitreus, for Physiology, Toxicology and Virology Research.”

Outgoing President William Smith presents Fredy Altpeter with the Distinguished Service Award for his support of the 2012 World Congress.

William Smith presents outgoing board members (L to R) Todd Jones, Pam Weather, Liz Roemer, and John Finer with the Distinguished Service Award.

Pam Weathers and David Songstad congratulate the 2012 Student Award Winners: Sumiyo Mimura, Breanne Cuddington, Jeff Kwak, Elizabeth Mayer, Carlos Hernandez-Garcia, Dinum Perera, Liwen Fei, Nguyen Vo, and Eleanor Vesty.
B. Fell Award and an SIVB Travel Award went to Jeff Kwak – Midwestern University, Downers Grove, IL for his work on “Cullin-5 Knockdown Alters Protein Expression in MDA-MB-231 Breast Cancer Cells.” The Joseph F. Morgan Award and an SIVB Travel Award were won by Breanne Cuddington – McMaster University, Hamilton, ON, Canada for her work on “Characterization of Bovine Herpesvirus Type 1 as a Novel Oncolytic Virus.” The 2012 Philip White Memorial Award went to Eleanor Vesty of the University of Birmingham, Birmingham, UK. She planned to travel to Germany to study in the lab of Thomas Wichard to study the preparation of axenic cultures of the green macroalga Ulva in his laboratory at the Institute of Inorganic and Analytical Chemistry of the University of Jena. An SIVB Travel Award and the Hope E. Hopps Award went to Elizabeth Mayers, University of Florida, Gainesville, IL for her work on “Development of a Genetic Transformation Protocol for Interspecific Hybrids of Elephantgrass (Pennisetum purpureum) x Pearl Millet (Pennisetum glaucum).” SIVB Travel Awards were also granted to: Carlos Hernandez-Garcia from The Ohio State University, Wooster, OH for “Wound-induction of GmERF Promoters in Soybean” and to Dinum Perera from Mississippi State University, Mississippi State, MS, for work on, “Tissue Culture and Induced Mutation of Giant Miscanthus.”

Constitution and Bylaws

The 2012 Constitution and Bylaws Committee did not hold any meetings. No items were brought to the committee chair either by the Board of Directors, or members of the Society. Since not all members are able to attend the committee meetings in person at Annual Meeting due to schedule conflicts or being unable to attend the Annual Meeting, the exploration of some avenue for member electronic discussion could be explored. This would give all members of the society a mechanism to suggest improvements to our governing documents and volunteer to assist in preparing recommendations. If anyone has any thoughts on this, or any changes in the documents that would allow our organization to function more effectively please contact me by email.

Linda Jacobsen, Constitution and Bylaws Committee Chair
Linda8285@aol.com
Development

The 2012 Development Committee consisted of the following members: Fredy Altpeter, Barbara Doonan, Eugene Elmore, Michael Fay, Cindy Goodman, John Harbell, Vibha Srivastava, Brad Upham, Zeng-Yu Wang, Allan Wenc, and Greg Phillips (Chair).

Fundraising for the 2012 meeting generated $99,105.71 in contributions to support the SIVB meeting, including IVACS and PBS sections. These funds also included $16,025.71 in a USDA grant to support the Student Initiative and speaker expenses. The committee extends special thanks to those individuals who wrote and submitted these grant proposals to support these initiatives.

The companies and organizations that contributed to the 2012 World Congress include: Monsanto Company, BASF Plant Science, Dow AgroSciences, Johnson & Johnson, Pioneer Hi-Bred International, ThermoFisher Scientific/Celomics, ArborGen LLC, Bayer CropScience, Syngenta Biotechnology, The Scotts Miracle-Gro Company, BASF Corporation, and the Gale and Robert Lawrence Foundation. The following organizations and individuals contributed to the 2012 Lifetime Achievement Awards: University of Waterloo, Liqun Dong, Shuju Feng, Hiroyoshi Hoshi, Jinzhou Hou, Xinqiang Huang, Mikio Kan, Masashi Kobayashi, Leyuan Liu, Yongde Luo, Akio Matsubara, Kouichi Matsuzaki, Kouji Mita, Mitsuru Nakahara, Tetsuji Okamoto, Akihiko Sakamoto, J. Denry Sato, Ergang Shi, Keiichi Tanno, Jun Teishima, Tszguru Usui, Fen Wang, Jianming Xu, Chaofeng Yang, Eitaro Yasumitsu, and Chundong Yu. The amount listed above does not include the “in kind” contributions from invited speakers who were able to obtain funds to pay for their expenses while at the 2012 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.

