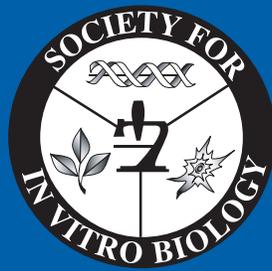


# 2001



# ANNUAL REPORT

The Society for In Vitro Biology



Mary Ann Lila Smith, SIVB President, and Senator Kit Bond (R-MO) at the 2001 Congress on In Vitro Biology

## PRESIDENT'S REPORT

Bioterrorism. Our risks and our security in the global arena. Real, insightful solutions to real threats. Safeguarding the right to free exchange of research and information in our highly globalized society. Biological research applications such as stem cell technology which promise to alleviate suffering, yet simultaneously have polarized segments of the scientific community and society. Tissue engineering. New drug discovery, and identification of novel agents to combat human diseases. Transgenic plants in industry, and in the food system. The issues are on everyone's radar screen, and we – the collective members of the Society for In Vitro Biology – have the multidisciplinary expertise and the central forum to highlight the key points, to craft the best answers, and to showcase innovative solutions and strategies.

June 2002 features the first ever partnership between the Society for In Vitro Biology (SIVB) and the International Association of Plant Tissue Culture and Biotechnology (IAPTC&B) as two conferences, in tandem, hosted at the spectacular Coronado Springs Resort in the Disney complexes of Orlando, Florida. The top priority issues noted above represent only a few of the topics which will be explored during the intense, full week of activity. The excitement begins on 23 June with the IAPTC&B opening. The IAPTC&B Congress - Plant Biotechnology 2002 and Beyond – will run through 28 June, and will host participants from about 50 countries from all around the globe. The IAPTC&B Congress will dovetail with

the Congress on In Vitro Biology, 26-29 June 2002. The dual events will highlight the scientific synergies of in vitro research in animal and plant biotechnology, together in a venue (*Walt Disney World*<sup>®</sup>) which is well known as a showcase for the most spectacular and unique aspects of both the animal and plant kingdoms.

With the recent creation and adoption of a newly revised Constitution & ByLaws for the SIVB last year, our Society takes on a new leadership structure. For the first time, the Chairs of pivotal Committees which have a role in Society governance (Publications and Public Policy) as well as Program Chairs for the upcoming two years now have a seat on the 2002-2004 Board of Directors. The newly-elected Board Officers include President (Sandra Schneider), President -Elect (David Altman), Vice President (David Songstad), Secretary (Barbara Reed), Treasurer (Richard Heller) and Members at Large (David Ellis, Yvonne Reid, Cynthia Goodman, and Todd Jones). Program Chairs for 2003 (Bill Smith), and for 2004 (Ray Shillito) are included on the Board, along with Chairs of Publications (Alda Vidrich), and Public Policy (Paul Price), all elected by open vote of the full SIVB membership. The new policy to elect these pivotal Committee Chairs, and to confer seats on the voting Board, are a reflection of the fact that these members are instrumental in charting a course of direction for our Society. As always, it is this Society's members that make us strong and encourage us to grow and evolve. Thank you for your support, and please don't miss the chance to participate in new opportunities during the year ahead.

Mary Ann Lila Smith, President  
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## SECRETARY'S REPORT

The year 2001 was busy and successful for the SIVB. Active participation by current members, the enthusiasm of new members, an outstanding Annual Meeting, and exciting changes in our publications all made for a great year. Members are the driving force of any organization and the SIVB is no exception. Recent changes in our constitution and bylaws provide for even more member input in the governance of our society.

Some of the great strengths of the SIVB, the interdisciplinary nature of our annual meetings and World Congresses, the inclusiveness of the organization, the moderate size of the meetings, all provide special opportunities for our members. SIVB branches provide a more local opportunity for members to present their research, introduce their students to the culture of scientific meetings, and allow for networking. The larger venue of the Society meetings allows for international interactions. European colleagues note that SIVB meetings are full of interesting sessions and posters and at a reasonable cost.

I hope all our members will consider which features of the SIVB they enjoy and consider increased participation in those activities. We can all participate in making the SIVB even better by participating in committee work, running for an office, nominating someone for an award, or encouraging colleagues and students to join and participate in the annual meetings.

Barbara M. Reed, Secretary  
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## TREASURER'S REPORT

We closed fiscal year 2001 with our unrestricted operating funds in the black for the first time in 4 years. Although we closed 2000, and thus began 2001, with a deficit of \$6,941; we have finished the year with a net asset of \$31,231. Much of this improvement is the result of drastic reductions in our operating expenses. By steadily cutting costs from a high of \$719,085 in 1998, through \$689,413 in 1999, and \$469,730 in 2000, we are now at an all time low of \$431,441 in expenses for 2001.

Many of the measures described in my 2000 report have born fruit this year. We are operating out of smaller, less expensive quarters. We have reduced our staff to the minimum necessary to survive, and now out-source many jobs formerly done in-house. Our current auditors have made significant contributions to the streamlining of our bookkeeping and fiscal operating procedures, and at a lower cost than our previous firm. However, as I noted last year, we have now cut expenses to the bone, and further reductions seem unlikely without jeopardizing the society's very survival.

*Our future fiscal health is still critically dependent upon increasing our revenues.* We need to continue our good relationships with those who have contributed to us in the past, but we must also seek out new sources of both fiscal and scientific support. A good start was made in that direction this year.

A huge vote of thanks goes to John Harbell and Bill Smith for their efforts in securing significant grants from the Army for the annual meetings in both 2001 and 2002. These contributions were made to the General Fund for support of the *entire* Society and for meeting activities to benefit *all* of our Sections. We must all continue to seek out new members and new contributors, both individual and organizational. It will be through the success of these efforts that the Society will survive and thrive.

The 2001 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.

Elizabeth J. Roemer, Treasurer  
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## BUSINESS OFFICE REPORT

The Business Office activities focused on the 2001 Congress on In Vitro Biology, 10th International Congress on Plant Cell and Tissue Culture & Biotechnology, publications, and membership. The 2001 Congress was held June 16 - 20, 2001, at the Regal Millennium Hotel in St. Louis, Missouri. This congress showcased Dr. Roger N. Beachy, President of the Donald Danforth Plant Science Center. After Dr. Beachy's session, Senator Kit Bond addressed the groups. It was truly an outstanding Plenary Session. A very nice plenary reception and dinner at the Missouri Botanical Gardens followed this. This year was the first year we conducted three education sessions, Risk Communications, Advanced Tissue Culture Workshop, and the Educational Outreach Program K-12. This was the second year for the Silent Auction and we ended the Congress with a great ball game with the Cardinals and the Chicago Cubs. At the 2001 Congress on In Vitro Biology, the attendance reached 501. There were 212 members, 22 non-members, and 11 one-day registrants. Also, there were 40 student registrants, 17 guests, and 60 exhibitors registered.

