

# 2002



# Annual Report

The Society for In Vitro Biology

## ► President's Report

As President of the Society for In Vitro Biology (SIVB), I cordially invite you to active membership and participation in a premier scientific association that for over 50 years has been solely dedicated to the study of *in vitro* biology. The **strategic vision** of the SIVB is to provide an authoritative forum for scientific experiences and communication that connect international scientists, tissue engineers, and clinicians to their cultural and scientific heritage that define and set the standards for *in vitro* biotechnology. The **mission** of the SIVB is to foster the exchange of knowledge related to the *in vitro* biology of cells, tissues, and organs from plants, insects, animals and humans. The scientific focus is on biological research, development and applications of significance to science and society. The mission is accomplished through the Society journals, publications, national and local conferences, meetings, workshops and support of teaching initiatives in cooperation with educational institutions.

Since 1944, the Society has provided scientific interest and educational programs to understand the use of cells, tissues, organs, and tissue-engineered biological products. It is a scientific association with past experience and performance of *in vitro* biology that delivers for the future by building partnership with others in the biotechnology community. As a scientific community partner, the SIVB participates as an associate member of the American Association for the Advancement of Science (AAAS), American Institute of Biological Science (AIBS), BioOne Consortium, and the Council for Agricultural Science and Technology (CAST). Representatives of the SIVB are associated with the American Type Culture Collection, American Association of Tissue Banks, International Foundation for Ethical Research and the American Society for Testing and Materials (ASTM) - Committee 04 on Medical and Surgical Materials and Devices, and the International Association for Plant Tissue Culture & Biotechnology (IAPTC&B). The SIVB National K-14 Scientific Educational Programs supports collaborative partnerships with the National Academy of Science and Engineering Fair and high school community outreach projects.

The Society's two official journals, *In Vitro Cellular & Developmental Biology — Animal* and *In Vitro Cellular & Developmental Biology — Plant*, are now part of the BioOne library consortium to increase readership venues and Society revenues. The journal of *In Vitro Cellular & Developmental Biology — Animal* provides online peer-reviewed publications and manuscript tracking in cell and tissue engineering, stem cell-based therapies, standardization, novel applications and cellular models of human disease. The journal of *In Vitro Cellular & Developmental Biology — Plant* publishes peer-reviewed papers related to plant research and joint issues with the International Association Plant Tissue Culture and Biotechnology (IAPTC&B) and will move into an online system. The SIVB publishes the *In Vitro Report* as a quarterly publication of general society and member news.

Historically, the Society, as the former Tissue Culture Association (TCA), was the communication and educational source for scientists who pioneered the profession and development of *in vitro* biology. These scientists devel-

oped the technology and set the standards for using cells, tissues and organs for the production of human viral vaccines, models for cellular aging, tissue substitutes and other tissue models for advancement of science and medicine. The SIVB continues to be the organizational forum where scientists gather to discuss, improve and continue to set national and international policy regarding regulation and use of cells, tissue and organs and their products. The diversity of has advanced the fields of mammalian cell and tissue culture, as well as the areas of plant cell culture and propagation, invertebrate, marine and fish cell culture and bio-products, and *in vitro* alternatives for toxicology research, genomics, and tissue engineering.

The World Congress on In Vitro Biology is an international congress held every four years. The fifth World Congress in 2004, co-sponsored by The Japanese Tissue Culture Society (JTCA), Japanese Association for Animal Cell Technology (JAACT), and Japanese Society of Plant Cell & Molecular Biology (JSPCMB) will be held May 22-26, 2004 in San Francisco, California. The World Congress theme "Emerging Global Technologies" will attract scientific participation from many participating countries. The 11<sup>th</sup> International Congress On Invertebrate Cell & Tissue Culture will meet in conjunction with the World Congress. A list of preliminary World Congress plenary symposiums, educational workshops, and program topics will be available at the 2003 Portland, Oregon Congress and annual Society meeting. A pre-registration rate will be offered to members and interested scientists who register for the World Congress before July 4, 2003. Scientists, sponsors, and exhibitors interested in participating in the 2004 World Congress are asked to contact Wayne Parrott, 2004 Program Chair, or the specific Section Program chairs, Alda Vidrich, Vertebrate Program Chair, Gordana Vunjak-Novakovic, Toxicology Program Chair, Amy Wang, Invertebrate Program Chair, or Mark C. Jordan, Plant Program Chair.

Please accept my invitation to become an active member and voice in the Society that provides you the benefits of participating in the scientific association that continues to enhance knowledge, provide leadership and set the standards for the profession of *in vitro* biology. Your membership and contributions serve to enhance the pursuits of scientific interests of *in vitro* biology to:

- Support programs of scientific education, training, and public information
- Publish scientific journals and convene educational meetings, workshops, and symposia
- Promote the contributions of scientists in the area and profession of *in vitro* biology and biotechnology
- Recognize the achievements of the membership and other scientists contributing to the development of *in vitro* biology
- Set the standards and professional behavior for the ethical use of cells, tissues, and organs in the development of research and clinical products

Sandra L. Schneider, President  
drsandra@stic.net

## 2002 Congress on In Vitro Biology Highlights



## ► Secretary's Report

The Secretary has the responsibility on the Board of Directors to record the minutes of the Board of Directors and serves as the Membership Committee Chair (see *Membership Report*). The Board of Directors meets three times a year to conduct Society business and plan for future activities and Congress programs. Action items generated during the Board meetings are forwarded to the various Section and Committee chairs (see Section and Committee Reports). Members are the driving force of any organization and the SIVB is no exception. The SIVB Board of Directors volunteers a great deal of time to help the SIVB remain a vibrant society. If you would like an opportunity to participate in the future of the SIVB, there are a number of ways you can indicate your willingness to build a better Society: 1) attend annual meetings, 2) volunteer for a committee, 3) become active in your section, or 4) run for an office.

Barbara M. Reed, Secretary  
reedbm@bcc.orst.edu

## ► Treasurer's Report

The fiscal results for the society for 2002 has once again seen us move into the red. While 2001 saw our unrestricted operating funds in the black and started 2002 with a surplus of \$31,230 we ended the year with a deficit net asset of \$9,384. Much of the deficit can be attributed to the 2002 annual meeting. This was due to several reasons including a poor attendance at both SIVB and IAPTC&B and the meeting being held at an expensive venue.

We are still operating under the cost cutting measures that were put in place in previous years. We have instituted as many cost saving practices as possible. There are no other measures we can take to reduce our expenses. The major issue is that our revenues continue to decline. We are still losing members and attendance at the annual meeting continues to decline as well. We will need to come together as a Society and work to retain and attract members as well as increase interest in our annual meeting.

In order to bring the Society back into a positive cash flow, it is imperative that we increase our revenue. This will require some dedication from our membership. We already have several members who have worked diligently to obtain contributions and grants to help run the annual meeting. We need to continue and increase those efforts.

The Board of Directors, under the leadership of President, Sandra Schneider, and Development Committee are working to find new sources of revenue for the Society. David Songstad, Development Committee Chair, will be leading a capital campaign to build an endowment that hopefully will be instrumental in helping the Society survive and grow.

The 2002 Annual Report includes a Treasurer's Summary Report consisting of a Statement of Financial Position and Statement of Activities for the year. The full auditor's report is available from the business office on request.

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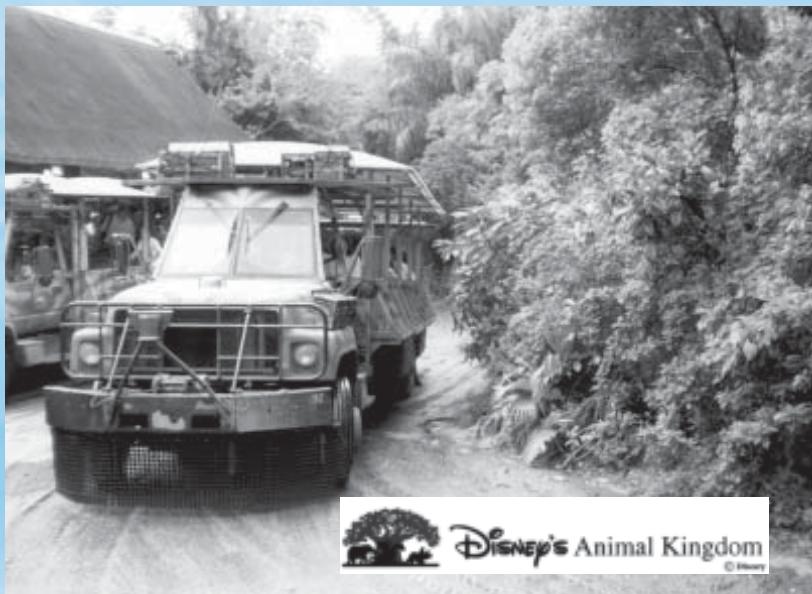
## ► Business Office Report

The 2002 Congress on In Vitro Biology, 10th International Congress on Plant Tissue Culture & Biotechnology, publications, and membership were the focus of the Business Office in 2002. The 2002 Congress was held June 26 - 29, 2002, in Orlando, Florida, at *Disney's Coronado Springs Resort*. The 2002 Congress highlighted Dr. Gordon A. Sato and Dr. Sheldon Schuster. Dr. Sato spoke on "The Manzanar Project: Contributions of In Vitro Biology, Tissue Engineering, Proteomics, and Beyond." Dr. Schuster spoke on "Commercializing Our Biotechnologies." There were two Lifetime Achievement Awards presented to Dr. Gordon A. Sato and Dr. Sadar S. Sohi for their outstanding contributions to in vitro biology. There was a Plenary and Lifetime Achievement Award Reception following the Plenary Symposium to honor the awardees and plenary speakers. Because of September 11, the Congress Program Committee decided to schedule a symposium on "Biological and Chemical Terrorism: Our Risks and Responses." Also, there were two Cool Technologies Workshops on "Preparation for Live-cell Imaging" and "Strategies and Technology for Proteomic Analysis of Eucaryotic Cells." Additionally held were two special events held during the Congress: Harbor Branch Oceanographic Institute Tour and a spectacular closing banquet, which was held at *Disney's Animal Kingdom*®. This Congress focused on issues pertinent to the Vertebrate, Invertebrate, and Cellular Toxicology Sections and gave participants a unique learning experience on animal cell culture and biotechnology.

