



32nd ASP Annual Meeting Seattle, July 10 to 14, 2004

Preparation is now underway for the 32nd Annual Meeting of the ASP. With assistance from members of the Scientific Program Committee, a preliminary program is being developed. The program will cover topics in all five ASP divisions. The meeting will start with a keynote address in late afternoon on Saturday (July 10) and will end following the morning session on Wednesday (July 14). Some of the new features planned for this meeting include a 3-hour plenary session on Sunday morning, with two Award lectures and the President's lecture; a joint ASP/ESP symposium on UV radiation and global climate change; and daily lunch breaks of two hours for visiting the exhibits and poster sessions. There are over 20 symposia, three photobiology school lectures, a keynote address by **R. Rox Anderson** (Harvard Medical School), and two contributed papers sessions. I will communicate the details as the program is finalized.

In mid-September I went to Seattle for a site visit with **Linda Hardwick** and **Rhonda Green** of the Executive Secretary's office. The venue, Westin Seattle, is located in the heart of downtown Seattle. Most of the sessions are scheduled on the same floor and we are very pleased with the quality of the guestrooms, which are offered at very competitive rates. Downtown Seattle has become very vibrant in the past few years. There are multiple shops and restaurants within a few blocks of the hotel. The Aquarium, Pike Place Market, and Seattle Art Museum are only a 15

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minute walk away, and the Space Needle and Seattle Center are one monorail stop away.

Because of the guarantee on the number of room nights that we have to provide for the hotel, it is important for us to meet this guarantee. Therefore, I would like to urge all of you to make the lodging arrangement at the Westin. Our society will greatly appreciate it!

The 2004 Seattle meeting promises to be an exciting scientific meeting. In addition, Seattle is a most enjoyable city to visit for the entire family in the summer. Please reserve the dates on your calendar.

I hope to see you in Seattle next July!

Henry W. Lim
Chair, Scientific Program Committee
2004 Annual Meeting



Unidentified Photobiologists

Your help is needed! While preparing materials to send to the *ASP Archives*, **Woody Hastings** and I found pictures of photobiologists we could not identify. The pictures were taken at ASP and other photobiology meetings. A series of pictures are posted on the ASP web site in the History section, with directions for sending identifications. Thanks very much for your help.

Irene E. Kochevar
ASP Historian and Archivist

ESP and ASP - Shared Future?

In the previous issue of *ASP News*, **Tom Moore** discussed several issues that we feel are also very relevant to the ESP and indeed photobiology as a whole. The key issue in Tom Moore's *Message from the President* article focussed on the budget, which touches on all the activities of any society. The future that nearly all journals are facing is the change in dissemination of research papers, with electronic publishing having far-reaching consequences. These consequences were initially difficult to forecast and anticipate. The ESP faces the same situation, although we are very satisfied with the transition that we made to new publishers as of January 2002. Our new official journal, *Photochemical & Photobiological Sciences*, is co-owned by the ESP and the European Photochemistry Association.

A second topic brought up by Tom Moore is whether the ASP should hold biennial rather than annual meetings. The ESP would no doubt welcome the adoption of biennial ASP meetings, since this would greatly facilitate the efforts of our societies to promote joint activities. Previously, the ESP and ASP have tried to organise joint symposia at each other's meetings, but this has not always gone smoothly. The ESP only holds biennial meetings and coordination was difficult when organizing activities on a biennial and an annual basis. We are very pleased that the ASP accepted our proposal of a designated coordinator of the joint ESP-ASP symposium who would serve for the next 4 years. We agree that the ESP would support the symposium during the years that we have our own congress, and that the ASP would reciprocate during other years. This will encourage members of our societies to attend each other's functions and would facilitate organization of joint congress activities.

