President’s Report

During 2004, the SIVB changed Presidents after the conclusion of the Congress in San Francisco. This will be the last time that an incoming President doesn’t take office at the meeting following elections. The membership, by more than a 90% yes vote, approved a set of revisions to the Bylaws and Constitution that will correct this obstacle to appropriate management, along with a number of additional revisions. These significant modifications are more than cosmetic because several approved clauses save substantial funds by reversing expenditure requirements, which are no longer suitable for the present size and management structure of the current SIVB.

The second item to highlight is the reversal of deficit spending that has been a frequent pattern for the SIVB. The present Board and Officers are absolutely committed to a balanced budget, even if some temporary belt tightening that cuts into services is the consequence. In this day and age, with the limited reserves now available, this group of officers and Board passed a balanced budget starting in July 2004 and will remain dedicated to a fiscally responsible position.

Third, the student initiative, started by the previous Long Range Planning Committee, produced a notably different character for our annual meeting. At San Francisco, approximately 100 students took advantage of free student registration and a one-year trial membership in the SIVB. Society membership, by the end of 2004, had increased by about 10%, reversing a disturbing trend from previous years. The student influx gave vibrancy to our meeting and brought us closer to the SIVB’s core mission. This initiative also inspired several corporate members to make an extraordinary contribution, which is being leveraged to obtain additional federal dollars for our efforts.

This Annual Report provides information on these three accomplishments during the tenure of your new officers and Board, but other business of the SIVB could be similarly lauded. In fact, although endeavors are related in this President’s Report and other reports, achievements are the result of combined efforts of many individuals and committees composed of dedicated volunteers. Let’s continue the effort to represent our science and to foster the environment, which can make our service vital to leadership of our profession. Thanks to everyone for your generous support.

David W. Altman, President
president@sivb.org
Secretary’s Report

2004 was a transition year for the office of Secretary. Barbara Reed’s double term (four years) ended after San Francisco’s World Congress on In Vitro Biology. Her accomplishments as Secretary and Chair of the Membership Committee are notable. During this time, the extremely popular student program for free meeting registration (includes free membership the following year) was initiated and continues to be extremely popular. Over 50 students took advantage of this offer in 2003 and 2004!

Following in Barbara’s footsteps, I have come to look at the role of Secretary as being a resource person for all members including the SIVB Office, Section Officers and the Board of Directors. A goal I worked on long before I ran for Secretary was to have the minutes of the Board of Directors meetings be made available to all members, a goal I hope will be accomplished in the near future. (Little did I know I was proposing future work for myself!) Feel free to continue contacting me with your questions, comments and concerns. If I can’t help you, I will find the appropriate person who can.

Nancy A. Reichert, Secretary
nreichert@pss.msstate.edu

Treasurer’s Report

The society has once again struggled to maintain a strong fiscal outcome for 2004. We started 2004 with a net deficit of $120,510 and we ended the year with a deficit net asset of $196,900. While the numbers are still discouraging, there are positives that can be derived from these results. Through the efforts of the Board of Directors, the Finance Committee and the Development Committee, the deficit was not as large as was forecast at the beginning of 2004. This was a result of the meeting being a financial success (no significant loss) and other cost saving measures that were implemented. It is critical that the Society recognizes the financial situation and takes all necessary steps to continue to move towards a positive net cash flow. The Board of Directors, under the direction of President David Altman, and the entire management staff are working diligently to assure that we have a balanced budget for 2005. We are continuing to find ways to cut our costs and the finance committee and the Board are working diligently to identify areas of cost savings as well as identify potential sources of revenue. The major issue continues to be our decline in membership and meeting attendance. As in the previous year, it will be critical to increase our revenues through our membership, publications, and annual meeting. As I stated in last year’s report, in order to bring the Society back into a positive cash flow, it is imperative that we all continue to work together to find ways to increase our revenue and contain our costs. This will obviously require some dedication from our membership. I would like to again commend the efforts of the section chairs and their membership as well as the development committee for their efforts in finding ways to resolve our current financial situation. Our Development Committee Chair, has initiated a capital campaign to build an endowment that hopefully will be instrumental in helping the Society survive and grow. The 2004 Annual Report includes a Treasurer’s Summary Report consisting of a Statement of Financial Position and Statement of Activities for the year. The full report is available from the Business Office.

Richard Heller, Treasurer
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Business Office Report

The Business Office activities focused on the 2004 World Congress on In Vitro Biology, the 11th International Invertebrate Conference, publications, and membership. The 2004 World Congress on In Vitro Biology was held in San Francisco, CA from May 22 – 26, 2004 at the Hyatt Regency – San Francisco. The 2004 World Congress highlighted Dr. Kary B. Mullis, PhD, Burstein Technologies, 1993 Nobel Laureate for Chemistry for the Discovery of the Polymerase Chain Reaction. He spoke on The Challenge and Approach of Today’s Disease/Pathogen Drug Treatments. Also, there were acknowledgements for the lifetime achievement awardees: Thomas Grace, PhD, Walter Nelson-Rees, PhD, and Trevor A. Thorpe, PhD during the keynote session. These emeritus scientists were being honored for their years of exemplary research, achievements, and pioneering contributions to the field of cell culture. The Lifetime Achievement Award presentation for Dr. Grace took place during the 11th International Invertebrate Conference on Saturday, May 22. The Lifetime Achievement Award presentation for Dr. Nelson-Rees and Dr. Thorpe took place at special luncheons on Tuesday, May 25.

In 2004, the first Vertebrate and Cellular Toxicology Fellow Awards were presented. The Cellular Toxicology Fellow Awards were presented to: Eugene Elmore, PhD; John Harbell, PhD; Richard Heller, PhD; Paul Price, PhD; Elizabeth J. Roemer; Colette J. Rudd, PhD; Lynn Rutsky, PhD; Sandra L. Schneider, DrPH; Leonard J. Schiff, PhD; William J. Smith, PhD; and Alda Vidrich, PhD. The Vertebrate Fellow Awards were presented to: Delia Bethell, PhD; Gertrude C. Buehling, PhD; Robert J. Hay, PhD; and Wallace L. McKeehan, PhD. Additionally, the Plant Biotechnology Section presented the Plant Fellow Award to Gregory C. Phillips, PhD and the Invertebrate Section presented Invertebrate Fellow Awards to Cynthia Goodman, PhD; Robert Graham, PhD; Lemma G. Haddad, PhD; and Raziel Hakim, PhD. The Society also honored J. Denny Sato, PhD; Shirley Pomponi, PhD; David Jayme, PhD; and Gordana Junjaku-Novakov, PhD with the Senior Investigator Award.

Special pre-meeting workshops were held on “Using Cell-based Model Systems in Assays and Basic Research: A Workshop in Practical Methods” and “Funding Fundamentals: How To Get The Grant You Want.” Special events held during the Congress were: a cruise on the San Francisco Bay on May 23, 2004, a Fun Run/Walk on May 25, 2004, and a silent auction which ended on Tuesday, May 25, 2004.

At the 2004 World Congress on In Vitro Biology, the attendance reached 535. There were 224 members, 20 non-members, 34 post docs, 5 emeritus, and 3 one-day registrants. Also, there were 206 student registrants, 17 volunteers, and 113 speakers. For the second year, SIVB offered all students free registration to the scientific sessions of the 2004 World Congress and free membership to the Society in 2005. The 2005 In Vitro Biology Meeting focuses on issues pertinent to Plant and Animal research and will give participants a unique learning experience on plant and animal cell culture and biotechnology. The Hyatt Regency Baltimore will be the site of the 2005 In Vitro Biology Meeting. This downtown luxury hotel, centrally located on the Inner Harbor, is one of the city’s foremost hotels.

An open skywalk connects it to the Baltimore Convention Center and the multiple shops and restaurants at Harborplace. Attractions are within walking distance, including the National Aquarium in Baltimore, Maryland Science Center, Port Discovery, Oriole Park at Camden Yards and M&T Ravens. Our hotel offers incredible views, luxurious comfort and superb service at an unmatched location. With every amenity you could ask for, Hyatt Regency Baltimore is the pinnacle of Inner Harbor hotels.

The 2005 In Vitro Biology Meeting will highlight Dr. Robert S. Langer, ScD, Professor of Chemical and Biomedical Engineering at the Massachusetts Institute of Technology and winner of the 2002 Charles Stark Draper Prize. The Draper Prize is awarded for technology that promises to advance the quality of human life. He will be presenting, “Advances in Tissue Engineering.” Also, there will be presentations of the Lifetime Achievement Awards during the meeting to Dr. Oluf Gamborg, PhD and Dr. Rober S. Langer, ScD. David D. Songstad, PhD and David Ellis, PhD are to receive the SIVB Fellow Award. There are additional awards winners being finalized at this time.