Submitted by the SIVB Business Office on behalf of Gregory C Phillips, Development Committee Chair gphillips@asstate.edu

Education

The Education Committee’s mission for the last two years was to develop more student-focused programs; more workshops for educators; more communications using social networking tools; and ensuring that SIVB becomes the leading source for biotechnology-related information. We are happy to report that we are well on our way in achieving those goals with strong student representation; more biotechnology workshops and presentations (at least every two years); and students’ assistance in the website and social media tools.

We thank Margaret Young for her services for the past two years as the Chair of this committee, and welcome Sylvia Mitchell as the new Chair.

The student committee organized two sessions for the quadrennial World Congress SIVB meeting in June. The first session was the student networking symposium. The focus of the symposium was “Writing and Submitting a Grant Proposal”. Five SIVB members served as panelists for the discussion and the session was organized and moderated by Kerri Neugebauer. The second student session was the student networking luncheon. Seven scientists from academia and industry led round table discussions with students about career paths and current “hot topics” in biotechnology. The student affairs breakfast, convened by Kerri Neugebauer, served to elect new student officers and to discuss the future for the student section of SIVB. Kerri Neugebauer from Kansas State University became the past student chair and the two new co chairs elected were Sydney Shaw from Northeastern University as the Plant Co-chair and Jeff Kwak from Midwestern University as the Animal Co-chair. Four additional students volunteered as committee members to assist in planning the next meeting in June 2013.

This year, the student committee has been busy planning two sessions to be held during the upcoming SIVB meeting in June. The first session is the student networking symposium entitled “Strategies for Remaining Current in Your Field”. Six panelists will discuss and provide steps young professionals can take to be an effective researcher. The second session planned is a student networking luncheon. Eight professionals will be present to lead round table discussions with students.

Margaret Young, Education Committee Chair
mmyoung2@mail.ecsu.edu

Kerri Neugebauer, Student Committee Co-Chair
kerrin@k-state.edu

Vinita C. K. Daniel, Student Committee Co-Chair
vinita.daniel@mwumail.midwestern.edu
Laboratory Materials and Biosafety

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); 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; 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, Xenoprot, Inc; Lynn Rutsky; The University of Texas Health Science Center Houston; William J. Smith; Glyn N. Stacey, National Institute for Biological Standards and Control-UK; and Alda Vidrich, University of Virginia Health Sciences Center.

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, tissue engineered and cell-derived products.

The April 15, 2012 U.S. Supreme Court hearing will review genomic patent rights to determine “who owns your genes.” In question is a the old legal battle to determine the validity of seven (7) patents issued to Myriad Genetics for BRCA1 and BRCA2, two key breast and ovarian cancer genes. A Well’s Cornell Medical College research study, looking at the >40,000 patents on DNA molecules, by which companies have claimed the entire human genome, has raised the question of individual “genomic liberty” loss. If the Supreme Court upholds the current entire human genome scope of the current DNA molecule patents, no research on genes from these patents or diagnostic test or drug can be developed without patent infringement.

The April 15, 2012 U.S. Supreme Court hearing will review genomic patent rights to determine “who owns your genes.” In question is a the old legal battle to determine the validity of seven (7) patents issued to Myriad Genetics for BRCA1 and BRCA2, two key breast and ovarian cancer genes. A Well’s Cornell Medical College research study, looking at the >40,000 patents on DNA molecules, by which companies have claimed the entire human genome, has raised the question of individual “genomic liberty” loss. If the Supreme Court upholds the current entire human genome scope of the current DNA molecule patents, no research on genes from these patents or diagnostic test or drug can be developed without patent infringement.

Long Range Planning

The Long Range Planning Committee (LRPC) is a standing committee of the Society and is chaired by the Society’s President-Elect. The LRPC is charged, as the name implies, with developing strategies for the long-term vitality of the SIVB. As the original in vitro biology society, SIVB has consistently provided scientific leadership and training that has impacted most areas of biology, biotechnology, and medicine.

