

Message From the President-elect



As the summer draws to a close, I'd like to take this opportunity to congratulate **Henry Lim** for the outstanding job he did in organizing the 32nd Annual Meeting in Seattle. As a member of the Scientific Program Committee, I saw the hard work and dedication that Henry put forth to make sure the

meeting was a success. I'd also like to thank **Linda Hardwick** and her colleagues at Allen Press for all of the long hours they put in before and during the meeting. Their smiling faces were always there to help things flow smoothly.

Summer is always packed with a full slate of scientific conferences. We missed many of our photobiology friends in Seattle, as they had been in Korea at the 14th International Congress on Photobiology, held just a few weeks before the Seattle meeting. In Seattle, I had many discussions with Past-Presidents **Tom Moore** and **Henry Lim**, and our current President, **Frances Noonan**. Everyone agrees that the existence of many international Photobiology organizations represents a wonderful opportunity for our memberships to interact. I hope that we can work with our photobiology friends around the globe in planning the times and locations of our annual meetings.

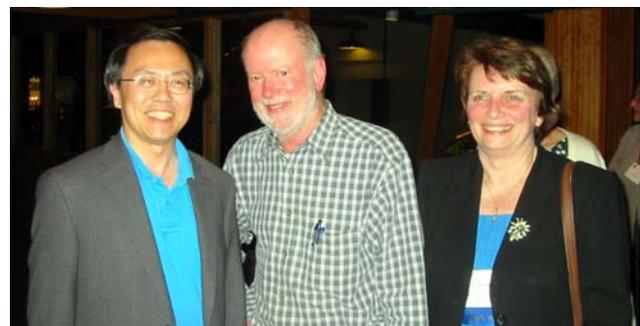
I'd like to welcome our newly appointed Associate Councilor, **Jennifer Dashnau**. Our commitment to Associate Members is strong and I'm pleased to have Jennifer on-board as a voice for our future leaders. You can find a list of our Associate Member travel awardees in this newsletter. Council strongly supports using funds to help our Associate Members travel to France to attend the ESP Meeting in 2005. There will be travel awards available, so I look forward to meeting our current and future Associate Members soon.

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Finally, I will be co-organizing the 2008 ASP Meeting. If anyone has any comments and suggestions about the Meeting format, I'd love to hear from you. See you all at the 2005 ESP Meeting in France and 2006 ASP Meeting in Puerto Rico!

Lisa Kelly
ASP President-elect



ASP Presidents at the 32nd ASP Meeting banquet in Seattle. From left to right: Henry Lim (Scientific Program Chair for the Seattle meeting), Tom Moore (past-President), and Frances Noonan (President).

ASP Award Winners



Jean Cadet, of CEA in Grenoble, France, was awarded the 2004 ASP Research Award in Seattle. His award lecture was entitled "DNA Photochemistry: From Model Compounds to the Cell."



Stacey Harmer (left), of the University of California, Davis, accepts the 2004 ASP New Investigator Award from Tom Vogelmann in Seattle. Her award lecture was entitled "Connecting the plant clock and its outputs."



Margaret Kripke (left), of the MD Anderson Cancer Center in Houston, accepts the 2004 ASP Lifetime Achievement Award from Henry Lim in Seattle.

Letter from the Editor

I made a trip to the bookshelf while preparing this issue of the newsletter. Several contributors wrote that the ASP was changing to *biannual* meetings. I thought the right word was *biennial* and was pretty sure of myself because my dissertation was on *Oenothera biennis* (evening primrose), which is a *biennial* plant, meaning that it lives for two years. But I just had to check a dictionary.

I was right. *Biannual* means twice per year and *biennial* means every other year. But one language maven suggests that we eschew *biannual* and use *semiannual* for twice per year. After all, *semiweekly* means twice per week and *semimonthly* means twice per month, while *bimonthly* means every other month and *biweekly* means every other week. Lest you think that all this is unimportant, consider this bit of history (which may be apocryphal) from *A Dictionary of Contemporary American Usage*. "The words [*biannual* and *biennial*] were confused in a revision of the constitution of the state of New Jersey with the result that the legislators ... found themselves bound to meet every six months instead of every twenty-four, as they had intended."

My dictionary search also reminded me that our journal is changing to *bimonthly* publication. *ASP News* will remain a *quarterly* publication and the web site will continue to be updated *fortnightly*, shorthand for *fourteen-nightly* and roughly equivalent to *semimonthly*.