Arrangements have been finalized for a tour of the USDA/BARC facility on Saturday, June 4, 2005. Additionally, the 2005 Charm City Silent Auction will begin during the Opening Reception on Saturday, June 4, and continue on Tuesday morning, June 7, 2005. Lastly, attendees will be invited to enjoy a special elegant evening on Tuesday, June 7, at the National Aquarium of Baltimore.

The Business Office’s Publications Department continued to evolve during the year. The Business Office continued to partner with both CABI Publishing and Allen Press to publish the In Vitro Cellular and Developmental Biology journals and worked closely with the Publications Committee to assist in keeping the Committee abreast of the current state of the publications industry and future publishing opportunities. In 2004, the In Vitro Cellular and Developmental Biology – Plant was involved the BioOne consortium for its first full year and looks to show a modest income for the year. Issues began showing up on the BioOne site in December 2003. To adjust to the current market, In Vitro Cellular and Developmental Biology – Plant continued to push for an online manuscript system, which now looks to be implemented by the end of 2005. CABI continues to expand the Plant journal into international markets and increase its visibility throughout the world. The In Vitro – Animal journal continues to grow in online visibility. To assist in the Animal journal’s drive for more papers, SIVB instituted an ASAP site, which went active on April 8, 2003. To assist in its visibility, in 2004, the home page of the Animal journal was updated to provide a visible graphic that lists the most recent ASAP paper available. As part of the consortium with BioOne and its online journals, In Vitro – Animal has shown growth in additional online subscription income. In Vitro – Animal has continued to have articles listed in the top 25 most requested articles’ list in BioOne. The Society also displays abstracts from its published Animal journals on the PubMed website the day after their appearance on the ASAP site or upon publication.

To further increase the visibility of the Animal journal, the Business Office continued advertising the recent updates in the publications. SIVB published a Call for Papers of the journal through BioSpace. The Business Office continued its heavy campaign to activate online access to all library subscriptions who had eligibility for online access, but had not forwarded the appropriate information to activate the service. As a reminder, for eligible members wishing to...
Cellular Toxicology & Vertebrate Sections

The 2004 World Congress of the Society for In Vitro Biology in San Francisco, California had very active collaboration between Cellular Toxicology and the Vertebrate Section to bring about a timely and informative scientific meeting. An exciting array of Sessions-In-Depth, Contributed Papers, and Interactive Poster Sessions were presented.


The Cellular Toxicology and Vertebrate Sections presented a number of awards at the 2004 World Congress. The Lifetime Achievement Award was presented to Dr. Walter Nelson-Rees for his work on exposing the problem of cross-contamination of cell lines. The first Fellow Awards were presented for the Cellular Toxicology and Vertebrate Sections to members who have made outstanding contributions in the area of Vertebrate science research, teaching, or administration. They were presented from the Cellular Toxicology Section to: Eugene Elmore, PhD; John Harbell, PhD; Richard Heller, PhD; Paul Price, PhD; Elizabeth J. Roemer, Colette J. Rudd, PhD; Lynn Rutsky, PhD; Sandra L. Schneider, DrPH; Leonard J. Schiff, PhD; William J. Smith, PhD; and Alda Vidrich, PhD, and from the Vertebrate Section to: Delia Bethell, PhD; Gertrude C. Buehring, PhD; Robert J. Hay, PhD; Wallace L. McKeehan, PhD; David W. Barnes, PhD; Elliot M. Levine, PhD; Craig Meyers, PhD; Yvonne A. Reid, PhD; Gretchen J. Darlington, PhD; and Warren L. Schaeffer, PhD. Two additional awards were given for work in the field of Toxicology. The Toxicology Section awarded the annual Cellular Toxicology Student Award to Stephanie DeWitt-Orr from the University of Waterloo for the interesting and very timely study entitled “Capacity of Fish Cell Lines to Undergo Apoptosis in Response to Two Toxicants: Gliotoxin and Copper.” She was also awarded the Joseph F. Morgan Award, which provides travel funds for Canadian students to attend the Annual Meeting of the SIVB, and the Honor B. Fell Award. The Hope E. Hoppes Award and Student Travel Awards were presented to Krist Snyder from Binghamton University for her presentation entitled, “Hypothermic Storage of Neonatal Mammalian Cardiomyocytes: Assessment of Multiple Markers of Viability.” The Toxicology and Vertebrate Sections appreciate the efforts of all who submitted their work for consideration. All are winners!

The annual business meeting was held jointly with the Cellular Toxicology and Vertebrate Section. The 2005 Meeting program dominated the discussion and by meeting’s end a program outline emerged. The 2005 Meeting program will include more Plenary Symposia and workshops on such topics as stem cells, RNA interference, tissue engineering, biosensors, proteomics and transfection.

On behalf of the Cellular Toxicology and Vertebrate Program Committees, we thank you for your attendance of the 2004 World Congress and participation in its program and many activities. We appreciate your continued support of the mission and objectives of the Toxicology and Vertebrate Sections and of the SIVB. See you all again in 2005.

Gordana Vunjak-Novakovic, Chair, Vertebrate Section gordana@mit.edu

William J. Smith, Chair, Cellular Toxicology william.smith@amedd.army.mil

Marietta Wheaton Ellis, Managing Director sivb@sivb.org

Exhibitors at the 2004 World Congress meet with the attendees.

(L to R) Alda Vidrich, Colette Rudd, Gertrude Buehring, and Sandra Schneider at the 2004 World Congress Awards Banquet
Fisherman's Wharf, the infamous Alcatraz, and the majestic Golden Gate bridge were the backdrop to the 11th International Conference on In Vitro Biology May 22-26, 2004 in San Francisco, CA. The conference was chaired by Amy Wang (GlaxoSmithKline) and co-chaired by Guy Smagge (Ghent University) The Invertebrate Program Committee consisted of Cynthia Goodman (USDA-ARS-BCIRL), Robert R. Granados (Boyle Thompson Institute for Plant Research), Raziel S. Hakim (Howard University) J. Denny Sato (Mount Desert Biological Laboratory), Dwight Lynn (USDA), Marcia Loeb (USDA), Jun Mitsuhashi (Tokyo University Agriculture), Karl Maramorosch (Rutgers University), and K. J. Magaratha Vally (Texas A&M University).

The Keynote Symposium and Opening Session "Molecular Engineering and Biology of Invertebrate Cell Cultures: A Tribute to Dr. Thomas Grace and Professor Shangyin Gao," was convened by Robert R. Granados, Karl Maramorosch, and Amy Wang on Saturday May 22nd. Itائد the talks by Dr. Thomas Grace and Prof. Shangyin Gao (Z-Y Gaw) for their exceptional achievements in the field of invertebrate cell culture. Their efforts have resulted in scientific and commercial applications of insect cell culture. As in other discoveries this past century Prof. Shangyin Gao in Wuhan, China in 1958 and Tom Grace in Canberra, Australia in 1962 developed their insect media independently. These two scientists never met and they were unaware of each other's work; yet they shared outstanding talents as creative inventors. Their contributions have permitted development of the field of insect biotechnology and has influenced virtually all subsequent research dealing with insect cell culture. Without their contributions no achievement in modern molecular invertebrate cell culture would have been possible. 

The symposium was introduced by Amy Wang as she welcomed all to the session. Karl Maramorosch led into the introduction of Dr. Grace with his talk entitled "Seminal Research Contributions by T. Grace and S. Gao". He was followed by the "Presentation of Historical 1963 Film: Insect Tissue Culture by Dr. Grace" (CSIRO Entomologist (ret.), Canberra, Australia). Following contributors included: Zhihong Hu (Wuhan Institute of Virology) presentation "Invertebrate Cell Culture Applications in China," Robert R. Granados’s presentation "Invertebrate Cell Culture Biology and Novel Cell Lines," Rollie Clem (Kansas University) presentation "Apopitosis Regulation in Cultured Insect Cells: Facing Death on a Hair Trigger," and Gary Blissard’s presentation "Role of the Major Envelope Protein (GP46) of Baculoviruses in Viral Entry and Exit from Cultured Cells". 

The symposium ended with a lovely luncheon ceremony convened by Amy Wang during which Karl Maramorosch introduced Dr. Thomas Grace as the 2004 Society for In Vitro Biology, Invertebrate Section, Lifetime Achievement Award Winner. The plaque of "Lifetime Achievement SIVB Award" was given to Dr. Grace by the SIVB president, Dr. Sandra Schneider.

The Invertebrate section also honored 5 invertebrate research experts, Raziel S. Hakim (Howard University), Cynthia Goodman (USDA-ARS-BCIRL), Robert R. Granados (Boyle Thompson Institute for Plant Research), and Ellis Lehman with the "Invertebrate Fellow Award" for their large contributions to the Society and their achievements in the Invertebrate field.