In order for the SIVB to ensure continued long-term success, we need to develop methods to sustain our present membership, identify and attract new members, encourage the scientific development of our student and post-doctoral members. The LRPC has previously developed mechanisms, including endowment funds to provide support to the Society’s activities and long-term sustainability, and travel for students and post-doctoral fellows. These include: the Michael Horn Endowment Fund, the Roberta Smith Endowment Fund, and the Fund for the Future. These endowments allow members to participate in the Society’s core mission. The LRPC encourages everyone to contribute to this important effort.

Another goal of the LRPC is to develop a Strategic Plan for the Society. While this effort is ongoing, a draft of the Strategic Plan will be submitted to the Board at the Annual Meeting in Providence. It is envisioned that the Final Strategic Plan will be finalized by the Fall Board Meeting.

The SIVB needs to continue providing the highest quality scientific programs and provide scientific incentives to attract new members including student members, who hold the key to the Society’s future, by providing insights into future scientific advances for in vitro biology. With the tremendous advances in technology including the “omics”, stem cell biology, regenerative biology, and 21st century approaches to identifying the mechanistic basis and application for systems
biology, the SIVB needs to provide outreach to science to ensure the quality of the cell biology is sufficient to facilitate quality solutions to the challenges that society faces. This extends across all plant and animal species where data are needed to make the critical decisions that impact our future. As a multidisciplinary society that has a history of education in all areas of cell and tissue culture, the SIVB is best positioned to take advantage of this challenge. We as members have a responsibility to share our expertise in high-quality in vitro biology. We need to create educational outreach programs via various mechanisms including: web-based training and educational workshops. We need to take advantage of social media networks to spread the word about our society, its programs, and benefits provided from networking, meeting attendance, and tapping into our considerable scientific expertise.

Part of the recommendations from the LRPC include expanding the educational emphasis to provide regular workshops on basic and applied tissue culture methods. In conjunction with this effort, the Society is evaluating the option of offering a certification program for in vitro biology that includes all key aspects of both animal and plant in vitro biology.

Please consider contributing to the Society’s endowments and to supporting the scientific training efforts for our students, regular members, and the society efforts to educate scientists on high-quality in vitro biology.

Financial contributions can be made: anytime online at the Society’s web site, at the time of membership renewal and meeting registration, or by check. Those deciding to contribute by check, should make the check payable to SIVB and identify the Fund(s) for which the funds are intended and mail to the Society’s Business Office:

Society for In Vitro Biology
514 Daniels St., Suite 411
Raleigh, NC 27605

Feel free to contact the SIVB Business Office (Marietta Wheaton Ellis) or Eugene Elmore (current Long-Range Planning Committee Chair) for more information on how you can contribute to and support each of the Society’s endowments.

Eugene Elmore,
Long Range Planning Committee Chair
eelmore@uci.edu

The membership committee has been re-organized in order to have a more effective committee to pursue the maintenance of our membership and also to encourage new members. The membership committee now consists of the Secretary, Board Members-at-Large, the IVACS Chair, the Plant Biotechnology Chair and a student member from each section. Current members include, Wayne Parrott, Elizabeth Roemer, Dwight Tomes, Lucy Lee, Michael Dame, Valerie Pence, Maria Stupnikov and Lia Campbell. We are just getting started but have already set up and sent our own flyer out to members in December to encourage their membership renewal and their participation in the 2013 meeting. Maria, our student representative, modified the existing meeting flyer to one page. Then a blast email was sent with the flyer as an attachment and also with a link to our website with the idea that anyone who received our email could then easily print it or pass it on to someone that also might be interested in attending the 2013 meeting. We have other ideas in the works that include a post meeting update to keep SIVB out there in everyone’s minds after the meeting.

Lia H. Campbell, Membership Committee Chair
lcampbell@celltissuesystems.com

The exhibition was a key to the success of the 2012 World Congress on In Vitro Biology.

