BE PART OF THE SOLUTION

The best way to make a change is to be part of the solution. The SIVB is an organization that embraces change. Those of us that have been part of the SIVB (or the TCA from years ago) know that tough choices were necessary for the Society to continue to exist. As we look forward to a new SIVB Board of Directors for 2014–2016, let’s look for ways to continue to be part of the solution to make SIVB a better, more vibrant, Society for many years to come.

REMEMBERING THE PAST

A group of retirees were asked recently what would they wished to have done better and the common answer was to reflect upon past accomplishments by themselves and others. The SIVB is a great opportunity for scientific reflection to build upon the future. And, in the spirit of remembering the past, I want to tip my hat to all that Mike Horn has done for the SIVB and for the In Vitro Sciences. May students find his legacy to be point of reflection as they reach for their own research accomplishments.

The past year has been a pleasure serving you and the SIVB as your President. I look forward to my transition to Past President and continuing to serve our Society in any way that I can.

David Songstad
SIVB President
dsongstad@citrusllc.com

THE FUTURE OF THE SIVB IS IN OUR STUDENTS

It was in 2003 that the SIVB first introduced the Free Student Registration effort as a means to make our Society open to increased student involvement. This effort has grown to become a fixture of our annual meetings. I’ve witnessed the students form their own organization within the SIVB for their annual functions, including the student luncheon. I am pleased to see students taking the initiative because I know that from this the future of the SIVB will be in good hands!
SECRETARY’S REPORT

As I complete my tenure as Secretary for the Society, I am happy to have been of service to this great organization and the people with which I have been privileged to work. 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. SIVB runs smoothly because of the many people who willingly take up the challenge. I’m glad I was able to play a small part in this great organization that is unique because of its wide applicability and diversity. As I pass the keyboard to the new Secretary, Michael Fay, I wish him well.

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

Lia H. Campbell  
Secretary  
lcampbell@celltissuesystems.com

TREASURER’S REPORT

Despite the continued presence of challenging economic conditions, the Society for In Vitro Biology (SIVB) again ended the year in a favorable financial position with an increase of $44,217 in total net assets as compared with 2012. We have now achieved nine consecutive years with our finances in the black!! Our investments at Morgan Stanley Smith Barney are doing well and royalties from our journals are currently stable, although these are likely to drop once our eligibility for royalties from BioOne ceases in 2015 thus giving us an incentive to do our best to make our journals the “go to” source for current in vitro research findings. Also, in spite of some unanticipated additional costs related to union requirements for the RI Convention Center and a slight decrease noted in membership numbers, the 2013 annual meeting in Providence RI proved to be quite successful.

The 2014 World Forum joint meeting with the Society for Cryobiology in Savannah GA is rapidly approaching and with appropriate diligence and cooperation will hopefully prove to be rewarding to both societies. Keeping the Society’s operating performance strong can be attributed to a combination of efforts and approaches including a careful investment strategy, the diligence of our Officers, Board of Directors, Committee members and New Beginnings Management staff with a continued emphasis on expense management across all operations. Over my tenure as Treasurer I have been convinced that we as a society have shown ourselves to be more than capable of doing so. However, we cannot afford to sit back and rest on our laurels. Efforts such as the bringing in of new members, especially young scientists, and sourcing new means for successful fund-raising must remain high on our priority lists.

The Treasurer’s Summary Report can be found at the end of this SIVB Annual Report.

Barbara B. Doonan  
Treasurer  
bbdoonan@aol.com
BUSINESS OFFICE REPORT

The Business Office activities focused on the 2013 In Vitro Biology Meeting, 2014 World Forum on Biology and 2015 Meeting preparations, publications, and membership.

2013 IN VITRO BIOLOGY MEETING

The 2013 In Vitro Biology Meeting was held in Providence, Rhode Island from June 15 – 19, 2013 at the Omni Providence. This year’s meeting highlighted a Keynote presentation by Dr. Steven P. Briggs, Distinguished Professor, Cell & Developmental Biology, University of California – San Diego. He spoke on “Protein Networks from an Atlas of Protootypes.” After the Keynote presentation, the 2013 Lifetime Achievement Awards were presented to Paul J. Price, PhD, and William J. Smith, PhD in honor of their years of exemplary research. Also during the Opening Ceremony, SIVB President, David D. Songstad, PhD, presented Distinguished Service Awards to Eugene Elmore, PhD; Albert Kausch, PhD; Yvonne A. Reid, PhD; Sukhpreet Sandhu, PhD; and J. Denry Sato, DPhil for their support of the Society and its activities. During their respective section meetings, 2013 Young Scientist Awards were presented to Addy Alt-Holland, PhD and Sadanand Dhekney, PhD and the 2013 Fellow Award was presented to Lisa Lee, PhD.

Special events held at the meeting included an Advanced Tissue Culture Workshop (held for the first time since 2000), a Saturday Afternoon Tour of the MA Biomanufacturing Education Center; Tuesday Evening Clambake at Squantum Association, Wednesday Afternoon Tour of the Woods Hole Oceanographic Institution and Marine Biological Laboratory, and the Creative Capital Silent Auction.

At the 2013 In Vitro Biology Meeting, the final number of participants came to 359. There were 141 members, 34 non-members, 14 post docs, 79 students, 5 one-day, 4 emeritus, 4 guests, 10 volunteer and 48 speaker registrants. There were also 4 staff registrants and 16 exhibitors. While the meeting was successful, it was not as financially successful as the 2012 World Congress. Registration was lower than 2012. Several circumstances can be cited as having contributed to this year’s lower attendance; 1) The meeting was convened over Father’s Day weekend and at the end of the academic semester, which caused some attendees to be inconvenienced; 2) The sluggish global economy affected travel from those in the US and overseas; and 3) The US government sequester limited or eliminated all meeting participation for the US government employees. Additionally, SIVB was presented with labor fees that had not been addressed in the original contract with the venue. To assist in assuring success of future SIVB meetings, the Business Office is working with the board to make sure to adjust the dates the meeting to avoid Father’s Day weekend and to focus on finding appropriate venues.

The Business Office and Local Organizing Committee worked with the New England Biotechnology Association (NEBA) and Rhode Island Tech Collective (RITC) to bring additional awareness about the meeting throughout the Northeastern corridor. The Business Office assisted in the preparation of grants with the Program Committee including one for the USDA (BRAGP/NIFA) to support speaker travel expenses and the Student Initiative for students who attended the 2013 In Vitro Biology Meeting. They also worked with those who had prepared the previous NSF grants to clarify the distribution of funds previously provided to the SIVB.

Some of the attendees took a special tour of the Marine Biological Laboratory and Harbor Branch Oceanographic Institute on Wednesday.

A SPECIAL THANK YOU TO THE VOLUNTEERS WHO OFFERED THEIR ASSISTANCE DURING THE 2013 IN VITRO BIOLOGY MEETING, MANY OF THEM WORKING HOURS BEYOND WHAT WAS REQUIRED. WE GREATLY APPRECIATE ALL OF THEIR EFFORTS ON BEHALF OF THE SIVB.
The 2014 Creative Coast Silent Auction will begin during the Welcome Reception on Saturday, May 31 and will end on Tuesday morning, June 3, 2014. Additionally, attendees will be invited to enjoy a special evening dinner event on Tuesday, June 3 at Old Fort Jackson.