The symposium continued with the following presentations: "Transgenic Insect Cell Lines That Support Production of Humanized Glycoproteins by Baculovirus Expression Vectors" by Donald Jarvis (University of Wyoming), "Stable Transformation of Insect Cells with Densovirus Vectors and Expression of Foreign Proteins" by Max Bergoin, (University of Montpellier II), "Scale-up and Optimizing the In Vitro Growth of Insect Cells for Production of Recombinant Proteins and Viral Pesticides" by Spiros N. Agathos (Catholic University of Louvain), "Molecular Biology and Genomics of Shrimp Viruses and Their In Vitro Culture" by Just Vlak (Wageningen University), "Invertebrate Cell Cultures for Commercial Pharmaceutical Drug Discovery" by Steven H. Harwood (InVitrogen Life Technologies), "Baculovirus Technology for Mammalian Cell Gene Delivery" by Patrick Condreaux (GlaxoSmithKline Discovery Research), and "Molecular Engineering and Biology of Invertebrate Cell Cultures: Summary and Conclusions" by Dwight E. Lynn (USDA-ARS-BARC).

On Sunday, May 23rd, in a joint session with Plant and Vertebrates, the Invertebrate Section hosted a State-of-the-Art Symposium on "RNA interference: A New Tool in Gene Discovery and Gene Therapy". This was convened by Harold N. Trick (Kansas State University), Guy Smagge (Ghent University), and Michael J. Fay (Midwestern University). RNA interference, or RNAi, is an innate cellular process activated when a double-stranded RNA (dsRNA) molecule enters the cell, causing the degradation of not only the invading dsRNA molecule, but also single-stranded RNAs of identical sequences, including endogenous mRNAs. This phenomenon is apparently widespread in euukaryotes, ranging from trypanosome to human, from Neurospora to rice, and has sparked great interest from both fundamental and applied perspectives. Currently, RNAi is being evaluated for both functional genomic analyses and for its potential in highly specific gene-silencing therapeutics. We had three leading experts in this field with a lecture "RNA interference in Invertebrates" by Jozef Vanden Broeck (University of Leuven), "Development of siRNA-based Therapeutics" by Barry Polisky (Sirna Therapeutics), and "Viral Suppression of RNA Silencing in Plants" by Vicki Bowman Vance (University of South Carolina).

A second Invertebrate Symposium entitled "Functional Genomics of Aquatic Toxicology" was convened by J. Denny Sato (Mount Desert Island Biological Laboratory). Fish are a diverse group of vertebrates which in a wide variety of environments. These microclimates vary by oxygen tension, salinity, temperature, pressure, light intensity, and composition of natural and man made chemical toxicants. Comparative studies of fish and mammalian genomes have shown that they have similar genome organization and gene function. Thus, it is likely that functional genomic studies of fish should provide insight into normal and pathological human physiology. The talks in this session highlighted new tools and organisms for studying the impact of aquatic environmental toxicants on physiological processes. Presenters included: "Comparative Approaches to Understanding Mechanisms of Toxicity: The Comparative Toxicogenomics Database CTD") by Carolyn Mattingly (Mount Desert Island Biological Laboratory), "Fish & Chips Using DNA Arrays to Study Environmental Stress in Non-Model Organisms" by Andrew Gracey (Stanford University) and "The Effects of Arsenic on the Function of CFTR CI Channels in Killifish, a Euryhaline Teleost" by Bruce A. Stanton (Dartmouth Medical School). In addition an Invertebrate Contributed Paper Session moderated by Guy Smagge (Ghent University) entitled "Insect Cell Culture featured the following topics and presenters: "A New Method for the Rapid and Automated Generation of Baculovirus Expression Vectors"
The 2004 SIVB Annual Report


An Invertebrate Interactive Poster session moderated by Raziel S. Hakim (Howard University) was also held on Monday 24th May, and the following posters were presented: “Ex Vivo Utilization of Caterpillar Midgut to Study Kinetics and Toxicity of Insect Growth Regulators” by Guy Smagghe, (Ghent University), “Optimization of Feeding Strategies for Heterologous Protein Production in Cultures Using the Insect Cell-Baculovirus System” by Spiros N. Agathos (Catholic University of Louvain), “Does Apoptosis Play a Role in the Growth and Metamorphosis of the Lepidopteran Midgut?” by Raziel S. Hakim (Howard University), and “An Assay System for Determining the Toxicity of Flavonoids Against Insect Cells In Vitro” by J. Larry Gringorten (Canadian Forest Service).

On Monday, May 24, 2004 the Invertebrate Section of SIVB had its Annual Sectional Dinner Meeting at the Cosmopolitan Restaurant. It was chaired by Dr. Guy Smagghe, president of our section. The evening was set aside for informal discussions most of which focused on the 2005 Meeting in Baltimore. Present were Dr. Tom Grace, (GlaxoSmithKline), Cynthia Goodman (USDA-ARS-BCIRL), Guido F. Caputo (Canadian Forest Service, ON, Canada), Jean-Christophe Drugmand (Belgium), Spiros N. Agathos (Catholic University of Louvain), Raziel S. Hakim (Howard University), Marcia Loeb (ret. USDA), K. J. Magaratha Vally (Texas A&M University), S. J. Siddiqi (PharmaGap, Inc), and Amy Wang of GlaxoSmithKline.

Guido F. Caputo, Secretary gcaputo@nrcan.gc.ca

Raziel S. Hakim, Vice President rhakim@fac.howard.edu

Guy Smagghe, President guy.smagghe@ugent.be

SIVB Plant Biotechnology Section Members Gary Seckinger and Carol Stiff discuss plant cell culturing techniques.

Baocun Li (Plant Biotechnology Program Sr. and Jr. Co-Chairs, respectively), and the entire Plant Biotechnology Program Committee have ensured we will have a full slate of exciting sessions in Baltimore. Thank you!

In closing, I would like to acknowledge the great contributions made by Mark Jordan (PBS Vice Chair) and Lisa Lee (PBS Secretary). Their strong leadership has ensured we will have a bright future. Remember, section officer elections are right around the corner and it’s never too late to become involved. I hope we can all look forward to a productive, scientifically-rich year ahead.

Nancy A. Reichert, Chair, Plant Biotechnology
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Plant Biotechnology Section

2004 was a positive year for the Plant Biotechnology Section (PBS) in many respects. Our membership increased for the second year in a row, our scientific program was outstanding, and we continued to feel that wonderful sense of camaraderie - a trademark of our section, plus we had fun. Being an election year, PBS officers leading into the World Congress were: Nancy Reichert (Chair), Suzanne Rogers (Vice Chair) and Lisa Lee (Secretary). Newly elected PBS officers who started their term at the end of the World Congress were: Nancy Reichert (Chair), Mark Jordan (Vice Chair) and Lisa Lee (Secretary). Thank you Suzanne for all your efforts on behalf the PBS!

The World Congress on In Vitro Biology held in San Francisco was a scientific success and many thanks go to Wayne Parrott, World Congress Program Chair, for organizing and coordinating such an effort. The PBS was so committed to this program that we, along with Bayer CropScience, provided funds for the Keynote Symposium where Kary Mullis, Nobel Laureate, gave a phenomenal talk.

The PBS scientific program presented in San Francisco was outstanding. Mark Jordan (2004 Plant Program Chair), along with the entire PBS Program Planning Committee, prepared an exciting and thorough program on a broad range of scientific topics. In fact, Mark did such a phenomenal job that we asked him to serve as the 2006 Congress Program Chair for the SIVB meeting in Minneapolis. Allan Wenck (2005 Plant Biotechnology Program Chair) worked extremely hard to raise funds to support our 2004 program. He presented certificates of appreciation to companies who donated funds for the 2004 meeting during the PBS Business Meeting. Thank you to all involved!

2004 was the second year we (Section officers) extended invitations to all members to participate in the PBS Program Planning Breakfast, our Business Meeting and of course, our Social. Attendance at the Planning Breakfast was so great (~70), we had to get more chairs and, of course, food. We also tapped into our multi-talented, eclectic group of scientists to provide musical entertainment during the Social. Greg Phillips led the charge by renting guitars and amplification equipment, then proceeded to entertain us with beautiful guitar solos. Thank you Greg! Another PBS member, Jerry Ranch, joined in as did an invited speaker, Wayne Curtis. We have promises from these talented individuals to provide an encore performance at the PBS Social in 2005. This all began because I contacted the right person (Dave Songstad) to make the initial contacts.