Lifetime Achievement Award Winners Niels Bols and Wallace McKeehan toast each other for their accomplishments.
Nominating

In June of 2012, the newly elected Board of Directors, Section Officers and Committee Chairs took office during the 2012 World Congress on In Vitro Biology. In the fall of 2013, the following Board and Committee Chairs are up for re-election: President-Elect (PBS member), Vice President, Secretary, Treasurer, Member-at-large (PBS), Member-at-large (IVACS), Publications Chair, Public Policy Chair, Chair of Constitution and Bylaws Committee, Chair of Awards Committee, Chair of Education Committee. Also up for re-election are the Section Officers: the IVACS Officers, which include the IVACS Chair, IVACS Co-chair for Membership, IVACS Co-chair for the Meeting Program, IVACS Secretary and the PBS Section Officers, which include the PBS Chair, PBS Co-chair and PBS Secretary. A Nomination Committee including Bill Smith, Brad Upham, Harold Trick, Lucy Liu, and Wayne Parrot has been formed and is seeking at least 2 candidates for each position. If you have a desire to serve your Society in an official capacity, or want to suggest a willing candidate, please contact one of the members of the Nominating Committee to volunteer.

William J. Smith, Nominating Committee Chair
billjimmy@verizon.net

Program

The 2012 World Congress on In Vitro Biology was held at the Hyatt Regency in Bellevue, Washington from June 3-7. With the tremendous effort of Vibha Srivastava and Brad Upham, Section Program Chairs for PBS and IVACS, respectively, we were able to put together an impressive program that was wide ranging in scope and attracted 385 scientists from 30 countries. It was encouraging to observe an increase in both paid and total registrations compared to the last World Congress by 6 and 8% respectively.

Each day’s program began by a plenary session highlighting cross-disciplinary subjects of interest to both Plant Biotechnology and In Vitro Animal Cell Science researchers including Application of Nanotechnology in “In Vitro” Biology (Nanobiology); Nutraceuticals in the 21st Century: Identification, Production, and Demonstration of Efficacy and Safety; Omics Technologies in the Dissection of Biological Processes; and Commercialization of GMO’s: IP – Risk Assessment and Regulatory Issues. Thirty-two other sessions were convened that featured a variety of research topics. These 19 symposia, 5 workshops, 3 presentation competitions and 6 interactive poster sessions included Plant Biotechnology Student Oral Presentation Competition; Plant Biotechnology Post Doctoral Oral Presentation Competition; In Vitro Animal Cell Sciences Student and Post Doctoral Oral Presentation Competition; Non-Human Viruses in Biomedical Research; In Vitro Manipulation and Breeding of High-Value Fruit Crops; In Vitro Systems to Study Obesity and Metabolic Diseases; Harnessing the Promise of Agricultural Biotechnology: Update on Multi-Institutional Biotech; Student Networking Symposium: Writing and Submitting a Grant Proposal; Identifying Environmental Endocrine Disruptors: Do In Vitro Models Predict Relevance?; Next Gen Transformation Technologies; Student Networking Luncheon; Embryogenesis/Micropropagation/Regeneration; Genomes/Genomics/Bioinformatics; In Vitro Tools, Techniques, and Optimization; Advanced 3-D Tissue Culture Systems; DNA Recombination Based Tools for Plant Genetic Engineering; In Vitro Tools for Plant Conservation; Gene Knockdown and Gene Knockout; Research Integrity; Plant Biotechnology Contributed Papers (two sessions); Carcinogenesis: The Need for Advanced Mechanistic In Vitro Systems; In Vitro Methods for Crop Improvement; Teaching Concepts in Transgenic Crops; Biotechnology; Plant Transformation; In Vitro Tools for Human Cancer Research; Regulatory Acceptance of Alternative Carcinogenicity Tests; Applications of RNAi and MicroRNA in Agriculture; Inducible and Tissue-Specific Plant Gene Expression Systems; New Therapeutic Approaches to Cancer from In Vitro Studies; Advances in Abiotic and Biotic Stress Tolerance; and Sustainability in Agriculture.

On Sunday, June 3, 2012, SIVB held the 13th International Conference on Invertebrate and Fish Cell Culture. This event, held once every four years in conjunction with the World Congress on In Vitro Biology, honors pioneers in the field of invertebrate and fish cell culture who have contributed outstanding achievements and significantly contributed toward invertebrate and fish research. This year’s conference included sessions on Old Technologies of Primary Insect Cultures are Useful to Modern Questions; Development, Characterization, Authentication and Validation of Fish Cell Lines; and Roundtable Discussion on Conference Topics.
Highlights of the World Congress included the opening ceremony with the presentation of awards and the Keynote Address given by Dr. Lee E. Hood of the Institute for Systems Biology. He spoke on Systems Approaches to Disease and the Emergence of Proactive P4 Medicine. The keynote address was followed by the Opening Ceremony Reception in the Exhibit Hall, which provided an opportunity for participants to meet with the exhibitors and poster session presenters.