This year SIVB will also be holding the Advanced Tissue Culture Workshop on Saturday, May 31 from 12:00 pm – 5:00 pm for the second year. The aim of this year’s course, entitled “Good Laboratory Practices for Human Stem Cells: From the Bench to the Clinic and Beyond,” is to focus on issues pertaining to best practices for managing and banking stem cells to make them suitable for clinical applications. Some of the issues to address will include ideal growth conditions, selection of appropriate medium and optimal conditions for cryopreservation. An overall comprehensive strategy expanding, cryopreserving and recovering of stem cells is needed to get reliable and reproducible results while meeting regulatory requirements.

The Student Initiative Program will be offered to members of both SIVB and SfC providing free registration to all student attendees at this year’s meeting and free student membership to SIVB for all students who attend the meeting and identify with SIVB research topics upon registration. The Student Committee is organizing both a Student Symposium and a Networking Luncheon during the 2014 annual meeting to encourage growth and participation of student members, both graduate and undergrad. In 2014, 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 competitions. The SIVB Student Committee has also been working with the SfC to hold an informal Student Poster Competition. SIVB will again offer the Sponsor-a-Buddy program where for only $25, Members and attendees of the 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 2014 World Forum on Biology.

2014 WORLD FORUM ON BIOLOGY
Joint Meeting of the Society for In Vitro Biology and the Society for Cryobiology

The upcoming 2014 World Forum on Biology – Joint Meeting of the Society for In Vitro Biology and the Society for Cryobiology (SfC) will be held at the Hyatt Regency Savannah from May 31–June 4, 2014. Plans for this meeting began in 2012 and in 2013, the Business Office worked with SIVB and the Hyatt Regency Savannah to organize an addendum to their contract, which expanded the room block and space rental for the meeting to accommodate the participation of SfC. In addition, the Business Office has organized numerous meetings between the SfC and SIVB to discuss the program, fundraising, budget, and other issues that arose in planning the meeting.

The World Forum is being held in Savannah, GA. Savannah has been enticing visitors with her sultry ambiance, striking beauty and old-world charm for centuries. From the elegances of the Landmark Historic District to the festivities of River Street, visitors delight in all this coastal jewel has to offer. Situated on Georgia’s coast in the midst of the delightful Lowcountry region that includes Tybee Island, Savannah is ready to embrace you with genteel warmth and Southern hospitality. Dine at restaurants featuring seafood fresh from the docks or gourmet fare served in 18th and 19th century surroundings or shop alongside the cobblestones of River Street or amid the vintage storefronts of City Market. Established in 1733, Savannah is waiting with nearly 300 years of history showcased at an array of impeccably maintained house museums and a variety of venues showcasing the oldest standing brick fort in Georgia, the oldest antebellum railroad repair facility in the country and one of the newest and best aviation museums in the world. Savannah goes back to some of the earliest days of American history and some say it even harbors its fair share of ghosts.

The 2014 World Forum on Biology will highlight a keynote presentation by Research Scientist Dr. Pierre Comizzoli from the Center for Species Survival, Smithsonian Conservation Biology Institute, Smithsonian National Zoological Park. He will be presenting a talk on “Technology and Ecology Aspects of Genome Resource Banking.” There will also be presentations of the Lifetime Achievement Awards during the meeting to David W. Barnes, PhD, and Michael E. Kane, PhD. At their respective section meetings, Theodore M. Klein, PhD will receive the SIVB Fellow Award and the Young Scientist Award will be presented to Stephanie DeWitte-Orr, PhD. In addition, there will be student awards, student competitions and more presented at the meeting.

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**2015 In Vitro Biology Meeting**

In 2013, the Business Office worked with the SIVB Board of Directors to finalize the contract for the 2015 SIVB Annual Meeting. Next year’s Annual Meeting will be held in Tucson, Arizona from May 30–June 3, 2015 at the Hilton El Conquistador Golf and Tennis Resort. We have also begun discussion on locations for the 2016 World Congress and expect to finalize that contracting in 2014.

**Membership**

Membership numbers decreased slightly this year, which is due in part to decreased attendance at the 2013 In Vitro Biology Meeting as compared to the 2012 World Congress held in Bellevue, just outside of Seattle, WA. Membership dropped 8.6% for regular members and 8.8% 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 2013 “renew before December 31” contest were drawn during the 2013 SIVB Business Meeting. The 2014 contest winners will be drawn during the 2014 Business Meeting and prizes include a gift card, year of membership with SIVB, and a new Kindle HDX Fire.

The Business Office worked with the Membership Committee in 2013 by distributing the one-page flyer that was designed by the committee to advertise the 2013 In Vitro Biology Meeting. The Business Office also worked with the Board in the creation of an SIVB Organizational Flyer which was designed for use in fundraising initiatives and to support the Student Initiative, and in the preparation of a power point presentation to present to organizations to help raise funds for the organization.

SIVB has extended its Social Marketing by including cover images from our members on SIVB’s organizational Facebook page. After reviewing feedback from SIVB’s members, it was determined that coordinated posting of our messages would need to be instituted for both our Facebook and Linked In pages as different companies put limitations on which websites our members can view during their workday. The Business Office coordinated all Facebook posts to simultaneously post to Twitter as well as manually posting similar information the LinkedIn group. If you haven’t friended us on Facebook, joined the SIVB group on LinkedIn, or started following us on Twitter (@SIVBiology), please do so. We provide quick and timely reminders about upcoming deadlines, member benefits, and other information of interest throughout the year.

**Publications**

The Business Office’s Publications Department supports the SIVB’s print and online publications and maintains and supports the SIVB Website.

The Business Office disseminated an updated survey of journal access habits to our members at the beginning of 2013. The results showed that while our membership is slowly accepting online journals, they are still very much actively reading the hard copy journals and for the moment, SIVB will continue to offer both hard copy and electronic access for its Regular, Emeritus, Honorary and Life members.

In addition to uploading a checklist of requirements that each author must acknowledge prior to submitting their work for both journals, the Business Office worked with the Publications Committee to organize a list of scientific writers to be able to offer authors for whom English is not their native language to assist in preparing their manuscripts.

In 2013, both journals addressed issues of plagiarism and typesetting/editing. While the editors continue to keep vigilant on issues of plagiarism and misrepresented...
Access to the Plant journal was changed in 2013 with the release of the new SpringerLink website. The Business Office worked with Springer and the Publications Committee to address these changes and the result was that all those receiving the plant journal as part of their membership now also receive free online access to Plant Cell Tissue and Organ Culture. As members can now receive these online journals for free, it was determined that, in 2014, SIVB would no longer offer paid subscriptions to the hard copy of PCTOC and Cytotechnology.

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. 2014 is the last year SIVB will receive funds from BioOne for our past participation. Our participation in JSTOR will continue at that time.

The In Vitro Report made changes to expand its ability to represent the entire membership in the publication. Beginning in 2013, requests for member announcements to include in the SciNews and Explants section of the issues have been extended to quarterly emails and sent directly to the membership. We have also begun to include information from some of SIVB’s Exhibitors to highlight those who have supported the organization over the years. 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. Please forward your news and information to either of the Co-Editors-in-Chief (http://www.sivb.org/InVitroReport/submissions.html). Information for submissions can also be forwarded to sivb@sivb.org.

