ASP News

Autumn 2002 (182) Vol. 31, No. 4

ASP Presidents at the 30th Annual Meeting banquet at Le Chateau Frontenac, Quebec City. From left to right, Tom Moore (President-Elect), John Spudich (Past-President), and Henry Lim (current President).

ASP New Investigator awardee Toshiyuki Okano (right) and his colleague Yoshi Fukada, shortly before enjoying their lunch at a Quebec City restaurant.

IN THIS ISSUE

Henry W. Lim
ASP President, 2002-2003

Message From the President

It has been a busy and productive summer for many members of the ASP. We had a superb scientific meeting at a pleasant and delightful venue in Quebec City in July. The feedback has been uniformly positive. We all need to thank **Woody Hastings** for organizing this meeting. In addition, I would like to thank the four Councilors who rotated off this year for their service to our Society, **Dianne Godar**, **Lisa Kelly**, **Marianne Krieg-Kowald**, and **Kathryn W. Woodburn**. I would also like to welcome the new Councilors, **Linda Chalker-Scott**,

Herbert Hoenigsmann, **David Sliney**, **Dennis Valenzeno**, and **Thomas Vogelmann**. A representative of the associate members, **Laura Lamb**, was also appointed to the Council.

It is my pleasure to announce that the Council has approved the recommendation of the *Photochemistry & Photobiology* Editor Search Committee's recommendation of **John D. Simon** as the next editor of *P&P*. John's term will start on January 1, 2004. **Irene Kochevar** and the Search Committee have done an excellent job in selecting John from a pool of extremely strong candidates.

John received his Ph.D. from Harvard University, did his post doctoral fellowship at UCLA, and held faculty positions at UCSD between 1985 to 1997, attaining full professorship in 1990. He relocated to Duke University in 1998, where he is the George B. Geller Professor of Chemistry, Professor of Biochemistry, and Research Professor in Ophthalmology. Currently, he is the Chairman of the Department of Chemistry at Duke University. His term as chairman will end in 2004. John is a prolific author with more than 150 publications. His interests include studies of protein motion, UV epidermal chromophores, and structure and function of melanins. We are confident that John will be able to bring *P&P* to the next level of achievement, building on the superb foundation that has been created for us by **Tito Scaiano**, the current editor.

- Henry W. Lim, ASP President

ASP Business Meeting

At the annual ASP business meeting, held on July 15 in Quebec City, the membership voted to increase dues for full members by $10.00 for 2003, and an additional $5.00 for each year of 2004 and 2005. Associate member dues are to increase by $5.00 each year. This represents the first dues increase since 1998. **Daniel Yarosh**, ASP Treasurer, noted at the business meeting that the current dues cover only about two-thirds of the pro-rated cost of an annual journal subscription and the association management fees. The gradual increase will help the ASP maintain a balance in its income with revenue from publication of *Photochemistry and Photobiology*.

Letter From the Editor

Peter A. Ensminger

I hope that everyone who was fortunate enough to attend the 30th Annual Meeting of the ASP enjoyed it as much as I did. Please thank **Woody Hastings** for his excellent job in organizing the meeting and the ASP Council for choosing such a beautiful location.

The Council made several important decisions at their meeting in Quebec City. Most importantly, with the coming end of **Tito Scaiano**'s five year term as editor of *Photochemistry and Photobiology*, they selected a new editor for our journal (see "Message from the President" on page 1). As a cost-saving measure, they also decided that the autumn, winter, and spring issues of the newsletter should be distributed exclusively on-line. A hard copy of the summer issue will be mailed before the Annual Meeting in Baltimore.

After you've downloaded the latest issue of the newsletter at http://www.pol-us.net/ASP_Home/Newslttr/asp_nls.html, why not stop by the ASP homepage at http://www.photobiology.org (best viewed with Internet Explorer ver. 6). Every other week, I add several "Current News" items and a list of "Recent Publications by ASP Members". Please let me know if I have over-looked any of your own recent publications that you would like to include and please suggest topics for the "Current News" section.