At the 2002 Congress on In Vitro Biology, the attendance reached 251. There were 56 members, 8 non-members, and 53 one-day registrants. Also, there were 66 student registrants, and 2 guests registered.

The Society for In Vitro Biology (SIVB) worked jointly with the International Association for Plant and Tissue & Biotechnology (IAPTC&B) on their 10th International Congress on Plant Tissue Culture & Biotechnology which was held in Orlando, Florida on June 23 - 28, 2002. The SIVB was the IAPTC&B's Congress Secretariat and one of the Congress organizers for the meeting. The collaboration was mutually beneficial to both organizations. The IAPTC&B, founded in 1963, and the SIVB, founded in 1946, with total joint membership of over 3,500 in more than 65 countries, brought together the most comprehensive international gathering of plant tissue culture and biotechnologists. The attendance reached 1109. There were 325 members, 285 non-members, and 6 one-day registrations. Also, there were 193 student/Post Doc registrants, and 280 guests registered. The Business Office was responsible for the final logistical arrangements for entertainment, room assignments, audiovisual needs, and special events planned during the Congress. The Organizers of the IAPTC&B offered breakfasts, lunches, and special entertainment during the breaks. Also, the Business Office handled the processing of 83 fellowships and over 700 abstracts. The poster sessions included 550 presented abstracts. The Business Office designed the Abstract Book, Program Booklet, Addendum Booklet, and all onsite materials for the Congress. The organizers provided t-shirts, notepads, pens, and a commemorative plate to each registrant and special gifts were given to each invited speaker. The Business Office finalized all of the financial statements for the IAPTC&B Congress and the IAPTC&B Secretariat.

## 2002 Congress on In Vitro Biology and 10th IAPTC&B Congress



The IAPTC&B and the SIVB hosted a joint Science and Technology Exhibition for Industry and Academic Institutions to showcase their technology, programs, and products. This was an opportunity for organizations to meet face to face with thousands of researchers and professionals from around the world who are working in the fields of plant and animal biotechnology, cell and tissue culture, genetics, genomics, transformation, micropropagation, toxicology, cellular pathology, virology and tissue engineering. The technology and services provided by exhibitors have facilitated great strides in the fields of tissue culture and biotechnology and will no doubt continue to advance science into the new millennium. This was the first ever gathering of its kind and there were 30 companies exhibiting at the event.

The 2003 Congress on in Vitro Biology will be held in Portland, Oregon from May 31 – June 4, 2003 at the Doubletree Hotels Complex. The 2003 Congress will highlight Dr. Richard L. Stouffer, PhD, from the Oregon Regional Primate Research Center. He will be speaking on ARTistic Use of Nonhuman Primates: IVF to Cloning and Beyond. Also, there will be a presentation of the Plant Fellow Award to Barbara M. Reed and Mary Ann Lila. Additionally, this year, a new award, the Invertebrate Fellow Award, has been created and the first recipient of this award is Marcia J. Loeb. Given the current discussion on bioterrorism and the scientists responsibility in these situations, a symposium is being presented entitled, “Countering Chemical and Biological Threats: Current Research.” Arrangements have been finalized for special events at The Scotts Company on May 31, 2003; the Pittcock Mansion and Forestry Center for the Plenary Reception on June 1, 2003; a Fun Run/Walk on June 3, 2003; and a winery tour at the Greyhorse Winery on June 5, 2003. The Society for In Vitro Biology (SIVB) has always believed that the future of in vitro biology lies in today’s students. To support the Society’s vision of encouraging education and informational exchange, this year we are offering all students free registration to the scientific sessions of the 2003 Congress. Also, as an added bonus, all students who register and attend the 2003 Congress will receive free membership to the Society in 2004! SIVB is committed to the future endeavors of science and encourages the continued growth of upcoming researchers and scientists.

The Business Office has developed several promotions to retain and recruit new members due to the decline in membership. We have targeted contributing authors in our journals, nonmember meeting attendees, those who have inquired previously about the Society but have not yet become members, students and faculty of universities that have large scientific/biotechnology divisions, and those members that have not renewed in the past three years. Additionally, the office purchased broadcast email software to notify members of deadline for members, meetings, abstract submission, and other news regarding SIVB.

2002 was an exciting year for the Business Office’s Publications Department. The Business Office continued to partner with both CABI Publishing and Allen Press to publish the *In Vitro Cellular and Developmental Biology* journals, Alda Vidrich was welcomed as the new Publications Committee Chair, and the Business Office worked closely with the Publications Committee to assist in a number of decisions that were finalized during the year.

In 2002, the *In Vitro Cellular and Developmental Biology — Plant* journal renegotiated its contract with CABI Publishing. The IAPTC&B’s contract for *In Vitro — Plant* expired at the end of 2002 and, with the changing of the IAPTC&B Secretariat, decisions had to be made if the IAPTC&B would continue to publish the journal with SIVB. The new Chinese delegation agreed to continue their affiliation with SIVB and both SIVB and IAPTC&B negotiated their separate contracts so that both begin and expire simultaneously with the change of the IAPTC&B Secretariat every 4 years. This will allow any adjustments in the collaboration on the journal to be handled with ease. Additionally, the Business Office began negotiations to add the *In Vitro — Plant* journal to the BioOne consortium. It is SIVB’s hope that having the combination of *In Vitro* journals together will increase the visibility of both SIVB and the journal as a whole. Through CABI, the *In Vitro — Plant* journal has begun to be offered in consortia throughout the international community. Based on the success of the Allen Track system with the Animal journal, the Plant journal is now actively reviewing online manuscript tracking systems. During the summer, the Editors-in-Chief of the *Plant* journal placed an acknowledgement letter in issues 38.4 and 5 thanking the SIVB Plant Section in covering the page budget overage charge that occurred from the Plant journal running over its page budget in 2001. The journal stayed within budget for 2002.

The Animal journal saw tremendous growth this year in online visibility. Allen Track, our online manuscript submissions system became active in November of 2002 and has already increased the journal’s visibility. In 2002, the Animal journal also researched the feasibility to add ASAP (As Soon As Possible) Papers of accepted articles to allow faster visibility for the authors. This new functionality went live in April 2003. As part of the consortium with BioOne and its online journals, *In Vitro — Animal* has shown additional online subscription income. Beginning in August 2002, *In Vitro — Animal* has continued to have articles listed in the top 25 most requested articles’ list in BioOne. In September 2002, *In Vitro — Animal* joined Cross Ref, a collaborative reference linking service that allows the user to click on a citation and be taken directly to the target content. Participation in this service is paid for by BioOne. To further increase the visibility of the Animal journal, the Business Office organized advertising of a Call for Papers of the journal on Biotechniques.com and through BioSpace and print advertising in the Scientist. Allen Press is continuing to forward abstracting information to PubMed immediately upon publication of each issue of the journal. The Business Office started a heavy campaign to activate online access to all library subscribers who had eligibility for online access, but had not forwarded the appropriate information to activate the service. We also contacted SIVB members through email to request that they contact their university libraries and encourage the continued purchasing of the subscription and activation of online access. As a reminder, for eligible members wishing to access the online version of the *In Vitro — Animal* journal, you will need your ID number and password. Your ID number is your membership number to the Society. Your password is your first name as recorded in the SIVB Membership database (including capitals). If you do not have this information and wish to receive it, please contact the business office at [sivb@sivb.org](mailto:sivb@sivb.org).

The publications department was very active in other areas during 2002. The *In Vitro Report* began a transition to become an online publication. New ISSN numbers were organized for the online version of the publication and the first online issue to go live was the January – March 2003 issue. To receive notice of when these issues go live online, please make sure that the Business Office has your current email address or you may contact the office to request that a hard copy be mailed to you instead. In January 2002, the SIVB website was revamped to reveal a more modern and accessible look. The site undergoes constant updates and discussions are underway to activate a Members Only section of the site. Also in 2002, the Publications Office worked heavily with the IAPTC&B to produce their abstract issue, Program Booklet, and all other publications and materials necessary for the 10<sup>th</sup> IAPTC&B Congress.

The Business Office would like to thank all the members of the Society who have given of their time to support the Society for In Vitro Biology. A special thanks to the 2002-2004 Board of Directors, Committee, and Section Chairs for their support to the vision of the Society. As always, thank you to the volunteers at the 2002 and 10<sup>th</sup> IAPTC&B Congresses. We welcome your ideas and suggestions in promoting the Society for In Vitro Biology. Contact us at either [marietta@sivb.org](mailto:marietta@sivb.org) or [sivb@sivb.org](mailto:sivb@sivb.org).