If my wordplay has you confused, then you may agree with **Ambrose Bierce** who said that an editor "tolerates the virtues of others and the vices of himself". Just keep in mind that the ASP is moving toward meetings every other year and *Photochemistry and Photobiology* toward publication every other month.

ASP News

Published quarterly by the American Society for
Photobiology

www.photobiology.org

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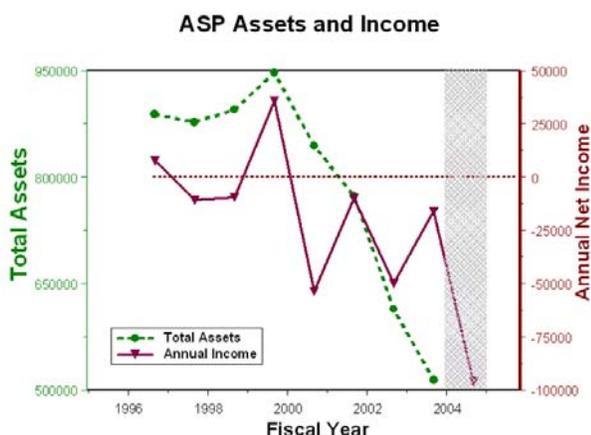
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A Sustainable ASP

At the close of our 2004 fiscal year on August 31, the ASP will have operated at a deficit in 7 of the last 9 fiscal years (1996-2004). Cumulatively, expenses will have exceeded operating income in the last 5 years by more than \$225,000. The current fiscal year is looking like it will be the worst on record, with a total deficit approaching \$100,000. These deficits are paid from our saved assets (see figure). These assets totaled \$947,000 as recently as August 1999. ASP's assets were \$514,000 as of August 2003.



The ASP today is in a financially precarious position. If recent operating deficits were to continue, our society would likely have to cease operations in 5 to 7 years. Functions and services that we now consider as infrastructure would have to be curtailed or eliminated well in advance of any final dissolution. The inevitable consequences of chronic deficit spending are as real as they are unacceptable. Understanding the trends that have put us in this position is a necessary first step in the development of a plan for recovery.

The primary “products” that ASP produces are Photochemistry and Photobiology, and our (now biennial) scientific meetings. Our Journal has always been profitable, generating more revenue than the costs of production. This revenue has declined in recent years however, as budgetary constraints faced by our institutional subscribers, as well as electronic publishing, have led to fewer subscriptions. Our scientific meetings have generally been planned as break-even, but revenue shortfalls - more so than cost overruns, have resulted in repeated meeting deficits. The combined effect of these external

economic forces has been a progressively worsening overall budget shortfall.

In recognition of the necessity to change the way we do business, your council has taken decisive action during the budget approval process to cut spending and explore new sources of revenue. With a view toward sustainable operations in the future, council endorsed the creation of the ASP Endowment Fund. Our invested capital could no longer be seen as a reserve source of funds to be tapped to cover the frequent and large budget shortfalls.

With respect to endowments, size does matter. As the cliché says, “it takes money to make money.” To assess the required amount of an endowment needed to provide a specified fraction of revenue, consider the following simple analysis: Historic returns for the U.S. equity markets have averaged 9% per year. The long-term average for inflation has been approximately 3% per year. If these trends were to continue, returns from equity investments could sustainably support, on average, a 6% growth rate for that fraction of our expenditures that was supported by this revenue source. In recent years, our annual operating expenditures have been approximately \$650,000, and our annual budget deficits have averaged nearly \$50,000, or about 8% of our expenditures. To sustainably support 10% of our operating expenses (as a goal), an endowment of approximately \$1M would be required.

The ASP Endowment was created by setting aside \$350,000 from our saved assets, and investing these funds in a diversified financial portfolio. The objectives of these investments include both capital appreciation and income generation. Since its inception in January 2004, the Endowment has paid \$2,097 into our operating fund. As core assets grow through capital appreciation and direct contributions, the cash distributions will become an increasingly important source of revenue for ASP. As reported at our business meeting in Seattle, our Endowment stood at \$382,464 as of June 30.

We are at the beginning of a challenging but necessary multi-year effort. Institutional subscriptions to our Journal, along with Society membership dues, will continue to provide the lion's share of our revenue in the immediate future. As with tree planting, the best time to start an endowment is 20 years ago. The second best time is now. As much to inform the membership of these financial issues, I wish to encourage contributions directly to the ASP

(Continued on page 4)

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Endowment. Your contributions will help secure our future by building a strong financial base. Our business website can process your donation electronically at <http://asp-donations.allenmm.com>. Contributions may be tax deductible.