Lastly, make room on your schedule for our next annual meeting in Baltimore, from July 5th to 9th. In addition to our scientific agenda, Baltimore has Camden Yards, one of the country's most beautiful baseball parks, and the Inner Harbor, with its many fine shops and restaurants. Both are within walking distance of our hotel, the Inner Harbor Hyatt. Also near the hotel within the inner harbor are the fabulous National Aquarium, the Maryland Science Center, the Maritime Museum, and Harborplace, a shopper's paradise located at the water's edge, two glass-enclosed pavilions featuring more than 160 shops, restaurants, and snack stands, while an above-ground walkway connects the Harborplace pavilion to the chic boutiques at the Gallery. Plant-lovers will truly enjoy the nearby Ladew Topiary Gardens, which has been described as "the most outstanding topiary garden in America".

ASP News
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ASP Officers and Councilors (2002-2003)

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Editor, Newsletter	Peter A. Ensminger	3	ensmingr@twcny.rr.com

Corporate Exhibitors at 30th Annual ASP Meeting

Biophotonics International: http://www.Photonics.com
Biophotonics International is a magazine dedicated to photonic technology.

International Light, Inc.: http://www.intl-light.com
International Light makes radiometric instruments for research and biomedicine.

Luzchem Research, Inc.: http://www.luzchem.com
Luzchem makes instruments for study of light interactions with a variety of materials.

Ocean Optics, Inc.: http://www.oceanoptics.com
Ocean Optics makes miniature spectroscopy components for optical-sensing.

Photon Technology International, Inc.: http://www.pti-nj.com
PTI makes photonics components and fluorescence research instruments.

Royal Society of Chemistry: http://www.rsc.com
The Royal Society of Chemistry publishes the *Journal of Photochemical & Photobiological Sciences*.

Xenogen Corporation: http://www.xenogen.com
Xenogen makes real-time *in vivo* imaging technologies.

Photobiology Electronic Teaching Aid Debut:
The Digital Photobiology Compendium

www.photobiology.info

A new up-to-date teaching aid is now available in photobiology. The Digital Photobiology Compendium (DPC) is designed to be used like a printed textbook, as a resource in conventional college classes, or as a stand-alone teaching aid. It consists of a set of mutually-compatible, interactive learning modules covering all areas of photobiology. The most elementary of these modules are at the level of the undergraduate student. Detailed modules cover additional material up to the level of the professional scientist. The modules can be assembled into custom-designed sequences, and the "*Work*" thus created can be named and assigned to a class of students. And, best of all, the DPC is available at no charge to the instructor or learner.

To use the DPC, an instructor accesses the "Instructors" area of the DPC web site (http://www.photobiology.info). After completing a simple registration, a set of user-friendly pages provide a guide for the creation of custom *Works*. To make this process more intuitive, the modules of the DPC are arranged in a matrix. The rows of the matrix represent areas of photobiology, such as photophysics, photochemistry, photosensitization, etc. Modules in the first column of each of these areas are Basic Text modules, written at the level of the undergraduate student. The next column contains modules that describe experiments in each area. The third column modules are histories. The remaining modules, from 5 to 10 in the various areas, provide more detail or an advanced treatment of topics introduced in the Basic Text modules.

Once a *Work* has been created by an instructor, his students access the "Learners" area of the DPC web site where they register and then request their assigned *Work* by its name or its assigned number. Alternately, a standard *Work* can be assigned. For example, the set of all Basic Text modules does not need to be custom assembled. It can simply be requested as "Basic Text". At all times students have access to a glossary of photobiology terms. The site keeps track of each student's progress through the assigned material, allowing him to return to the point where he last worked.

Interactivity is a key feature of the DPC. For example, a popular feature is the energy level diagram, often called a Jablonski diagram, that allows students to point at any transition arrow to learn what it represents. The figure also becomes animated and shows not just the transition that represents fluorescence, but rather the complete sequence of fluorescence starting with absorption of a photon.

Is it really free? Financially, yes. There are no charges, but to keep the site free as long as possible, it is imperative that users provide evaluations of the site and the content. Therefore, before a student can access the material in a module, he must complete a short (5-10 question) pre-test. He is also asked to complete a post-test after each module. Similarly, we ask instructors and learners to complete evaluation survey forms at the site. This data will allow us to seek continued funding from the U.S. Department of Education to continue the project.