The student and postdoc presentation competitions organized by Sukhpreet Sandhu, Hong Luo and Lia Campbell were very well received and displayed the incredible young talent that will fuel SIVB’s future.

We are very grateful for the support of our sponsors and exhibitors. Their contributions to these events are essential in allowing the Society to present quality science at the meeting as well as maintain and expand initiatives such as the free registration and membership for students.

I like to express thanks to J. Denry Sato the 2012 Program Co-chair and the PBS Officers (Fredy Altpeter, Valerie Pence, Sylvia Mitchell) and IVACS Officers (Brad Upham, Addy Alt-Holland, Michael Dame, and Magnolia Ariza-Nieto).

Special thanks goes to the Program Committee (Vibha Srivastava, John Thompson, Zeng-Yu Wang, Kan Wang, Addy Alt-Holland, Vinita Daniel, Thomas J. Flynn, John W. Harbell, Lucy E.J. Lee, Kerri Neugebauer, Paul J. Price, Jessica L. Rupp, Guy Smagghe, David D. Songstad, and Margaret Young) and the local organizing committee (Delene J. Oldenburg, Jim Grob, George M. Martin, Barbara M. Reed, and Jyoti R. Rout) all conveners, fundraisers, presenters, and moderators for putting a stellar program into practice. Special recognition due New Beginnings Management who among others organized the meeting’s program, facilities and events so that the attendees could enjoy the experience. My thanks to all members and attendants for making this meeting a very enjoyable event and great success.

I look forward to seeing you all at the In Vitro Biology Meeting in Providence, Rhode Island June 15th -19th, 2013.

Fredy Altpeter, 2012 Program Chair
altpeter@ufl.edu

Interactive poster sessions were very well attended at the 2012 World Congress on In Vitro Biology.

Publications

The In Vitro Cellular and Developmental Biology Journals are continuing to thrive under our new editors. Our reviewers and associate editors are providing rapid reviews, allowing our authors a faster turnaround time. Both journals have increased impact factors that we expect will improve even more in the next few years. Our online “In Vitro Report” continues to provide news to the members in a timely fashion. Our society is composed of an excellent group of researchers and we hope to have more submissions from our members. We encourage all our members to cite pertinent papers from our journals in your manuscripts and to recommend our journals to your colleagues.

In Vitro – Plant

For In Vitro – Plant, in 2012, our main efforts have been to increase the quality of the accepted manuscripts. This was an additional transition year for the new SIVB Editor-in-Chief, John Finer and the new IAPB Editor-in-Chief, John Forster, who completed their first full year of service to the journal. Both continue to learn the manuscript handling and routing software as well as the finishing processes, to hand off final manuscripts to Springer. The impact factor of the journal in 2011 increased significantly from 1.060 to 1.497. Because the impact factor is based largely on manuscripts published in the previous two years, this increase resulted from a very successful Biofuels issue (volume 45:3) with some additional contribution from our regular papers. The impact factor for 2012 could be helped by a well-received special issue on Biodiversity (Volume 47.1). As this increase in impact factor is so important to the standing of the journal and the society, efforts have been initiated and will continue to increase the number of invited reviews and plan additional special issues. In 2012, a total of 74 manuscripts were published in volume 48 of which 30 were published the IAPB (International Association of Plant Biotechnology) issues of the journal. These numbers are comparable to previous years. The average days to acceptance dropped by over 50 days in 2012 compared to 2011 although it is still too high. The acceptance rate decreased from 19.8% in 2011 to 14.6% in 2012. Since the total articles submitted increased in 2012, the overall number of accepted manuscripts remained about the same.
A fast track manuscript processing route for submissions from our society membership and Associate Editors should allow us to maintain high quality and rapid publications in In Vitro – Plant. Efforts continue to decrease the review time of submitted manuscripts and further reduce the time to formal acceptance. Ideas for review articles and special issues should be directed to the Publications Committee or John Finer (finer.1@osu.edu) and John Forster (John.Forster@dpi.vic.gov.au) directly.