The Business Office has expanded its work with the newly appointed SIVB Ad Hoc Website Committee, composed of Sylvia Mitchell, Mike Fay, Jeff Kwak, J.J. Sadler and Wayne Parrott, Chair, on the creation of a new website design for SIVB. Various draft designs have been created after discussion between the Committee and the Business Office about how to update the SIVB’s website to a more modern look equal to other organizational websites in our field. The Business Office has created a website map and timeline/budget for the project which is being reviewed by the Committee and Board for approval. The Business Office is also working with the History Society to review the film library content of the SIVB and how to make it more accessible to our members. It is hoped that a new website design will be finalized for the SIVB this year.

New Beginnings Management, Inc. (NBM) manages the day-to-day operations of the Society as its Business Office. The staff of NBM consists mainly of Michele Schultz and myself. We greatly appreciate the efforts of all those who volunteered their time on behalf of the SIVB with a special thank you to the outgoing Executive Committee, Board of Directors, Committee Chairs and Section Officers whose efforts over the past 2 years have been essential to encouraging the SIVB’s goals, growth and future health. We thank you for your support of NBM and its efforts on behalf of the Society and look forward to a continued collaboration in the upcoming years.

The Business Office welcomes your thoughts and ideas on advancing and encouraging continued growth of the Society for in Vitro Biology. Please contact us with your suggestions at sivb@sivb.org.

Marietta Wheaton Ellis
sivb@sivb.org
The 2013 In Vitro Biology Meeting took place on June 15–19, 2013 in Providence, Rhode Island. The IVACS annual business was conducted on Tuesday June 17th from 6:00 pm – 7:30 pm. 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:

- Eugene Elmore – SIVB President Elect
- William Smith – SIVB Past President
- Lia Campbell – SIVB Secretary
- Barbara Doonan – SIVB Treasurer
- Lucy Lee and Liz Roemer – Member-at-Large Board of Directors
- Brad Upham – IVACS Section Chair
- Magnolia Ariza-Nieto – IVACS Secretary
- Addy Alt-Holland – IVACS Vice Chair-Program
- Michael Dame – IVACS Vice Chair-Membership
- J. Denny Sato – 2013 Program Chair

We also recognized and thanked John Harbell and all of the IVACS members who helped to raise funds for the 2013 SIVB Meeting as well as all of his past fund raising efforts. We thanked the following sponsors for their generous financial support of the 2013 In Vitro Biology Meeting.

- JV Biolabs
- Barbara Doonan
- ATCC
- ThermoFisher Scientific/Cellomics
- Johnson & Johnson

The 2013–SIVB Meeting in Providence, RI was a success on many levels. Attendance at the sessions was excellent and each session generated many enthusiastic questions and discussions. This meeting clearly afforded our participants 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 in a very friendly setting. The success of this meeting was a result of dedication and hard work of the Program Chair, J. Denny Sato; Vice Chair of the IVACS program, Addy Alt-Holland; and the entire Program Planning Committee who all convened sessions as indicated below.

The joint workshop and plenary sessions with the plant section and conveners were: Advanced Tissue Culture Workshop – Yvonne Reid and Albert Kausch; History of Biotechnology – Freddy Altpeter and J. Denny Sato; Plant and Animal Marine Biology Research – Barbara Doonan and Robert Lawrence; Plants in Service to Medicine – Pamela Weathers and Maureen Dolan.

The IVACS sessions and conveners were: The Human Microbiome: What Is Known and What Is Next – Mae Ciancio and Tanja Petnicki-Ociejea; Pathogen-host Interaction and Endocrine Disrupters in Human and Fish – Tanja Petnicki-Ociejea and Jacques Izard; Predictive Toxicology In Vitro: Milestones in Development, Successful Applications and Focus for the Future – John Harbell and Elizabeth Roemer; Cellular Models for Preservation, Toxicity and Cancer Biology – Addy Alt-Holland and Jeff Kwak; Three Dimensional Tissues as Powerful Tools for Cancer Research – Addy Alt-Holland, Michael Dame, Brad Upham; Educational Kits Demonstration – Sylvia Mitchell; Ethnosome and the Biochemical Aspects of Plants in Health and Disease – Barbara Doonan and Sylvia Mitchell; Advanced Microscopy Analysis of Cells and Tissues – Addy Alt-Holland and Mary Welter; AND Multidisciplinary Approaches for Answering Biological Questions – Addy Alt-Holland, Michael Fay and Kolla Kristjansdottir.

Students were an integral part of the 2013 Meeting. The IVACS section once again held our annual student competition. We were pleased to give the students and post-doctoral fellows an opportunity to present. Each participant gave an excellent talk which generated lots of questions. Robert Redden from The Children’s Hospital of Philadelphia was the 1st place winner and Aaron W. Bender from University of Waterloo was the 2nd place winner. Nguyen T.K. Vo from University of Waterloo received an honorable mention certificate for 3rd place in this competition. Other SIVB Student Awards were granted as follows: Wilton R. Earle and Student Travel Awards to Nguyen Vo – University of Waterloo; Honor B. Fell and Student Travel Awards to Sarah Gignac – Wilfrid Laurier University; Cellular Toxicology Award to Nicole Nole and Jana Suchtova – both from St John’s University; and the

IVACS Competition winners Robert Redden (L) and Aaron Bender (R) are presented with their prizes by IVACS Section Chair Brad Upham and Competition organizer, Addy Alt-Holland.
Distinguished Service Awards were also

to Aaron Bender—University of Waterloo. The Education and Student Committees also organized the following sessions: “How to Submit a Grant Proposal” and the “Student Networking Luncheon”. In addition, our students organized a networking symposium on “Strategies for Remaining Current in Your Field”—convened by students Sydney Shaw and Jeff Kwak, and a forum on “Student Networking Luncheon” that was convened by students Sydney Shaw and Jeff Kwak with a panel of the following members Mae Cianco, Michael Fay, Wayne Curtis, Ted Klein, Kolla Kristjansdottir, Todd Jones, Michael Spencer, and Pam Weathers.

At the 2013 Opening Ceremonies, SIVB President, David Songstad, presented two IVACS members the SIVB’s highest honor, the “Lifetime Achievement Award”, to Paul J. Price and William J. Smith. This award acknowledges scientists who are considered pioneers or are highly influential researchers to the science and art of cell culture who have devoted their careers to exemplary research and teaching. In addition, the “Young Scientist Award” was granted to our IVACS member, Addy Alt-Holland from Tufts University. Distinguished Service Awards were also granted to several IVACS Members: J. Denry Sato, Eugene Elmore, and Yvonne Reid for their outstanding contributions to SIVB. IVACS is truly honored to have the hard work and their significant contributions to science, teaching and service recognized by the SIVB.

While the finances for the IVACS section has improved in recent years due to the many efforts of our senior members, particularly John Harbell, the responsibilities are being passed on to younger members, and the struggle for funding our meetings have become a crucial factor that needs to be seriously addressed. This past year, we are working through establishing a more formal mechanism to meet this new financial challenge, and must be a major initiative for the next year. We hope to have time set aside at this year’s meeting in Savannah for us to meet and address this important issue. The need for experience and members with connections to industry will be needed in this effort. Also, 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. We have successfully recruited the following undergraduate and graduate students: Shaneen Baxter, Eliane T. Bodah, Kuan-Hung Chen, Matthew M. Cousins, Breenne Cuddington, Melissa Filille, Christopher A. Hendrickson, Miranda Jarrett, Jeff Kwak, Taylor Erin LaVallie, Ying-Tung Lin, Hazel C McDonald, Sumiyo Mimura, Yuichi Mine, Christine E. Provost, Katelin Spiteri, Maria R. Stupnikov, Venkata Arun Timmaraju, Ming-Hsiu Tsai, Nyugen.T.K. Vo, and the following postdoctoral students: Stephanie D. Boomkamp, Yan Jiang, Kyung-Hee Kim, Zoë Prytherch, Sachiko Yamasaki. This is 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, Vice Chair-IVACS, recruited some of our student members to help moderate sessions with the help of an experienced mentor at last year’s meeting in Providence, RI, which was a great success. I encourage all of us to follow in Addy’s footsteps. We decided that we will again recruit students for next year’s meeting in Tucson by recruiting them at our meeting in Savannah, so please invite the students to our program planning meeting, and we will encourage them to help co-convene sessions.