The 2002 Congress on In Vitro Biology will be held in Orlando, Florida, at *Disney's Coronado Springs* Resort. The 2002 Congress will highlight Dr. Gordon A. Sato and Dr. Sheldon Schuster. Dr. Sato will be speaking on "The Manzanar Project: Contributions of In Vitro Biology, Tissue Engineering, Proteomics, and Beyond." Dr. Schuster will be speaking on "Commercializing Our Biotechnologies." Also, there will be two Lifetime Achievement Awards presented to Dr. Gordon A. Sato and Dr. Sadar S. Sohi for their outstanding contributions to in vitro biology. There will be a Plenary and Lifetime Achievement Award Reception following the Plenary Symposium to honor the awardees and plenary speakers. After the events of September 11, we have decided to schedule a symposium on "Biological and Chemical Terrorism: Our Risks and Responses." Also, there will be two "Cool Technologies: Workshops" on "Preparation for Live-cell Imaging" and "Strategies and Technology for Proteomic Analysis of Eucaryotic

## 2001 CONGRESS ON IN VITRO BIOLOGY - HIGHLIGHTS



Cells." Arrangements are being finalized for a special event at the Harbor Branch Oceanographic Institute. A spectacular closing banquet will be held at *Disney's Animal Kingdom*. The Congress has been publicized in *Differentiation* and *The Scientist*, as well as being listed in assorted meeting calendars and at local Florida universities.

The Society for In Vitro Biology (SIVB) has been working jointly with the International Association for Plant and Tissue & Biotechnology (IAPTC&B) on their 10th International Congress on Plant Cell Tissue Culture & Biotechnology to be held in Orlando, Florida on June 23 - 28, 2002. The SIVB is the IAPTC&B's Congress Secretariat and one of the Congress organizers for the upcoming meeting. The Business Office has been handling all of the financial statements for the IAPTC&B Congress and the IAPTC&B Secretariat. The second circular of the Congress has been completed and was circulated to members at the 2001 Congress on In Vitro Biology. The Business Office has also been organizing advertising exchanges for the Congress, assisting in organizing and follow up with various publications (Plant Physiology, ASPB newsletter, and the Society for Experimental Biology's Newsletter). The SIVB is housing a special section on our website devoted to the IAPTC&B Congress. This site was specially designed for the IAPTC&B and is actively linked with our abstract submission database. They have active pages for registration, fellowship applications (no longer active as of Nov. 1, 2001) abstract submission, and pdf forms for the hotel registration and volunteers. The organizers have offered 84 fellowships and the Business Office has processed over 700 abstracts. The Business Office is now designing the Abstract Book, Program Booklet, and all onsite materials for the Congress. Final logistical arrangements are near completion with the hotel for entertainment, room assignments, audiovisual needs, and special events planned during the Congress.

The IAPTC&B and the SIVB will host a joint Science and Technology Exhibition for Industry and Academic Institutions to showcase their technology, programs, and products. This is 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 is the first ever gathering of its kind and will be your only opportunity to participate in such an important event.

This year, the Business Office upgraded its credit card processing system for the Congress abstract submissions and membership applications. With the help of our database processing company, we can now simultaneously process credit card requests for abstract submission or new member applications, while submitting the information directly to the bank and into our database.

The Business Office has developed several promotions to retain and recruit new members due to the decline in membership. We have targeted con-

tributing 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.

2001 was a busy 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. Michele Schultz was promoted to Publications Manager of the Society, and the Business Office worked closely with the Publications Committee to assist in a number of decisions that were finalized this year. In 2001, the *In Vitro Cellular and Developmental Biology - Plant* journal published more pages than were budgeted in the agreement with CABI Publishing. Working with CABI, the Publications Committee, and the IAPTC&B, a penalty fee for this overage was agreed upon. A sincere thanks goes to the Plant Section Members of the SIVB who offered a contribution to cover this fee. An official thank you will be published in both the 4<sup>th</sup> and 5<sup>th</sup> issues of the *In Vitro - Plant* 2002-year volume.

The Business Office Staff and Greg Phillips attended a seminar on publishing in the 20<sup>th</sup> Century. The most important information that was taken from the meeting was the need for online access for the journals. The Business Office along with the Editor-in-Chief's office of *In Vitro Cellular and Developmental Biology - Animal* is working with AllenTrak, a subsidiary of Allen Press, to design an online manuscript submissions and tracking system for the journal. The Publications Committee has agreed to hold movement on the online manuscript tracking system with the *In Vitro - Plant* journal until we receive more information from the Plant journal's publisher, CABI Publishing who is organizing an online tracking system to offer to all of the journals it publishes.

The *Animal* journal saw growth this year in its electronic format. As part of the consortium with BioOne and its online journals, *In Vitro - Animal* has shown online subscription income. With the approval of the Publications Committee, our printer, Allen Press, will not only be managing the Online Manuscript Tracking listed above, but will also be forwarding abstracting information to PubMed immediately upon publication of each issue of the journal. This will provide *In Vitro - Animal* with more immediate visibility. The Business Office has also begun work to help the Publications Committee begin preparation for a marketing plan for the *In Vitro - Animal* journal. Finally, on January 1, 2002, *In Vitro - Animal* switched to member and subscriber-only access for the online journal. 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 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 officers, Board of Directors, Committee and Section Chairs for their continued dedication and support of the Business Office over the past two years. As always, thank you to the volunteers at the 2001 Congress. We welcome your ideas and suggestions in promoting the Society for In Vitro Biology. Contact me at either marietta@sivb.org or sivb@sivb.org.

**Marietta W. Ellis, Managing Director**  
marietta@sivb.org

## 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.

Last year's Annual Meeting of the Society for In Vitro Biology in St Louis once again saw robust CTS participation in an exciting array of timely Sessions-in-Depth (many joint), Contributed Papers, and Interactive Poster Sessions. *SID*'s included "Beyond the Genome: Functional Genomics", Conveners Amy Wang and Eugene Elmore; "ABC Transporters: Their Role in Multi-drug Resistance, Bioavailability and Drug-drug Interactions", Convener Dennis Laska; and "Toxicological Applications of Commercial Available Epithelial Models", Conveners Janis Demetrulias and Amy Wright. Joint Workshops and Contributed Paper sessions included "Advanced Tissue Culture Workshop: Assays for Cell Viability", Moderated by Janis Demetrulias; "The Proteomics Approach to Understanding a Biological System", Moderated by G. Reid Ashbury; "The Importance of Controls in In Vitro Biology", Moderated by John Harbell; "Frontiers in Low Temperature Preservation of Cells and Tissues", Moderated by Lia Campbell and Michael Taylor; "Primary Human Cell Cultures or Immortalized Cells: Models for Use in Human Toxicology and Disease Studies", Moderated by William J. Smith, and "Development and Application of Cell Models for Pre-Clinical Research", Moderated by John Harbell.

The CTS received direct sponsorship for their program from: Eli Lilly and Company, Society for Cryobiology, MatTek, Johnson & Johnson, and Organ Recovery Systems. The CTS would also like to thank the many other sponsors and exhibitors who supported the other Society sections or that made contributions to the Society's general fund.

