

*Woody Hastings,
Scientific Program Chair of the 30th Annual ASP Meeting*

ASP Annual Meeting in Quebec City

Woody Hastings
Scientific Program Chair

It's not too late to register and attend the 30th *Annual ASP Meeting*, taking place from Saturday July 13 to 17 at the hotel Le Chateau Frontenac in the historic old town of Quebec City, Canada, overlooking the St. Lawrence river. The program features a keynote lecture by **Michael Menaker** and a full day of the latest on the photoreceptors and cells responsible for circadian entrainment and shifting the clock, which you will have to do if you come from a different longitude. And there will be much more: Four concurrent sessions, one concerned with photodynamic therapy (PDT), a second with DNA damage and repair, and many others, including photochemistry of the ozone layer and climate change and molecular sensors and photo-control in biological systems. There are many interesting recreational opportunities to take in before and after the meeting, so don't hesitate, register late!!

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*John Spudich
ASP President, 2001-2002*

Farewell from John Spudich ASP President, 2001-2002

Thank you all for giving me the opportunity to serve as ASP President during this past year. It has been a busy year and a rewarding and memorable experience. Especially enjoyable was working with Executive Committee members **Woody Hastings, Lanie Hill, Henry Lim, Tito Scaiano, and Dan Yarosh**, and members of Council. As a result of their leadership and that of their predecessors, the Society is in superb health and I am sure it will continue to thrive and grow.

As I look back over the year, one of the endeavors about which I am especially pleased is the strengthening of the relations of ASP with the international photobiology community. A trend has been established with official ASP participation at the *9th European Society for Photobiology Congress* in Lillehammer, Norway, and the *1st Asian Conference on Photobiology* on Awaji Island, Japan (June 26-28, 2002 on Awaji Island, Hyogo, Japan). In the future I will continue to help deepen our ties to the European and Asian societies.

As Past-President next year I will be working on the Annual Meeting which will be held at the beautiful waterfront Hyatt Regency Baltimore, July 5 - 9, 2003. I encourage all of you to attend and to send me any suggestions of new topics that you would like to see at the meeting. See you soon at the Quebec City meeting where I will pass the gavel to incoming President Henry Lim and welcome **Tom Moore** as President-Elect.



Henry W. Lim
ASP President, 2002-2003

Greetings from Henry W. Lim ASP President, 2002-2003

It is an honor and a pleasure to have served as your president-elect this past year. As I assume the presidency at the annual meeting in Quebec City this month, I would like to acknowledge the contributions of my three immediate predecessors with whom I have had the opportunity of working closely: **Chuck Gomer**, **Woody Hastings**, and **John Spudich**. Their effort, and that of the officers and the members of the Council, in continuing to strengthen the position of ASP as the leading photobiology society are greatly appreciated.

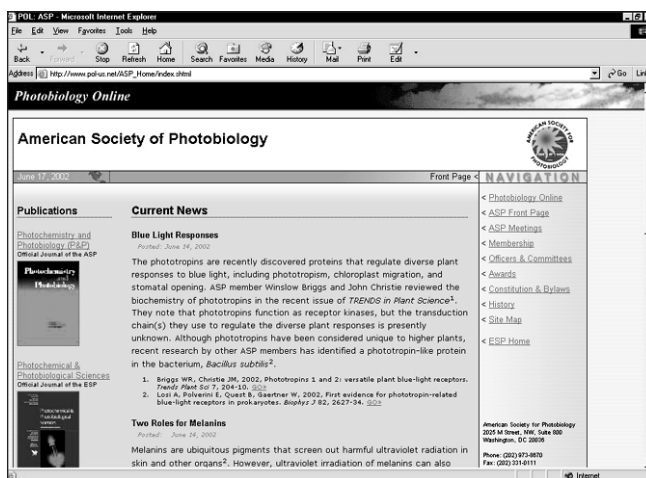
The themes for the coming year are *unity* and *growth*. I intend to make sure that unity is achieved by representing the diverse scientific interests of our members equitably in deliberations by the Council and in our annual meeting. Foundation for growth of ASP will also be established. This includes aggressive recruitment of new members and working with the Executive Secretary to improve the administrative support of the ASP. ASP

members consider *Photochemistry and Photobiology* an important benefit of membership and our journal has done extremely well under the editorship of Tito Scaiano. Currently, the search for the next editor is in its final stages. I am committed to providing the support necessary to help the next editor take our journal to an even greater height.