Marietta Wheaton Ellis, Managing Director  
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## ► Cellular Toxicology Section

The Cellular Toxicology Section (CTS) of the Society for In Vitro Biology was established to provide a forum to promote and communicate the development, validation, and application of in vitro (cell-based) assays as surrogate models for target organ and systemic toxicity, as well as drug metabolism and bioavailability. The CTS has been successful in promoting and educating the scientific community and the Society itself of the scientific merit and ethical prudence of classic cellular toxicology. As was seen in most emerging sciences, success has created new challenges and opportunities for cellular biologists to develop novel, mechanistically-based, higher throughput assays to handle the onslaught of new chemical entities brought forward from the emerging sciences of combinatorial chemistry, genomics, and, most recently, proteomics.

The 2002 Annual Meeting of the Society of In Vitro Biology in Orlando, Florida had very active CTS participation in an exciting array of Sessions-in-Depth, Contributed Papers, Interactive Poster Sessions, and Workshops. There was extensive cooperation among Cellular Toxicology, Invertebrate, and Vertebrate Sections to bring about this timely and informative scientific meeting. Cellular Toxicology SID's included "Is It Good Enough? - An Exploration of Practical Approaches Available for Assessing the Predictive Capacity of In Vitro Tests" convened by Leon Bruner and "Tissue Engineering: How Well We Are Doing" convened by Gordana Vunjak-Novakovic and Jonathan Garlick. Collaborative efforts among the various sections resulted in very exciting and well-attended SIDs including "Stem Cells and Organogenesis" convened by Raziel Hakim and Nam-ho Huh and "Biological and Chemical Terrorism: Our Risks and Our Responses," convened by William J Smith. A "Cool Technologies" Workshop attracted quite a lot of attention bringing to the meeting information on the latest advances in live cell imaging instrumentation as well as instrumentation and methodology for proteomics analysis of eukaryotic cells. Contributed Paper Sessions included such topics as "Microgravity Bioreactor Cultures" and "Cancer Cells" moderated by Kim O'Connor. Finally, the Interactive Poster Sessions drew a lively attendance as well as fruitful discussions among attendees. These sessions covered a variety of topics including "Cell Identification and Preservation" and "Differentiation" moderated by Lia Campbell; "Differentiated Epithelium" with John Harbell moderating; "Invertebrate and Fish Cell Culture: Generation and Application of Cell Lines" moderated by Guido Caputo and "Cancer Cells: Regulation of Tumor Cells," and "Cancer Cells: Evaluation of Anti-Cancer Drugs" moderated by June Bradlaw.

The CTS is grateful for the sponsorship received from Bioprotech, Thermo Finnigan, Gibco Invitrogen, Institute for In Vitro Sciences, GlaxoSmithKline, and US Army Medical Research and Materiel Command. The CTS would also like to thank the many other sponsors and exhibitors who supported the Society's program and events or that made contributions to the Society's general fund.

The CTS congratulates the recipients of the 2002 Lifetime Achievement Award: Drs. Gordon A. Sato and Sadar S. Sohi. Their dedication to science and the betterment of life for their fellow man has been an inspiration to us all. We, as a Society of scientists, have been truly fortunate to count Drs. Sato and Sohi as friends, mentors, and colleagues. Additionally, the CTS was proud to provide the annual Cellular Toxicology Student Award to Jeena Easow from the State University of New York for her work entitled "Evaluation of the Penetration and Cytotoxic Effects of Drug Formulations on an *In Vitro* Nasal Mucosal Model." We appreciate all contributions and efforts of our students who submitted their work for consideration. All are winners!

The annual CTS business meeting was held jointly with the Vertebrate Section. The program for 2003 dominated the discussion and led to some lively brainstorming to formulate topic areas for this next meeting. An exciting meeting is planned with timely scientific sessions including a consideration of epigenetic toxicants, growth factors as well as cancer modeling and treatment. The program for 2004 also received some consideration since that will be a World Congress and more time is required to develop a strong scientific program.

On behalf of the Cellular Toxicology Program Committee, we thank you for your attendance of the 2002 meeting and participation in its program and many activities. We appreciate your continued support of the mission and objectives of the CTS and of the SIVB.

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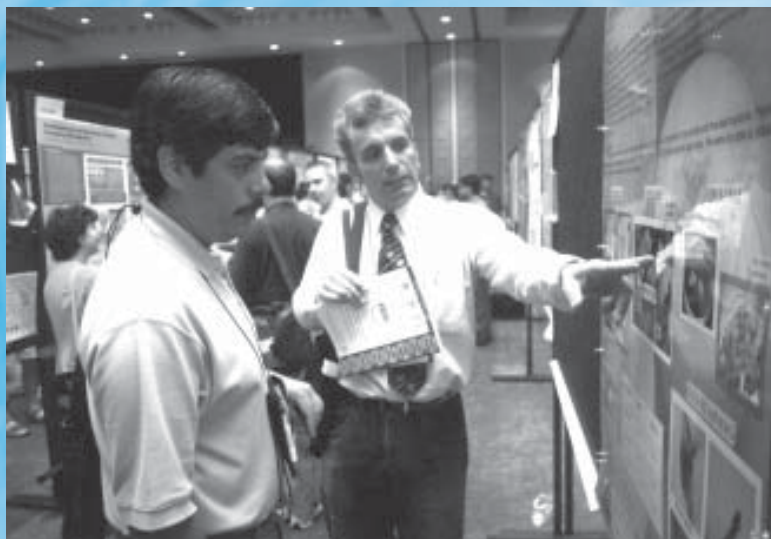
## ► Invertebrate Section

The 2002 Congress on In Vitro Biology was held June 25 – 29, in Orlando, Florida. The invertebrate section has succeeded in achieving all the goals in symposiums and sessions, which included: 1) the Joint Vertebrate/Invertebrate/Toxicology Symposium entitled "Stem Cells and Organogenesis" (Ray Hakim and Nam-ho Huh conveners), sponsored by Aventis Cropscience (now Bayer Cropscience) and Japanese Tissue Culture Association; 2) the Joint Invertebrate/Vertebrate Symposium entitled "In Vitro Approaches to Production of Marine-Derived Drugs" (Shirley Pomponi convener), sponsored by GlaxoSmithKline; 3) a contributed paper session chaired by Marcia Loeb on "Proliferation and Differentiation Mechanisms of Insect Stem Cells and Turtle Gonad Cells"; and 4) Interactive Poster Session (Guido Caputo moderator) on "Invertebrate and Fish Cell Culture: Generation and Application of Cell Lines". The interactive poster session was well received. In addition, the Invertebrate/Vertebrate/Toxicology Sections joined forces to put on two Cool Technologies Workshops. These were hands on/interactive presentations, both convened by Lia Campbell (Organ Recovery Systems). They included "Preparation for Live-cell Imaging" presented by Dan Focht from Bioprotech, and "Strategies and Technology for Proteomic Analysis of Eucaryotic Cells" presented by Colette Rudd from Thermo Finnigan.

In the 2002 Congress on In Vitro Biology, the Invertebrate Section proudly presented the Lifetime Achievement Awards to Dr. Gordon Sato (Department of Fisheries, Masawa, Eritrea) and Dr. Sardar S. Sohi (Natural Resources Canada, Canadian Forest Service, Canada). Vivian Dayeh, University of Waterloo, Canada, was awarded the Honor B. Fell Award, the Joseph F. Morgan Award, and the SIVB Student Travel Award for her abstract entitled "Toxicity of Alkylated Naphthalenes to a Rainbow Trout Gill Cell Line".

For the next two years, 2003-2004, we have new officers for the Invertebrate Section. Amy Wang (GlaxoSmithKline, RTP, NC USA) is the President; Guy Smagghe (Ghent University, Ghent Belgium) is the Vice President. Guido Caputo (Natural Resources Canada, Canadian Forest Service Great Lakes Forestry Centre, Canada) will remain in his role as Secretary. During the Congress, we had a section business meeting. The new officers thanked the previous officers for their hard work and commitment. Cindy Goodman and Ray Hakim offered

## 2002 Congress on In Vitro Biology and 10th IAPTC&B Congress



to continue their support of our section. When Amy Wang was on a leave of absence, Cindy Goodman took over responsibility for the Invertebrate Section program. The leaders and members have discussed the topics for the Congress in 2003 and 2004. We discussed the strategies on recruiting members for the Invertebrate Section, and on fund-raising. Ray Hakim is taking the leadership on recruiting new members and attracting more people to attend our meetings. To achieve this goal, several members generated a list of people's name who have missed coming to the SIVB Congress in the last couple of years. Amy Wang, as the President, contacted these people to invite them come to the meeting again. Amy also e-mailed SIVB Advisory Board Members asking for advise and help for funding.

Currently the Invertebrate Section is focusing its efforts on the preparation of the 2003 Congress on In Vitro Biology to be held in Portland, Oregon, May 31 to June 4, 2003. The Invertebrate Section will host an intensive symposium with six invited speakers on "Growth Factors in Growth Regeneration and Differentiation of Invertebrate Cells", and a joint session with the Vertebrate Section entitled "Delivery of Genes to Mammalian Cells with Baculoviruses". The Invertebrate Section will also have two interactive poster sessions at the 2003 Congress entitled: "Insect Cell Lines for BioControl" and "Insect Midgut Stem Cells". The fund raising team is working very hard to raise funding from numerous sources, including government and industrial sources. We will also have an important Section Business Meeting to finalize the topics for 2004 World Congress on In Vitro Biology and to discuss future plans for our Section.

During the 2003 Congress, Dr. Marcia Loeb will be the recipient of the "Invertebrate Fellow Award". She will be the first winner of this award from Invertebrate Section. This will be an important event for our Section.