The CTS congratulated the 2001 recipients of the Lifetime Achievement Award: Dr. June Bradlaw, Dr. Ian Freshney, and Dr. Karl Maramorosch. Their work and dedication serve as an inspiration to us all. Additionally, the CTS was proud to provide the annual Cellular Toxicology Student Award to Denise N. Fraga from the University of Notre Dame in South Bend, Indiana for her work on a "Three-dimensional Transgenic Model for Genotoxic Assessment Using Macroporous Cultispheres." We appreciate all contributions and efforts of our students who submitted their work for consideration. All are winners!

The annual Cellular Toxicology business meeting was held jointly again this year with the Vertebrate Section. The 2001-2002 programs dominated the discussion with a lively brainstorming session to formulate the topic areas for 2002. An exciting and focused meeting has been planned that will include a session on stem cell research as well as an evaluation of tissue engineering's progress.

Finally, the CTS welcomes new officers for 2002-2004: Chair - Alda Vidrich, University of Virginia; Vice Chair - Gordana Vunjak-Novakovic, Massachusetts Institute of Technology; and Secretary - James DuMond Jr., University of Alabama at Birmingham.

On behalf of the Cellular Toxicology Committee, we thank you for your attendance of the annual meeting and continued support of the mission and objectives of the CTS and the Society.

**Alda Vidrich, Cellular Toxicology Vice Chair**  
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## INVERTEBRATE SECTION

In the shadow of the world famous St. Louis Arch, the 2001 Congress on *In Vitro* Biology got underway from June 16-20, 2001. The Invertebrate Section well represented us with a full agenda of activities.

Following an interesting "Risk Communication Workshop - Scientists and the Public: Handling Controversial Issues" for all attendees, the first joint Vertebrate/Invertebrate/Toxicology workshop was held, entitled: "Advanced Tissue Culture Workshop: Assay for Cell Viability", convened by Janis Demetrulias. This workshop provided us with valuable information that measuring and defining cell viability are important to anyone who is dealing with cell cultures.

A joint Vertebrate/Invertebrate/Toxicology Symposium sponsored by Amersham Pharmacia Biotech, Avon Products, AventisCrop Science, International Foundation, and Exelixis Plant Science was convened by Amy Wang (Aventis CropScience) and Eugene Elmore (University of California, Irvine), entitled "Beyond the Genome: Functional Genomics". It included the following papers: "Gene Discovery in Plants by Activation Tagging", by Helena Mathews (Exelixis Plant Science); "Gene Expression Profiles Reveal Effector Pathways of Toxicants", by Hisham K. Hamadeh (National Institute of Environmental Health Science); "Proteomics:

## 2001 CONGRESS ON IN VITRO BIOLOGY - HIGHLIGHTS



The View from a 2D Electrophoresis Service Lab”, by Nancy C. Kendrick (Kendrick Labs, Inc); and “Application of cDNA Microarray to Minute Amount of Biological Samples”, by Kwong-Kwok Wong (Pacific Northwest National Laboratory).

A second joint Vertebrate / Invertebrate / Toxicology Workshop, “The Proteomics Approach to Understanding a Biological System”, sponsored by Amersham Pharmacia Biotech, was convened by G. Reid Ashbury (Amersham Pharmacia Biotech). It looked at proteomics as being critical to the understanding of key intracellular and intercellular mechanisms within biological systems.

An Invertebrate Symposia entitled “Insect Hormones and Applications for Pest Control” was sponsored by Aventis CropScience, Syngenta Crop Protection Ag, and Rohm and Haas Company and was convened by Guy Smagghe (Free University of Brussels-Brussels, Ghent University) featured the following papers: “Hormonal Regulation of the Transcriptional Cascade Leading to Dopa Decarboxylase Expression”, by Kiyoshi Hiruma (University of Washington); “Non-Steroidal Ecdysone Agonists: In Vitro Methods for Discovery and Use for Agriculture and Pharmaceutical Markets”, by Tarlochan S. Dhadialla (Rohm and Haas Co.); “Mode of Action, Specificity, and Possible Resistance Mechanism of Non-Steroidal Ecdysone Analogs”, by Arthur Retnakaran (Canadian Forest Service); “In Vitro Imaginal Disc Cultures as Bioassay for Ecdysone Action”, Guy Smagghe (Ghent University-Ghent); “Comparative Structure-Activity Relationship of Various Non-steroidal Ecdysone Agonists Between In Vivo and In Vitro Assay Systems”, Yoshiaki Nakagawa (Kyoto University), “Development of New Screening Systems For Hormonal Compounds Using Transformed Insect Cell Lines”, Luc Swevers (National Centre for Scientific Research Demokritos), and “Current and Future Use of Insect Growth Regulators in Crop Protection” by Hartmut Kayser (Syngenta Crop Protection Ag).

A joint Vertebrate/Invertebrate/Plant Symposium was sponsored by Life Technologies-A Division of Invitrogen, Defense Advanced Research Projects (DARPA), and UST, Inc. was entitled: “Understanding the Basis of Stem Cell Pluripotency/Plant Cell Totipotency”. It was convened by Mindy Fitter (Monsanto), Paul Price (Life Technologies, Inc.), and Patrick R. Hughes (Boyce Thompson Institute). Featured papers included: “From How Many Different Cells Can a Plant Make and Embryo?,” by Kim Boutlier (Plant Research International); “Molecular Control of Muscle and Heart Development During Drosophila Embryogenesis”, by Alan Michelson (Brigham and Women’s Hospital); and “Characterization and Differentiation of Human Embryonic Stem Cells”, Melissa Carpenter (Geron Corporation).

In addition, an Invertebrate Cells Session moderated by Cynthia Goodman (USDA ARS BCIRL) included the following contributed papers: “Stem Cells from Insect Midgut Cultures Differentiate in Response to Two New Peptides from Insect Hemolymph”, by Marcia J. Loeb (USDA) and H. Jaffe; “Difference in Production Levels of HzSNPV in Low and High Passages of the *Heliothis virescens* Cell Line HvAm1”, by Cynthia L. Goodman (USDA), A.H. McIntosh, J.J. Grasela, S.G. Saathoff, and C.I. Ignoffo; and “Application of DNA

Microarray Technology for Gene Discovery and Expression Analysis in a Non-model Organism” by Shirley A. Pomponi (Harbor Branch Oceanographic Institution), R. Willoughby, and C.G.Russell.

Furthermore, the Invertebrate Section was well represented at the Lifetime Achievement Awards Ceremony as we presented Dr. Karl Maramorosch a long time Society and Invertebrate member with this prestigious award. Dr. Maramorosch was joined by Drs. June Bradlaw and R. Ian Freshney who were also bestowed the Lifetime Achievement Award.