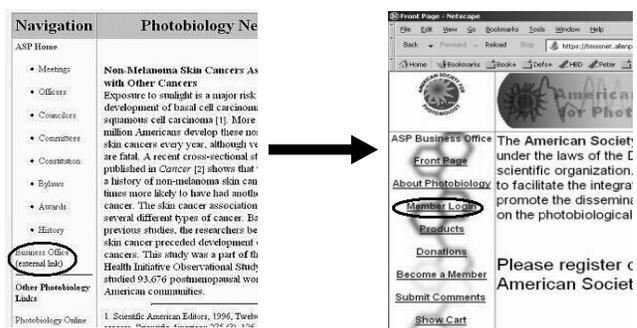
A consequence of this change in annual meeting schedules is that the ASP President may be asked to serve a two-year term, rather than a one-year term. This would make for additional continuity for the ASP and ESP when planning common activities of our societies.

We look forward to a further exchange of ideas between our two societies.

-Janet F. Bornman (ESP Past-President)
-Jacques Piette (ESP President)
-Francesco Lenci (ESP President-Elect)

Letter from the Editor

Many ASP'ers have emailed asking how to contact other members of the society. The ASP Secretariat keeps these records and provides easy online access for all members. Go to the ASP web site, www.photobiology.org, and click on the Business Office link on the Navigation column. Then, log in with your Userid (the number on the address label of your *Photochem Photobiol*) and Password (your last name by default, although you can change this). Click "Login" and then select "Membership Directory" to search for another member of the ASP. Voila!



While you're on our web site, you will notice that we have been modifying the design, with a header that is more similar to the *Photochem Photobiol* web pages. You will also notice that we now have a "Search" box to facilitate searching of ASP pages. Please let me know if we can make additional improvements to make the web site more useful.



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Editor
Peter A. Ensminger, Ph.D.
256 Greenwood Place
Syracuse, NY 13210
Tel: 315-478-6024
E-mail: ensminger@twcnv.rr.com

Layout and Design
Tracy A. Newman
E-mail: tnewman@everestkc.net

Candidates for President Elect



Lisa A. Kelly

Associate Professor of Chemistry and Biochemistry
University of Maryland, Baltimore County (UMBC)
ASP Division 1
(Photochemistry, Photophysics & Phototechnology)

Education: B.S. in Chemistry (SUNY Geneseo); Harold and Helen McMaster Junior Fellow, Ph.D. in Photochemical Sciences

(Bowling Green State University); DOE Distinguished Post-Doctoral Fellow (National Synchrotron Light Source and Biology Department, Brookhaven National Laboratory).

Appointments: Assistant Professor, University of Maryland, Baltimore County (UMBC), 1996 – 2001; Associate Professor, UMBC, 2001 – present.

Research Interests: My research interests lie in the area of photoinduced oxidative damage in nucleic acid and protein systems. Through molecular engineering, we synthesize compounds that selectively associate with specific regions of biological macromolecules. Photochemically, the compounds initiate a sequence of chemical events that modify specific nucleic or amino acids in the vicinity of the binding site. Our research uses transient spectroscopies to identify and follow, in real time, the reactive intermediates. This information is used in conjunction with product analysis studies (HPLC, mass spectroscopy, gel electrophoresis) to identify the photoinduced modification and understand the mechanisms of the oxidative damage.

My group has concomitant interests in developing new tools for phototechnology and biosensing. We are developing novel classes of functionalized polymers whose fluorescent spectral properties change in response to the physical environment (pressure and temperature). These polymers, when coated on surface of interest, provide an inexpensive way to image, in a global and real-time fashion, environmental changes that are occurring at a surface. To understand the fundamental physical processes and polymer dynamics, we use both steady-state and time-resolved fluorescence methods.

ASP Service: Member since 1991; Member of Council and Division 1 representative (Chaired Education/Public Relations and Membership Committee), 1999 – 2002; Symposium organizer at ASP Annual Meetings (Baltimore, Chicago, Washington, D.C.); Division 1 Representative of the Scientific Program Committee, 2002 – present; Associate Editor, Photochemistry and Photobiology, 2002 – present.

(Continued on page 4)



Daniel B. Yarosh

President and Chairman
AGI Dermatics
Freeport, Long Island, NY
ASP Division 4 (Photomedicine)

Education: B.A. in Biology, 1976, Macalester College, St. Paul, Minnesota (National Merit Scholarship); Ph.D. in Molecular Biology, 1978, University of Arizona College of Medicine, Tucson, Arizona (Tozer Foundation

Graduate Scholarship); National Science Foundation Post-Doctoral Fellowship, 1979-1980, Biology Department, Brookhaven National Laboratory, Upton, New York; Fellow, Senior Fellow, Cancer Expert, 1980-1985, National Cancer Institute, Bethesda, Maryland.