We hope to see more members participating in Portland meeting in June 2003.

Amy Wang, Invertebrate Section President  
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Guido F. Caputo, Invertebrate Section Secretary  
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## ► Plant Section

In 2002, the Plant Section was led by Dr. Mike Horn (Past President) and myself (current Chair). One item immediately noticeable is the title change. Our bylaws indicate the title of our section's chief officer is "Chairman". (I have taken the liberty to delete "man" from this title.) Historically, there must have been a change to "President", but it was not reflected in the bylaws. Much larger issues with our current bylaws need to be addressed since they no longer accurately describe *who we are*, *what we do* and *how we conduct business*. Therefore, I appointed a Bylaws Committee, led by Dr. Ray Shillito, to study such and they will make recommendations to be addressed at the 2003 Plant Section Business meeting in Portland.

This past year (2002) was unique for us in that the Plant Section's meeting was held in conjunction with the 10<sup>th</sup> IAPTC&B Congress. Under Past President Horn's leadership, our section contributed a significant amount of funds in support of that meeting, and in December, 2002, Dr. Indra Vasil (President of IAPTC&B) contributed a significant amount back to the Plant Section. That organization also provided complimentary copies of the IAPTC&B is-

ues of the journal *In Vitro - Plant* to members of our section, and have donated meeting items to be handed out in Portland. We are grateful for these generous contributions!

As our Plant Program Committee was not intimately involved in program development for the 10<sup>th</sup> IAPTC&B Congress, we look forward to the 2003 Congress on In Vitro Biology in Portland. Dr. Harold Trick (2003 Plant Program Chair) and Dr. Mark Jordan (2003 Plant Program Co-Chair) have worked extremely hard on our program. Thanks to their efforts and those on the Plant Program Committee, we have a full, exciting meeting scheduled.

Two interrelated issues that continue to face the Plant Section and the entire Society include reduced membership and funds. In 2002, the Plant Section was comprised of 411 members, down from 498 in 2001. Overall, the Society lost 172 members in 2002. One way to address membership is to ensure excellent scientific programs at our annual meetings that should help draw people to the Society and the Plant Section. Tied to an excellent program are sufficient funds to support such a meeting. To aid in attracting people to the 2004 World Congress, the Plant Section has provided substantial funds to host the Plenary Session. This will enable the Program Committee to invite an internationally renowned scientist to address an area of broad interest to all attendees. Dr. Suzanne Rogers (Plant Section Vice Chair) and Dr. Lisa Lee (Plant Section Secretary) provided valuable input on this collective decision.

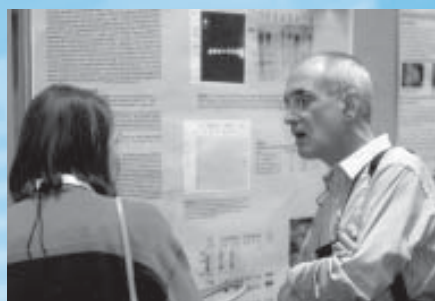
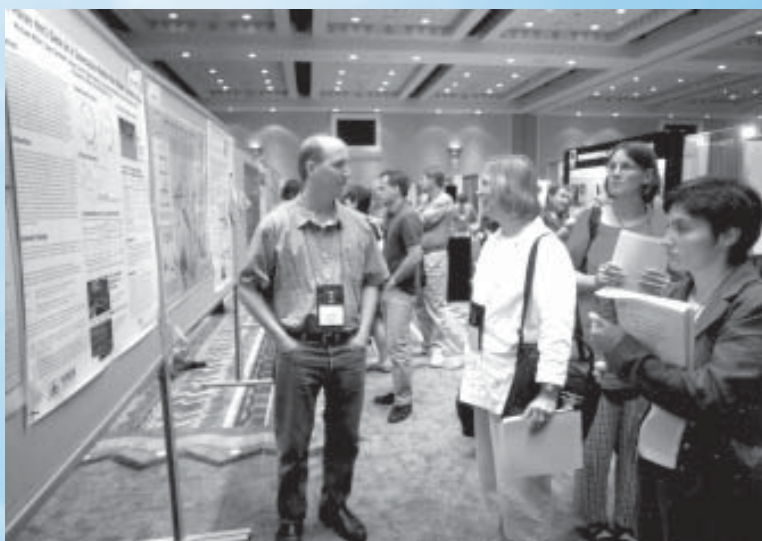
In the past, the Plant Section has been extremely fortunate as we could rely on certain companies to provide substantial monetary contributions on a yearly basis. We are grateful for their continued alliance with our section, but we also realize that business dynamics have changed. To enhance our list of fund raising contacts, Past President Horn initiated a Plant Development Committee led by Dr. Jordan. They have already updated and expanded a mailing list that now includes 90 contacts for fund raising efforts.

In closing, I would like to acknowledge the outstanding leadership demonstrated by Past President Horn, Dr. Charles Armstrong (Past Vice President) and Dr. Heidi Kaepler (Past Secretary/Treasurer). Their efforts enhanced our section in many ways. I would also like to acknowledge many other Plant Section members, too numerous to mention, for their considerable efforts in 2002 and continued commitment to this section and the Society. I challenge some section members to become more active — participate in the scientific programs and business meetings, join the committees mentioned above, and continually suggest means for improvement. With your help, we can all look forward to a productive, scientifically-rich year ahead.

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## ► Vertebrate Section

The Vertebrate Section continues to provide its members with information on the latest research activities in vertebrate cell biology, a training forum, and continuing education research methods and information on applied sciences. The Section continued these activities at the 2002 Congress on In Vitro Biology by hosting or co-hosting 6 symposia, 2 workshops, and numerous poster sessions. Especially well received at the Congress were the interactive poster ses-



sions: Basic Culture Technique (V/CT), Moderator: Lia H. Campbell, Organ Recover Systems; Differentiated Epithelium (V/CT), Moderator: John Harbell, Institute for In Vitro Sciences; Invertebrate and Fish Cell Culture: Generation and Application of Cell Lines (IV/V/CT) Moderator: Guido Caputo, Natural Resources Canada, Canadian Forest Service; Cancer Cells (V/CT) Moderator: June A. Bradlaw, International Foundation for Ethical Research.

The Section was thrilled to see Dr. Gordon Sato receive the Lifetime Achievement Award at the Annual Meeting. Dr. Sato has been an inspiration to many members of the Vertebrate Section and members of the society in general. Please review the Jan.-Mar. 2003 Issue of *In Vitro Report* for the details of Dr. Sato's contributions to cell culture, this society, and his most recent accomplishments in Eritrea.

The business meeting of the Vertebrate Section was held jointly with the Cellular Toxicology Section and Laboratory Safety Committee during the 2002 Congress. Liz Roemer, outgoing Chair, of the Vertebrate Section opened the meeting by thanking Janis Demetriulias and Dennis Laska for the efforts during the past year. A special thank you was made to all of the Congress Donors and Sponsors with special recognition to the Congress Laureate Sponsor, the US Army Medical Research and Material Command. The Congress Symposia Sponsors were Aventis CropScience, GIBCO Invitrogen, GlaxoSmithKline, Institute for In Vitro Science, Japanese Tissue Culture Association, National Aeronautics & Space Administrations. Congress Workshop Sponsors were Biopetechs and Thermo Finnigan. Lifetime Achievement Award Donors and Sponsors, A&G Pharmaceutical, Inc., ATCC, Boston Biologicals, Inc., Natural Resources Canada, Canadian Forest Service, Great Lakes Forestry Centre, Raven Biotechnologies, Inc, Oriental Yeast Company, and Zeria Pharmaceuticals, were also thanked. New officers were introduced: Janis L. Demetriulias, Chair, William J. Smith – Co-Chair, and Linda Jacobsen, Secretary. Eugene Elmore discussed the lifetime achievement award process for next year, and that members should look for descriptions that will be in upcoming *In Vitro Reports*.

The Sections worked together to identify program areas for the 2003 Congress which will be held in Portland, Oregon. Among the topic areas discussed were Cellular Models for Bioterrorism, Epigenetic Mechanisms, Cancer Therapies, Proteomics, Gene Therapy, and in particular Gene Guns, Molecular Targeting. Baculovirus for Protein Production and Culture Contamination were considered for joint sessions with the Invertebrate Branch. The possibilities of joint sessions with other societies were also discussed. William Smith is the Program Chair and it promises to be a very exciting Congress. The Congress will start Sat. May 31, and continue through June 4<sup>th</sup>. Mark your calendars to be in Portland Oregon next year.

Janis Demetriulias, Vertebrate Section Chair  
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## ► History Society

The History Society was established to: preserve historical information concerning the growth, maintenance and *in vitro* experimental use of cells, tissues, and organs and to acquaint investigators with the history of tissue culture. To this goal, the History Society, along with the **Records and Historical Committee** oversees contributions to the SIVB archives located in the library of the University of Maryland, Baltimore, MD, USA. Serving on the History Society and Records and Historical Committee are: Leonard J. Schiff, (President and Vertebrate member), Jon Ryan (Vice President) Martha Wright (Secretary/Treasurer), Karl Maramorosch (Invertebrate Member), June Bradlaw (Cellular Toxicology Member), and James H. M. Henderson (Plant Member).

The Committee held its annual meeting at the 2002 Congress on In Vitro Biology held at Disney's Coronado Springs Resort, Orlando, FL. High school students who presented posters sessions as part of the Education Committee program were introduced and participated in the History Committee meeting.