**Amy A. Wang, Invertebrate Vice President**  
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**Guido F. Caputo, Invertebrate Secretary**  
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## PLANT SECTION

As I conclude my fourth year as President of the Plant Section of the SIVB, I am humbled by the enormous support of the membership. Our section remains strong in all aspects. While it is true we face serious challenges in the future, we can be certain that future is bright and full of hope and promise.

We are continuing with several initiatives designed to increase membership, bolster our finances and raise our prominence in the national and international scientific communities. Moreover, we strive to make membership in the Plant Section a rewarding experience for all of our members and there are ongoing initiatives to make that even more true. Our New Horizons Committee have developed several ideas which, when fully implemented, will further enhance the experience of being a member in the Plant Section.

We continue to show leadership within the Society by bringing in very high caliber scientists as speakers and presenters at the annual meetings. Last year the keynote speaker was the prominent plant scientist Dr. Roger Beachy, accompanied by Senator Christopher Bond. Senator Bond gave an inspiring speech that reminded many of us that what we do will have positive ramifications for the entire world. We had many outstanding sessions and the attendance was wonderful.

From my perspective, it would seem that we have finally turned the corner with regard to the GM plant debate. India has recently allowed the first large scale planting of BT cotton. Erroneous reports of seed contamination in Mexico and the demise of the Monarch butterfly have been shot down and denounced by responsible scientists around the world. I hope that this trend will continue and worldwide acceptance will finally emerge.

We need to redouble our efforts toward increasing our membership,



improving our section finances, and fostering activity within the organization. Our situation now is good but our future depends upon further improvement in these areas. I encourage the Plant Section membership will join me to give our incoming President, Dr. Nancy Reichert, the moral and physical support she will need to lead our section for the next two years.

**Michael E. Horn, Plant President**  
mhorn@prodigene.com

Plant section membership was down slightly in 2001 with 498 members. Membership is expected to rebound in 2002 to follow the previous five-year trend of increasing membership. The Plant Activity Fund (PAF) currently contains approximately \$31,924.00. In early 2002, significant contributions from the PAF were made to the 10<sup>th</sup> IAPTC&B Congress, and to support publication charges for the IAPTC&B special issues of *In Vitro Cellular and Developmental Biology – Plant*. The PAF has continued to do well this past year due to the contributions of private industry and other sponsors, and we would like to thank them for their support.

**Heidi F. Kaeppler, Plant Secretary/Treasurer**  
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## VERTEBRATE SECTION

The Vertebrate Section has a long standing in the Society for In Vitro Biology, providing its members with information on the latest research activities in vertebrate cell biology, a training forum, and continuing education on research methods and applied sciences. The Section continued these activities at the 2001 Congress on In Vitro Biology by hosting or co-hosting 5 symposia, 5 workshops, 4 poster sessions, and 1 contributed paper session. Symposia and workshop sessions included: “Tissue Engineering,” convened by Gordana Vunjak-Novakovic, and “Gene Transfer,” convened by Richard Heller; joint Vertebrate/Plant session, “Artificial Chromosomes,” convened by Gurdip Brar and Alda Vidrich; joint Vertebrate/Invertebrate/Toxicology sessions, “Advanced Tissue Culture Workshop: Assays for Cell Viability,” convened by Janis Demetriulias, “Beyond the Genome: Functional Genomics,” convened by Amy Wang and Eugene Elmore, and “The Approach to Understanding a Biological System,” convened by G. Reid Ashbury; joint Vertebrate/Toxicology sessions, “The Importance of Controls for In Vitro Biology,” convened by John Harbell, “Frontiers in Low-Temperature Preservation of Cells and Tissues,” convened by Lia Campbell and Michael Taylor, “Primary Human Cell Cultures or Immortalized Cells: Models for Use in Human Toxicology and Disease Studies,” convened by William J. Smith, and “Development and Application of Cell Models for Pre-Clinical Research,” moderated by John Harbell; and a joint Vertebrate/Invertebrate/Plant Session, “Understanding the Basis of Stem Cell Pluripotency/Plant Cell Totipotency,” convened by Mindy Fitter, Paul Price, and Patrick R. Hughes. Poster sessions took on a new look in 2001, becoming interactive sessions that provided scheduled, brief oral summaries of each poster and the opportunity to discuss the presented work. The Vertebrate and Cellular Toxicology Sections hosted 4 successful poster sessions: “In Vitro Toxicology,” moderated by Eugene Elmore, “Evaluation of Cryopreservation Techniques” and “Human Epidermal Keratinocytes,” moderated by William J. Smith, and “Ocular Models,” moderated by Sim F. Webb.

The business meeting of the Vertebrate Section was held jointly with the Cellular Toxicology Section during the 2001 Congress. Dennis Laska, Cellular Toxicology Chair, opened the meeting. Janis Demetriulias, Vertebrate Co-Chair, welcomed the attendees and recognized those organizations that supported the sessions at the 2001 Congress: Monsanto Company; Syngenta; Amersham Pharmacia Biotech; Avon Products; International Foundation for Ethical Research; PerkinElmer Life Science; Life Technologies, A Division of Invitrogen; Defense Advanced Research Projects (DARPA); UST, Inc.; Biowhittaker; Bio-Rad Laboratories, Inc.; and BTX, A Division of Genentech.

The Sections worked together to identify nominees for the upcoming SIVB officers and committee member elections. Nominations were made for Vertebrate Section Officer elections for the 2003 and 2004 term. The elected individuals will be announced and take office at the business meeting in Orlando, FL in 2002. Challenges for programming and symposium selection for the 2002 Congress were discussed. It was decided that the Sections' efforts would support symposia but focus on workshops for the 2002 Congress in Orlando, FL.

**Janis L. Demetriulias, Vertebrate Co-Chair**  
janisd@technikos.com

## HISTORY SOCIETY

The History Society was established in order to preserve historical information concerning the growth, maintenance, and experimental use of cells, tissues, and organs *in vitro*, and acquaint investigators with the history of tissue culture. To accomplish this, the History Society along with the Records and Historical Committee oversees contributions to the SIVB archives located in the library at the University of Maryland located in Baltimore.

At the 2001 Congress held in St. Louis, the History Society held its annual informal gathering. SIVB Lifetime Achievement Award recipients for 2001 were in attendance. Those recognized included Drs. Ian Freshney (Vertebrate), June Bradlaw (Cellular Toxicology), and Karl Maramorosch (Invertebrate). An informal gathering is planned for the 2002 meeting in Orlando, FL.

The SIVB History Society officers are: Dr. Len Schiff, President; Dr. Jon Ryan, Vice President; Dr. Martha Wright, Secretary/Treasurer; and Dr. Karl Maramorosch, Executive Board Representative.

## RECORDS AND HISTORICAL COMMITTEE

Members: Dr. Len Schiff, Chairman; Dr. June Bradlaw, Toxicology; Dr. James H. M. Henderson, Plant; and Dr. Karl Maramorosch, Invertebrate.