An act that will affect the entire Society is worthy of note. In mid-2004, incoming President David Altman extended an open invitation to all Section Chairs to attend, and participate in, all scheduled Board meetings. This is significant and, in my opinion, long overdue since this inclusion should foster greater understanding between the different levels of infrastructure in our diverse Society. Thank you David!

Looking forward, the PBS scientific program to be presented at the 2005 In Vitro Biology Meeting in Baltimore promises to be another high point on our list of programs over the years. Allan Wenck along with Peggy Ozias-Akins and
History and Records

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 and Historical Committee include: Sandra L. Schneider (Chair), Gertrude Buehring (Co-Chair), June Bradlaw, R. Ian Freshney, Leonard Hayflick, Karl Maramorosch, Ron Ryan, Yvonne Reed, Leonard J. Page and Just Ville. The Committee sponsored a reception at the 2004 World Congress, San Francisco, California for Lifetime Achievement awardees and in vitro cell culture pioneers: Dr. Walter Nelson-Reese, Professor Shangyin Gao, Dr. Thomas Grace, and Dr. Trevor Thorpe. A World Congress movie night was held to view the BBC presentation Strange Attractions: The Life and Times of Life and Times. This film featured historical interviews with Leonard Hayflick, Walter Nelson-Rees, and numerous other scientists. The History Committee will meet in conjunction with the 2005 In Vitro Biology Meeting, Baltimore, Maryland.

Sandra L. Schneider, Chair
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Constitution and Bylaws

Standing Committees

Constitution and Bylaws

During Society elections held in 2003 the Chair was re-elected to a second term thru 2006. A meeting of the committee was held in June during the 2004 World Congress in San Francisco to discuss changes to the Constitution and Bylaws of the Society. In attendance were Mary Ann Lila, Melissa Hinga and Marietta Wheaton Ellis plus the incoming President David Altman. Of primary emphasis was a change to the Constitution allowing the Board to make changes to the Bylaws without a vote of the Society’s membership. This request was made by the Board and reviewed by the C&B Committee. An Constitutional Amendment was developed by the Committee and approved by the Board to be sent to the membership for a vote in August. Upon approval of the Constitutional Amendment the Board requested the C&B Committee prepare a document listing the changes to the Bylaws as discussed at the C&B Committee meeting in June. An important change was recommended to allow the Board, upon recommendation of the Finance Committee, to seek an appropriate financial review of the Society’s records rather than having a full audit. The existing Bylaws document was updated to remove references to mailing out ballots and correcting inconsistencies between the Constitution and Bylaws regarding committee leadership. Other changes were to move from the end to the start of the Annual Meeting (or the meeting of the Board occurring in June) the commencement of the duties of office for newly elected Officers, Chairs and appointed Chairs. The recommended changes were approved by the Board for a vote and the Board passed all changes in October. The updated Bylaws can be found on the Society’s web site under “Membership”.

The C&B Committee was called upon again in December to review a recommendation by Member-at-Large Dennis A. Laszko, which would standardize the site selection process for the Society’s Scientific Meeting. The Committee was asked to determine if the process should be incorporated into the Bylaws of the Society. Action by the committee was tabled until 2005. In February, the Committee reviewed the process, requested clarification and suggested wording to incorporate the process into the Bylaws. This recommendation was given to the Board and approved and the Board voted to pass the changes thus incorporating a site selection process in the Bylaws.

The Chair is deeply grateful to the members of the C&B committee, the SIVB Business Office, Marietta Wheaton Ellis, President Altman and the Board of Directors for their time, contributions and positive feedback throughout the year.

Members of the Committee are: Past-Presidents Delia R. Bethel, Mary Ann Lila, and Plant Section member Carol M. Stiffl. Marietta Wheaton Ellis serves as the liaison to the committee.

Melissa E. Hinga, Chair
mehinga@ricetec.com

Development

2004-2005 Development Committee consists of the following members: Janis Demetrullias, Barbara Doonan, Raziel Hakim, John Harbell, David Jayme, Mark Jordan, Hank Lane, Lisa Lee, Peggy Ozias-Akins, Nancy Reichert, Elizabeth Roemer, Sandra Schneider, Ray Shillito, Guy Shimagawa, William Smith, Alfred Vidrich, Gordana Vunjak-Novakovic, Amy Wang, Allan Wenck and David Songstad (Chair). Fundraising for the 2004 meeting was successful in that $88,320 was raised to support the general meeting or specific sections within the SIVB. The companies that contributed to the 2004 World Congress are: Anacchem, ArborGen, BASF Plant Science LLC., BayerCropScience, BD Biosciences, Biosource, Brandel Medicals, CABI International, Caisson Laboratories, CellFor Inc., ECACC, Finnigan Thermo Electron, Genzyme Corporation, IaxoSmithKline, Guava Technologies, Invitrogen, JCRB Cell Bank, Johnson & Johnson, JHR Biosciences, Kimberly-Clark, Mike Horn, Monsanto, Oriental Yeast Co., Pioneer Hi-Bred Intt., RiceTec, Inc., SIVB Plant Section, Syngenta, Taiyo-Toyo Sanso, Techniks, Temple-Inland Forest Products Corp., The Scots Company, UST, Inc., Weyerhaeuser, and Williamsburg Bioprocessing Foundation.

Fundraising for the 2005 annual meeting was bolstered by a $20,000 contribution from UST. This contribution was in two parts with the first $5,000 dedicated to the Plant Activity Fund and the second part comprising $15,000 which is earmarked for helping with the increased expenses associated with the free student registration effort. Additional efforts for fundraising include application for USDA and NSF grants.

Fundraising efforts also consisted of working with the Non-profit Fundraising Assistance Group. A query that was based on a key word search produced a list of 25 foundations that have “education, science, biotechnology, conference, research, etc.”. These foundations are being approached by members of the Development Committee and a “Letter of Intent” is being drafted by the Non-Profit Assistance Group. At the 2005 annual meeting, the Development Committee will meet to discuss future plans and strategy.

David D. Songstad, Chair
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Awards

The Society for In Vitro Biology honored three Lifetime Achievement Awardees at the 2004 World Congress on In Vitro Biology: Thomas Grace, PhD; Walter Nelson-Rees, PhD; and Trevor A. Thorpe, PhD during the Congress. These emeritus scientists have been honored for their years of exemplary research, achievements, and pioneering contributions to the field of cell culture.

There were number of Fellow Awards from each section presented at the Congress. This award recognizes members who have made outstanding contributions in their area of science research, teaching, and/or administration. The Fellow status is presented to SIVB members who have been active for at least 10 years and who have made outstanding contributions to the Society. This was the first year that the Fellow Award was presented in the Cellular Toxicology and the Vertebrate Sections.

The Cellular Toxicology Section presented Fellow Awards to: Eugene Elmore, PhD; John Harbell, PhD; Richard Heller, PhD; Paul Price, PhD; Elizabeth J. Roemer, Colette J. Rudd, PhD; Lynn Rutsky, PhD; Sandra L. Schneider, DrPH, Leonard J. Schiff, PhD; William J. Smith, PhD; and Alfred Vidrich, PhD.

The Vertebrate Section presented Fellow Awards to: Cynthia Goodman, PhD; Robert Granados, PhD; Lehman Ellis, PhD; and Raziel Hakim, PhD. The Plant Biotechnology Section presented a Fellow award to Gregory C. Phillips, PhD. The Vertebrate Section presented Fellow Awards to: Delia Bethell, PhD; Gertrude C. Buehring, PhD; Robert J. Hay, PhD; and Wallace L. McKeehan, PhD.

The Society honored J. Denny Sato, PhD; Shirley Pompomni, PhD; David Jayme, PhD; and Gordana Vunjak-Novakovic, PhD with the Senior Investigator Award during the World Congress. This award recognizes non-student scientists with outstanding records of in vitro research at the level of established investigator.
Education

Professional development programs at the 2004 SIVB World Congress in San Francisco included a free half-day workshop on grant writing for 50 participants convened by Carol Stiff, and a full day for-fee workshop convened by Jeffrey Janus. On Saturday, Jeffrey’s workshop: Using Cell-based Model Systems in Assays and Basic Research: A Workshop in Practical Methods focused on human cells, and provided a valuable opportunity to learn directly from experienced experts in the use of cell-based models. Several types of model systems were featured including: fully differentiated cells, stem cells, and transformed cell lines. On Saturday afternoon Carol Stiff ran a free workshop: Funding Fundamentals: How to Get the Grant You Want. The panel of experts included both agency representatives and seasoned grant writers who gave short presentations and then opened the floor for discussion.