I view an important role of the ASP president is serving its members. Therefore, I look forward to your input and participation in our joint effort to make ASP an even stronger society.

Letter From the Editor

Peter A. Ensminger



ASP Web Site

The new ASP web site appeared at <http://www.photobiology.org> on April 27. We hope that you have all been following the "Current News" and "Recent Publications by ASP Members" sections, both of which are updated biweekly. In the coming year, we hope to continue our biweekly updates and to further develop the web site. **Dennis Valenzano** and I look forward to your feedback at the annual meeting in Quebec City. See you in Quebec, *la belle province!*

ASP News

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<http://www.pol-us.net/>



Editor

Peter A. Ensminger Ph.D.
256 Greenwood Place
Syracuse, NY 13210
Tel/Fax: 315-478-6024
Email: ensminger@twcny.rr.com



Tom Moore
ASP President-Elect

ASP Election Results and Award Winners

Election Results

President - **Tom Moore**

Secretary - **Helene Hill**

Council At Large:

- **Dennis Valenzeno**
- **Herbert Honigsmann**
- **David Sliney**
- **Thomas Vogelmann**
- **Linda Chalker-Scott**

Prize Winners

- Lifetime Achievement Award:
Dr. Michael Menaker,
University of Virginia
- New Investigator Award:
Dr. Toshiyuki Okano,
The University of Tokyo
- ASP Research Award:
Dr. Masaki Furuya,
Hitachi Advanced
Research Laboratory,
Japan



Photosciences 2002

January 28-February 2, 2002

Universidad de La Habana, Cuba

Earlier this year, the second Photosciences Symposium was held in Havana, Cuba. The first was in February 1999. We hope, together with the organisers, that the series will be continued on a regular basis.

This year's symposium was wonderfully organised by **Elena Vigil** and a group of Cuban scientists who managed to collect most of the Cuban scientists currently researching the interaction of light and matter. The invited lectures were:

- "Electron Transfer Dynamics in Dye Sensitized Solar Cells" by **James Durrant** (Imperial College, London)
- "Photocatalyzed Reduction of Cr(VI) over TiO₂ in the Presence of Reducing Donors: Mechanistic and Kinetic Evidences" by **Marta Litter** (Comisión Nacional de Energía Atómica, Buenos Aires)
- "Biological Photoreceptors: Time-Resolved Thermodynamic Parameters Derived from Optoacoustic Measurements" by **Silvia Braslavsky** (MPI Strahlenchemie, Mülheim)
- "Function of Carotenoids in Artificial Photosynthesis" by **Ana L. Moore** (Arizona State University, Tempe)
- "Waste Water Treatment by the Photochemically Enhanced Fenton Reaction: Modelling and Optimization using Experimental Design and Artificial Neural Networks" by **Esther Oliveros** (Universität Karlsruhe)
- "Theoretical Studies of Spectral Hole Burning, Photon Echoes and Single Molecule Spectroscopy" by **Robert J. Silbey** (MIT)
- "Excimer Lamps – A Decisive Step Forward in Photochemical Technology" by **André Braun** (Universität Karlsruhe)
- "New Developments on Laser Equipment" by **Luis Ponce** (Universidad de la Habana)
- "New Solid State Polymeric Dye Lasers" by **Roberto Sastre** (Instituto de Ciencia y Tecnología de Polímeros, CSIC, Madrid)
- "Spectroscopy and Photophysics of Dyes Supported onto Solid Matrices" by **Enrique San Román** (Instituto de Química de Materiales, Agua y Energía, Buenos Aires)

In addition, there were three Courses:

- (1) "New Advances on Water Treatment: Advanced Oxidation Technologies" held by **Esther Oliveros**, **Marta Litter**, **André Braun**, and **Xavier Doménech** (Universidad Autónoma de Barcelona)

- (2) "Photosensitization and Detection of Transient Species" held by **Enrique San Román**,
- (3) "Lasers and their Applications" held by **Luis Ponce** (CICATA-Mexico), **Mayo Villagrán** (Universidad Autónoma de México), **Germán Muñiz** (ISPJAE, Havana) and **Juana Rassi** (Delegación Habana, CITMA).