Interested? Give it a try. There are already about 20 modules in place, and more are continually being added, approaching a goal of about 100 modules in the next 2 years. And if you'd like to help by developing a module, please contact **Dennis Valenzeno** at dvalenze@kumc.edu. All DPC modules are peer reviewed by at least 2 anonymous reviewers one through the ASP Education Committee and the other through the ESP Education and Training Group.

New ASP Secretariat
Allen Marketing and Management

One of the important issues dealt with by the Executive Committee this past year has been the decision of what organization should be contracted to serve as the ASP Secretariat for the upcoming year (9/1/02-8/31/03). The committee solicited and studied proposals from several associations as well as the contract proposal from Courtesy Associates. The Committee (Chair **John Spudich, Woody Hastings**, **Lanie Hill**, **Henry Lim**, **Tito Scaiano**, **Dan Yarosh**, and **Dennis Valenzeno**) conducted a thorough analysis, with telephone conferences to discuss the proposals, telephone discussions with Courtesy Associates executives, checking of references of the new associations, and personal interviews with representatives from several candidate associations.

The Executive Committee decided that the needs of the ASP would be best served by contracting with a new Secretariat, Allen Marketing & Management (AM&M), a division of Allen Press, Inc., the company which handles the Society journal publication, *Photochemistry and Photobiology*. The committee emphasized that they appreciate the service provided by Courtesy Associates during this year and their contributions to furthering the Society's management goals, but they found AM&M to be a better match to our needs, and a more cost-effective choice for the ASP. Accordingly, a contract with AM&M for society management and meeting management was negotiated and signed on June 21, 2002 for the period 9/1/02-8/31/05.

Photobiology Discussions on the Internet

Have you ever found yourself searching for some tidbit of information that is probably common knowledge if you could just ask the "right" person? If so, "Photobiology Discussions" may be your salvation.

"Photobiology Discussions" is a list server. Your e-mail message will be automatically distributed to everyone who is on the discussion list. It is an excellent way to query your colleagues regarding any aspect of photobiology.

Participation is easy. To register, just send an e-mail message to: **majordomo@lists.stanford.edu**
In the Message portion of the e-mail, type the words:
subscribe poldiscussion-list your-name <your-e-mail-address>
Please put "pointy brackets" < > around your e-mail address. These keys are above the comma and period keys on most keyboards.

Once registered, you simply send e-mail messages to the list server at: **poldiscussion-list@lists.stanford.edu**
Note that this is a different address than you use for registration. Your message will be automatically distributed to everyone who is registered. They, in turn, can respond to your query or assertion. This is an excellent way to locate that unusual reagent that you can't find, or to locate a reference that you just know is "out there" somewhere.

The "Photobiology Discussions" list server was managed by **Bob Midden** (Bowling Green State Univeristy) for a number of years, but it is now being run at Stanford University by **Kendric Smith** (Founder and First President of ASP). Kendric also acts as moderator of the group, which means that if things get too far out of hand, he may have to rap your electronic knuckles.

So the next time you are stumped by one of those nagging little uncertainties that you are just sure is well known if you could just ask the right person, give "Photobiology Discussion" a try.

Further information about the "Photobiology Discussion" list server and the "Chlorophyll Fluorescence Discussion" list server, is available at:
http://www.kumc.edu/POL/listserv.html

- Kendric Smith

ASP 2002 Annual Meeting Travel Award Recipients

Name	Department/Agency	Abstract Topic	Mentor	City/ Country
Afaq, Farrukh	Division of Dermatology University of Wisconsin Madison	Green tea constituent (-)-epigallocatechin-3-gallate inhibits ultraviolet B-mediated activation of nuclear factor kappa B signaling pathway in normal human epidermal keratinocytes	H. Mukhtar	Cleveland
Agar, Nita	Department of Medicine (Dermatology) University of Sydney	UV fingerprint and oxygen radical mediated genetic damage occur at different depths in the p53 gene of solar keratosis and squamous cell carcinoma of the skin in humans	G. Halliday	Australia
Cecic, Ivana	British Columbia Cancer Agency	Photodynamic therapy enhances both effector and regulatory functions of the complement system in murine tumor models	Zeng/ Korbelek	Vancouver