Founder in 1985 of Applied Genetics Inc., which became AGI Dermatics in 1998.

Scientific Interests: Commercial applications of DNA repair technology. My academic and industrial research has focused on methods to engineer, purify and deliver DNA repair proteins and genes to living cells. The most important application of this technology is in solar UV damage to DNA and its role in skin cancer. Our lab developed a liposomal form of the DNA repair enzyme T4 endonuclease V that was shown in a clinical study to lower the rate of skin cancer in patients with the photosensitive genetic disease xeroderma pigmentosum. We are now interested in DNA repair gene polymorphisms and their relationships to solar UV damage to skin. I have authored over 100 scientific papers, 17 patents, and collaborated with many photobiology laboratories around the world.

ASP Service: I have been a member of the ASP since 1980, and I organized several symposia at annual meetings. I am a former Council member (1997-1998), Chairman of the Publication Committee (1998), and Treasurer (1999-2003).

Candidate's Statement: The ASP is the premier professional society with the best journal in photobiology and photochemistry, but we face serious challenges common to most focused technical societies. The financial basis of ASP is shifting away from P&P institutional subscriptions, so that the annual meeting must run on a balanced budget and membership dues must carry more of the burden. The average age of our membership is increasing, so we need to hold meetings each year where young scientists are recruited and given many prominent opportunities to present their research. The AM&M Executive Secretariat is the best we have had in many years. However, operations costs of both the Society and the Journal must be kept under close control, and the Internet should be used wherever possible to save expenses while keeping our members in

(Continued on page 4)

(Continued from page 3, Lisa Kelly)

Candidate's Statement: I believe that the main mission of the ASP should be to foster and stimulate the interdisciplinary areas of photochemistry and photobiology. The Society is unique in that its members are drawn from very different fields, yet brought together with a common interest in photobiology. Through the annual meeting and other opportunities the Society can provide, we can all learn a great deal and expand our scientific horizons. As the science evolves, so should the membership. We must make it a primary objective to bring new investigators, students and post-docs into our community. I am pleased to see that the Council has recently added an Associate Member representative to join their meetings and bring forth suggestions and issues that are important to this subset of our membership. By having Associate Members take an active part in the Society's governance, and integrating them as speakers into our meeting symposia, I feel that we can provide a scientific "place" for them to call home and help them transition into photobiology careers. I look forward to the opportunity to participate in a continued effort of these and other important missions as president of the ASP.

National Medal of Science for Evelyn Witkin



On November 6, President **George W. Bush** awarded the National Medal of Science to **Evelyn M. Witkin**. There were six other recipients of the award this year, the nation's highest honor in science and engineering.

Many ASP members know Evelyn Witkin for her groundbreaking research on DNA mutagenesis and repair. In 1973, she and **Miroslav Radman** defined the "SOS Response" in *E. coli*. It is now known that this DNA repair system involves the activation of more than 40 genes via the RecA regulator and that similar repair systems exist in humans and many other organisms. These studies reinforced Dr. Witkin's role as a leader in the field of biological responses to DNA damage.

Dr. Witkin moved to Rutgers University in 1971, where she is currently Barbara McClintock Professor Emerita. Among her many previous awards are election to the National Academy of Sciences in 1971, the 1982 American Women of Science Award for Outstanding Research, and the 2000 Thomas Hunt Morgan Medal of the Genetics Society of America.

-PAE

(Continued from page 3, Dan Yarosh)

the loop. I want to encourage the innovative electronic methods for teaching photobiology and photochemistry that have been developed within the society by some of our members. I look forward to serving this Society that has provided me with both stimulating science and camaraderie during my career.

Flavin-based Sensorial Photoreceptors: From Bacteria to Plants



Parma's Romanesque cathedral (left) and the nearby Baptistery (1196-1260), one of the most beautiful examples of Italian middle-age art. Photo provided by Tourist Office of Parma.