In Vitro – Animal
(For the year 3/1/12 through 2/28/13)

The journal experienced an increase (28%) in total submissions of new manuscripts over the comparable period last year (232 compared to 181 in 2011-2012) showing a second year of increased submissions. The numbers of submitted manuscripts for the past year compared to the prior year were: 194 regular papers (146 in 2011-2012), 32 Reports (29 in 2011-2012), 5 Reviews (4 in 2011-2012), 1 opinion Letters-to-the-Editor (2 in 2011-2012), and no book reviews (0 in 2011-2012). Of the 232 submissions, 92 (39.7%) were accepted 44.7% acceptance rate), 114 (49.1%) were rejected, 12 (5.2%) was withdrawn, and 14 (6%) were still in review or revision.

In addition to the USA, 30 countries were represented in the submissions received in 2011/2012. Average time from receipt to first decision in the review process was 5.71 weeks compared to 6.41 weeks overall in the past year. The co-editors work closely with the publications manager, Michele Schultz, to facilitate the editorial and publication process. At the 2012 World Congress, the co-editors and publications manager met to identify strategies to increase membership submissions for the SciNews and ExPlants membership news sections of the In Vitro Report. As a result, a regular notification email is now sent out to the membership to solicit contributions for SciNews and ExPlants. This strategy appears to be working as we have seen a consistent increase in the number of submissions for both SciNews and ExPlants. The format and design of the online In Vitro Report have also been updated. We have reformatted the SciNews and ExPlants sections to be combined on the same page to facilitate interaction between the In Vitro Animal Cell Sciences and the Plant Biotechnology Sections of the Society. A new recurring feature called “Member Profiles” has also been added to facilitate interaction and collaboration among the membership. 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. The In Vitro Report also serves as an important mechanism for the Society’s President to communicate with the membership through the President’s Report feature. Additional content includes: 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 more information on career and professional development for student members of the Society, and information about workshops and funding opportunities related to in vitro research. If you have suggestions for improving the In Vitro Report please contact the Co-Editors (mfayxx@midwestern.edu; sylviamitchell.biotech@gmail.com) or the Publications Manager (Michele@sivb.org).

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). The co-editors are Michael Fay and Sylvia Mitchell, 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. At the 2012 World Congress, the co-editors and publications manager met to identify strategies to increase membership submissions for the SciNews and ExPlants membership news sections of the In Vitro Report. As a result, a regular notification email is now sent out to the membership to solicit contributions for SciNews and ExPlants. This strategy appears to be working as we have seen a consistent increase in the number of submissions for both SciNews and ExPlants. The format and design of the online In Vitro Report have also been updated. We have reformatted the SciNews and ExPlants sections to be combined on the same page to facilitate interaction between the In Vitro Animal Cell Sciences and the Plant Biotechnology Sections of the Society. A new recurring feature called “Member Profiles” has also been added to facilitate interaction and collaboration among the membership. 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. The In Vitro Report also serves as an important mechanism for the Society’s President to communicate with the membership through the President’s Report feature. Additional content includes: 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 more information on career and professional development for student members of the Society, and information about workshops and funding opportunities related to in vitro research. If you have suggestions for improving the In Vitro Report please contact the Co-Editors (mfayxx@midwestern.edu; sylviamitchell.biotech@gmail.com) or the Publications Manager (Michele@sivb.org).

Public Policy

The Public Policy Committee is a standing committee of the Society with multiple roles – alert and educate membership about current issues affecting the scientific community, provide the general public with fact-based information, and act as a resource for the SIVB Board of Directors to provide advice and to assist in promoting scientific policy in national and international arenas. Alliances forged by the Society assist in these endeavors. We are members of the following organizations: American Association for the Advancement of Science (AAAS), American Institute of Biological Sciences (AIBS), Council for Agricultural Science and Technology (CAST; David Songstad is on the Board of Representatives), Coalition on the Public Understanding of Science (COPUS), and International Foundation for Ethical Research (IFER).

Providing information on ethics in research is becoming increasingly important. At the 2012 World Congress on In Vitro Biology, Pam Weathers, former Chair of the Public Policy Committee, convened a workshop on Research Integrity. Panlistists included Pam, Todd Jones and C. Neal Stewart. As described in the workshop abstract, the focus was on “best practices for performing science and being a successful scientist, with an emphasis on integrity and ethics”. No doubt, this workshop stimulated critical discussions on ethics in research.
In regard to the presidential election, the committee sent an AAAS link to the membership that detailed the candidates’ positions on 15 science- and technology-based issues.