**Len J. Schiff, History Society Chair**  
len.schiff@criver.com

## — STANDING COMMITTEES —

## AWARDS

The Society was honored to bestow the Lifetime Achievement Award to three distinguished scientists of the Vertebrate, Invertebrate and Cellular Toxicology Sections. **R. Ian Freshney**, PhD, Honorary Senior Research Fellow, University of Glasgow, has had a thirty-five plus year career spending a majority of that time working on human cancer tumors. Dr. Freshney is most known for his text books, primarily “Culture of Animal Cells – A Manual of Basic Techniques” now in its fourth edition. **Karl Maramorosch**, PhD, the Robert L. Starkey Professor of Entomology at Rutgers University, was a pioneer in the establishment of continuous cell lines from invertebrates. He was awarded the Wolf Prize in Agriculture in 1980. Dr. Maramorosch joined SIVB (TCA) in 1972 serving as President of the History Committee and Chair of the Eastern Branch. **June A. Bradlaw**, PhD, retired from the Division of Toxicological Research, FDA, is continuing her thirty-five plus year commitment to the industry of cellular toxicology by serving as a scientific advisor. Dr. Bradlaw was instrumental in gaining acceptance of the use of *in vitro* toxicology methods within government regulatory agencies. Dr. Bradlaw has been a member of SIVB (TCA) for thirty-five years, was a charter member of the National Capitol Area Branch and played a key role in the organization of the Cellular Toxicology Section. She has served in numerous capacities including the executive board and was honored with a Distinguished Service Award in 1997. The Lifetime Achievement Award is proudly presented as a public recognition of the many lasting contributions these scientists have made to their respective fields of expertise. Drs. Freshney, Maramorosch, and Bradlaw were presented plaques at the 2001 Congress in St. Louis during a special Lifetime Achievement Award presentation just prior to the Plenary Session and were honored with a reception in the Exhibit Hall.

The 2001 Plant Fellow Award of the SIVB was presented to **Maud Hinchee**, PhD, ArborGen, and **David Altman**, PhD, IPR Consulting. Dr. Hinchee's eighteen-year career with Monsanto led to the development of transgenic soybean and expertise in the regulatory environment surrounding transgenic plants. She joined ArborGen in 2000 and serves as the Chief Technology Officer. Dr. Hinchee has been a member of SIVB for fifteen years and has served in numerous capacities within the Plant Section and the Society including Chair and Co-Chair of the Program for both the Plant Section and the Society. She has been a member of the Board of Directors since 1998. Dr. Altman's career with ProfiGen, a subsidiary of UST, Inc. allowed him to lead the commercialization of genetically engineered tobacco and grapes. He recently formed his own consulting company to assist others in addressing issues

of intellectual property. Dr. Altman has also been a member of SIVB for over fifteen years and began serving on various committees in 1985. He served the Plant Section as Chair from 1996-1998 and served the Society as Chair of the Publications committee. Dr. Altman has been a member of the Board of Directors since 1998. The Plant Fellow plaques were presented to Drs. Hinchee and Altman at the Plant Section Social of the Congress in St. Louis. Dr. David Ellis served as Chair of the Plant Fellow Award Committee for 2001.

The Distinguished Service Award was presented to **Elizabeth J. Roemer**, SUNY – Stony Brook, as selected by the President, Mary Ann Lila Smith. Liz Roemer has been a member of SIVB since 1993 and has held many elected and appointed positions. She is currently serving as Chair of the Vertebrate Section and Treasurer of the Society. She is also Chair of the Education Committee and is active in the Program Planning Committee. Liz Roemer has a passion for encouraging young students to get excited about *in vitro* science and has brought many of her students to the Congresses to present their work.

The Phillip R. White Memorial Award for those desiring to continue training in plant tissue culture was presented to **Shirley Lin**, a research technician at Morden Research Station, Agriculture Canada located in Manitoba. Ms. Lin used her Award to travel to the 5<sup>th</sup> Canadian Plant Tissue Culture and Genetic Engineering Workshop in Saskatoon, Saskatchewan, as well as receiving special training in the production of doubled haploids at the lab of Dr. Julian Thomas. Ms. Lin's research is focused on improving efficiency in the production of doubled haploids from anthers and microspores. Dr. Carol Stiff served as the Chair of the Phillip R. White Award Committee for 2001.

The Student Affairs and Awards Committee presented the following awards at the banquet of the 2001 St. Louis Congress. **Bushra Sadia**, Plant Sciences Division, School of Biosciences, University of Nottingham, Nottingham, UK, received the Wilton R. Earle Award and the SIVB Student Travel Award for her paper *Somatic Hybrids of Solanum tuberosum cv. Desiree and S. chacoense Bitt: A Baseline for Disease Resistance in Potato*. **G. Franklin**, Dept. of Microbiology and Cell Biology, Indian Institute of Science, Bangalore, India, received the SIVB Student Travel Award for his paper *High Efficiency Transformation of Egg Plant (Solanum melongena L.) by Agrobacterium tumefaciens*. **G. Ravi Kumar**, National Research Center on Plant Biotechnology, Indian Agricultural Research Institute, Pusa Campus, New Delhi, India, received the SIVB Student Travel Award for his paper *Development of Intergenic Hybrids in Crop Brassicas via Embryo Rescue and Somatic Hybridization*. The John S. Song Foundation Award was presented to **Sang-Un Park**, Department of Biological Sciences, University of Calgary, Calgary, Alberta, Canada, for his paper *Development of Plant Regeneration and Genetic Transformation in the Papveraceae for the Metabolic Engineering of Benzylisoquinoline Alkaloids*. **Miriam S. Kundt**, University of La Plara, Buenos Aires, Argentina, received the Honor B. Fell Award and the SIVB Student Travel Award for her paper *Study of Embryonic Ploidy: a Probable Embryo Model*. **Hideka Kobayashi**, Dept. of Natural Resources and Environmental Sciences, University of Illinois at Urbana-Champaign, Urbana, Illinois, received the Hope E. Hopps Award for his paper *Extraction and Detection of Kavapyrones from in vitro Cultures of Kava (Piper methysticum Foster)*. The Cellular Toxicology Award was presented to **Denise Fraga**, University of Notre Dame, South Bend, Indiana, for her paper *Three-Dimensional Transgenic Model for Genotoxic Assessment Using Macroporous Cultispheres*. Dr. Gertrude Buerhing served as Chair of the Student Affairs and Awards committee for 2001.

Melissa E. Hinga, Awards Committee Chair  
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## DEVELOPMENT

The members of the Development Committee fund raising efforts continued with the 2001 Congress on In Vitro Biology held June 16 – 20, 2001 in St. Louis, Missouri. The Development Committee is pleased to recognize the following contributors:

The Congress Laureate Sponsor (contributions of \$25,000 and above) was: US Army Medical Research and Materiel Command.

The Congress Sponsors (contributions up to \$25,000) were: Aventis CropScience, Monsanto Company (Congress Plenary Co-Sponsor), and UST, Inc.