Name	Department/Agency	Abstract Topic	Mentor	City/ Country
Dussault, Sylvie	Hopital Notre-Dame	Photodynamic therapy with toluidine blue in K562 leukemic cells.	Bissonnette	Montreal
Jiang, Weidong	Department of Immunology University of Texas	Loss of the unusual antigenic properties in UV-induced skin tumors from mice with no functional p53.	M. Kripke	Houston
Kriska, Tamas	Department of Biochemistry Medical College of Wisconsin	Mitochondrial lipid hydroperoxides as early mediators of apoptosis in ALA/light-treated cells	A. Girotti	Miluakee
Lamb, Laura	Department of Chemistry Duke University	Spectrally-Resolved Confocal Microscopy Studies of the Emission Properties of Individual Human Ocular Lipofuscin Granules	J. Simon	Duke
Lavi, Ronit	Department of Chemistry, Bar-Ilan University	Low power light effects on cells	Orbach	Israel
Liu, Liyan	Harvard University Cambridge	Sequences and structures of luciferases from different dinoflagellate species	Hastings	Boston
Liu, Yan	Department of Chemistry Duke University	Atomic Force Microscopy Studies of the Structural Morphology of Sepia Eumelanin	J. Simon	Duke
Liu, Younan	Lab of PDT, Division of Dermatology, Hospital of Notre-Dame	Photodynamic therapy with both topical or systemic ALA delays the appearance	Bissonnette	Montreal
Losi, Aba	Max-Planck Institut für Strahlenchemie	Photophysics, photochemistry and structural modeling of phototropin-related prokaryotic proteins: a new family of bacterial blue-light receptors	Gärtner	Germany
Manivasager, Vanaja	Division of Medical Sciences, National Cancer Centre	Macro-micro fluorescence imaging of bladder tumour xenografts on nude mice using 5-aminolevulinic acid and its esterified analogue aminolevulinic acid methyl ester	Olivo	Singapore
Mathonnet, Geraldine	Guy Bernier Research Center, Maisonneuve-Rosemont Hospital	Human cells expressing the hepatitis B-virus X protein are deficient in both global- and transcription-coupled nucleotide excision repair of UV-induced DNA damage.	D. Ramotar	Montreal
Miyagi, Kiyoko	Department of Pediatrics Medical College of Wisconsin	Response of leukemia cells, solid tumor cells, drug-resistant tumor cells and normal hematopoietic progenitor cells to crystal violet- and Merocyanine 540-PDT	F. Sieber	Milwaukee

Name	Department/Agency	Abstract Topic	Mentor	City/ Country
Nghiem, Dat	Department of Immunology The University of Texas	Cis-urocanic acid causes immuno-suppression through 5-HT receptor signaling.	S. Ullrich	Houston
Niziolek, Magdalena	Department of Biochemistry, Medical College of Wisconsin	Antioxidant and cytoprotective effects of nitric oxide on ALA/light-treated tumor cells.	A. Girotti	Milwaukee
Pastila, Riikka	STUK- Radiation and Nuclear Safety Authority	Histological evaluation of the UVA-induced metastatic lung melanomas in mice: A pilot study	D.Leszczynski	Helsinki
Pfefer, Josh	Center for Devices and Radiological Health U.S. Food and Drug Administration	Variations in the Spatial Origin of Detected Fluorescence in Tissue due to Fiberoptic Probe Geometry	W. Ediger	D.C.
Poetschke Klug, Heather	Division of Cancer Prevention National Cancer Institute	Immune Function in the hepatocyte growth factor/scatter factor (HGF/SF) trasgenic mouse model of ultraviolet irradiation-induced melanoma	F. Noonan	D.C.
Rizvi, Imran	Wellman Laboratories of Photomedicine, Massachusetts General Hospital, Harvard Medical School	Enhancement of epidermal growth factor receptor targeted treatment of ovarian cancer with photodynamic therapy	T. Hasan	Boston
Sharlin, David	Wellman Laboratories of Photomedicine, Massachusetts General Hospital, Harvard Medical School	Photodynamic Desconstruction of Mycobacteria in a new Animal Model for Localized Infection	T. Hasan	Boston
Spronck, Jennifer	Centre for Cancer Therapeutics Ottawa Regional Cancer Centre	Abrogation of p53 unmasks an S-phase arrest following ultraviolet radiation	B. McCay	Ottawa
McMasters, Sun	Department of Chemistry and bio-chemistry University of Maryland	Photonuclease Activity of Naphthalene Imide and Diimide Derivatives	L. Kelley	Baltimore
Thibaut, Sonia	Department LASER, Laënnec Hospital	Indirect Detection of Photosensitizer *Ex Vivo*	T. Patrice	France
Walterscheid, Jeffery	Department of Immunology The University of Texas	Cis-urocanic acid acts as a 5-HT receptor agonist.	S. Ullrich	Houston
Zacal, Natalie	Department of Biology, McMaster University	Sensitivity of photodynamic therapy resistant human colon carcinoma HT29 cells to UV and cisplatin.	A. Rainbow	Hamilton