The Symposium was sponsored by the Faculties of Physics and Chemistry, the Institute of Materials and Reagents, the newly created Chair on Solar Energy of the Universidad de La Habana, Cubasolar, and the Cuban Optical Society. Numerous organizations from abroad endorsed the meeting and encouraged attendance, including the International Union of Photobiology (IUPB), the Centro Latinoamericano de Física (CLAF), the Inter-American Photochemical Society (I-APS), the European Society of Photobiology (ESP), and the International Commission on Optics (ICO).

The financial support of IUPB and CLAF allowed participation of young researchers from other Ibero-American countries, such Mexico, Colombia, Peru, Spain, and Chile. The young scientists from these countries and Cuba presented posters in a wide variety of subjects including ecological questions related to the survival of various algae, sugar cane photosynthesis, development of laser instruments, spectroscopic analysis of sugar contaminants, development of solar cells, and photoinduced fluorescence in dyes used in medicine.

The two very lively poster sessions displayed the creativity and concern of Cuban researchers with the needs of their country. Many of the contributions resulted from joint efforts among Cuban groups and colleagues in Mexico, Spain, and Britain. The afternoon poster sessions provided opportunities for local colleagues to plan future projects with visiting speakers in areas much needed of development in a country so well bathed by the sun, yet so dependent upon the import of fossil fuels. The foreign speakers had the opportunity to visit several labs where they learned about research plans, the difficulties of the country, and the great optimism of the Cuban people. We also had the opportunity to visit wonderful Old Havana to drink mojitos without losing control (we think), while following the rhythm of rumbas, boleros, and calypsos.

A third Symposium is already planned for 2005. It was suggested that there should be alternating and/or complementing these North-Latin-American Symposia with the more established ELAFOT (Encuentro Latinoamericano de Fotoquímica), held regularly every two years in the southern cone of the American continent (so far in Argentina, Brazil, and Chile).

Silvia E. Braslavsky

David B. Busch, M.D., Ph.D.

July 25, 1953 - April 11, 2002

It is with great sadness that we announce the passing of our friend and colleague, **David B. Busch** who succumbed to leukemia on April 11 at the age of 48 years. David was a remarkable, intelligent, and dedicated person. He received an undergraduate degree in biochemistry with distinction in 1974, a masters in biophysics in 1976, and a Ph.D. in biophysics in 1980, all at the University of California, Berkeley. His Ph.D. work was performed under the guidance of Nobel prize winner, **Donald Glaser**. He then earned an M.D. degree in 1982 in a special 3 year program for Ph.D's at the University of Miami. This was followed by residencies in anatomic and clinical pathology at the University of Wisconsin in Madison, which culminated in his becoming a Diplomate of the American Board of Pathology in 1986. The same year he joined the Armed Forces Institute of Pathology in Washington, D.C., where he spent his professional career as a radiation pathologist.

His early DNA repair work was focused on discovering DNA repair mutants in Chinese hamster cells. He performed large scale isolation and characterization of UV-sensitive DNA repair mutants of these CHO cells. This work led to the discovery of rodent cells that were homologues of several human diseases: xeroderma pigmentosum (XP) complementation group D (ERCC2), group B (ERCC3), group F (ERCC4), group G (ERCC5), Cockayne syndrome group B (ERCC6) and Fanconi anemia group G (UV40). Each of these cell lines was pivotal in the efforts by several laboratories to clone the corresponding human genes.

David put his heart and soul into this important work. He offered testing for XP and then expanded to test for Cockayne syndrome and trichothiodystrophy. He tested samples from several hundred patients over the years. These results have changed the lives of many patients. Many laboratories around the world are currently performing further analysis on many of these cells and will be studying them for years to come.

The laboratory work was only part of his effort. David soon realized that the people whose cells he tested were searching for assistance as well. He regularly visited Camp Sundown, a camp for XP patients, and a similar group for families with Cockayne Syndrome. He brought his cats and his good humor to cheer up those affected with XP and CS. He will be greatly missed.

David Busch maintained a website "Myelodysplasia and me" <http://members.aol.com/myelodysplasia/index.html> that chronicled the rapid course of his disease, beginning from diagnosis as a precancer in November 2000.