The outreach programs began prior to the Opening Reception on Saturday evening with a special poster session, featuring the work of high school students. An interactive poster session: Educating the Biotechnology Workforce: Current Programs and Future Directions was held during the Opening Reception. This session’s multiple presentations included: Educating the Biotechnology Workforce at Community and Technical Colleges, Elaine Johnson, BIO-LINK, City College of San Francisco; Professional Education and Career Options for Today’s Biological Scientists, Lindy A. Brigham, University of Arizona; Internships: A Central Role in the Master of Biotechnology Program, a Professional Science Master’s, David Bieber, San Jose State University; Biotechnology Management – A New Professional Masters Degree Program, Steven A. McCommas, Southern Illinois University Edwardsville; and Commu-

The Student Affairs Committee this year consisted of Pamela Weathers (Chair), Craig Meyers, Suzanne Rogers, and Elizabeth Roemer. The following awards were presented at the banquet of the 2004 meeting: Stephanie DeWitt-Orr received the Cell Toxicology, Honor B. Fell, and Joseph F. Morgan Awards for “Capacity of Fish Cell Lines to Undergo Apoptosis in Response to Two Toxicants: Gliotoxin and Copper.” Magnolia Ariza-Nieto was granted the Wilton R. Earle Award and an SIVB Travel award for “Transgene Expression in Site-specific Integrant Rice Lines”. Maria Federico was granted the John S. Song Award for “A Barley LTP Promoter for Tissue-specific Expression of Transgene-mediated Disease Resistance”. The Hope E. Hops Award and an SIVB Travel Award went to Kristi Snyder for “Hypothermic Storage of Neonatal Mammalian Cardiomyocytes: Assessment of Multiple Markers of Viability”. Other SIVB Student Travel Awards were presented to Elif Aylin Ozudogru - Gebze for “Effect of Silver Nitrate on Organogenesis of Peanut (Arachis hypogaea L.)”, and to Sanjeev Kumar Sharma for work on “The Development of an Efficient Somatic Embryogenesis System in Potato”.

The Philip R. White Award went to Dorothy M. Gillespie of Nashua High School, Nashua, NH to introduce plant tissue culture into her 2004-5 Advanced Placement Biology course. The funds will be used to attend a workshop entitled “2004 NH Biotechnology Institute” at the Seacoast School of Technology, in New Hampshire in June and will purchase supplies for her classroom with the help of donated supplies from Caisson Laboratories, Inc., Plant Cell Technology, Inc., and Kitchen Culture Kits, Inc. The Philip R. White Committee members for 2004 were Drs. Carol Stiff (Chair), Satyahari Dey, Michael Kane, John Lunghusen, and Raymond Shillito.

At the 2004 annual student breakfast, there was a request for the SIVB Board of Directors to consider several student concerns: a possible SIVB student section, roommate matching for the annual meeting to decrease housing costs, and rapid abstract acceptance and award notification to facilitate obtaining additional monies for travel to the annual meeting. Both of the latter suggestions were successfully implemented for the 2005 meeting. Students attending the 2005 meeting will be queried regarding a possible student section of SIVB.

Amy A. Wang, Chair, Awards Committee amy.a.wang@gsk.com
Pamela J. Weathers, Chair, Student Affairs Committee weathers@wpl.edu
Carol Stiff, Chair, Philip White Award Committee kck@turbonet.com
Community Colleges Biotechnology Manufacturing Training Programs: A Proposal, Patrick McKay, Genentech, Inc. In addition to these organized presentations a number of students and teachers took advantage of our special registration offers to attend the meeting.

Carol Stiff is the Education Committee Liaison to SIVB’s In Vitro Report. She collects and coordinates materials for the newsletter, and puts together the education committee column. Anyone who has items they would like to have included (workshops, announcements, etc) should send them to Carol at kck@turbonet.com. Ask to be put on her e-mail list, and you will receive timely reminders when the columns are being prepared.

In addition, Carol has launched and is moderating a listserv to provide a venue for teacher-teacher and teacher-scientist interactions. Interested members of the SIVB are encouraged to sign up. Please contact Carol at the above email if you are interested.

The Education Committee is always looking for members who are interested in participating. Anyone interested in working on education is welcome to join us. Our areas of focus, range from K-12 to college level education and professional development. We are always open to new ideas, and generally have more great ideas than we have manpower. If you are interested in working with us, or have ideas for future programs please contact Liz Roemer at eroemer@notes.cc.sunysb.edu or call (631) 444-7347.

Elizabeth Roemer, Chair
eroemer@notes.cc.sunysb.edu

The Opening Reception was a wonderful way to reconnect with old acquaintances or meet new colleagues.

Invertebrate section presentations were part of the 11th International Invertebrate Conference.

Students are offered free registration to encourage their participation at the SIVB Congresses.

A special Technology Transfer table was organized for the World Congress Exhibits.

Attendance was high in the sessions focusing on State-of-the-Art Technologies.
Program

The 2004 World Congress on In Vitro Biology was held at the Hyatt Regency San Francisco, San Francisco, California from May 22 – 26, 2004. The World Congress focused on a wide range of topics and issues of interest to all sections (Cellular Toxicology, Invertebrate, Plant, and Vertebrate) of the Society. This year’s event was co-sponsored by the Canadian Chapter of the IAPTC&B, the European Tissue Culture Society, the Japanese Association for Animal Cell Technology, the Japanese Society of Plant Cell and Molecular Biology, the Japanese Tissue Culture Association, and the Swiss Tissue Culture Association. A total of 574 scientists from 22 countries attended the scientific meeting and interacted with exhibitor representatives. This was the second year SIVB offered free registration to students and 96 took advantage of this opportunity, double the number in 2003.

2004 was also the year for the 11th International Invertebrate Conference. This conference was held on May 22, 2004 with a full day of session, featuring a keynote symposium to open the event. The Conference focused on honoring pioneers in the field of invertebrate cell culture who have contributed outstanding achievements toward invertebrate continuous cell culture and media development. This year they honored Dr. Thomas Grace and Prof Shangyin Gao who aided the rapid development and important applications to insect cell culture during the past four decades. This event was well received by those who attended.

This year two pre-congress educational sessions were offered on Saturday. The official start of the meeting was signaled by the Student Poster Session coordinated by the Education Committee. Posters by students from high schools and community colleges, as well as educators, led to discussions with scientists attending the Congress. The Opening Reception was held in the Exhibit Hall and was a positive forum for participants to meet with the exhibitors and posters session presenters.

The World Congress sessions started early Sunday morning, with excellent attendance. Sunday morning we were pleased to welcome our Keynote Speaker, Dr. Kary B. Mullis of Altermune, speaking on the challenge and approach of today’s disease pathogen drug treatments. Following this talk, which received wonderful feedback, we enjoyed a reception in Dr. Mullis’ honor.

The Congress Program consisted of 1 Keynote Symposium, 4 State-of-the-Art Symposia, 16 Mini-symposia, 2 State-of-the-Art Workshops, 2 Mini-workshops, 6 Contributed Paper sessions, and 7 Interactive Poster sessions. In all, 350 abstracts were received, of which 156 were presented as posters and 13 were silent abstracts. The range of scientific research presented at the Congress was exceptional. The State-of-the-Art sessions were designed to bring all the sections of SIVB together for information that was applicable to all in vitro researchers. Various sessions focused on a number of cross-discipline issues such as: cross contamination, transformation of various types, stem cells, microscopy, RNAi, biomarkers and proteomics, and biotechnology. Issues discussed included: biopreservation, organized development in vitro, root biology, gene integration in to plant genomes, tissue engineering, monoclonal antibody production, and more.

The SIVB Meetings have also been well known for their social events, and this year was no different. Attendees cruised the San Francisco Bay for an evening dinner cruise, watching visions of the Bay Bridge and Alcatraz over a lovely sit-down dinner. Our health conscious attendees woke up early on Tuesday, May 25, to enjoy some quiet time traveling along the waterside for our Fun Run/Walk, and many danced the night away during the Streets of San Francisco Closing Banquet.

The SIVB is deeply indebted to a large list of individuals who put this program together and carried it out flawlessly. These individuals include: conveners, fund-raisers and corporate sponsors, Congress co-sponsors, solicitors, presenters, moderators, exhibitors and schedulers. The Congress program planning began with Committee Chairs from each of the Sections, but was brought to fruition by many other hardworking, diligent members of SIVB. We also thank the office staff of SIVB that pulled together the Congress and programs, meeting facilities, banquet and tours into a positive experience for all that attended. My thanks to all for making this meeting a great success.

If you need more specifics or want to comment on any aspect of the Congress please contact me at wparrot@uga.edu. I look forward to seeing you all in Baltimore for the 2005 In Vitro Biology Meeting.