The following from IVACS and the Plant Section have all been working hard to organize an outstanding meeting for the 2014 World Forum on Biology in Savannah, Georgia, to be held on May 31–June 4, 2014: T. Michael Spencer (Annual Meeting Program Chair), Addy Alt-Holland (Vice Chair Program), and the Program Planning Committee: Nicole Nole, Michael K. Dame, Vinita Daniel, Barbara Doonan, Eugene Elmore, John Harbell, Yan Jiang, Theodore M. Klein, Lucy E. J. Lee, Yvonne Reid, J. Denry Sato, David D. Songstad, Barbara Reed, Harold N. Trick, Brad L. Upham, and the Local Organizing Committee: Wayne Parrott, Jeffrey W. Adelberg, David Barnes, Lia H. Campbell, Hong Luo, Scott A. Merkle, Peggy J. Oziyas-Akins, Mahipal Singh. We also appreciate the effort from the Society of Cryobiology Program Committee: Jason Acker, SfC Program Chair, and James Benson, John Crowe, Edgardo Elvio, Barry Fuller, Adam Higgins, Eric James, Barbara Reed, Erik Woods. We look forward to seeing a strong participation by the IVACS Section at the 2014 World Forum on Biology, and having a great time together. Again, please bring your students, and encourage your colleagues to attend.

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 (World Forum Secretariat/SIVB 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

IVACS IS TRULY HONORED TO HAVE THE HARD WORK AND THEIR SIGNIFICANT CONTRIBUTIONS TO SCIENCE, TEACHING AND SERVICE RECOGNIZED BY THE SIVB.
The 2013 SIVB In Vitro Biology Meeting was held from June 15–19 at the Rhode Island Convention Center in Providence, RI. Once again, the Plant Program Committee did an excellent job putting on a high-caliber, diverse program. I would personally like to thank and acknowledge Zeng-Yu Wang (2012 PBS Chair), Valerie Pence (Sr. Co-chair), Sukhpreet Sandhu (Jr. Co-chair) and the rest of the Program Committee for their hard work.

The Keynote Speaker for the 2013 program was Steven Briggs with his talk “Protein Networks from a Atlas of Proteo-types”. The scientific program continued with three plenary sessions: History of Biotechnology; Plants in Service to Medicine; and Plant and Animal Marine Biology Research. There were a total of 19 plant symposia and contributed papers sessions highlighting diverse areas of research. In addition, there were workshops, interactive poster sessions, competitive and non-competitive presentation opportunities for both students and post-docs, and student networking sessions.

Overall, the Plant Biotechnology Section had 172 abstracts for the 2013 meeting: 59 general abstract submissions; 44 invited speakers and 69 student abstracts. The number of general abstracts was down, but the number of student abstracts increased. The total number of registrants of the World Congress was approximately 359, with 251 of the participants choosing Plant Biotechnology as their primary interest. Approximately 30% of the attendees were international members.

The student and postdoctoral oral competitions continue to be a success, although the number of participants was low. Hong Luo and Rongda Qu coordinated the competitions, respectively and 13 abstracts were reviewed. For the student competition the judges were Dr. Mariya Nikolova Somleva, Dr. Jyoti Rout, and Dr. Sylvia Mitchell. Five abstracts were selected for the competition and the winners for the student competition were Deepak Kumar (Jawaharlal Nehru University) and Preeti Singh (Jawaharlal Nehru University) tied for 1st place; and Sergio Florez (Pennsylvania State University) for 3rd place. For the Postdoctoral competitions the judges were Dr. Nancy Reichert, Dr. C.S. Prakash Kumar, and Lisa Lee. First place went to Trudi Grant (The Ohio State University), 2nd place to Zhigang Li (Clemson University) and Rakesh Kumar Sinha (Agriculture and Agri-Food Canada) took 3rd place.

The student awards committee was chaired by Pam Weathers. The committee selected the following PBS awardees: The John S. Song Award: Deepak Kumar (Jawaharlal Nehru University); The Phillip White Memorial Award: Jessica Rupp (Kansas State University); Hope E. Hopp Award: and Ningning Zhang (Arkansas State University). The SIVB Travel awards went to: Ningning Zhang (Arkansas State University), Dinum Perera (Mississippi State University), Marten Peterson (State University of New York-Cobleskill), James J. Sadler (University of Florida), and RM Uththara Sachinthanie Senarat (Virgen Milagrosa University Foundation). Congratulations to all our recipients!

Three SIVB members were recognized at the 2013 Business Meeting. Sadanand Dhekney (University of Wyoming) was awarded the Young Scientist Award for his research on grape and fruit tree biotechnology. The Distinguished Service Award was presented to Sukhpreet Sandhu for her contributions to the Society. The 2013 PBS Fellow award was presented to PBS member Lisa Lee, for her outstanding contributions to both the Society and turfgrass biotechnology.

Valerie Pence and Ted Klein did a tremendous job in fundraising for the Section. The total contributed to the PBS section for the 2013 Meeting was $39,490. Contributors included Nunhems USA, Inc.; BASF Plant Sciences; Bayer Crop Science; Dow AgroSciences; Monsanto; Pioneer Hi-Bred; The Scotts Company; and the Samuel Noble Robert’s Foundation. An additional $14,000 grant was received from the USDA—Agriculture and Food Research Initiative, Plant Health and Production and Plant Products: Biology of Agricultural Plants (submitted by Sukhpreet Sandhu).

In Vitro–Plant continues to improve. John Finer, the Editor-in-Chief, reminds members about the fast track submission option for SIVB members and encourages all to submit their quality manuscripts to our journal. The 2014 meeting will be held May 31–June 4 in Savannah, Georgia and planning for the meeting is nearly complete. The PBS Program Chair (Valerie Pence), Sr. Co-Chair (Sukhpreet Sandhu), and Jr. Co-Chair (Hong Luo), have been hard at work with the rest of the Planning Committee to make this a productive meeting. We also have a new slate of officers who will be taking the helm. I would encourage all members to welcome them to their new posts and help them out if the need arises.

On behalf of myself and the out-going officers Michael Spencer ((PBS Co-chair) and Valerie Pence (PBS Secretary/Treasurer), I wish to thank everyone for giving us the privileged to serve as your PBS officers and hope to see you in Savannah.

Harold N. Trick
Plant Biotechnology Section Chair
hnt@ksu.edu
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**, New York Medical College.; **Ian Freshney**; **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**, Manzanar Project Foundation, and **Just Vlak**, Wageningen University.