Cards and letters can be sent to his mother:

Mrs. Barbara Busch, 10 Heather Ave, San Francisco, CA 94118; JSB94118@aol.com.

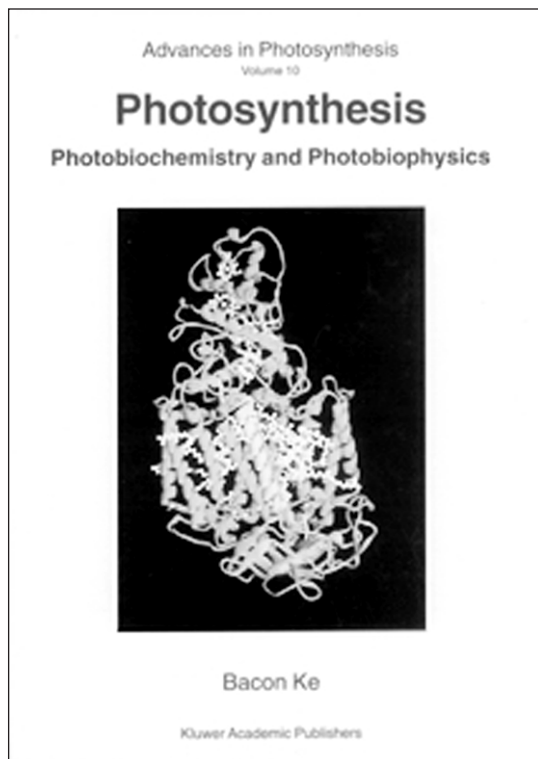
- **Kenneth H. Kraemer**, Bethesda, MD,
James E. Cleaver, San Francisco, CA,
Larry H. Thompson, Livermore, CA

ASP Young and Senior Investigator Luncheon in Quebec City

The annual ASP Young Investigator and Senior Investigator luncheon will be held on Sunday, July 14, from noon to 1:30 pm in the 'Salon Rouge' of the Chateau Frontenac. This event is being organized by the mentoring committee (**H. Hill, K. Woodburn and L. Jones**). All students who have received travel awards are invited, and we wish to invite a select number of mentors who will dispense good advice and encouragement. The organizers extend you an invitation to attend this luncheon and to share your experiences in research. If you would like to attend, please reply to Kwoodburn@appharma.com and a place shall be reserved for you.

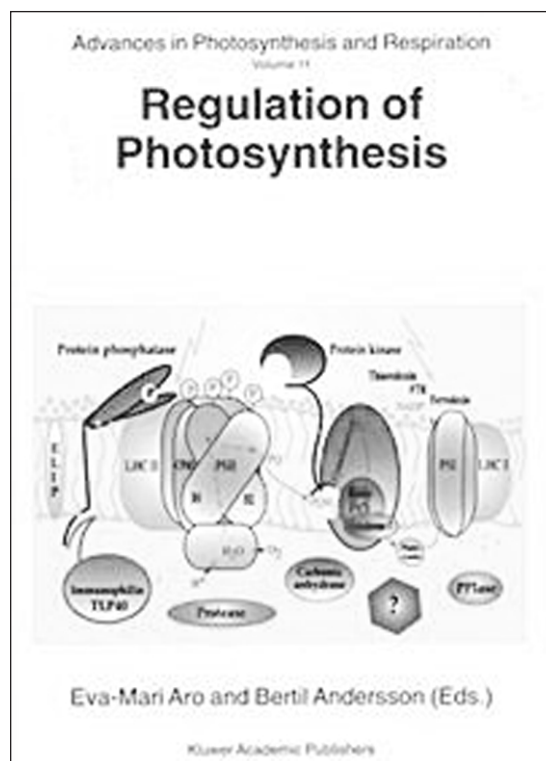
Two New Volumes of *Advances in Photosynthesis and Respiration*

Two new volumes in the series, *Advances in Photosynthesis and Respiration*, have recently been published. This series is edited by **Govindjee**, ASP member and former ASP president. See below and the web site for further information:
<http://photoscience.la.asu.edu/photosyn/books/advances.html>