Wayne Parrot, Chair
wparrot@uga.edu
Membership

The 2002-2004 Membership Committee [Erica Benson, Eugene Elmore, Raziel Hakim, Michael Horn, Howard Hosick, Paul Price, Barbara Reed (Chair), Warren Schaeffer, Jayasankar Subramanian] spearheaded the extremely popular student incentive program (free meeting registration and membership the following year). The committee also worked on revising the SIVB membership brochure. The current (2004-2006) Membership Committee [Michael Fay, Raziel Hakim, Michael Horn, Linda Jacobsen, Rengong Meng, Sally Miramon, Nancy Reichert (Chair), Guy Smaghe, Harold Trick, Margaret Young] worked on membership renewals and on the membership brochure.

They are listed below this report.

- Nancy A. Reichert, Chair
  nreichert@pss.msstate.edu

55 Years
M. Helena Benitez
Morgan Harris
Etienne Lasfargues
Man Niu
Emer Randall
John Shannon

50 Years
Ernest Chu
Betty Danes
Sergey Fedoroff
Leonard Hayflick
Robert Hull
Seumay Levine
Abel Robertson, Jr.
Eugene Perrin
Tohru Okigaki
Theodore Malinin
Hajime Hayashi
Arthur Greene
Ronald Fletcher
James Duff
Vincent Cristofalo
Bruce Casto
June Biedler

45 Years
F. Bozeman
Cecil Castor
William Chandler
Lewis Coriell
Thelma Dunnebacke-Dixon
Elizabeth Earley
James German, Ill
Philip Loh
Paul Moorhead
Carlton Nadolney
Mary Orr
Carl Partanen
Robert Roosa
Irwin Schafer
Ronald Sinclair
Hartmann Staehelin
Jean Stanley
William Wood

40 Years
Frances Arrighi
Nelly Auersperg
June Biedler
Bruce Casto
Vincent Cristofalo
James Duff
Ronald Fletcher
Arthur Greene
Hajime Hayashi
Ingemborg Hilwig-Bente
Albert Leibovitz
Theodore Malinin
George Martin
Tohru Okgaki
Eugene Perrin
Olive Pettengill
Evelyn Rivera

35 Years
Ellen Borenfriend
June Bradlaw
Victor Brum
Daniel Dahling
Frank Dye
Rocco Filazzola
Helene Guttman
Marion Haroist
Robert Hay
M. Edward Kaighn
Marvin Karaske
Frederick Kasten
Howard Lasch
John Lehman
Stewart McConnell
Leroy McLaren
Jun Mitsuhashi
Thomas Moehring
Toshio Murashige
Anna Ruckert
Lyne Rutzky
Jon Ryan
William Thomas
Trevor Thorpe
Paul Todd
James Vaughn
Jack Wdowik
Conrad Yunker

30 Years
Daniel Acosta
Monique Adolphe
Vincent Aloyo
Ubaldo Armatto
Arthur Balin
Michael Barile
Samuel Caplin
Norman Cooper
Gretchen Darlington
Pierre Debergh
Arline Deitch
Cyril Finnegam
J. Fraser
Ivettte Garcia-Castro
Glen Germian
Ralph Germinario
Beppino Giovannella
Gabriel Godman
Sidney Green
Phillip Greath
Bernd Hamprecht
Steven Hausman
James Henderson
Mary Herman
Howard Hosick
Rachel Huot
James Johnson
Warren Schaeffer
Anna Steinberger
George Wilbanks
Gerhard Kalmus
Jane Kaltenbach
Paul Kombith
Shirley Kovacs
Charles Kuszynski
Robert Lawrence, Jr.
Charles Lovig
Dwight Lynn
Karl Maramorosch
Arthur McIntosh
Wallace McKeehan
Alexander Milne
Machteld Mok
Mary Pat Moyer
Santo Nicossia
Shirley Quan
Hedi Roessler
George Schuster
Shirley Schwartz
Gabriel Seman
David Sirbasku
John Smagula
William Tolbert
Joseph Turnilowicz

25 Years
Mina Bissell
George Boder
Nancy Bucher
Gertrude Buehring
James Caponetti
Jean Pierre Cazenave
Martin Clynes
Richard Colby
Bob Conger
Rudolf Czirkik
Ginny Darr
Makito Emura
Joseph Feder
A. Dennis Genovesi
Michael Ginbronej
Richard Giles
Joel Greenberger
Caro Haussler
Caro Heman
Colleen Hera
Etienne Hollande
Karen Hughes
Linda Jacobson
David Karmisky
Pin King
David Kirk
Elliot Levine
Shyamal Majumdar
Philip Marcus
Thomas Mawhinney
P. Montgomery
Masayoshi Namba
Babette Radner
Kenneth Ramos
Paul Read
M. Keith Redenbaugh
William Richardson
L. De Ridder
Luis Roig
Regina Ruben
Colette Rudder
Jose Russo
Joan Shaprio
Alphonse Schar
Alphonse Sirica
Wade Smitt
Vernon Steele
Edward Siegel
Frank Talamentes
Mary Taub
Nilin Telang
William Tente
Louis Terracino
James Trosko
Richard Trowbridge
Ibrahim Tuet
Joseph Tully
Francis-De Uchina
Stephen Wassman
Cheng Yu

20 Years
Glenn Allison
David Altman
Eddie Bautista
Deila Beliell
Samuel Blumenthal
Niels Bors
John Bowen
Steven Boice
Charles Buck
Walter Butterfield
Guido Caputo
Jan Cerven
Audrey Charles
Ming Chou
Martin Cohen
George Dubes
Ursula Ehmham
Ann Fallon
Philip Familetti
John Finer
Walter Finger
Ian Finkbeiner
Jan Fritsch
Hiroyoshi Fukamachi
Robert Grafton
Mary Oster Granite
Hiroshi Fujimori
Irene Gwinn
Dennis Gray
Lee Handley
Lun He
April Herr
Helene Hill
Robert Hoffman
Hirohito Hoshii
Li-Chun Huang
Donald Inger
Dhanesh Jain
Dennis Laski
Thomas Linkhart

- 10 -
10 Years

Burton Altura
Joji Ando
Maigull Appelgren
Charles Armstrong
Charles Arnsten
Masahiko Arai
Charleen Baker
A. Ballester
Bill Barnett
Massimo Battaglia
Lauren Bernhofer
Ronald Blackmon
Emmanuel Brako
Mark Brand
Charles Buer
N. Dwight Camper
Jorge Canhoto
Javier Castillon
Guadalupe Cavazos
Long-Fang Chen
Ming Cheng
Glenn Collins
Nancy Collins
Michael Compton
Edwin Cooper
Douglas Darnowski
Paula Dehn
Sarwan Dhir
Patricia Dixon
Rune Djurhuus
Barbara Doonian
Michael Dornish
Paul Drayton
Leo D’Souza
Marcelle Egnin
David Ellis
Marietta Ellis
Karen Etchberger
Michael Fay
Stephen Ferkovich
Daniel Focht
Bronwyn Frame
Yoshitatsu Fukabori
Miho Funke
John Gallacher
Alan Goldberg
Mary Goldring
Dalton Gossett
James Grasela
Snehashis Dutta Gupta
Nidia Guzman
Indra Harry
L. Cheryl Hendrix
Melissa Hinga
Walter Holder, Jr.
Michael Horn
Laurie Howard
Arlene Howe
Kiku Iwabuchi
Alba Jofre-Garfias
Heidi Kaeppler
Toshikazu Kamiya
John Kemp
Jonathan Kiel
Mitchell Klausner
Hans Koblet
Toyoji Kozai
Lee Leak
Edward LeCluyse
Lisa Lee
Peggy Lemaux
Mats Levall
Juliet Lobo
Alicia Lorenti
Victor Loyola-Vargas
Chin-Yi Lu
Chunsheng Lu
Shin-Ichi Yamada
Jean-Pierre Zyd