Pam Weathers, former Chair of this committee and her fellow committee members, Todd Jones, Eugene Elmore, and Patrick Arsenault have done a fantastic job representing the Society and alerting the membership to numerous issues of importance to us. Pam and Eugene have left the committee and now support the Society through different endeavors. Todd and Patrick remain, with Thomas Flynn and myself added as new members. We would, however, like all SIVB members to consider themselves as ad hoc committee members, so please forward items you think we should alert other members to and/or respond to as a Society.

Nancy Reichert, Public Policy Chair, Mississippi State University
narl@msstate.edu
Todd Jones, Pioneer Hi-Bred International
todd.jones@pioneer.com
Patrick Arsenault, University Pennsylvania Medical School
patars@mail.med.upenn.edu
Thomas Flynn, Food and Drug Administration
thomas.flynn@fda.hhs.gov

American Type Culture Collection

ATCC is a BioResource Center (BRC), which provides the science community with authenticated and high-quality biomaterials. In addition to distributing a wide variety of animal cell lines from different species, ATCC is also building a collection that focuses on various disease types to include: genetic alterations, signaling pathway and molecular signatures. These new tools are highly relevant to current research trends and will largely facilitate both basic and translational research.

Yvonne Reid, Manager, Scientist, ATCC
YREID@atcc.org

Council for Agricultural Science and Technology

The Society for In Vitro Biology is a long-term member of CAST, which is a nonprofit 501 (C)(3) organization of scientific societies, nonprofit and trade organizations, and commercial companies charged with the task of proactively educating the non-science general public on relevant issues, such as agricultural technology, plant and animal sciences, and biotechnology. Like the other members of CAST, SIVB joined this organization because we are particularly concerned about communicating credible, science-backed information to legislators, regulators, the external media, and policymakers. CAST produces and disseminates science-backed documents (Issue Papers, Commentaries and Special Publications) which are geared to helping inform the consumer and to interpret issues that are linked to the agricultural sciences, and may be misconstrued by the popular press. The 2012 Annual Meeting of the CAST Board of Directors and Board of Representatives took place in Kansas City, Missouri, November 13–15, 2012. Guest presenters included Gale Buchanan, former Under Secretary of Agriculture; Ron Trewyn, Vice President for Research at Kansas State University; Jarrod Sutton, Assistant Vice President Channel Marketing, National Pork Board.

CAST has commissioned an excellent series of videos and publications within the past year which are relevant to SIVB members in their roles as educators (great classroom resources) or speaking to the public as advocates for in vitro biology and its scientific advances. A complete listing is available online:
http://www.cast-science.org/publications.asp

David Songstad, CAST Board of Representatives, SIVB
dsongstad@citiusllc.com

International Association for Plant Biotechnology

Currently, there is no National Correspondent for the US Chapter of the IAPB. As we have done in the past, the SIVB is currently accepting IAPB Membership dues for SIVB Members who live in the USA. Those members who have joined or renewed their IAPB Membership through SIVB will be sent their journals from the SIVB office.
## TREASURER’S SUMMARY REPORT

**SOCIETY FOR IN VITRO BIOLOGY**

**STATEMENTS OF FINANCIAL POSITION**

**DECEMBER 31, 2012 AND 2011**

### ASSETS

<table>
<thead>
<tr>
<th></th>
<th>December 31, 2012</th>
<th>December 31, 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current Assets:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash</td>
<td>$414,722</td>
<td>$371,436</td>
</tr>
<tr>
<td>Accounts Receivable</td>
<td>17,431</td>
<td>8,177</td>
</tr>
<tr>
<td>Prepaid Expense</td>
<td>49,321</td>
<td>53,572</td>
</tr>
<tr>
<td><strong>Total Current Assets</strong></td>
<td><strong>481,474</strong></td>
<td><strong>433,185</strong></td>
</tr>
<tr>
<td><strong>Other Assets:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investments</td>
<td>145,956</td>
<td>130,701</td>
</tr>
<tr>
<td><strong>Total Other Assets</strong></td>
<td><strong>145,956</strong></td>
<td><strong>130,701</strong></td>
</tr>
<tr>
<td><strong>Total Assets</strong></td>
<td><strong>$627,430</strong></td>
<td><strong>$563,886</strong></td>
</tr>
</tbody>
</table>