Photosynthesis: Photobiochemistry and Photobiophysics (vol. 10) is the first single-authored book in the series. It provides an overview of the light reactions and electron transfers in both oxygenic and anoxygenic photosynthesis. The scope of the book is characterized by the time frame in which the light reactions and the subsequent electron transfers take place, namely between 10^{-12} and 10^{-3} second. The book is divided into five parts: An Overview; Bacterial Photosynthesis; Photosystem II & Oxygen Evolution; Photosystem I; and Proton Transport and Photophosphorylation. In discussing the structure and function of various protein complexes, Bacon Ke begins with an introductory chapter, followed by chapters on light-harvesting complexes, the primary electron donors and the primary electron acceptors, and finally the secondary electron donors. The discussion on electron acceptors is presented in the order of their discovery to convey a

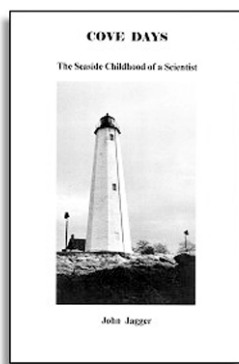
sense of history, in parallel with the advancement in instrumentation of increasing time resolution. The book includes a large number of stereo pictures, showing the three-dimensional structures of various photosynthetic proteins, which can be easily viewed with unaided eyes. This book is designed to be used as a textbook in a graduate or upper-division undergraduate course in photosynthesis, photobiology, plant physiology, biochemistry, and biophysics. It is equally suitable as a resource book for students, teachers, and researchers in the areas of molecular and cellular biology, integrative biology, microbiology, and plant biology.



Regulation of Photosynthesis (vol. 11) provides final year undergraduates, graduate students and researchers with a state-of-art overview of regulatory mechanisms governing the development, function, turnover and stress tolerance of the photosynthetic apparatus. The structural components of the photosynthetic apparatus are relatively well known and the next challenge is to resolve the multitude of regulatory functions occurring in chloroplasts at the molecular level.

The book is divided into six sections. The first section gives an overview of evolution and complexity of thylakoid structure. The second section examines the expression of photosynthesis-related genes, including

signal transduction and redox regulation at both the transcriptional and translational levels. The third section focuses on the biogenesis, turnover and senescence of the thylakoid pigment protein complexes. The fourth section examines crucial regulatory steps in carbon metabolism including those in the ferredoxin-thioredoxin system. Various molecular mechanisms leading to acclimation and stress responses in chloroplasts are reviewed in the fifth section. The sixth section provides examples of novel methods that have become available with information obtained from sequencing programs of photosynthetic organisms and which are now becoming crucial tools also in the studies of photosynthetic regulation. The book is intended for students, teachers and researchers in the field of biochemistry, molecular and cellular biology, integrative biology, stress biology and plant biology.



Cove Days - The Seaside Childhood of a Scientist

Full information on ordering *Cove Days - The Seaside Childhood of a Scientist* by **John Jagger**, former ASP President, can be obtained from <http://www.atlasbooks.com>.

A web site for the book is available at <http://www.bookmasters.com/marktplc/00700.htm>.

The Melanoma Research Foundation Melanoma Research Awards

The Melanoma Research Foundation is a nonprofit organization dedicated to the support of melanoma research and the melanoma patient community. Our research awards are aimed at supporting medical research that will further the development of effective treatments and ultimately a cure for malignant melanoma, while encouraging a new generation of scientists and clinicians to join in this mission. Applicants should be young faculty members who are beginning a career in melanoma research and have not yet established strong federal funding. Both basic and clinical research projects will be considered. Applications primarily for the support of a postdoctoral fellow will also be considered. The research awards are \$50,000 per year for two years. Information on previous awards and applications materials are available on our web site at www.melanoma.org. Applications must be received by July 1 of each year, to commence on January 1 of the following year.

Submissions and inquiries should be directed to:
Research Grant Committee,
The Melanoma Research Foundation,
114 West Magnolia St.,
Suite 440,
Bellingham, WA 98225,
Phone: 800-673-1290,
E-mail: research@melanoma.org
Web: www.melanoma.org

Indemnification Amendment to ASP Bylaws

An indemnification amendment to the ASP bylaws, published in *ASP News* in spring 2001 (see: http://www.pol-us.net/ASP_Home/Newsltr/asp_nls.html), will be voted on at this year's Business meeting. This amendment indemnifies officers and council members against actions taken against them for performance of their duties and guarantees them a legal defense.