Len J. Schiff, History Society Chair,  
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## ► Awards

The highest honor given by the Society for In Vitro Biology is the Lifetime Achievement Award. The recipients of the Lifetime Achievement Award are selected by vote of the Board of Directors from a list of nominations received and recommended by the Awards Chair. The Lifetime Achievement Award was presented to Dr. Gordon Sato and Dr. Sardan Sohi at the 2002 Congress on In Vitro Biology. **Gordon Sato, Ph.D.**, is best known for his contribution to the understanding of the multiple factors required for the culture and husbandry of mammalian cells outside the body. He also pioneered the field of serum-free defined culture of differentiated cells, discovered the role of local-acting hormones

and polypeptide regulators in the process, and was the first to pioneer the concept of the for-profit company. The ultimate in this concept Upstate Biotechnology, Inc., a foundation that was designed to provide products from the efforts of basic researchers to others, while also building profits for endowment to a unique non-profit graduate research institute in NY, the W. Alton Jones Cell Science Center. As the Center's Director, Dr. Sato established modern protein chemistry and molecular biology applied to cell culture biology problems, and established a PhD program with Clarkson University with 30 students in residence at the peak. In addition, he continued the advanced educational mission of the Center and increased its visibility by establishing the Cell Center-sponsored International Symposium on Cellular Endocrinology. Dr. Sato was President of the Tissue Culture Association (now SIVB) from 1984 to 1986 and was Editor-in-Chief of *In Vitro Cellular and Developmental Biology* from 1987 to 1991. He is a member of the National Academy of Sciences and Adjunct and Honorary Professor at many universities throughout the world. He is the author or coauthor of over 150 publications in cell and molecular biology.

**Sadar S. Sohi, Ph.D.**, is an internationally known scientist for the development of continuous insect cell lines and other *in vitro* systems required for the development of biorational and environmentally friendly insect control agents. His research has led to the development of over 80 continuous cell lines from the tissues of several important forest insect pests, such as the eastern spruce budworm, western spruce budworm, forest tent caterpillar, red-headed pine sawfly, white-marked tussock moth and white pine weevil, and an agricultural pest, the tobacco hornworm. Some of these cells have been in culture since 1969, and all the cell lines have been freeze-preserved in liquid nitrogen storage. Dr. Sohi has demonstrated that many of his cell lines are susceptible to microsporidia, and the delta-endotoxin and beta-exotoxin of *Bacillus thuringiensis*, and some of them respond to the moulting hormone, ecdysone, and its agonists such as the Rohm and Haas insecticidal compounds RH-5849, RH-5992, and the juvenile hormone. Several of these cell lines are being used by many researchers around the world in countries such as Australia, Belgium, Canada, France, Germany, New Zealand, Sweden, Switzerland, The Netherlands, United Kingdom, and USA for the *in vitro* investigations of insect pathogens and other insect control agents. He has been a member of the Society for In Vitro Biology for over 30 years and was one of those responsible for organizing the Invertebrate Section within TCA in the early 1970's. He served as the first secretary of the Invertebrate Section from 1971-1975 as well as serving on the Constitution Committee from 1971-1972 and reviewing papers for *In Vitro Cellular and Developmental Biology – Animal*. Dr. Sohi has authored or coauthored over 70 publications, and has presented over 100 papers at national and international scientific meetings.

The Philip R. White Award is for those desiring to continue training in plant tissue culture and was presented to **Allison Wiseman**, Rock Valley, NSW, Australia. The Philip R. White Award winning project includes the investigation of methods of biosynthesizing 5HTP from embryonic calli of *Griffonia simplicifolia*. The Philip R. White Committee members are Drs. Carol Stiff (Chair), Satyahari Dey, Michael Kane, John Lunghusen, and Raymond Shillito.

The Student Affairs and Awards Committee presented the following awards at the banquet of the 2002 Congress in Orlando, Florida. **Kim Elsen**, Free University of Brussels, Brussels, Belgium, received the Wilton R. Earle Award and the SIVB Student Travel Award for her paper, "*Effects of a Fat Body Extract on Larval Midgut Cells and Growth in Several Lepidoptera*". **Chhandak Basu**, University of Rhode Island, Kingston, RI, received the SIVB Student Travel Award for his paper, "*Organ and Tissue Specificity of Expression of a Reporter Gene Driven by Various Promoters in Transgenic Turfgrass*". **Soroosh Radfar**, Universite Paul Sabatier, Toulouse, France, received the SIVB Travel Award for his paper, "*Modulation of Fas Expression and Sensitivity to Fas-induced Apoptosis in Human Cancerous Pancreatic Ductal Cells Maintained in Culture and Xenografted in Nude Mice*". **Vivian Dayeh**, University of Waterloo, Waterloo, Ontario, Canada, received the Honor B. Fell Award, Joseph F. Morgan, and the SIVB Student Travel award for her paper, "*Toxicity of Alkylated Naphthalene's to a Rainbow Trout Gill Cell Line*". **Jeena Easow**, State University of New York-Stony Brook, Syosset, NY, received the Cellular Toxicology Award, and the Hope E. Hopps Award for her paper, "*Evaluation of the Penetration and Cytotoxic Effects of Drug Formulations on an In Vitro Nasal Mucousal Model*". **Alvar Carlson**, University of Wisconsin/Madison, Madison, WI, received the John S. Song Award for his paper, "*Expression of Putative Antifungal and Resistant Cascade Regulatory Genes in Oat and Their Effects on Fungal Resistance*". The Student Affairs and Awards Committee members are Drs. Gertrude Buehring (Chair), Craig Meyers, Suzanne Rogers and Pamela Weathers.

Eugene L. Elmore, Awards Committee Chair  
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## ► Development

The Development Committee is charged with the responsibility of fund raising to support the Society's programs, workshops, and other educational venues. Members of the Development Committee include the chairs and co-chairs from each of the Sections (Cellular Toxicology, Invertebrate, Plant, and Vertebrate), members, and corporate advisors interested in the promoting and assisting with the financial stability of the SIVB. The 2002-2004 Committee includes: **David Songstad** (chair), Monsanto; **Janice Demetrulias**, Technikos Research Associates; **Barbara Doonan**, UST; **John Harbell**, Institute for In Vitro Science Inc.; **Hank Lane**; **Lisa Lee**, The Scotts Company; **Mark C. Jordan**, Agriculture & Agri-Food Canada; **Gordana Vunjak-Novakovic**, MIT; **Nancy A. Reichert**, Mississippi State University; **Elizabeth Roemer**, SUNY, Stony Brook; **Sandra L. Schneider**, Research & Clinical Laboratory Systems; **Raymond Shillito**, Bayer CropScience Corp Biotechnology; **Guy Smagghe**, University of Gent Laboratory of Agrozoology; **William J. Smith**, U.S. Army Medical Research Institute of Chemical Defense; **Alda Vidrich**, University of Virginia Health Science Center, and **Amy Wang**, GlaxoSmithKline.

The Development Committee's goal during the next two years is to raise \$1M in funding to secure the financial stability of the Society. As part of this endeavor, the Board of Directors has approved the Committee's request to hire a consultant to assist with grant and fund raising at foundations, private institutions, and other resources outside the general Committee funding resources. The Committee is in the process of drafting a fund raising plan, milestones for the fund raising activity(s), and description for the role of the Development Consultant. Each of the Society Sections and educational committees are working to develop and align funding priorities with the SIVB mission, as well as the upcoming Congress programs and workshops. The members of the Development Committee are committed to support the effort of the Board of Directors in securing new sources of funding that will contribute to the long-term capital and building of an endowment for the Society of In Vitro Biology.

David D. Songstad, Vice President and Development Committee Chair  
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## ► Education

**SIVB 2002 Meeting:** The education committee sponsored several outreach activities at the SIVB 2002 meeting in Orlando. On Thursday, 30 students and 5 mentors from NASA's summer research program joined us for the day, attending sessions, posters, and exhibits. This was co-sponsored by NASA. In addition, five high school students and their mentors or parents joined us to present their original research projects at a special poster session and reception on Tuesday evening. They then stayed to attend the meeting, joining us for the symposia that interested them, and exploring the exhibit hall. We had specific feedback on the Bioterroism session, both from the students and parents who attended, and from the speaker, who was particularly pleased at the level of interest coming from such young scientists. The poster presentations included: "*Agrobacterial Transformation and Transfer of an Antifreeze Protein Gene from the Pyrochroid Beetle Dendroides Canadensis to Enhance Cold Tolerance in Arabidopsis thaliana*" by **Lindsay R. Chura** from the Academy of the Holy Names High School, Albany, NY; "*Investigation of a Signal Transduction Pathway Activated During Regeneration in Hydra*" by **JoAnn Hsieh** and **Ashley Kepping** from Northport High School, Northport, NY; "*Accessibility of Mononuclear Cell-bound Neutrophil Elastase to Inhibitors: Implications for Inflammatory Cell Invasiveness*" by **Courtney Lieblich**, Smithtown High School, Smithtown, NY; and "*The Fungus Among Us in the Wash*" by **William Mahon** from Advanced Technologies Academy, Las Vegas, NV. In addition, **Julia Finer** from Ohio presented her work "*Use of Seed Germination from Mature Fruits as a Model for the Introduction of In Vitro Plant Biology to Middle School Science Students*" as part of the IAPTC&B poster session. Our thanks go to both **Colgate-Palmolive, Inc.** and **NASA** for their financial support.