15 Years

Randa Abu-Hakima
Jameel Al-Khayri
Shin-Ichi Amino
Hiroshi Ashihara
Robert Auerbach
Francis Auge
John Avery, Jr.
David Baltimore
Erica Benson
Raj Bhatt
Elliott Bimbaum
Carl Blackman
Marc De Block
W. Bullock
Yin-Fu Chang
Tou-San Chou
Stanley Cohen
John David
Glenn Deaver
Rodney DeLeon
Janis Demetrullus
George Dougherty
Avraham Duivdevani
Eugene Elmore
Glynn Faircloth
Frank Falkenberg
Clarence Falstad, III
Manuel Fernandes-Ferreira
Ebrahim Firoozabady
Thomas Flynn
Richard Fulker
Victor Gaba
Mark Galatowski
Leonard Ginsberg
Cynthia Goodman
Thomas Goodwin
Stephen Gorlen
John Griflis, Jr.
Vicki Gustafson
Freddie Hammerschlag
James Haug
Richard Heller
William Hillegar
Maud Hinchee
Patricia Holst
Peter Hornsby
William Howe
Bharati Hukku
Harriet Isom
Laurie Jaeger
Nora Jamgotchian
Penny Jones
Tod Jones
Kathryn Kamo
Mikio Kan
Michael Kane
David Kaufman
Julie Kikkert
Sherry Kitto
Jan Kovar
William Kraus
Peter Krogstrup
Adelheid Kuehnle
Timothy Kurtti
Sylvie Laliberte
David Langleben
Rita Levi-Montalcini
Jeanne Layton
Mary Ann Lila
Richard Litz
Marcia Loeb
Christina Lundqvist
Paul Lynch
Wayne Mackay
Steven Matsumoto
Kyotaro Masuda
Robert McCauley
Linda Mcholland
Scott Merkle
Paul Miller
Sally Mirrano
Hiroyasu Mizusawa
Matsuda Motoko
Luis Mroginis
Chlumy Nagai
Shizutoshi Nakagawa
Robert Nardone
Narendran Nehra
Ronald Newton
Roberto Nicosia
Randall Niedz
Tetsuji Okamoto
Kevin Osteen
Peggy Ozias-Akins
Maria Pas
Mark Pieper
Paula Plut
Przemyslaw Popowicz
Zamir Punja
Robert Redman
Barbara Reed
Janet Reed
Yvonne Reid
Michael Rentfroe
Terry Riss
Veronica Roberts
Carole Saravitz
Juan Segura
John Semon, Jr.
Raymond Shilito
Kenneth Sink
William Smith
Benjamin Steinitz
Carol Stiff
Steven Strickland
Teodora Tabancay
David Tan
Anthony Trieu
UST, Inc.
Aida Vidrich
Marguerite Vogt
Michael Walker
Andrew Wang
David Waters
Pamela Weathers
Kent Welsh
Mary Welter
Glenn Wilson
Noritsugu Yabe
Koji Yamada
Guangning Ye

The 2004 SIVB Annual Report
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), Roche Diagnostic Corporation; Sandra L. Schneider (co-chair), Research and Clinical Laboratory Systems; June Bradlaw, International Foundation for Ethical Research; Walter Pinkbeiner, University of California-San Francisco; Thomas Goodwin, Johnson Space Center, NASA; John Harbell, Institute of In Vitro Sciences John Masters, University College London, Institute of Urology-UK; Colette Rudd, Rudd & Associates; Lynn Rutsky, The University of Texas Health Science Center Houston; William J. Smith, U.S. Army Medical Research Institute of Chemical Defense; Glynn N. Stacey, National Institute for Biological Standards and Control-UK, and Alda Vidrich, University of Virginia Health Sciences Center.

The LMBC will hold their annual meeting with the Vertebrate and Toxicology Sections during the 2005 Meeting in Baltimore, Maryland. The committee continues to actively promote topics related to tissue engineering, public health policy and risk analysis. Toward this goal, Committee members continue to work with and support the efforts of the: FDA Center for Devices and Radiological Health in the area of regulatory and standardization for biomaterials and tissue components; and the American Association Advancement Science and American Institute Biological Sciences for standardization of in vitro technologies.

Linda Jacobsen, Chair
linda.jacobsen@roche.com

Nominating

Nominations are being accepted for Society of In Vitro Biology (SIVB) 2006-2008 Officer and Executive Board Positions. The SIVB is a volunteer scientific society with elections to be held during Fall 2005. Please contact the SIVB office sivb@sivb.org or Dr. Sandra Schneider.

Sandra L. Schneider, Chair
drsandra@stic.net

Publications

In Vitro-Plant Report. During the 2004 calendar year, In Vitro Cellular & Developmental Biology - Plant (IV-P) received 171 manuscript submissions, a 35% increase over 2003. This number included four invited review articles and eight symposium proceedings. Excluding the invited reviews and symposium proceedings, the rejection rate was 52%. Approximately 25% (42) of the submissions came from authors in North America, 23% (40) from India, 18% (31) from Europe, 15% (28) from Asia, 12% (20) from Latin America with the remainder from Australia (5), Middle East (4) and Africa (1). The average time from receipt to acceptance was 11.8 weeks, a significant increase over 2003 (9.3 weeks).

The large increase in submissions and stable rejection rate resulted in a slightly larger number of articles per issue (14.75 vs 14.25 in 2003 and 13.25 in 2002).

We perceive the overall quality of our articles surpasses that of our two most direct competitors (Plant Cell Reports, Plant Cell Tissue Organ Culture), however, this is not reflected by journal impact factors. IV-P has a broader array of matrix categories compared to the other two. The most recent journal impact rating for IV-P, based on year 2003 data, improved to 0.697 vs. 0.440 in 2002.

Significant progress was made in 2004 regarding the incorporation of IV-P into the PubMed, Medline, and other indexing services this year. IV-P is converting to an online editorial submission and processing system in 2005, through a discounted arrangement with CABLI. This system will reduce mailing times and expense and speed the timeliness of reviews; provide. It will also permit online electronic submission; speed the transfer of accepted manuscript files to the publisher; and automate the editorial tracking process.

(Data from Greg Phillips, Editor-in-Chief, IV-P).

In Vitro-Animal Report (Based on data from 3/1/04 through 2/28/05). The journal experienced a 22% decrease in total manuscript submissions over the comparable period last year (82 vs. 105). The published totals for the past year vs. the prior year are: 66 regular papers (vs. 85), 11 Reports [formerly scientific Letters-to-the-Editor] (vs. 19) three opinion Letters-to-the-Editor, one invited review, plus one book review. Of the 82 submissions, 53 were accepted, 18 are still in revision or review and 11 were rejected.

In addition to the USA, there were 22 countries represented among the submissions received in 2004. Overall, average time from receipt to first decision in the review process was 5.3 weeks (vs. 5.6 weeks). Online papers for which first decisions have been made within this report period maintained an average of 4.7 weeks.

Online submission and review began in November 2002. By the end of the current report period, approximately 94% of the submissions received were online submissions. The remaining were hardcopy submissions, which continues to be allowed as an option. Competition posed by the proliferation of new online journals that overlap our niche and themes and the constantly changing electronic revolution in publishing and marketing remains a challenge. We have seen constant improvements in the implementation of As Soon As Possible (ASAP) publishing of papers after acceptance in pdf file format and getting the information into popular indexes as soon as possible. Marketing, maintenance of visibility of the journal and troubleshooting with specific clients remains a challenge due to the nature and modest resources of the Society in this area. We remain optimistic that time and a sustained effort in marketing, with emphasis on benefits of the electronic aspects and the journal’s solid history, will continue to aid in maintaining our competitive position in the publication arena. (Data from Dr. Wallace McKeel, retiring Editor-in-Chief, IV-A).

IAPTCB Publications through IV-P. The International Association of Plant Tissue Culture and Biotechnology (IAPTCB) publishes two issues of IV-P per year using a separate editorial staff. This allows IV-P to publish 8 issues per year instead of 6 and gives IV-P an international exposure it might not have otherwise.

The editorial address was changed from Singapore to Malaysia because E. C. Pua (Editor-in-Chief) had accepted a new academic position at the Monash University Malaysia in July 2004. The new address is: School of Arts and Sciences, Monash University Malaysia, No. 2, Bandar Sunway, 46150 Petaling Jaya, Selangor, Malaysia; phone: 603-5635-8639; fax: 5635-8640; email: pua.eng.chong@artscl.monash.edu.my or ec.pua@monash.edu.my. This change was announced in In Vitro-Plant 40: 127 (March/April 2004) and the new editorial address was printed in the journal from Sept/Oct 2004 onwards. (Data from Eng Chong Pua, Editor-in-Chief, IAPTCB)
The 2004 SIVB Annual Report

standing job as Editor-in-Chief and has continued to maintain the quality of the In Vitro Report. New articles are submitted in a timely fashion and the abstracts provide the general membership with the most up to date information about the research of their colleagues. (Submitted by Kim Rayford, Editor-in-Chief, In Vitro Report)

Michael Horn, Chair, Publications Chair
mhorn@appliedbiotech.org

Wallace L. McKeehan, Editor-in-Chief, In Vitro – Animal
wmckeeha@ibt.tamhsc.edu

Gregory C. Phillips, Editor-in-Chief, In Vitro – Plant
gphillips@astate.edu

Eng Chong Pua, Editor-in-Chief for the IAPTC&B, In Vitro – Plant
dbspuaec@nus.edu.sq

Kimberly Rayford, Editor-in-Chief, In Vitro Report
kRayford@slsc.org

Michele G. Schultz, SIVB Publications Manager
michele@sivb.org

Public Policy
The Public Policy Committee is a standing committee of the Society and is designed to aid its members and the general public to obtain a more informed understanding of in vitro biology and its research process and progress. The Committee is charged to aid the Board of the SIVB in their dealings with members of Congress and other governmental officials for the purpose of giving advice on funding priorities and other relevant matters. With the assistance of other associations the Public Policy Committee’s goal is to actively educate its members about current issues affecting the scientific community and society as a whole. To assist the Society in this mission it is currently a member of the following associations that work with legislators to effect national and international scientific policy: AIBS, American Institute of Biological Sciences provides a variety of public policy services for their members and the biological community at large; CAST, Council for Agricultural Science and Technology assembles and communicates science-based information regionally, nationally, and internationally on fiber, food, natural and agricultural resources and environmental issues to its members including legislators, media, regulators, policy makers, private sector, and the general public; AAAS, America Association for the Advancement of Science examines science-related questions of concern to world citizens and their governments, including human rights and ecosystem protection, federal spending, ethics, and equity; IFER, International Foundation for Ethical Research is a non-profit group that is dedicated to finding non-animal alternatives for scientific research.