The Congress Symposia Sponsors (contributions up to \$5,000) were: Amersham Pharmacia Biotech, BioWhittaker, BTX-A Division of Genentronics, Colgate Palmolive Company (Education Program Sponsor), Defense Advanced Research Projects (DARPA), DowAgro Sciences, LLC, DuPont Agricultural Products (Congress Plenary Co-Sponsor), Eli Lilly and Company, International Foundation for Ethical Research, Invitrogen-Life Technologies, John Wiley & Sons,

Inc., Protein Technologies International, Renessen LLC, RiceTec Incorporated, Society for Cryobiology, Syngenta Crop Protection AG, and The Scotts Company.

The Congress Contributors (contributions up to \$1,500) were: ArborGen, LLC, Agronex Discovery Ltd. (UK), ATCC, Avon Products, Inc., Bennett & Company Ltd. (UK), Bio-Rad Laboratories Incorporated, Bionique Testing Labs, Inc., Charles River Laboratories, CN Bioscience Ltd. (UK), ECACC (UK), Forma Scientific Incorporated, Garst Seed Company, John Stanair and Company (UK), Johnson and Johnson, MarTek Corporation, Merck Research Laboratories, Olympus (UK), Organ Recovery Systems Incorporated, PerkinElmer Life Science, Rohm Haas Company, and ThermoForma Scientific.

The Development Committee is the responsibility of the SIVB Vice President and is supported by the chairs and co-chairs of each section. The charge of the committee is to obtain sponsorship and funds for the scientific and educational SIVB programs/workshops.

The Committee and SIVB would like to thank all of the symposium speakers and the many scientists who provided their own funding to participate in the Congress. Members of the Invertebrate, Plant, Vertebrate, and Cellular Toxicology sections are acknowledged for their contributions to the successful fund-raising efforts for the 2001 Congress. We anticipate continued momentum in fund raising efforts for the 2003 Congress on In Vitro Biology in Portland, Oregon.

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## EDUCATION

The Education Committee was involved in a variety of programs and activities during 2001. We sponsored two professional workshops as well as an outreach program for high school teachers and students at the SIVB's 2001 Congress in St. Louis. A full day professional workshop on risk communication began with a morning session: "Scientists and the Public: Handling Controversial Issues" and culminated in a hands-on afternoon program: "Biotechnology Risk Communication Training: In-Depth Training Which Meets Your Needs". Both sessions were organized and convened by **Cindy Lynn Richard**, Council for Agricultural Science and Technology, and **Maud Hinchee**, ArborGen. Our advanced tissue culture workshop: "Assays for Cell Viability and Cell-Cell and Cell-Stromal Interactions" ran for a half day and was convened by **Janis Demetrulias**, Technikos Research Associates.

Thanks to the extremely generous support of **Colgate-Palmolive, Inc.**, our high school outreach programs were very successful. In addition to a workshop at the SIVB's meeting in St. Louis during the summer and a presentation at the National Association of Biology Teachers (NABT) meeting in Montreal in the fall, we were also able to overhaul and relaunch the Education pages of the SIVB web site. Enormous thanks to **Colgate-Palmolive**!! On Saturday, June 16, prior to the SIVB meeting, we ran a full day program that consisted of two workshop modules, a student research presentation and lunch. The morning workshop: "Bringing DNA to the Classroom" was convened and presented by **Zuzana Zachar**, SUNY Stony Brook, and **Patricia Bossert**, Northport High School, with the assistance of **Lindsey Paluska** and **Jagdeep Raince**, both seniors at Northport High School. The afternoon workshop "Plant Tissue Culture in the Classroom" was presented by **Carol Stiff**, Kitchen Culture Kits, Inc., **Michael Kane**, University of Florida, and **Kenneth Torres**, Phytotechnology Laboratories. At mid-day, the student symposium featured oral presentations by **David Lopez**, **Jesus Mariscal**, **Louie Ontiveros**, and **Shanel Stec** from **Judi Heitz's** High School Biotechnology Program, Chula Vista, CA, and from **Pat Bossert's** students: **Lindsey Paluska** and **Jagdeep Raince**. The Education Committee also sponsored a poster session featuring 8 presentations. These included three posters by education professionals: "A Tomato Biodiversity Garden in a Public Garden Setting as Educational Outreach on Genetic Engineering" **Joyce M. Van Eck**, The Boyce Thompson Institute for Plant Research; "Plant Tissue Culture for the Classroom" **Carol Stiff**, Kitchen Culture Kits; and "Chula Vista High School Biotechnology Program" **Judi Heitz**, Chula Vista High School. The remaining 5 posters were of work by high school students: "In Vitro Effects of Mucin on the Inhibitors of HNE" **Lindsey Paluska**; "PCR Probe for Diaphanous Gene in Drosophila and Daphnia" **Jonathan Cooper**; and "Carrot Calus DNA" **Jagdeep Raince**, all from Northport High School, NY; "Transformation of E. coli DH5a Bacteria with Unknown Plasmids: Determination of Antibiotic Resistance" **David Lopez** and **Jesus Mariscal**; "Restriction Digest Analysis of Plasmids: Determination of Plasmid by Comparison of DNA Fingerprint to Plasmid Map" **Louie Ontiveros** and **Shanel Stec**, all from Chula Vista High School, CA. Our final effort for the year was a highly successful program "Plant Tissue



lab bench, to help fulfill the promise. Scientists must become active communicators of scientific progress. It is imperative that we, as developers of technology, engage the public if we hope to reap biotechnology's promise. Dr. Beachy's presentation was immediately followed by an impassioned speech by Sen. Kit Bond, (R-Mo.). Sen. Bond is a friend of biotechnology in Congress and spoke eloquently and forcefully for science and for science-based regulatory policy. The SIVB sincerely wants to thank both men for their stimulating and thoughtful lectures and for taking the time out of their extremely busy schedules to speak to the Congress, particularly on Father's Day! A delightful reception followed the Plenary talks with dinner being served at the magnificent Missouri Botanical Gardens.

This year we also honored 3 very distinguished guests with the Society for In Vitro Biology *Lifetime Achievement Awards*: Dr. June Bradlaw, Dr. R. Ian Freshney, and Dr. Karl Maramorosch. The awards were presented as a prelude to the Plenary session and all three speakers had an opportunity to recount their experiences at a special luncheon reception that included posters feting each awardee's achievement. The Lifetime Achievement Award reception was graciously sponsored by the International Foundation for Ethical Research, Charles River Laboratories, and John Wiley and Sons. Dr. Freshney was also kind enough to attend a book signing of his book, "Culture of Animal Cells – A Manual of Basic Technique".

Education continues to be an important component of the meeting, and in fact, is a vibrant and growing presence. The Educational Outreach program was very successful with a molecular biology module (PCR Comes to the Classroom – led by Dr. Zuzana Zuchar) and a tissue culture module (Plant Tissue Culture in the Classroom – led by Drs. Carol Stiff, Michael Kane and Ken Torres). In addition, 2001 had an Advanced Tissue Culture Workshop and 2 sessions on Risk Communication. Both were well attended and very much appreciated.