Upcoming Events

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
Web site: http://www.ohsu.edu/melanocortin/
E-mail: melano@ohsu.edu

August 25-29, 2002
3rd International Conference on Supramolecular Science and Technology
Buenos Aires, Argentina
Web site: http://www.ancefn.org.ar/activi-dades/

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/technion/chem-istry/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
Web site: http://users.raketnet.nl/ipcc/
E-mail: 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

November 3-5, 2002
Fifth International LRO Lighting Research Symposium
Grosvenor Resort
Orlando, FL
Web site:
http://www.LightingResearchOffice.org
E-mail: lighting@ieee.org

January 12-17, 2003; March 16-21, 2003
Protein Purification: Isolation, Analysis, and Characterization of GFP
Cook College, Rutgers University, New Brunswick, NJ
Contact:
Prof. William W. Ward
Tel: 732-932-9562 ext. 216 or 212
Web site:
http://www.rci.rutgers.edu/~meton/protein.html
Email: crebb@rci.rutgers.edu

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
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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

March 20, 2003
Photomedicine Society Meeting Society
San Francisco, CA
Contact: Susan Milberger
Fax: 214-648-0280
Web Site: http:// www.photomedicine.org
E-mail: susan.milberger@utsouthwestern.edu

July 5-9, 2003
31st Annual Meeting of the American Society for Photobiology
Inner Harbor Hyatt
Baltimore, MD

July 26-31, 2003
XXIst International Conference on Photochemistry
Nara, Japan
Contact: Professor N. Nakashima,
Department of Chemistry,
Osaka City University, Sugimoto, Sumiyoshi,
Osaka 558-8585 Japan
Phone and Fax: +81-6-6605-2552
Web site: http://dolphin.ap.eng.osaka-u.ac.jp/icp21.html
E-mail: icp21@sci.osaka-cu.ac.jp

August 30 - September 4, 2003
10th European Conference on the Spectroscopy of Biological Molecules
Szeged, Hungary
Web Site:
http://www.ecsbm2003.hu/ecsbm2003.html

September 3-6, 2003
Plant Photobiology Meeting
Philipps-University Marburg
Marburg, Germany
Contact: Alfred Batschauer, Chair of the Scientific Program
Tel: +49-6421-28 27064
Fax: +49-6421-28 21545
E-mail: batschau@mailer.uni-marburg.de
Birte Dohle, Secretary
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September 6-13, 2003
10th Congress of the European Society for Photobiology
Vienna, Austria
Web site: http://www.esp2003.org/
E-mail: office@esp2003.org

June 10-15, 2004
14th International Congress on Photobiology
International Convention Center
Jungmoon, Jeju (Cheju), Korea
Web site: http://photos.or.kr/ICP2004/

July 10-14, 2004
32nd Annual Meeting of the American Society for Photobiology
Westin Seattle
Seattle, WA.