From March 26-27, the historical city of Parma, Italy will host a European Science Foundation (ESF) workshop: *Flavin-based sensorial photoreceptors: from bacteria to plants*. Funding is provided by the ESF and the University of Parma. A pool of scientists from many disciplines will meet and discuss their recent discoveries and unanswered questions about plant blue-light photoreceptors - the phototropins and cryptochromes - and their counterparts in lower organisms. The meeting will be organized in discussion forums concentrating on reaction mechanisms, structural studies, physiological roles of flavin-based photoreceptors, signal transduction mechanisms, and protein chemistry. The aim of the workshop is to strengthen collaborations, promote multidisciplinary studies, and encourage the development of new projects by European groups in the field of flavin-based, blue-light photosensory biology. More details are available at:

www.fis.unipr.it/~losia/losiweb/Workshop.htm and www.esf.org.

-**Aba Losi**, University of Parma (losia@fis.unipr.it)

First and Final Call for Papers

2004 Annual Meeting of the ASP

Seattle, WA

July 10-14, 2004

Abstract Site Scheduled to open by Jan 5, 2004 at

www.photobiology.org

Deadlines

Please read and follow all instructions carefully. Ensure that your abstract is submitted online by the deadline. Late breaking abstracts will not be included in the 2004 annual meeting Program and Abstract book due to production schedules.

Call for Abstracts

The Program Committee requests all invited speakers to submit abstracts of their presentations, and solicits contributed abstracts for oral or poster presentation from all interested scientists. Rules for abstract submission and procedures for submitting on line are given below. **The abstract deadline is April 20, 2004.**

Rules for Abstract Submission

A member of the Society (Regular or Associate) may submit only one contributed abstract for which an oral presentation is requested. Members may co-author additional abstracts for oral presentation that other members are presenting or sponsoring. Contributed abstracts for poster sessions are not limited. The same rules apply to non-members, but a member of ASP must sponsor their submissions. Each abstract should be submitted separately.

Invited speakers for symposia sessions are asked to submit abstracts of their presentations, following the instructions on the web site, indicating the session in which it will be, e.g., B4 or D2, etc., as listed in the Preliminary Program. Such abstracts do not need to be sponsored, and do not count towards the limitation on contributed abstracts; invited speakers may thus contribute an additional abstract for oral presentation and unlimited abstracts for poster presentation.

Platform and Poster Presentations

Abstracts may be submitted for oral or poster presentation. The Program Committee will attempt to respect the author's preference for type of presentation, whether oral or as a poster, but reserves the right to make the assignment. Some submissions will be selected by symposia chairs for presentation at their sessions, subject to consent of the authors. Sessions will be grouped by subject matter. Please indicate the category most appropriate for your work:

1. Photochemistry, Photophysics & Phototechnology
2. Photosensory & Circadian Biology
3. Photosynthesis, Bio- & Chemiluminescence
4. Photomedicine
5. Environmental Photobiology & UV effects

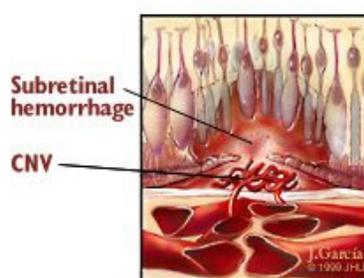
Submission Procedures and Acceptance Policy

Abstracts are to be submitted online. This procedure will allow abstract submission, review and publication all from our web site. There is no fee for online submissions. Once all abstracts have been reviewed and the program is set, this information will be accessible at the web site. In addition, the abstracts will be published in printed form and will be distributed at the meeting in July. **Abstract Deadline: April 20.**

Late Breaking Abstracts

Deadline: June 15, 2004. Abstracts submitted between April 21 and June 15 by registered delegates will be presented in the "Works in Progress" poster session. Submit abstracts to Linda Hardwick, ASP Business Office, PO Box 1897, Lawrence, KS 66044.

PDT for Macular Degeneration



"Wet" macular degeneration

"Wet" macular degeneration, in which choroidal neovascularization (CNV) leads to sudden and severe loss of central vision. Photo courtesy of the Wilmer Eye Institute, Johns Hopkins Hospital (www.wilmer.jhu.edu).