An innovation introduced at this year's meeting was interactive poster sessions. In the interactive sessions, posters of similar content or topics were clustered together and specific times were established for a group poster presentation. Presenters had several minutes to explain their poster and there was a time for interchange with interested scientists. This concept was particularly well received and provided for a spirited poster session.

The meeting, while extremely strong intellectually, also had its lighter moments. The Awards banquet was a very enjoyable affair, featuring a delightful band and some spirited dancing. The banquet was preceded by a Silent Auction that raised over \$2300 for the SIVB coffers. Many thanks to those who donated articles and participated in the bidding. The meeting concluded with a trip to see the St. Louis Cardinals face the Chicago Cubs. Slammin' Sammy Sosa lived up to his name and the ballgame was a terrific way to wind up the meeting.

Many thanks need to go to the Program Committee and Local Arrangements Committee for the success of the meeting and the excellent extracurricular activities. I am particularly grateful for the efforts and dedication of the Program Committee who diligently worked to put the meeting together. The Program Committee consisted of: Lia Campbell, Janice Demetrius, Raziel Hakim, John Harbell, Dennis Laska, Tohru Masui, Elizabeth Roemer, Warren Schaeffer, Ray Shillito, David Songstad, and Harold Trick, Alda Vidrich, Amy Wang, and Amy Wright. Kudos to all! The Local Arrangements Committee, Charles Armstrong, Claude Fauquet, Mindy Fitter, Maud Hinchee, Terrell Johnson, Ali Shilatifard, David Songstad, and Dannette Ward, did an outstanding job of providing an exceptional array of activities from the St. Louis area. Their efforts contributed greatly to the success, and enjoyment, of the meeting. I also wish to thank the many Congress contributors, and session sponsors, including a U.S. Army Medical Research grant for \$25,000 (many thanks to John Harbell for pursuing this!) Their support is crucial for the meeting, and for the organization as a whole, and is immensely appreciated. Lastly, I would like to thank the scientists and students who attended the meeting and made the 2001 Congress the vital and exciting event that it was.

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## PUBLICATIONS

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: 79 regular papers (102 in 2000), 20 Letters-to-the-Editor (16 in 2000), and 0 invited reviews (1 invited review in 2000). Ten manuscripts represented special SIVB sessions-in-depth (Invertebrate) last year compared to 14 (NASA) in 2000. Of those 99 submissions, 52 were accepted, 37 are still in revision or review and 10 were rejected. In addition to the USA, there were 16 countries represented among the submissions in 2001. Average time from receipt to first decision in the review process was 6.8 weeks compared to 6.5 weeks last year. Average time from receipt to publication was 3.5 months. Total submission of

manuscripts was down by nearly 17% from the comparable period last year (99 compared to 119 in 2000). Although the drop in manuscript submissions may be a temporary phenomena as some years in the past, we believe it is due in part to the explosion of competitive publications in relevant disciplines and the aggressive use of electronic media in the submission, review and publication process compared to *In Vitro-Animal*. This is despite the fact that the quality of manuscripts received and accepted has improved due to increased stringency of review aided by improved choice of expert reviewers, according to experts in the area, by use of the Internet. A concerted effort in marketing highlighting the new developments in online publication and associations with the BioOne and Allen Press consortium has been proposed for the coming year and is under consideration to enhance our competitive position in the publication market.

The Editor-in-Chief's office of *In Vitro Cellular and Developmental Biology – Plant* reports the overall quality of articles is comparable to or surpassing that of the journal's two most direct competitors (Plant Cell Reports, Plant Cell Tissue Organ Culture). The most recent journal impact rating for In Vitro Plant is based on year 2000 data, and it rose to 0.750, the highest journal impact rating achieved by the journal to date (vs. 0.372 in 1999 data, 0.514 in 1998 data, 0.568 in 1997 data). This compares to ratings of 1.127 in 2000 data and 1.076 in 1999 data for Plant Cell Reports, and ratings of 0.444 in 2000 data and 0.498 in 1999 data for PCTOC. The Plant journal's impact rating has improved significantly in the first year in which data was based on the new initiatives we began to introduce to the journal in 1999; as additional innovations were introduced in 2000 and 2001, the journal's ratings are anticipated to continue to improve. Distribution and subscriptions, especially at the institutional level, are being addressed in part by continuing marketing efforts by SIVB and CABI and by recent internet initiatives undertaken by SIVB and CABI; Quality of articles has been addressed by gradually increasing the rejection rate, and by a recent (1999) refocusing of the Matrix Categories. The journal has had a marked increase in submissions during 2000 and 2001. Even with the increased rejection rate, we can consistently publish more articles with higher quality. During 2000 and 2001 the Editorial Board aggressively pursued more Invited Review Articles, which are now appearing regularly, and *In Vitro – Plant's* 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 plant 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 17% of the Associate Editors and Reviewing Editors were rotated off/on this year, primarily based on topic area needs. The list of Reviewing Editors was extended with additional international members, as part of the ongoing effort to increase international visibility and recognition. Submissions this year reflected a balanced international community interest, especially with improvements from Europe and the Middle East, but additional efforts to recruit manuscripts from Australia and Africa are needed.

The *In Vitro – Plant* Editorial Board developed and adopted a "Professional Code of Conduct and Editorial Guidelines for Plant Tissue Culture and Biotechnology Journals" this year. These standards clarify the roles of authors as well as editors and reviewers, and are intended to assist in improving manuscript quality. We met the goal this year of having an average of at least 15 articles in each of the four annual issues. The Plant Journal's goal now is to sustain this pattern of growth, such that the longer term goal to increase to at least six SIVB issues per year will be realistic to achieve in the foreseeable future. The Journal Highlights now appear regularly both in the In Vitro Report and on the SIVB website, and provide one more tool to market the journal.

In 2001, submissions to the *In Vitro Cellular and Developmental Biology – Plant* journal (SIVB issues) were as follows: **Submissions:** 111 mss. received (vs. 123 mss. in 2000, 98 mss. in 1999, 82 mss. in 1998, 83 mss. in 1997), includes 3 Symposium Articles from 2001 + 4 Invited Review Articles; **Accepted:** 33 + 12 pending major revision; 51% rejection rate (vs. 40% rejection rate in 2000, 42% in 1999, 39% in 1998, 34% in 1997); **Origin:** North America - 32; Latin America - 14; Europe - 24; Middle East - 10; Africa - 0; India - 17; Asia - 12; Australia - 1; **Receipt to Initial Decision:** Average 7.8 weeks, range 1-23 weeks (vs. 7.3 weeks avg. in 2000, 9-10 weeks in previous years). **Articles per issue and volume:** 1994 to present: 1994, Vol. 30: (1) - 16; (2) - 7; (3) - 11; (4) - 8 (Total - 42); 1995, Vol. 31: (1) - 12; (2) - 11; (3) - 10; (4) - 9 (Total - 42); 1996, Vol. 32: (1) - 11; (2) - 11; (3) - 15; (4) - 14 (Total - 51); 1997, Vol. 33:

(1) - 13; (2) - 14; (3) - 16; (4) - 12 (Total - 55); 1998, Vol. 34: (1) - 12; (2) - 15; (3) - 15; (4) - 12 (Total - 54); [beginning 1999, issues (2) & (5) are for IAPTC&B journal]; 1999, Vol. 35: (1) - 19; (3) - 17; (4) - 11; (6) - 9 (Total - 56); 2000, Vol. 36: (1) - 12; (3) - 14; (4) - 11; (6) - 17 (Total - 54); 2001, Vol. 37: (1) - 16; (3) - 18; (4) - 13; (6) - 19 (Total - 66); and at time of reporting in 2002, Vol. 38: (1) - 12; (3) - 13.