This year in order to inform the SIVB membership about the policy positions of the 2004 Presidential candidates, we provided links on the SIVB home page to their science policies as documented by AAAS.

Pamela Weathers, Chair
weathers@wpi.edu

June Bradlaw
jbradlaw@erols.com

Todd J. Jones
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American Type Culture Collection
The ATCC Cell Biology Collection has distributed over 67,000 units during 2004 and has replenished over 600 Working Cell Banks (WCBs) prepared from animal and hybridoma cell lines. During this period the personnel in the Cell Biology Collection has acquired, expanded, authenticated, characterized, and cryopreserved an additional 85 new items.

Most recently the ATCC has developed a partnership with Geron Corporation. Through this unique partnership we are able to link ATCC’s capabilities in cell culture characterization and authentication with the preferred method of cell immortalization – hTERT. This technology allows for the immortalization of cell lines capable of extended proliferative capacity, stable genotype, and phenotype similar to the parental cells. Included among these immortalized products are CRL-4000 (BJ-5a), foreskin fibroblast and CRL-4001 (hTERT RPE-1), retinal pigmented epithelium cell lines.

In addition to the diverse holdings within the Cell Biology General Collection, the Stem Cell Center holdings range from embryonic stem cells (ESCs) to adult stem cells representing various species including mouse, zebrafish, and human. Extensive authentication and characterization are performed on these cells, including the ability of the ESCs to demonstrate germline competency and to form embryoid bodies that contain the three germinal layers (endoderm, mesoderm and ectoderm). In addition, maintenance of telomerase activity and expression of various undifferentiated markers, such as alkaline phosphatase, Oct 3/4 and SSEA-3, are assessed.

Yvonne A. Reid, Collection Scientist
yreid@atcc.org

Attendees enjoyed a tasty dinner while viewing the sights of the bay on the San Francisco Bay Cruise.

Representatives of the SIVB
The 2004 SIVB Annual Report

International Association for Plant Tissue Culture and Biotechnology

In 2004, the International Association for Plant Tissue Culture & Biotechnology (IAPTC&B) organized a national plant micropropagation conference themed: “Micropropagation – Technology and Production.” The meeting was held on May 4-5, in Orlando, Florida at Leu Gardens. The speakers for the conference were a combination of commercial and academic authorities in Plant Tissue Culture. The speakers included Dr. Paul Read of the University of Nebraska, Dr. John Preece of Southern Illinois University, Mr. Ray Gillis of Agristarts, Dr. Ken Torres of Phytotechnology Labs, Mr. Kent Krazt of Casa Flora, Dr. Mark Bridgen of Cornell University, Mr. Gary Hennen of Oglesby, Dr. Jerzy Nowak from VPI, and Dr. Randy Niedz of the US Horticultural Research Lab. On the second day of the conference, participants toured Leu Gardens several of the local commercial tissue culture laboratories including AgriStarts, the University of Florida tissue culture lab in Apopka, and Casa Flora. The IAPTC&B thanks Dr. Randy Niedz of the US Horticultural Research Laboratory in Ft. Pierce, FL for serving as the local site committee chair for the 2004 meeting.

The next World Congress of the IAPTC&B will be held in Beijing, China from August 13–18, 2006. The theme of the Congress is: “Biotechnology and Sustainable Agriculture 2006 and Beyond”. Scientific programs of the IAPTC&B Congress will cover various aspects of plant tissue culture and biotechnology. It includes current advances in plant tissue culture, plant molecular biology and biotechnology, impact of plant biotechnology on agriculture, industry and environment, intellectual property in biotechnology, biosafety and public acceptance of genetically modified plants, biotechnology related bioinformatics and other related fields. The website, http://www.genetics.ac.cn./IAPTCB, has registration and travel information. Travel fellowships will be awarded from the US branch of the IAPTC&B for members going to the World Congress.

At the August 2006 Congress of the IAPTC&B in China, a new U.S. national correspondent will be appointed for 4 years. We are beginning the process of searching for an individual to serve in this capacity. Questions about membership in the IAPTC&B can be addressed to me at mpb27@cornell.edu.

Mark Bridgen, IAPTC&B US Correspondent
mpb27@cornell.edu

Secretary Nancy Reichert (center) catches up with former board members Ray Shillito and Mary Ann Lila.

Treasurer Richard Heller and Past Secretary Barbara Reed enjoying themselves at the opening reception.

In Vitro Biology Meeting
Minneapolis
Minnesota, June 3 - 6, 2006

Save the date!
Check www.sivb.org for the most up-to-date information

-14-
## SOCIETY FOR IN VITRO BIOLOGY
### STATEMENTS OF FINANCIAL POSITION
#### DECEMBER 31, 2004 AND 2003

<table>
<thead>
<tr>
<th></th>
<th>2004</th>
<th>2003</th>
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</thead>
<tbody>
<tr>
<td><strong>ASSETS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current assets:</td>
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<tr>
<td>Cash</td>
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<td>Accounts receivable</td>
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<td>Prepaid expenses</td>
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<td>Noncurrent assets:</td>
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<tr>
<td>Furniture and equipment, net</td>
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<td>7,252.00</td>
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<tr>
<td>Investments</td>
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<td>137,672.00</td>
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<td>Inventories</td>
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<td>1,240.00</td>
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<tr>
<td><strong>Total noncurrent assets</strong></td>
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<td>146,164.00</td>
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<td>Other assets:</td>
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<td>Deposit</td>
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<td>1,303.00</td>
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<tr>
<td><strong>TOTAL ASSETS</strong></td>
<td>247,262.00</td>
<td>335,980.00</td>
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<table>
<thead>
<tr>
<th></th>
<th>2004</th>
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<tbody>
<tr>
<td><strong>LIABILITIES AND NET ASSETS</strong></td>
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<tr>
<td>Current liabilities:</td>
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<td>Accounts payable</td>
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<td>Deferred dues and subscriptions</td>
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<td><strong>Total current liabilities</strong></td>
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<tr>
<td>Long-term liabilities:</td>
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<tr>
<td>Deferred dues and subscriptions</td>
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<td>4,314.00</td>
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<tr>
<td><strong>Total long-term liabilities</strong></td>
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<tr>
<td><strong>Total liabilities</strong></td>
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<td>250,461.00</td>
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<tr>
<td>Net assets</td>
<td>7,822.00</td>
<td>85,519.00</td>
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<tr>
<td><strong>Total Liabilities and Net Assets</strong></td>
<td>247,262.00</td>
<td>335,980.00</td>
</tr>
</tbody>
</table>
### Revenue:
- Subscription and other publication income: $186,631.00, $200,198.00
- Annual meeting income: 196,536.00, 130,394.00
- Dues: 118,011.00, 103,596.00
- Interest income: 5,345.00, 4,029.00
- Contributions-plant: 24,750.00, 35,500.00
- Contributions-toxicology: 14,706.00, 1,100.00
- Contributions-other: 7,919.00, 27,515.00
- Management Fee (IAPTC&B): -623.00
- Miscellaneous income: 29,766.00, 20,743.00

**Total revenue:** 583,664.00, 523,698.00

### Expenses:
- Program services
  - Publications: 155,420.00, 225,455.00
  - Annual meeting expenses: 289,715.00, 221,530.00

**Total program services:** 445,135.00, 446,985.00

- Supporting services
  - Administration: 213,703.00, 167,368.00

**Total expenses:** 658,838.00, 614,353.00

### Change in Net Assets:
- Before unrealized gain/(loss) on investments: (75,174.00), (90,655.00)
- Unrealized gain/(loss) in fair value of investments: (2,523.00), 853.00
- Change in Net Assets: 77,697.00, 89,802.00

### Net Assets:
- Beginning of year: 85,519.00, 175,321.00
- End of year: $7,822.00, $85,519.00