The National Institute for Clinical Evidence (NICE), a part of Great Britain's National Health Service that provides professionals with guidance on current best practices, recently recommended photodynamic therapy (PDT) for certain patients with age-related macular degeneration. In particular, NICE recommended that patients with classic subfoveal choroidal neovascularisation (a type of "wet" age-related macular degeneration), but no sign that this is occult, and with at least 6/60 vision should be considered for PDT. New blood vessels growing in the choroid layer (beneath the retina) is the classic sign of neovascular age-related macular degeneration. The new vessels typically leak, leading to loss of vision.

In the recommended PDT for this condition, a low power 689 nm laser is used to activate intravenously injected Visudyne® (verteporfin), a benzoporphyrin derivative. This results in formation of free radicals that damage the newly formed blood vessels in the eye, inhibiting development of macular degeneration. Visudyne is manufactured by Novartis Ophthalmics, the eye health unit of Novartis AG. The full NICE guidelines can be found at: www.nice.org.uk. Visudyne is already approved in the United States and Canada.

-PAE

ASP Awards Committee Seeks Nominations

The ASP Research Award

1. The candidate must be nominated by, at a minimum, another member of the ASP and have made a major research contribution to the field of Photobiology. No self-nomination will be accepted.
2. Has at least 10 years of post-graduate (Ph.D. or M.D.) research.
3. For equivalent candidates, preference is given to the one who has contributed the most to the ASP.
4. The nomination package will stand for three years, with an opportunity to be updated yearly by the nominator. At the end of the three years, a new nomination package must be submitted.

The award consists of \$1000 plus travel (total \$1500) to be used for travel to the annual ASP meeting, and a Plaque that will be the envy of your colleagues.

New Investigator Award

This competition is open to any investigator who has recently entered the discipline. This is typically a young investigator (under age 36), but all investigators should be considered, even a senior scientist who is new to the area. Criteria 3-5 of the Research Award also apply to the New Investigator Award. The award consists of \$1000 plus travel (total \$1500) to be used for travel to the annual ASP meeting, and a Plaque.

Award winners will be honored at the annual ASP meeting where they will give a special lecture on their research.

Nominations for the ASP Research Award, and New Investigator Award can be made by submitting via snail mail or email a (1) letter of nomination, plus (2) a curriculum vitae of the nominee to: Thomas C. Vogelmann (thomas.vogelmann@uvm.edu)

Botany and Agricultural Biochemistry
Marsh Life Science Bldg.
109 Carrigan Dr.
University of Vermont
Burlington, VT 05405-0086

ph (802) 656-0422
fax 802-656-0440

Deadline for nominations: January 15, 2004 (or until a suitable candidate is identified)

ASP Research Award



*John Spudich, 2003
ASP Research
Award winner.*

The **ASP Research Award** recognizes individuals who have made major contributions to the fields of photobiology, photochemistry, and/or photophysics.

| | |
|------------------------|-------------------------|
| 1986: Barry Rosenstein | 1995: James Cleaver |
| 1987: Thomas Dougherty | 1996: Philip Hanawalt |
| 1988: Peter Quail | 1997: Michael Rodgers |
| 1989: Richard Mathies | 1998: Sylvia Braslavsky |
| 1990: Aziz Sancar | 1999: Margaret Kripke |
| 1991: Pill-Soon Song | 2000: Christopher Foote |
| 1992: Steven G. Boxer | 2001: Thomas Moore |
| 1993: Kenneth Sauer | 2002: Woody Hastings |
| 1994: John Hearst | 2003: John Spudich |

ASP New Investigator Award

The **ASP New Investigator Award** recognizes promising quality research performed at a relatively early stage in an investigator's career. Competition is open to any investigator who has recently entered the discipline. It is generally thought to be a young investigator (under age 36), but all investigators should be considered, even a senior scientist who is new to the area. The Committee should select an investigator who it feels will continue to excel in the field.