The History Society and Records and Historical Committee supported the 2014 Lifetime Achievement Award nomination for David Barnes, PhD, Professor of Biology, Georgia Gwinett College, Atlanta, Georgia. Dr. Barnes’s scientific and major seminal contributions include >200 peer-reviewed publications, reviews, chapters and patents related to the study of cellular homeostasis, regulatory control and molecular characterization in neural stem cell, zebrafish and pufferfish (fugu) cell lines, as well as the developmental prototype serum-free mediums (SFM). This significant cell line work for the study of carcinogenesis and evolutionary-developmental genomics generated over 30,000 DNA gene expressed sequence tags that contributed to the National Center for Biotechnology Information Data Gene Bank (NCBI-GenBank) for which Dr. Barnes is recognized nationally and internationally.

In addition to Dr. Barnes’s pivotal pioneering role in the development of in vitro biology, he has actively contributed to the TCA/SIVB as an Associate Editor for *In Vitro Cell and Developmental Biology-Animal*, World Congress Scientific Advisory Board, Program Committee and symposium presentations for over 30 years and in 2004 was elected SIVB Fellow, Molecular and Comparative Biology.

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. Dr. Leonard Hayflick is actively looking to archive his extensive historical collection which includes phase contrast time lapse microphotography films made in the University of Texas, Galveston laboratory of Dr. CM Pomerat in the 1950’s. These films document the effect of the newly discovered adenoviruses on HeLa cells and the first high power oil immersion magnification of a complete mitosis from prophase through anaphase to telophase.

**Sandra L. Schneider**

*History and Records Committee Chair*

drsandra@stic.net
STANDING COMMITTEES

AWARDS

2013 was a great year for the SIVB Awards Committee. Our committee members took the initiatives to set up guidelines for award nomination, to evaluate candidate awardees at the society levels, and also participated in the survey required by the board for new award category suggestions made by society members. All of these activities promoted the SIVB as a whole to award the outstanding new and longtime members of our Society. In 2013 two long-term outstanding SIVB scientists won the “Lifetime Achievement Award”, Dr. Paul Price and Dr. William Smith. From the Plant Biotechnology section Dr. Lisa Lee won the “Fellow Award”. “Young Scientist Award” was established in 2009; but, has been paused for a quite while. In 2013, this award was resumed and went to two young scientists, Dr. Addy Alt-Holland and Dr. Sadanand Dhekney, who are both energetic in teaching and research in the academic setting. Five members in 2013 that were awarded the “Distinguished Service Award” by the SIVB President; they are: Eugene Elmore, Albert Kausch, Yvonne A. Reid, Sukhpreet Sandhu, and J. Denry Sato. There is one very special person who received the “President Award” in 2013, Dr. Michael E. Horn. Without the service efforts from these individuals it would be not possible for the society to have a successful In Vitro Biology congress each year.

In 2014 the SIVB Awards Committee continues working hard to fulfill our mission in the last months of our remaining 2013–2014 terms. We have finished the nomination process and discussed the qualifications for all the nominees for different award categories. We submitted our recommendations to the board for the final decisions on the Lifetime Achievement Award, Fellow Award and Young Scientist Award. The Awards Committee is very grateful to all of the 2013 and 2014 Award recipients as their efforts helped to sustain and advance our Society.

The Student Affairs and Awards evaluating committee this year consisted of Pamela Weathers (Chair), Craig Meyers, Argelia Lorence, Sylvia Mitchell, Cindy Goodman, and William Smith. The following awards were presented at the 2013 meeting.

Nguyen Vo, University of Waterloo, Canada, was granted the Wilton R. Earle Award and an SIVB Travel Award for “The Susceptibility of Walleye Cell Lines from the Spleen Stroma and Caudal Fin to Viral Hemorrhagic Septicemia Virus (VHSV).” Deepak Kumar of Jawaharl
Nehru University, India, was granted the John S. Song Award for the project entitled “Insights into the Role of α-Tocopherol in Plants: Multiple Abiotic Stress Tolerance via ROS Scavenging.”

The Hope E. Hopps Award and an SIVB Travel Award were won by Ningning Zhang, Arkansas State University for the study on “Engineering Hydroxyproline-O-Glycosylated Peptide Motifs in Hairy Roots for an Enhanced Bioproduction Platform.”

The Cellular Toxicology Award was granted jointly to Nicole Nole and Jana Suchtova of St. John’s University, NY for a project entitled, “Regulation of RNA Polymerase III Transcription by EGCG in Lungs.”

The Honor B. Fell Award and an SIVB Travel Award went to Sarah Gignac from Wilfrid Laurier University for “Characterization and Applications of Fundulus heteroclitus Embryonic Cell Lines to Ecotoxicology and Fish Health.”

The Joseph F. Morgan Award was won by Aaron Bender, University of Waterloo for his project on the “Development of Cell Lines from the Walleye Caudal Fin and Their Ability to Survive and Support Viral Hemorrhagic Septicemia Virus (VHSV) Group IVb Replication at Low Temperatures.”

The 2013 Philip R. White Memorial Award went to Jessica L. Rupp of Kansas State University for her study on “RNAi Mediated Viral Resistance in Transgenic Wheat.”

SIVB Travel Awards were also granted to: Dinum Perera, Mississippi State University, “Induced Mutations for Enhancing Variability of Giant Miscanthus (Miscanthus x giganteus)”; Marten Peterson, State University of New York, Cobleskill “Engineering Drought and Salt Tolerant Soybeans by Overexpressing AVP1, the Vacuole Proton Pump”; James J. Sadler, University of Florida, “Optimization of Cryopreservation Protocols for Shoot Meristem Tips of Sea Oats (Uniola paniculata)”; and RM Uththara Sachinthanie Senarath, Virgen Milagrosa University Foundation, Philippines, “Comparison of Larvicidal Effect of rhizomes of Tissue Cultured and Naturally Grown Plants of Kaempferia galanga (Zingiberaceae)”.}

Addy Alt-Holland received the 2013 Young Scientist Award for her work in In Vitro Animal Cell Sciences.

Sandanand Dhekney, standing with Dennis Gray, won the 2013 Young Scientist Award for his work in Plant Biotechnology.

Amy Wang, Awards Committee Chair amy.a.wang@gsk.com
Pamela J. Weathers Student Awards and Affairs Committee Chair weathers@wpi.edu
I would like to thank the members of the Constitution and Bylaws Committee for their input on these requests from the Board of Directors. Our contributing members this year were Kathryn Kamo (ARS USDA), Lisa Lee (Scotts), Todd Jones (Pioneer), Eugene Elmore (UC Irvine), and MaryAnn Lila (NCSU). We also had great suggestions from Barbara Doonan and Lia Campbell as we discussed these topics.

It's been a pleasure working with the committee members and I want to thank them again for their support over the past several years. I will be retiring this year from this position, and I leave this committee in the very capable hands of Stephanie DeWitte-Orr (Wilfrid Laurier University). She has been a silent partner in our conversations this spring as she awaits taking on the Chairmanship of this committee.

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

The 2013 Development Committee consisted of the following members: Addy Alt-Holland, Barbara Doonan, Eugene Elmore, Cindy Goodman, John Harbell, Valerie Pence, Sukhpreet Sandhu, J. Denry Sato, David Songstad, Harold Trick, Brad Upham, and Ted Klein (Chair).

Fundraising for the 2013 meeting generated $88,500 in contributions to support the SIVB meeting, including IVACS and PBS sections. These funds included $14,000 in a USDA/BRAGP/NIFA 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 2013 In Vitro Biology Meeting include: ATCC, Barbara Doonan, BASF Plant Science, Bayer CropScience, Conviron, Corning Incorporated, Dow AgroSciences, Dupont Pioneer, J. Denry Sato, JVBiologs, Monsanto Company, Nunhems USA, Inc., Robert and Gale Lawrence, The Samuel Noble Roberts Foundation, Inc., and The Scotts Company. The following organizations and individuals contributed to the 2013 Lifetime Achievement Awards: GibCo/Life Technologies, the International Foundation for Ethical Research, the National Anti-Vivisection Society, Merck Millipore, and Ventria Biosciences. 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 2013 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.