As for the IAPTC&B issues of *In Vitro Cellular and Developmental Biology- Plant* during calendar 2001, David Altman resigned as Secretary-Treasurer of IAPTC&B and Editor of the journal. The co-editor, Trevor Thorpe, assumed the position as Editor-in-Chief. The additional members of the Editorial Board, selected in 2000, all played important roles in handling of the manuscripts assigned to them. In 2001, 92 manuscripts were received (compared to 106 in 2000 and 70 in 1999). Of these manuscripts, 28 were accepted, 14 accepted pending satisfactory revision, 16 were rejected and the remaining 34 are in review. The accepted manuscripts included solicited and unsolicited Feature Articles (mini reviews), and a scheduled reprinting of a 1997 address by Norman Borlaug. The breakdown of the articles received during the year is as follows: 14 Feature and other special articles, 37 Protocols/Methods, and 41 Research Reports. In keeping with the international membership of the society, 36 articles came from Asia (including Australia and New Zealand), 28 from Europe and the Middle East, 16 from North America and 12 from Latin America and Africa. *In Vitro - Plant* Volume 37 #2 (March/April) and #5 (September/October) 2001 were the two issues published for the IAPTC&B. These two issues were the largest published by *In Vitro - Plant* to date. Issue #2 contained 37 articles, including a Turning Point Article (solicited by Indra Vasil, President of IAPTC&B), 5 articles from the 2000 SIVB World Congress Workshop on Alternative Markers for Plant Transformation and 4 Feature Articles. In addition, 13 Protocols/Methods, 13 Research Reports, and a Conference Report were published. Issue #5 contained 31 articles, including 5 Feature Articles, 11 Protocols/Methods, and 15 Research Reports. Fewer articles will be published in 2002, with Vol. 38 #2 scheduled to contain 22 articles.

As noted above, the journal impact rating has improved during the last 3 years. This is no doubt due to the increased number of articles per volume, the increased number of issues with the two societies combined efforts (now 6 issues instead of 4), the wider distribution of the journal (due in part to the world-wide membership of IAPTC&B), and the enhanced quality of the articles (including the Turning Point and Feature Articles in the IAPTC&B issues).

The *In Vitro Report* continued as a quarterly newsletter in 2001. Martha Wright has served admirably as Editor-in-Chief and has done an excellent job in maintaining and improving the quality of the *In Vitro Report*. She needs news and articles from all members of the society in order to maintain the Newsletter as a communication tool for all members. Operational protocols and guidelines for *In Vitro Report* were approved by the Publications Committee. These protocols will serve as a template for the development of comparable guidelines for other publications of the Society.

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## STRATEGIC LONG RANGE PLANNING

The Strategic Long Range Planning Committee (SLRPC), chaired by the President-elect, is advisor to the SIVB President and Executive Board on future annual Congress and other issues that impact the long-range or future plans and growth of the society. The charge of the current SLRPC is to provide scientific and business input related to the maximum use and scientific return

of the SIVB products, to include Congress programs and journals. The goals of the “Long Rangers” will be to identify methods to enhance and promote the society, continue development of scientific and educational programs, and development of international scientific program relationships. Scientists serving on the SLRPC (2000-2002) are: **Sandra L. Schneider**, DrPH (*chair*), Research & Clinical Laboratory Systems; **Hans Drexler**, MD, PHD, DSZM German Collection of Microorganisms and Cell Culture; **David Ellis**, PhD, Cellfor Incorporated; **Miho Furue**, DDS, PhD, Kanagawa Dental College; **Cynthia L. Goodman**, PhD, US Department of Agriculture, ARS BCIRL; **Maud A. Hinchee**, PhD, ArborGen; **Soverin Karmioli**, PhD, Biowhittaker, Inc.; **Hank Lane**, Lane & Associates; **Shirley A. Pomponi**, PhD, Harbor Branch Oceanographic Institute; **Yvonne A. Reid**, PhD, American Type Culture Collection; **Colette J. Rudd**, PhD, DABT, Rudd & Weiler Associates; **Roberta H. Smith**, PhD, Texas A&M University; and **William J. Smith**, PhD, US Army Medical Research Institute of Chemical Defense.

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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 11-13, 2001, and in Washington, DC (Annual), August 25-29, 2001. Emphasis was on oversight in tissue banking, quality control, and accreditation issues, good practices in manufacture of cellular products, death investigation, and donor screening including threats posed by emerging infectious diseases. Workshops on other pertinent topics are now being offered both in conjunction with the meetings and as separate calendar events.

Some thirteen Committees were reorganized and four task forces were developed. Dr. Jan Pierce is Chair of the Membership Committee and information in that regard can be obtained by calling the AATB business office at 703-827-9582. The next meeting (Annual) will be held August 24-28, 2002 in Boston.

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### AMERICAN TYPE CULTURE COLLECTION

Distribution of cell lines by the American Type Culture Collection (ATCC) during 2001 was 65,979. This represents a 17 percent increase over the number provided in 2000. Replenishment stocks on 712 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 135 new cell lines. Details on these and other lines available can be obtained via the internet at <http://www.atcc.org>, updated each weekend.

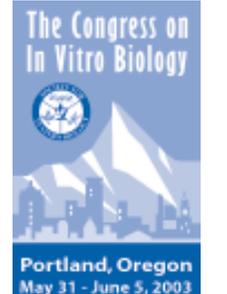
The Advisory Committee for the Cell Biology Program meets at the ATCC every two years and participates in reviews of activities otherwise via telephone conferences. The group considers staffing, accessioning plans, research, and contract activities, and makes recommendations for future efforts. Currently, Dr. Barbara Knowles of the Jackson Laboratory is the Chairperson and Dr. Michael C. Chang is the NIH-NCRR Government Project Officer. Other external representatives include Drs. Gerard J. McGarrity (SIVB), Grace L. Picciolo (FDA), Olivia Smith (Baylor), Neil Talbot (USDA), and William R. Tolbert (San Diego).

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# PLAN ON ATTENDING!



June 26 - 29, 2002  
ORLANDO, FLORIDA  
The Congress on In Vitro Biology



The Congress on  
In Vitro Biology  
Portland, Oregon  
May 31 - June 5, 2003