*John Christie, 2003
ASP New Investigator
Award winner.*

| |
|-------------------------|
| 1994: Carl Bauer |
| 1995: Thomas P. Sakmar |
| 1996: Robert W. Redmond |
| 1997: Peter Glazer |
| 1998: Kevin Schey |
| 1999: Faith Strickland |
| 2000: Emmanuel Liscum |
| 2001: Paola Taroni |
| 2002: Toshiyuki Okano |
| 2003: John Christie |

Upcoming Events

Jan 8-11, 2004

13th Western Photosynthesis Conference

Asilomar Conference Center
Pacific Grove, CA

Contact: Steve Herbert

E-mail: sherbert@uwoyo.edu

Web site: www.lyon.edu/photosynthesis/

Jan 11-16, 2004; March 14-19, 2004

Protein Purification: Isolation, Analysis, and Characterization of GFP

Cook College, Rutgers University
New Brunswick, NJ

Contact: William W. Ward

Tel: 732-932-9562 ext 216 or 212

E-mail: crebb@rci.rutgers.edu

Web site: www.rci.rutgers.edu/~meton/protein.html

Jan 24-29, 2004

Photonics West 2004

San Jose McEnery Convention Center
San Jose, CA

Contact: Marilyn Gorsuch

E-mail: meetinginfo@spie.org

Web site: www.spie.org/Conferences/Programs/04/pw/

February 14-18, 2004

Biophysical Society 48th Annual Meeting

Inner Harbor, Baltimore, MD

Contact: Kathy Gilsson

Tel: 301-530-7114

Fax: 301-530-7133

E-mail: society@biophysics.org

Web site: www.biophysics.org/annmtg/site-index.htm

March 16-18, 2004

AIBS Annual Meeting

Invasive Species: The Search for Solutions

Westin Grand Hotel

Washington DC

Contact: Sue Burk

Tel: 800-992-2427

Fax: 703-790-2672

E-mail: sburk@aibs.org

Web site: www.aibs.org/annual-meeting-2004/

March 26-27, 2004

ESF-LESC Exploratory Workshop.

Flavin-based Sensorial

Photoreceptors: From Bacteria to Plants

Centro Santa Elisabetta

University of Parma, Italy

Contact: Aba Losi

Tel: +39-0521-905293

Fax: +39-0521-905223

E-mail: losia@fis.unipr.it

Web site: www.fis.unipr.it/~losia/losiweb/Workshop.htm

June 10-15, 2004

14th International Congress on

Photobiology

International Convention Center

Jungmoon, Jeju (Cheju), Korea

Web site: www.icp2004.or.kr/home/

June 14-16, 2004

5th International Conference on

Photostability of Drugs and Drug Products

Royal Pharmaceutical Society of

Great Britain

Lambeth, London, U.K.

Contact: Heiko Spilgies

E-mail: spilgies@photostability.org

Web site: www.photostability.org/

July 10-14, 2004

32nd Annual Meeting of the

American Society for Photobiology

Westin Seattle, Seattle, WA

Contact: Henry Lim

E-mail: HLIM1@hfhs.org

July 24-28, 2004

Plant Biology 2004

ASPB's Annual Meeting

Disney Coronado Springs Resort &

Convention Center

Lake Buena Vista, FL

Contact: Susan Rosenberry

Tel: 301-251-0560 ext 111

E-mail: chambers@aspb.org

Web site: www.aspb.org/meetings/pb-2004/

July 29-Aug 2, 2004

4th International Congress of

Crassulacean Acid Metabolism

Granlibakken Resort

Tahoe City, CA

Contact: John Cushman

E-mail: jcushman@unr.edu

Web site: www.ag.unr.edu/cam/meetings.asp

August 2-6, 2004

13th International Symposium on

Bioluminescence and

Chemiluminescence

Conference Center of Pacific

Yokohama

Yokohama, Japan

Contact: Akio Tsuji

Tel: +81-3-3784-8194

Fax: +81-3-3784-8247

E-mail: BXP02045@nifty.ne.jp

Web site: www2.unibo.it/isbc/Files/BC_Symnf.htm

August 29-September 3, 2004

13th International Congress on

Photosynthesis

Montreal, Canada

E-mail: ps2004@uqtr.ca

Web site: www.uqtr.ca/ps2004/

2005

33rd Annual Meeting of the

American Society for Photobiology

Quebec City, Canada