Ted Klein
Development Committee Chair
ted.m.klein@cgr.dupont.com

EDUCATION

The Education Committee’s mission has been 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 well on our way in achieving those goals with strong student representation; the re-instatement of the Advanced Tissue Culture Workshops; inclusion of additional training workshops and presentations; and students’ assistance in the website and social media tools.

At the 2013 Meeting, in addition to the Advanced Tissue Culture Workshop which focused on Best Practices in Plant and Animal Cell Cultures, the Education Committee presented an Educational Kits Demonstration Workshop which described how to implement multiplex measurement of cell viability, necrosis, and apoptosis from the same sample of cells using a standard multimode plate reader. Both sessions were successful and it is our hope that we will continue to be able to offer workshops of this nature to expand the skills of both our student and regular membership in the future.

The Student Committee congratulates all student award winners and thanks the society for their continued support and enthusiasm towards student development and achievement. The Student Committee Co-Chairs, Sydney Shaw and Jeff Kwak, convened several sessions for the 2013 annual meeting in Providence, RI. In reflection of the membership's interest in students, both Student Networking Symposium discussing "Staying Current in Your Field" and Student Networking Luncheon were well attended by both professionals and students. The participating symposium panelists provided excellent insights for young scientists from both Plant and Animal sections, and the luncheon provided another opportunity for...
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, JHarbell Consulting, LLC.; 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, Rudd & Associates; Lynn Rutsky; 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 regulation of diagnostic products for personalized medicine is one of the hottest debated and contentious industry issues due largely to the multiple regulatory agencies with varying standards. Following the U.S. Department of Food and Drug Administration (FDA) announcement in regulating diagnostic tests providing personalized medicine clinical care, interested stakeholders responded on “whether the FDA can and should expand its jurisdiction to laboratory developed tests (LDTs) performed by clinical laboratories”. The Personalized Medicine Coalition (PMC) has issued a white paper explaining the current regulatory oversight of LDTs and contrasts their regulation with FDA regulated diagnostic tests. This PMC publication “Personalized medicine Regulation: Pathways for Oversight of Diagnostics” establishes the baseline knowledge of diagnostics regulation and sets the groundwork for organizational, industry and government discussion and collaboration.

Sandra L Schneider
Laboratory Materials and Biosafety Co-Chair
drsandra@stic.net
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.

The SIVB has a long term record of providing the highest quality scientific programs that provide scientific incentives to attract new members including student members, who hold the key to the Society’s future, by providing insights into current and future scientific advances in the field of in vitro biology. With the considerable effort on the national and international levels to develop in vitro models that reflect in vivo function for use in evaluating potential efficacy and toxicity, our Society can play an important role in educating those participating in this effort as to the critical role that good cell culture practices plays in the generation of valid scientific data required for the long term success. The SIVB needs to provide outreach to science to ensure the quality of the cell biology is sufficient to ensure that the considerable financial and scientific resources invested in this effort are well spent. 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 on the best practices for in vitro biology. We need to encourage educational outreach programs via various mechanisms including: web-based training and educational workshops. The SIVB has taken 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.

Offering regular workshops on basic and applied tissue culture methods and ultimately providing a certification program for in vitro biology, which includes all key aspects of both animal and plant in vitro biology, will provide a mechanism for sharing valuable information on practical aspects of good cell culture practices.

To ensure the long-term success for the SIVB, 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. Our individual members play an important role in promoting the SIVB and encouraging attendance at our meetings and membership in the Society.

While the social events are enjoyable, the real success of our meetings is the science. Attendees from around the world come to present posters of their work.
Another goal of the LRPC is to develop a Strategic Plan for the Society. The general comments are being considered and incorporated in the final plan for consideration by the Board.

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 Roberta Smith Endowment Fund, the Michael Horn Endowment Fund, and the Fund for the Future. Our endowments allow members to participate in the Society’s core mission. We encourage everyone to contribute to this important effort.

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) 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

MEMBERSHIP

Membership numbers are slightly lower this year at 497 compared with last year at 545. Our member initiatives are still in place. We will have a special drawing for members who renew their membership before December 31, 2013. Prizes included a Kindle Fire HDX, one year of SIVB membership and a $50 gift card. Winners will be announced at the 2014 World Forum on Biology meeting in Savannah, Georgia.

SIVB is in the process of updating our website which will help people surfing the net to get know our organization. SIVB is still pursuing social marketing to spread the word about our Society and its benefits. SIVB has a Facebook page that receives regular updates keeping our members and non-members informed about what is happening in the Society. These updates are also posted to our Twitter account. SIVB is also a member of LinkedIn and has over 1000 members associated with our site on LinkedIn from a range of industries and organizations.

The membership committee was reorganized last year in order to have a more effective committee to pursue the maintenance of our membership and also to encourage new members. The Board also recently decided to appoint a new Chair that will not be the Secretary. It was felt that the Secretary already had other duties and a separate Chair for membership would allow this person to turn all of their focus to pursuing and keeping our membership in SIVB. A new membership Chair will be assigned at the Board meeting in June.

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

The SIVB Nominating Committee consisted of William Smith (chair), Harold Trick (PBS), Wayne Parrott (PBS), Brad Upham (IVACS) and Lucy Lee (IVACS). The Nominating Committee developed a slate of candidates for open Board of Director positions and Section officers that were up for election in 2013. The slate of candidates was presented to the SIVB Board of Directors at the October, 2013 board meeting and the list of candidates was approved. The election of new SIVB officers was held at the end of 2013.

The results of the election are:

**SIVB Officers and Committee Chairs**
- President Elect: Dwight Tomes
- Vice President: Allan Wenck
- Secretary: Michael J. Fay
- Treasurer: Barbara B. Doonan
- Member-at-Large: Fredy Altpeter
- Member-at-Large: J. Denry Sato
- Publications Chair: Barbara M. Reed
- Public Policy Chair: Nancy Reichert
- Awards Chair: Kan Wang
- Constitutions and Bylaws Chair: Stephanie DeWitte-Orr
- Education Chair: Vivian Dayeh

**In Vitro Animal Cell Sciences Section**
- Chair: Addy Alt-Holland
- Vice Chair – Meeting: Michael K. Dame
- Vice Chair – Membership: Magnolia Ariza-Nieto
- Secretary: Patrick McNutt

**Plant Biotechnology Section Officers**
- Chair: Joseph F. Petolino
- Vice Chair: Ian S. Curtis
- Secretary: Prakash P. Kumar

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

SIVB acknowledges the exhibitors whose support of the annual meetings are essential. Pictured are Ken and Janet Torres from PhytoTechnology Laboratories.