### LIABILITIES AND NET ASSETS

<table>
<thead>
<tr>
<th></th>
<th>December 31, 2012</th>
<th>December 31, 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current Liabilities:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounts Payable</td>
<td>$4,985</td>
<td>$2,337</td>
</tr>
<tr>
<td>Other Accrued Expenses</td>
<td>990</td>
<td>1,563</td>
</tr>
<tr>
<td>Deferred Dues and Subscriptions</td>
<td>31,970</td>
<td>36,403</td>
</tr>
<tr>
<td><strong>Total Current Liabilities</strong></td>
<td><strong>37,945</strong></td>
<td><strong>40,303</strong></td>
</tr>
<tr>
<td><strong>Net Assets:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unrestricted</td>
<td>309,234</td>
<td>234,719</td>
</tr>
<tr>
<td>Temporarily restricted</td>
<td>280,251</td>
<td>288,864</td>
</tr>
<tr>
<td><strong>Total Net Assets</strong></td>
<td><strong>589,485</strong></td>
<td><strong>523,583</strong></td>
</tr>
<tr>
<td><strong>Total Liabilities &amp; Net Assets</strong></td>
<td><strong>$627,430</strong></td>
<td><strong>$563,886</strong></td>
</tr>
</tbody>
</table>
TREASURER’S SUMMARY REPORT

SOCIETY FOR IN VITRO BIOLOGY

STATEMENTS OF ACTIVITIES
FOR THE YEARS ENDED DECEMBER 31, 2012 AND 2011

<table>
<thead>
<tr>
<th></th>
<th>December 31, 2011</th>
<th>December 31, 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unrestricted</td>
<td>Restricted</td>
</tr>
<tr>
<td>In Vitro-Animal</td>
<td>$118,114</td>
<td>-</td>
</tr>
<tr>
<td>In Vitro-Plant</td>
<td>60,370</td>
<td>-</td>
</tr>
<tr>
<td>Newsletter</td>
<td>7,160</td>
<td>-</td>
</tr>
<tr>
<td>Meetings</td>
<td>165,219</td>
<td>61,765</td>
</tr>
<tr>
<td>Administrative</td>
<td>46,065</td>
<td>-</td>
</tr>
<tr>
<td>Total revenue</td>
<td>396,928</td>
<td>61,765</td>
</tr>
</tbody>
</table>

Program services:

<table>
<thead>
<tr>
<th></th>
<th>December 31, 2011</th>
<th>December 31, 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unrestricted</td>
<td>Restricted</td>
</tr>
<tr>
<td>In Vitro-Animal</td>
<td>12,740</td>
<td>-</td>
</tr>
<tr>
<td>In Vitro-Plant</td>
<td>16,740</td>
<td>-</td>
</tr>
<tr>
<td>Annual meeting</td>
<td>80,454</td>
<td>70,378</td>
</tr>
<tr>
<td>Total program services</td>
<td>109,934</td>
<td>70,378</td>
</tr>
</tbody>
</table>

Supporting services:

<table>
<thead>
<tr>
<th></th>
<th>December 31, 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unrestricted</td>
</tr>
<tr>
<td>Administrative</td>
<td>219,493</td>
</tr>
<tr>
<td>Total expenses</td>
<td>329,427</td>
</tr>
</tbody>
</table>

Change in net assets before unrealized gain/(loss) on investments

<table>
<thead>
<tr>
<th></th>
<th>December 31, 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unrestricted</td>
</tr>
<tr>
<td>Unrealized gain/(loss) in fair value of investments</td>
<td>7,014</td>
</tr>
</tbody>
</table>

Change in Net Assets

<table>
<thead>
<tr>
<th></th>
<th>December 31, 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unrestricted</td>
</tr>
<tr>
<td>Net assets, January 1</td>
<td>234,719</td>
</tr>
<tr>
<td>Net assets, December 31</td>
<td>$309,234</td>
</tr>
</tbody>
</table>

Net assets, January 1

<table>
<thead>
<tr>
<th></th>
<th>December 31, 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unrestricted</td>
</tr>
<tr>
<td>Net assets, December 31</td>
<td>$589,485</td>
</tr>
</tbody>
</table>

Net assets, December 31