There were no professional development programs developed specifically by the education committee for Orlando 2002. However, **Lia Campbell** was able to secure several excellent workshops. The Education Committee meeting was short and sweet. We had 2 graduate students, **Tristan Kraft**, and **Paul Cohill** who were interested doing outreach and who will, I hope, continue to work with us.

**NABT 2002 Meeting:** The SIVB Education Committee sponsored 3 workshops at the National Association of Biology Teachers, **NABT** (<http://www.nabt.org/>), meeting in Cincinnati, OH, Oct 30-Nov 3, 2002. *Plant Tissue Culture in the Classroom*: a 3 hour hands-on special workshop for High School and 2-year College teachers, taught by **Carol Stiff**, SIVB, Kitchen Culture Kits. *In Vitro Collecting (IVC) as a Tool for Education*: a 75 minute hands-on workshop for Junior High and High School Teachers, taught by **Bernadette Plair**, CREW, Cincinnati Zoo and Botanical Garden. *Using Hydra to Evaluate the Efficacy of Phytoremediation*: a 75

minute paper/demonstration for high school teachers, taught by **Pat Bossert**, SIVB, Northport High School/LIGASE. In addition, **Ken Torres** of Phytotechnology Laboratories had a booth in the exhibit hall where he displayed our SIVB journals. The meeting was instrumental in making an initial connection between Phytotechnology and CREW with a future goal of developing CREW's kit for distribution.

**Liz Roemer** attended the 4-year College section breakfast and business meeting to introduce them to the SIVB. She is now representing SIVB on the 4-year College Section's Pre-college Committee. The NABT pre-College Committee is currently reviewing their Collegiate Resources List and will be revising the current database. At present the database contains a nation-wide list of 4-year college teachers who are willing to be a resource for high school teachers. Once it is updated, we explore expanding it to include additional resources, including scientific organizations and industry labs. At that point the SIVB's connections will be extremely valuable.

**Long Range Plans:** Consultations are already underway with **Elaine Johnson**, the Director of **BIO-LINK** about setting up programs for 2004. **BIO-LINK** (<http://www.bio-link.org/>) is headquartered in San Francisco and has extensive connections to the local community colleges and biotech industry. In addition, through **Pat Bossert**, we are continuing our relationship with **LIGASE** (<http://ws.cc.stonybrook.edu/ligase/>), the "*Long Island Group Advancing Science Education*" located at Stony Brook University in NY.

The Education Committee is always looking for members who are interested in helping out. In addition to the sorts of outreach programs described above, we are looking to organize professional development programs for the SIVB annual meeting. These can be sessions in any format on topics of interest to our meeting attendees. 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, Education Committee Chair  
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## ► 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, and private industry and include: **John Harbell** (chair), Institute of In Vitro Sciences; **Sandra L. Schneider** (co-chair), Research and Clinical Laboratory Systems; **June Bradlaw**, International Foundation for Ethical Research; **Walter Finkbeiner**, University of California-San Francisco; **Thomas Goodwin**, Johnson Space Center, NASA; **John Masters**, University College London, Institute of Urology-UK; **Colette Rudd**, ThermoFinnigan; **Lynn Rutsky**, The University of Texas Health Science Center Houston; **William J. Smith**, U.S. Army Medical Research Institute of Chemical Defense; **Glyn N. Stacey**, National Institute for Biological Standards and Control-UK; **Valerie Williamson Weed**, VivoRx; and **Alda Vidrich**, University of Virginia Health Sciences Center

The LMBC met with the Vertebrate and Toxicology Sections during the 2002 Congress in Orlando, Florida and continues to actively promote and support topics related to tissue engineering, public health policy and risk analysis. Toward this goal, Committee members work with the FDA Center for Devices and Radiological Health in the area of regulatory and standardization for biomaterials and tissue components used in medical devices and materials implants. **Paul Price**, SIVB Policy Committee Chair and subcommittee member of the ASTM Committee F04 on Medical and Surgical Materials and Devices of the American Society for Testing and Materials (ASTM), reported the completion of tissue engineering standards and guidelines to be used for Cell-Based Products, Growth Factors, and Living Cells.

John W. Harbell, Laboratory and Materials Biosafety Committee Chair  
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Sandra L. Schneider, Laboratory and Materials Biosafety Committee Co-chair  
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## ► Membership

The future of the society rests on our ability to attract new members and encourage their participation in society activities. If you, as a member, enjoy the publications, meetings, and interdisciplinary atmosphere of the SIVB, we need your help in increasing membership this year. Let your associates know about the exciting programs presented at the SIVB meetings and the opportunity for members to participate in the planning process. Get them to attend, join, and take advantage of the benefits of SIVB membership.

During the last year, the membership committee has spearheaded initiating email alerts to the membership. We hope these alerts will better inform our members of the activities and benefits of the society. These include alerts to:

- encourage scientists to have their students join, with a link to a PowerPoint presentation on the web page highlighting benefits for students
- notify members of changes to the web page; announce deadlines for meetings and abstracts; travel awards for students
- request information for the *In Vitro Report* and ask for committee volunteers; journal publication reminder and table of contents; link to "information for authors" to encourage submissions
- renew membership and ask for names and emails of associates who might be interested in membership
- provide voting information in advance of the election with a link to CV and "officer position descriptions" on the web page; nominate associates for SIVB awards.

Getting the membership to grow will take a group effort on the part of all our members. Please encourage your colleagues or students to join and attend the meetings. Students are the future of the SIVB. Free meeting registration and complementary 1-year memberships could provide the incentive for students to "look us over" and see the benefits of our society.

SIVB meetings offer excellent science, and it is possible to have a number of smaller symposia, which allow a great diversity of topics so there is something for everyone. Also, in terms of "value for money" there is a lot in the SIVB meetings. Although the meetings are held in the US, they are indeed very international in terms of science and the participants. The SIVB offers so much extra in terms of support groups, networking potential, Newsletters, and Journals, and all in the context of multi and interdisciplinary science.

### 2002-2004 Membership Committee

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## ► Nominating

The Nominating Committee is actively seeking member input for potential candidates for the following positions, slated for election for fall 2003 ballot:

<b>Board of Director Officers:</b>	<b>Other Elected Committee Chairs:</b>
President-Elect	Awards
Vice-President	Education
Secretary	Lab Materials & BioSafety
Treasurer	Consitution & ByLaws
Members-at-Large	

Please contact the Nominating Committee Chair, Mary Ann Lila (imagamal@uiuc.edu or 217 333 5154) to voice your support for candidates for any of these open slots, or to discuss any suggestions/concerns about the balloting and election timing and process.

Mary Ann Lila, Nominating Committee Chair  
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## ► Program

The 2002 Congress on In Vitro Biology was held at Disney's Coronado Springs Resort in Orlando, FL, from June 25 – 29. This year's meeting focused specifically on issues relevant to the Vertebrate, Invertebrate, and Cellular Toxicology sections of the Society. The SIVB Plant Section members attended the 10<sup>th</sup> IAPTC&B Congress. This year's Annual Meeting was an intimate event allowing more focused presentations and networking. All attendees of the IAPTC&B Congress were invited to attend the SIVB Congress sessions. The sessions were scheduled to involve few concurrent sessions to enable all attendees to be involved in almost every session presented. Over 100 members, nonmembers, and students traveled to Orlando to share in this special experience.

The Lifetime Achievement Awards presentation was held on Wednesday, June 26. Both Drs. Gordon Sato and Sardar Sohi were presented with the Lifetime Achievement Award for their work in the field of in vitro biology. Mary Ann Lila presented the award to Dr. Sato, a former president of the Tissue Culture Association (now SIVB) from 1984 to 1986 and Editor-in-Chief of *In Vitro Cellular and Developmental Biology* from 1987 to 1991. Dr. Sohi was unfortunately unable to attend the event, but his acceptance speech was recorded in Canada and was presented at the Congress by Dr. Guido Caputo to the attendees on Dr. Sohi's behalf. We were sad that Dr. Sohi was not in attendance, but very pleased with his acceptance.

Following the Lifetime Achievement Awards were the two Plenary Sessions. Dr. Sheldon Schuster, director of the Biology Program, at the University of Florida, Gainesville, spoke on "Research and Development in the Biotechnology Industry: Outlook for the Future" (Shirley Pomponi and Lia Campbell, Conveners). His presentation was followed by the Distinguished Plenary Session, with Dr. Gordon Sato from the Department of Fisheries, Masawa, Eritrea, presenting (Wallace McKeegan and Sandra L. Schneider, Conveners). Dr. Sato's presentation was on "The Manzanar Project: Contributions of In Vitro Biology, Tissue Engineering, Proteomics, and Beyond." Both speakers were extremely informative and the attendees' reaction was positive. The session was ended with a reception for all attendees to honor the awardees and presenters.

Another unique event during the Congress was a poster session for the High School students who were presenting their work at the Congress. On Tuesday evening, June 25, the Education Committee held a special session that allowed upcoming scientists, who were new to presenting their work in a scientific forum, the ability to learn these very important skills in a low-pressure environment. Today's students are the future of our research, and this experience should prove to be invaluable for them in the future. Thanks to Liz Roemer for organizing this very important session.