PROGRAM

The 2013 Society for In Vitro Biology meeting was held from June 15 to June 19 at the Omni Providence Hotel and the Rhode Island Conference Center in Providence, RI. This first SIVB annual meeting to be held in New England since 1973 featured scientific and technological advances in both animal and plant in vitro biology in sessions organized by Drs. Zeng-Yu Wang and Addy Alt-Holland, the Program Chairs for the Plant Biotechnology (PBS) and In Vitro Animal Cell Sciences (IVACS) sections. The Keynote speaker was Dr. Steven Briggs (UC San Diego), who described his efforts to use proteomics to build an atlas of protein expression to understand the regulation of networks of interacting proteins (proteotypes) in different developing plant tissues. Following the Keynote Address, President David Songstad presented the SIVB Lifetime Achievement Award to Dr. Paul Price for his work on developing specialized mammalian cell culture media and to Dr. William J. Smith for his work on elucidating cellular responses to chemical warfare agents. Dr. Lisa Lee (PBS) received the SIVB Fellow Award while Drs. Addy Alt-Holland (IVACS), Stephanie DeWitte-Orr (IVACS) and Sadanand Dhekney (PBS) received 2013 Young Scientist Awards. Distinguished Service Awards were presented by David Songstad to the following for contributions to the 2013 In Vitro Biology meeting: Eugene Elmore, Albert Kausch, Yvonne Reid, Sukhpreet Sandhu, and J. Denry Sato.

In furtherance of the Society’s education mission Drs. Yvonne Reid, Albert Kausch and Gene Elmore organized a one-day accredited workshop entitled "Best Practices in Plant and Animal Cell Cultures," which was very well attended. Additional special scientific events organized by the local organizing committee chaired by Dr. Pamela
Weathers included a tour of the Worcester Polytechnic Institute's Biomanufacturing Education and Training Center, and a tour of the Woods Hole Oceanographic Institute and the Marine Biological Laboratory in Woods Hole, MA. To support future meeting attendance by postdoctoral fellows David Songstad started the Mike Horn Endowment Fund. This fund joins a number of others set up by the SIVB to encourage attendance and participation by students in the Society's annual meeting. 

There were a total of 400 registered attendees at the 2013 meeting, which included speakers, participants and exhibitors. By comparison, there were 429 registrants at the 2012 World Congress on In Vitro Biology in Bellevue, WA. There were 74 speakers at the meeting, and 248 abstracts were presented. It was gratifying to see that thirty-five percent of the abstracts were submitted by students. In closing the 2013 Program Chair would like to thank the meeting sponsors, the exhibitors and Dr. Sukhpreet Sandhu, who wrote a funded USDA Biotechnology Risk Assessment grant: your financial support contributed greatly to the successful outcome of the 2013 In Vitro Biology meeting.

J. Denry Sato
2013 Program Chair
denrysato@aol.com

Interactive poster sessions continue to be one of the highlights of the exhibition.

The 2013 Program Chair would like to thank the meeting sponsors, the exhibitors and Dr. Sukhpreet Sandhu, who wrote a funded USDA Biotechnology Risk Assessment Grant: your financial support contributed greatly to the successful outcome of the 2013 In Vitro Biology meeting.

David Songstad thanks Keynote Speaker Steven Briggs for his participation at the 2013 In Vitro Biology Meeting.

Dave Songstad fires the cannon as part of the ceremony at the Tuesday evening at Squantum Association.
PUBLICATIONS

The *In Vitro Cellular and Developmental Biology* Journals are finding more problems with plagiarism and further efforts are being made to detect problems. We will work to educate authors about what constitutes plagiarism and how to avoid it. Our reviewers and associate editors are providing rapid reviews, allowing our authors a faster turnaround time. We hope to improve our impact factors in the next few years with timely reviews and special issues. 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 submit your manuscripts and recommend our journals to your colleagues.

**In Vitro – Animal**

(For the year 3/1/13 through 2/28/14)

The journal experienced an increase (6.5%) in total submissions of new manuscripts over the comparable period last year (247 compared to 232 in 2012–2013) showing a second year of increased submissions. The numbers of submitted manuscripts for the past year compared to the prior year were: 215 regular papers (194 in 2012–2013), 24 Reports (32 in 2012–2013), 3 Reviews (5 in 2012–2013), 5 opinion Letters-to-the-Editor (1 in 2012–2013), and no book reviews (0 in 2012–2013). Of the 247 submissions, 89 (36%) were accepted (45.4% acceptance rate), 107 (43.3%) rejected, 9 (3.64%) withdrawn, and 42 (17%) still in review or revision.

In addition to the USA, 30 countries were represented in the submissions received in 2013/2014. Average time from receipt to first decision in the review process was 4.59 weeks compared to 5.71 weeks overall last year. All new submissions were received through the online system.

The *In Vitro–Animal* journal is back to publishing 10 individual issues at page budget levels and continues to publish on schedule. The 2012 impact factor for IVA was 1.289, which is slight decrease from the 2011 impact factor of 1.312. 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 and North American research communities.

*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 pluripotent stem cell biology, tissue engineering, cell signaling, and methods development for cell line characterization.

In the past year several submissions included irregularities (eg. duplication, manipulation or misrepresentation of data) that were discovered by editors, reviewers or readers. IVA will take quick and decisive action in such cases to maintain the integrity of the journal and to retain the trust of its authors.

**In Vitro – Plant**

For *In Vitro – Plant*, in 2013, we continue to work toward increasing both the quality and the number of accepted manuscripts. Both SIVB Editor-in-Chief, John Finer, and IAPB Editor-in-Chief, John Forster, work with their Associate Editors to hand off final manuscripts to Springer. The impact factor of the journal unfortunately decreased from 1.497 in 2011 to 1.139 in 2012. The higher impact factor in 2011 was influenced by the highly successful Biofuels issue, which was published in 2009. The special issue on Biodiversity published in 2011 has not garnered the same number of citations and the impact factor has fallen back to the level that we had in 2010. A number of the articles in the Biofuels issue were very highly cited, slightly increasing the impact factor in 2011. As keeping a high impact factor is important to the standing of the journal and the society, efforts will continue to increase the number of invited reviews, plan additional special issues, and increase the quality of the regular scientific manuscripts.

In 2013, a total of 77 manuscripts were published in volume 49 of which 32 were published the IAPB (International Association of Plant Biotecology) issues of the journal. These numbers represent a slight increase compared to the previous year. The total number of submissions increased from 458 in 2012 to 480 for 2013, while the acceptance rate increase from 14.6% in 2012 to 21.5% in 2013. The rejection rate remains quite high, and many manuscripts are rejected without review. The average days to acceptance dropped by an additional 60 days in 2013 compared to 2012, in addition to the 50 day reduction in acceptance time in 2012 compared to 2011. The Associate Editors are acknowledged for reducing the accept decision time by 110 days over the past 2 years.

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.l@osu.edu) and John Forster (John.Forster@dpi.vic.gov.au) directly. Society members are strongly encouraged to submit their research results to *In Vitro – Plant*.  

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**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 SUBMIT YOUR MANUSCRIPTS AND RECOMMEND OUR JOURNALS TO YOUR COLLEAGUES.**
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. Prior to each issue, an email notification is sent out to the membership to solicit contributions for the SciNews and ExPlants membership news section of the In Vitro Report. The SciNews and ExPlants sections are now 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 current goal is to identify strategies for increasing the number of submissions for the Membership Profile feature. 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, a new members welcome, election results, 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).

Barbara M. Reed, Publications Committee Chair
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Michael J. Fay
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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 assist in promoting scientific policy in national and international arenas. Recent examples of these efforts include alerting the membership to the following issues, and collective responses (petitions), regarding the destruction of Golden Rice fields and the Food and Drug Administration’s development of a science-based food labeling policy. The committee has also worked with the SIVB Board of Directors on mechanisms of oversight and buy-in that will ensure we speak with one voice, yet are able to respond quickly.