Upcoming Events

June 30, 2002

World Photodermatology Day

Paris, France

Sunday afternoon, the day before the 20th World Congress of Dermatology.

Contact:

Rik Roelandts

Photodermatology Unit

University Hospital

Kapucijnenvoer 35

B-3000 Leuven, Belgium

Email:

Rik.Roelandts@uz.kuleuven.ac.be

July 7-11, 2002

Ninth International Conference on Laser Applications in Life Sciences

Vilnius, Lithuania

Contact:

LALS'2002 Organizing Committee

Sauletekio al. 9, bldg.3

Vilnius, LT-2040, Lithuania

Tel: 370 2 366050

Fax: 370 2 366006

E-mail: lals.org@ff.vu.lt

July 13-17, 2002

30th American Society for Photobiology Annual Meeting

Le Chateau Frontenac

Quebec City, Canada

Contact:

Woody Hastings,

Chair of the Scientific Program

Tel: 617-495-3714

Fax: 617-496-8726.

Email: Hastings@FAS.Harvard.edu

July 14-19, 2002

XIXth IUPAC Conference on Photochemistry

Budapest, Hungary

Contact:

Hungarian Chemical Society (MKE)

H-1027 Budapest

Fu u. 68., Hungary

Phone: 36-1-201-6886

Fax: 36-1-201-8056

Email: mail.mke@mtesz.hu

August 25-28, 2002

Fifth International Melanocortin Meeting

Sunriver Resort in Central Oregon

Contact:

Fifth International Melanocortin

Meeting

Vollum Institute

Oregon Health & Science University

3181 Sam Jackson Park Rd L474

Portland, OR 97201-3011

Telephone: 503-494-1305

Fax: 503-494-4534

E-mail: melano@ohsu.edu

August 25-30, 2002

International Conference on Luminescence and Optical Spectroscopy of Condensed Matter (ICL'02)

Renaissance Hotel, Jerusalem, Israel

Contact:

ICL'02 Secretariat,

c/o Unitours Israel Ltd.,

P.O. Box 3190

Tel Aviv 61031, Israel

Telephone: +972 3 5209999

Fax: +972 3 5239299

Web site: [http://www.technion.ac.il/](http://www.technion.ac.il/technion/chemistry/ICL/)

[technion/chemistry/ICL/](http://www.technion.ac.il/technion/chemistry/ICL/)

E-mail: Meetings@unitours.co.il

August 30-September 4, 2002

10th European Conference on the Spectroscopy of Biological Molecules

Szeged, Hungary

Web site: <http://www.ecsbm2003.hu/>

September 9-13, 2002

XVIIIth International Pigment Cell Conference

Kurhaus Hotel, Scheveningen,

The Netherlands

Contact:

Mrs. Caroline M. van Battum

P.O. Box 2084

NL-2301 CB Leiden, The Netherlands

Telephone: +31(0)715276434

Fax: +31(0)715275262

Email: C.M.van_Battum@lumc.nl

October 7-8, 2002

5th Workshop on Ultraviolet Radiation Measurements

Kassandra, Hakidiki, Greece

Contact: Petri Kärhä

Telephone: +358-9-451 2289

Fax: +358-9/451 2222

Web site: <http://metrology.hut.fi/uvnet/>

E-mail: petri.karha@hut.fi

October 28-31, 2002

Laser Florence 2002

Villa Viviani Convention Center

Florence, Italy

Web site: <http://www.laserflorence.org/>

E-mail: info@laserflorence.org

February 23-28, 2003

Seventh International Conference on Solar Energy and Applied Photochemistry

[SOLAR '03] combined with

Fourth International Training

Workshop on Environmental

Photochemistry

[ENPHO '03]

Luxor, Upper Egypt

Contact:

Dr. Sabry Abdel-Mottaleb,

Professor of Chemistry, Director,

Photoenergy Centre Fac. of Science

Ain Shams University

Abbassia,

11566 Cairo, Egypt

Cell: + 2012 216 9584

Fax: + 202 484 5941 or + 202 634 7683

E-mail: solar@link.net or

solar@gega.net or

solar@photoenergy.org

July 5-9, 2003

31st American Society for Photobiology Annual Meeting

Inner Harbor Hyatt

Baltimore, MD