The remainder of the Congress Program included 6 symposia, 2 workshops, 2 contributed paper sessions, and 4 interactive poster sessions. The symposia were: "Is it Good Enough: An Exploration of Practical Approaches Available for Assessing the Predictive Capacity of In Vitro Tests" (Leon Bruner, Convener), "Stem Cell and Organogenesis" (Raziel Hakim and Nam-Ho Hu, Conveners), "Tissue Engineering: How Well We Are Doing" (Gordana Vunjak-Novakovic and Jonathan Garlick, Conveners), "Microgravity Cell Science" (J. Milburn Jessup and Neal R. Pellis, Conveners), "Biological and Chemical Terrorism: Our Risks and Responsibilities" (William Smith, Convener), and "In Vitro Approaches to Production of Marine-derived Drugs" (Shirley Pomponi, Convener). These sessions offered useful information on these topics that are so prevalent in the news now. We wish to thank all of the conveners for their hard work in organizing these sessions and to the speakers for sharing their wealth of knowledge with us.

The Interactive Poster sessions were convened on Wednesday and Thursday. These sessions allowed ample time for questions from the audience and were entitled "Basic Culture Techniques", "Differentiated Epithelium", "Invertebrate and Fish Cell Culture: Generation and Application of Cell Lines", and "Cancer Cells". The two "Cool Technologies" workshops were presented on Friday morning. Program Chair Lia Campbell convened both sessions which discussed "Preparation for Live-cell Imaging", presented by Dan Focht of Bioprotechs and "Strategies and Technology for Proteomic Analysis of Eucaryotic Cells" presented by Colette Rudd of Thermo Finnigan. This was followed by the contributed paper sessions. The Vertebrate and Cellular Toxicology Contributed Papers were presented in 2 parts: "Microgravity Bioreactor Cultures" and "Cancer Cells". The Invertebrate Contributed Paper session involved papers on "Proliferation and Differentiation Mechanisms of Insect Stem Cells and Turtle Gonad Cells."

The Congress Banquet was a special event held at Disney's Animal Kingdom. Banquet attendees were bused behind the scenes to the Animal Kingdom right at closing time. They were escorted to the Kilimanjaro Safari to take a unique end-of-the-day tour. The earlier rain that day had ended and



many of the animals that normally were not visible were clearly seen by our members. After the tour a private party was held after the park had closed for SIVB. The Awards ceremony was held at that time and awards were given to John Harbell, Distinguished Service Award, and to the 2002 Student Award winners. This year's Student Award Winners were: Kim Eisen (Wilton R. Earle Award and SIVB Student Travel Award), Chhandak Basu (SIVB Student Travel Award), Soroosh Radfar (SIVB Student Travel Award), Alvar Carlson (John S. Song Award), Vivian Dayeh (Honor B. Fell Award, Joseph F. Morgan Award, and SIVB Student Travel Award) and Jeena Easow (Hope E. Hopps Award and the Cellular Toxicology Award). Alison Wiseman, the recipient of the Phillip White Award, was not in attendance. (All Student Award abstracts will be presented in a future issue of the *In Vitro Report*.)

This year's special Science and Technology Exhibition was held in conjunction with the IAPTC&B's Congress. Over 30 booths were displaying materials of interest to our members: Publishers, informational organization, service providers, as well as the two hosting Societies. The booths were very busy and all of the exhibitors were pleased with the response they received at the event.

The Congress was a great success due to all the hard work of the Congress Organizers, Scientific Advisory Board, Conveners, and Speakers. Thanks go out to all those able to attend this special event. 2003 looks to be even more exciting and we hope to see you in Portland, Oregon this month!

Cynthia Goodman, 2002 Program Committee Chair  
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## ► Publications

The composition of the Publication Committee was changed at the 2002 annual meeting of the SIVB. David Altman's tenure as Chair came to an end and Alda Vidrich will serve as Chair from 2002-2004. The following members comprise the 2002-2004 Publication Committee: Charles L. Armstrong, Richard Heller, Wallace L. McKeenan, Gregory C. Phillips, J. Denry Sato, Sandra L. Schneider, David D. Songstad, Trevor A. Thorpe, and Martie Wright. As new Chair of the Publication Committee I would like to thank David Altman for his capable leadership and dedication and also to thank those of the committee for their hard work to make the SIVB journals viable and competitive in this ever-difficult economic time.

The Editor-in-Chief's office for *In Vitro Cellular and Developmental Biology — Animal* reports that the published totals for the past year vs. the prior year are: 65 regular papers (79 in 2001), 14 Reports [formerly scientific Letters-to-the-Editor] (20 in 2001), 0 invited reviews, and 1 Special Lecture (Gordon Sato Lifetime Achievement Award Lecture). Of those 80 submissions, 41 were accepted, 32 are still in revision or review, and 7 were rejected. Overall, the average time from receipt of a manuscript to first decision in the review process was 6.4 weeks compared to 6.8 weeks last year. In addition to the USA, there were 17 countries represented among the submissions in 2002. The submission total for 2002 (80 papers) represents a 19% decrease in total submissions from the previous year (99 in 2001). Although the decline in submissions this year, in part, reflects the lack of special SIVB sessions-in-depth papers that were published last year, it largely is the culmination of the intense competition posed by the proliferation of new online journals and the move to electronic publication by existent ones. The editorial and business offices have been feverishly working to move the *In Vitro* journal online both for publication of papers and submission and review.

Beginning mid-November 2002, the journal initiated the new electronic online submission and review system through Allen Press' AllenTrack system. This system was extensively tested and debugged by the editorial and business offices. By the end of this report period, 18 submissions were received online alone in addition to the declining hardcopy submission option that is still offered. Thus far, the average time for reaching first decisions of online papers is 4.5 weeks compared to 6.4 weeks for papers submitted as hard copy. The faster turnaround of online papers is anticipated to positively impact the currently lagging submission rate. It is also anticipated that the online system will increase the submission rate from those inhibited because of the inconvenience of sending hardcopy, particularly from authors outside the United States. Additionally, electronic submission allows for more efficient and timely use of foreign reviewers. The initial response by both authors and reviewers to the SIVB's electronic submission system has been favorable. The online publication of the journal which became effective during the year is continuously being refined and updated to make it easier to use as well as more attractive. The implementation of As Soon As Possible (ASAP) publishing of papers in pdf file format immediately after acceptance, rather than waiting to build an issue of hardcopy, is imminent and will greatly accelerate the overall time lag from acceptance to official publication. We feel that these innovations, coupled with a concerted effort in marketing that empha-

sizes the benefits of electronic submission and publication, as well as the journal's solid history and impact rating will aid in rebuilding our competitive position in the publication arena.

The Editor-in-Chief's office for *In Vitro Cellular and Developmental Biology — Plant* reports that the published totals for the past year vs. the prior year are: 122 manuscripts received (vs. 111 in 2001) that include 2 Invited Review Articles and 4 Special Interest Articles (e.g., Symposium Proceedings). Of those 116 regular papers submissions, 51 have been accepted and 15 are pending revision. The rejection rate for 2002 was 46% compared to 51% for 2001. The origin of submissions is as follows: North America - 30; Latin America - 30; Europe - 22; Middle East - 2; Africa - 1; India - 23; Asia - 14; Australia - 0. The average time from receipt a manuscript to initial decision was 7.2 weeks (range 1-20 weeks), which was a little better than the 2000-2001 average of 7.3-7.8 weeks. The overall quality of our articles is comparable to or surpassing that of our two most direct competitors (*Plant Cell Reports*, *Plant Cell Tissue and Organ Culture*), however, this still is not reflected consistently by journal impact factors. The most recent journal impact rating for *In Vitro Plant* is based on year 2001 data, at 0.559 (vs. 0.750 in 2000 data). This compares to ratings of 1.375 in 2001 data and 1.127 in 2000 data for *Plant Cell Reports*; and ratings of 0.631 in 2001 data and 0.444 in 2000 data for *PCTOC*. Journal impact ratings are influenced by: 1) Distribution and subscriptions, especially at the institutional level. This is being addressed in part by continuing efforts in marketing by SIVB and CABI, and recent Internet initiatives undertaken by SIVB and CABI; 2) Quality of articles. We have addressed this by gradually increasing the rejection rate, and by a recent (1999) refocusing of the Matrix Categories; Number of articles published. We realized a marked increase in submissions during 2000-2002, which we hope to sustain and build upon. Even with the increased rejection rate, we can publish a consistent number of articles with higher quality; and 3) Appearance of special interest articles. Since 2000 the Editorial Board has aggressively pursued more Invited Review Articles, which are now appearing regularly. We are still aggressively requesting Symposium Articles and Workshop Proceedings from the annual Congresses. Our goal is to have at least one special interest article (Invited Review Article, Symposium Article, Workshop Proceeding) per issue.

Associate Editors and Reviewing Editors are doing great work for the journal, especially in maintaining high quality! The Associate Editors and Reviewing Editors also have been responsive, keeping the average length of the review process to less than 8 weeks from time of initial receipt to time of initial decision communicated to the authors. The greatest difficulty in maintaining this timeliness is the increased mailing time required to interact with an increasingly international Editorial Board. Accordingly, we are looking at options for converting to an online system for managing manuscript submissions and editorial assessments. About 12% of the Associate Editors and Reviewing Editors were rotated off/on this year, primarily based on topic area needs. The lists of Associate and Reviewing Editors were extended with additional international members, as part of our ongoing effort to increase international visibility and recognition. Submissions this year reflected a balanced international community interest, especially with improvements from Latin America, but additional efforts to recruit manuscripts from the Middle East, Australia and Africa are needed. With the pattern of increased number of submissions in recent years, we are evaluating the feasibility of an increase from four to five SIVB issues per year (and an increase from two to three IAPTC&B issues annually).

The October-December issue of the *In Vitro Report* was the last printed issue of this newsletter. The *In Vitro Report* has joined the electronic age and will henceforth be accessed via the web. For those few who do not access the web, hard copy will be provided upon request. Martha Wright has done an excellent job as Editor-in-Chief and has continued to maintain and improve the quality of the *In Vitro Report*. As always, she needs news and articles from all members of the society in order to maintain the Newsletter as a communication tool for all members.