The SIVB has allies in these endeavors as we are members of: American Association for the Advancement of Science (AAAS), American Institute of Biological Sciences (AIBS), Council for Agricultural Science and Technology (CAST; Nancy Reichert serves on their Board of Representatives), Coalition on the Public Understanding of Science (COPUS), and International Foundation for Ethical Research (IFER).

As we all know, a critical part of science is to accurately and effectively convey information while keeping the audience in mind. Since students represent the future of science, the planned student symposium “Effectively Communicating Science” to be convened at the 2014 World Forum on Biology in Savannah is extremely important to us all. Speaking of students, we welcomed Sydney Shaw as our newest committee member; she is a graduate student at Northeastern University.

As always, consider yourself an ad hoc member of this committee and always feel free to forward items you think we should alert other members to and/or respond to as a Society.

Nancy Reichert, Public Policy Chair
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Todd Jones
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Sydney Shaw
Northeastern University
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Currently, there is no National Correspondent for the US Chapter of the IAPB; however, it is expected that a new IAPB USA representative will be chosen at the 13th World Congress being held in Melbourne, Australia from August 10–15, 2014. 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.

The issue of using misidentified cell lines in basic and applied research remains a major concern for researchers in the life sciences. In early 2014, the ATCC Standards Development Organization (SDO) formed an International Workgroup to develop a written consensus standard to provide guidance on the use of COI (DNA barcoding) for authenticating animal cell lines. The workgroup is chaired by Dr. Robert Hanner, Associate Director, Canadian Barcode of Life Network and co-chaired by Dr. Yvonne Reid, Manager, Scientist, Cell Biology Program, ATCC. It is the intent of this standard to improve the quality of published research through the use of authenticated cell lines. For more information, please visit the ATCC SDO website –

http://standards.atcc.org/kwspub/home

Yvonne Reid
Representative of ATCC
YREID@atcc.org

The Society for In Vitro Biology is a member of CAST, which is a nonprofit 501(C)(3) organization composed of individual members and representatives from scientific societies, nonprofit and trade organizations, and commercial companies. CAST addresses issues surrounding animal, plant and food sciences, and agricultural technology including biotechnology. Their mission: “CAST assembles, interprets, and communicates credible science-based information regionally, nationally, and internationally to legislators, regulators, policymakers, the media, the private sector, and the public.” One of their recent Issue Papers discussed impacts on food availability when using the precautionary principle in making risk management decisions. A complete list of their materials: http://www.cast-science.org/publications/. As a member of CAST, we have a seat at the table of their Board of Representatives, and are expected to provide input regarding the types, and content, of credible science-based information. As such, we are asked to propose topics for new publications and provide a list of experts in those fields who could contribute. Feel free to contact me with your suggestions.

The 2013 Annual Meeting of the CAST Board of Directors and Board of Representatives took place in Atlanta, GA, October 29–31. Dave Songstad, SIVB President, is serving as the President-Elect of CAST, so our Society will continue to be well-represented in this organization.

Nancy Reichert
CAST Board of Representatives, SIVB
nar1@msstate.edu
TREASURER'S SUMMARY REPORT
SOCIETY FOR IN VITRO BIOLOGY

STATEMENTS OF FINANCIAL POSITION
DECEMBER 31, 2013 AND 2012

ASSETS

<table>
<thead>
<tr>
<th></th>
<th>December 31,</th>
<th>December 31,</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2013</td>
<td>2012</td>
</tr>
<tr>
<td><strong>Current Assets:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash</td>
<td>$459,423</td>
<td>$414,722</td>
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<tr>
<td>Accounts Receivable</td>
<td>1,690</td>
<td>17,431</td>
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<tr>
<td>Prepaid Expense</td>
<td>39,218</td>
<td>49,321</td>
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<tr>
<td><strong>Total Current Assets</strong></td>
<td>500,331</td>
<td>481,474</td>
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<tr>
<td><strong>Other Assets:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investments</td>
<td>172,677</td>
<td>145,956</td>
</tr>
<tr>
<td><strong>Total Other Assets</strong></td>
<td>172,677</td>
<td>145,956</td>
</tr>
<tr>
<td><strong>Total Assets</strong></td>
<td>$673,008</td>
<td>$627,430</td>
</tr>
</tbody>
</table>

LIABILITIES AND NET ASSETS

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current Liabilities:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounts Payable</td>
<td>$1,099</td>
<td>$4,985</td>
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<tr>
<td>Other Accrued Expenses</td>
<td>742</td>
<td>990</td>
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<tr>
<td>Deferred Dues and Subscriptions</td>
<td>37,465</td>
<td>31,970</td>
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<tr>
<td><strong>Total Current Liabilities</strong></td>
<td>39,306</td>
<td>37,945</td>
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<td><strong>Net Assets:</strong></td>
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<tr>
<td>Unrestricted</td>
<td>347,607</td>
<td>309,234</td>
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<tr>
<td>Temporarily restricted</td>
<td>286,095</td>
<td>280,251</td>
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<tr>
<td><strong>Total Net Assets</strong></td>
<td>633,702</td>
<td>589,485</td>
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<tr>
<td><strong>Total Liabilities &amp; Net Assets</strong></td>
<td>$673,008</td>
<td>$627,430</td>
</tr>
</tbody>
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**TREASURER’S SUMMARY REPORT**

**SOCIETY FOR IN VITRO BIOLOGY**

**STATEMENTS OF ACTIVITIES**
**FOR THE YEARS ENDED DECEMBER 31, 2013 AND 2012**

<table>
<thead>
<tr>
<th>Revenue:</th>
<th>December 31, 2012</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unrestricted</td>
<td>Temporarily</td>
</tr>
<tr>
<td>In Vitro-Animal</td>
<td>$99,213</td>
<td>$ -</td>
</tr>
<tr>
<td>In Vitro-Plant</td>
<td>$54,491</td>
<td>-</td>
</tr>
<tr>
<td>Newsletter</td>
<td>$6,480</td>
<td>-</td>
</tr>
<tr>
<td>Meetings</td>
<td>$163,074</td>
<td>$59,535</td>
</tr>
<tr>
<td>Horn Endowment Fund contributions</td>
<td>-</td>
<td>$5,495</td>
</tr>
<tr>
<td>Administrative</td>
<td>$36,218</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total revenue</strong></td>
<td><strong>359,476</strong></td>
<td><strong>65,030</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Program services:</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>In Vitro-Animal</td>
<td>$5,840</td>
</tr>
<tr>
<td>In Vitro-Plant</td>
<td>$8,922</td>
</tr>
<tr>
<td>Annual meeting</td>
<td>$83,681</td>
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<tr>
<td><strong>Total program services</strong></td>
<td><strong>98,443</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supporting services:</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Administrative</td>
<td>$222,400</td>
</tr>
<tr>
<td><strong>Total expenses</strong></td>
<td><strong>320,843</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Change in net assets before unrealized gain/(loss) on investments</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Change in net assets before unrealized gain/(loss) on investments</td>
<td>$38,633</td>
</tr>
<tr>
<td>Unrealized gain/(loss) in fair value of investments</td>
<td>(260)</td>
</tr>
<tr>
<td>Change in Net Assets</td>
<td>$38,373</td>
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<tr>
<td>Net assets, January 1</td>
<td>$309,234</td>
</tr>
<tr>
<td>Net assets, December 31</td>
<td>$347,607</td>
</tr>
</tbody>
</table>