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## ► Public Policy

The Public Policy Committee is a new committee of the SIVB. It is a standing committee of the Society for In Vitro Biology designed to assist its members and the general public to obtain a better understanding of in vitro biology and its research process and progress. The Committee is charged to aid the officers of SIVB in their dealings with members of Congress and other governmental officials for the purpose of giving advice on funding priorities and other matters relevant to in vitro biology. With the assistance of other associations, the Public Policy Committee's goal is to actively educate its members about current issues effecting the scientific community and society as a whole.

The Society is currently a member of the following associations that work with legislators to effect national and international scientific policy. American Institute of Biological Sciences (AIBS) provides a variety of public-policy services for their members and the biological community at large. They focus on research funding, research policy, and education policy. Council for Agricultural Science and Technology (CAST) assembles, interprets, and communicates science-based information regionally, nationally, and internationally on food, fiber, agricultural, natural resource, and related societal and environmental issues to our stakeholders—legislators, regulators, policy makers, the media, the private sector, and the public. American Association for the Advancement of Science (AAAS) examines questions of concern to world citizens and their governments from human rights and ecosystem protection to federal spending, ethics, equity, and more. The International Foundation for Ethical Research or IFER is a non-profit organization dedicated to finding non-animal alternatives for scientific research.

This year we have put a Public Policy link on the SIVB home page with hyperlinks to the current public policy reports of the AIBS, CAST and the AAAS. In addition we have added links to Grant applications for IFER and Invitrogen and copies of the most current position papers for the AIBS Stem Cell and for the Crop Genetic Engineering reports.

### Public Policy Committee

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## ► Representatives of the SIVB

### American Association of Tissue Banks

Meetings of the American Association of Tissue Banks (AATB) took place in Clearwater, Florida (Mid-Year), March 23-26, 2002, and in Boston, Massachusetts (Annual), August 23-27, 2002. A separate 3-day workshop on Quality Assurance in Tissue Banking was offered November 13-15, 2002, in New Orleans, Louisiana. The Association plays an increasingly important role in training and accreditation, working closely with the FDA. Twenty-six tissue banks received accreditation and over 180 individuals were certified as Tissue Bank Specialists by examination.

Dr. Jan Pierce in Chair of the Membership Committee and related information can be obtained by calling the AATB business office at 703-827-9582. The next meeting (Annual) will be held August 23-26, 2003, in San Diego, California.

Robert J. Hay, American Association of Tissue Banks  
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### American Type Culture Collection

Distribution of cell lines by the American Type Culture Collection (ATCC) during 2002 was 67,469. This represents a two percent increase over the number provided in 2001. Replenishment stocks on 749 cell lines from CCL, CRL, TIB, HB, and HTB categories were prepared, recharacterized, and released for distribution.

Personnel in the Cell Biology Program also acquired, characterized, and preserved for distribution 138 new cell lines. Details on these and other lines available can be obtained via the internet at <http://www.atcc.org> updated each weekend. The ATCC completed a new wing to the facility for storage, business, operations, and a vivarium.

The Advisory Committee for the Cell Biology Program met at the ATCC in June to review activities. The group considered staffing, accessioning plans, research, plus contract activities, and made recommendations for future efforts. Currently, Dr. Barbara Knowles of the Jackson Laboratory is the Chairperson and Dr. Michael C. Chang is the NIH-NCCR Government Project Officer. Other external representatives included Drs. Sandra R. Wolman (D.C.), David S. Kaplan (FDA), Anne W. Hamburger (Baltimore), Neil Talbot (USDA), and William R. Tolbert (San Diego).

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## International Association for Plant Tissue Culture and Biotechnology

The 10<sup>th</sup> Congress of the International Association for Plant Tissue Culture and Biotechnology (IAPTC&B) was held in Florida during 2002. The meeting was a huge success. The IAPTC&B Secretariat and host for this international meeting was Dr. Indra Vasil. The Congress managed to have a respectable surplus from the meeting and subsequently shared this surplus with the four official hosts of the 10<sup>th</sup> Congress. The donation that the US chapter received will be used to provide financial support on a competitive basis to our members who wish to attend the 11<sup>th</sup> IAPTC&B Congress to be held in 2006 in Beijing.

During the 2002 Congress, Dr. Freddi Hammerschlag ended her 4-year term as US Correspondent for the IAPTC&B and Mark Bridgen was elected the new Correspondent for the next 4 years. The IAPTC&B is grateful to Freddi for her contributions to the Association during the past four years.

A new Advisory Council has been formed for the US-IAPTC&B. Freddi Hammerschlag is a member for one year and the other members include Kanniah Rajasekaran, Sherry Kitto, Mike Kane, and John Griffis. The Advisory Council agreed to raise dues for 2003 from \$35/year to \$40/year.

At the end of 2002, the U.S.-IAPTC&B had a healthy account balance of \$24,726. Initially, \$11,481 was transferred from Freddi Hammerschlag, \$245 was collected in dues, and \$13,000 was from the 10<sup>th</sup> IAPTC&B Congress donation. There were no expenses in the second half of 2002.

Mark Bridgen, IAPTC&B US Correspondent  
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## Plan on attending...



**TREASURER'S SUMMARY REPORT**  
**SOCIETY FOR IN VITRO BIOLOGY**  
**STATEMENTS OF FINANCIAL POSITION**

**FOR THE YEARS ENDING DECEMBER 31, 2002 AND 2001**

	2002	2001
<b>Current Assets:</b>		
Cash	\$ 177,690.00	\$ 227,100.00
Accounts receivable	\$ 14,998.00	\$ 10,848.00
Prepaid expenses	\$ 15,517.00	\$ 33,492.00
<b>Total Current Assets</b>	<b>\$ 208,205.00</b>	<b>\$ 271,440.00</b>
<b>Noncurrent Assets:</b>		
Furniture and equipment, net	\$ 15,713.00	\$ 24,173.00
Investments	\$ 165,691.00	\$ 539,454.00
Inventories	\$ 1,643.00	\$ 2,045.00
<b>Total noncurrent assets</b>	<b>\$ 183,047.00</b>	<b>\$ 565,672.00</b>
<b>Other assets:</b>		
Deposit	\$ 1,303.00	\$ 1,303.00
<b>Total Assets</b>	<b>\$ 392,555.00</b>	<b>\$ 838,415.00</b>
<b>LIABILITIES AND NET ASSETS</b>		
<b>Current Liabilities:</b>		
Accounts payable	\$ 65,464.00	\$ 87,041.00
Capital lease obligations	\$ -	\$ 2,459.00
Deferred dues and subscriptions	\$ 135,962.00	\$ 180,889.00
<b>Total current liabilities</b>	<b>\$ 201,426.00</b>	<b>\$ 270,389.00</b>
<b>Long-term Liabilities:</b>		
IAPTC&B liability	\$ 10,871.00	\$ 375,595.00
Deferred dues and subscriptions	\$ 4,937.00	\$ 5,661.00
<b>Total Long-term Liabilities</b>	<b>\$ 15,808.00</b>	<b>\$ 381,256.00</b>
<b>Total Liabilities</b>	<b>\$ 217,234.00</b>	<b>\$ 651,645.00</b>
Net Assets	\$ 175,321.00	\$ 186,770.00
<b>Total Liabilities and Net Assets</b>	<b>\$ 392,555.00</b>	<b>\$ 838,415.00</b>

**TREASURER'S SUMMARY REPORT**  
**SOCIETY FOR IN VITRO BIOLOGY**  
**STATEMENT OF ACTIVITIES**  
**FOR THE YEARS ENDED DECEMBER 31, 2002 AND 2001**

	<u>2002</u>	<u>2001</u>
<b>Revenue:</b>		
Subscription and other publication income	\$ 216,547.00	\$ 229,577.00
Annual meeting income	\$ 74,856.00	\$ 166,557.00
Dues	\$ 87,774.00	\$ 108,525.00
Interest income	\$ 9,373.00	\$ 10,724.00
Contributions-plant	\$ 45,500.00	\$ 24,150.00
Contributions-toxicology	\$ 3,000.00	\$ 7,150.00
Contributions-other	\$ 19,246.00	\$ 33,241.00
Management Fee (IAPTC&B)	\$ 43,652.00	\$ 35,000.00
Miscellaneous income	\$ 32,509.00	\$ 14,644.00
<b>Total revenue</b>	<b>\$ 532,457.00</b>	<b>\$ 629,568.00</b>
<b>Expenses:</b>		
Program services		
Publications	\$ 200,825.00	\$ 213,287.00
Annual meeting expenses	\$ 168,924.00	\$ 218,154.00
<b>Total program services</b>	<b>\$ 369,749.00</b>	<b>\$ 431,441.00</b>
Supporting services		
Administration	\$ 175,656.00	\$ 168,225.00
<b>Total expenses</b>	<b>\$ 545,405.00</b>	<b>\$ 599,666.00</b>
Change in net assets before unrealized gain on investments	\$ (12,948.00)	\$ 29,902.00
Unrealized gain in fair value of investments	\$ 1,499.00	\$ 3,846.00
Change in Net Assets	\$ (11,449.00)	\$ 33,748.00
Net Assets, beginning of year	\$ 186,770.00	\$ 153,022.00
<b>Net Assets, end of year</b>	<b>\$ 175,321.00</b>	<b>\$ 186,770.00</b>