John Streicher
ASP Treasurer

Changes for Associate Members



Jennifer Dashnau (left), Associate Member Representative, and Laura Lamb McGuckin (right), former Associate Member Representative.

Farewell Associate Members!

My term as Associate Member Representative came to an end with the close of the 32nd ASP Meeting in Seattle, so this is my last column in ASP News. It has been a pleasure to serve the associate members of the society for the past two years. Over this time, I participated in the many council meetings and tried to increase the involvement of associate members. The past year has brought many changes to the society and the future will bring many more. It is important that the Associate Member Representative acts as a voice for all the younger members of the ASP.

The meeting in Seattle was quite a success in many ways. The four dozen associate members who attended the meeting delivered interesting talks and presented excellent posters. At the Seattle business meeting, the associate members were well represented and those receiving travel awards were acknowledged. At that time the membership supported the Council's motion of biennial ASP meetings. The next meeting of the society will be in Puerto Rico in 2006 and should be quite exciting. The mentoring luncheon was well attended by senior researchers and associate members alike. At the mentoring luncheon, the associate members elected **Jennifer Dashnau** as the next Associate Member Representative. Jennifer will serve for the next two

years and I wish her the best of luck during her term. I leave you in her capable hands.

-Laura Lamb McGuckin

Greetings Associate Members!

I would like to extend many thanks to Laura for her outstanding service to the associate members of the ASP during her tenure. I hope that I can fill the position as well as she did.

As Laura mentioned, the next ASP meeting will be in Puerto Rico in 2006. With the move to biennial meetings, it will be more important than ever for associate members to take an active role in the Society outside of the meetings. Please let me know how I can promote further participation of associate members in the ASP.

Although the ASP will not meet next year, we should still remember that the European Society for Photobiology will meet in France in September, 2005. Associate members are encouraged to take this opportunity to attend this meeting. The Council has agreed to make student travel awards available for this meeting, so don't let the lack of funding be a deterrent.

With this said, I would like to send out a call to all associate members to send me their comments, ideas, and questions regarding the new meeting schedule. Please feel free to contact me by e-mail at jdashnau@mail.med.upenn.edu or by phone at 215-432-9964. I look forward to hearing from you!

-Jennifer L. Dashnau
Associate Member Representative



Recently Deceased

Fred Urbach, charter member of the ASP and former ASP President, recently passed away. A complete obituary will appear in the next issue of *ASP News*.

ASP Officers and Councilors

Title	Name (division)	Term	E-mail
President	Frances Noonan (4)	'04-'05	drmfpn@gwumc.edu
President-Elect	Lisa Kelly (1)	'04-'05	lkelly@umbc.edu
Past-President	Tom Moore (1)	'04-'05	tom.moore@asu.edu
Treasurer	John Striecher (1)	'04-'07	streicher.john@epa.gov
Secretary	Helene Hill (5)	'02-'05	hill@umdnj.edu
Councilor	Edward De Fabo (5)	'04-'07	drmece@gwumc.edu
Councilor	Donna Kusewitt (5)	'04-'07	kusewitt.1@osu.edu
Councilor	Janet Morgan (1)	'04-'07	janet.morgan@roswellpark.org
Councilor	Patrick Neale (3)	'04-'07	nealep@si.edu
Councilor	Rosalie Crouch (2)	'03-'06	crouchrk@musc.edu
Councilor	John Sutherland (1)	'03-'06	sutherlandj@mail.ecu.edu
Councilor	Steve Ullrich (4)	'03-'06	sullrich@mail.mdanderson.org
Councilor	Tom Vogelmann (3)	'03-'06	tvogelma@zoo.uvm.edu
Councilor	Dennis Valenzano (4)	'02-'05	dvalenze@kumc.edu
Councilor	David Sliney (5)	'02-'05	david.sliney@apg.amedd.army.mil
Councilor	Linda Chalker-Scott (5)	'02-'05	lindacs@wsu.edu
Councilor	Herbert Hoenigsmann (4)	'02-'05	herbert.hoenigsmann@akh-wien.ac.at
Assoc. Councilor	Jennifer Dashnau (1)	'04-'06	jdashnau@mail.med.upenn.edu
Historian	Irene Kochevar (1)	-	kochevar@helix.mgh.harvard.edu
<i>Photochem Photobiol</i> editor	John Simon (1)	'04-'09	jsimon@duke.edu
Newsletter editor, Web master	Peter A. Ensminger (2)	'04-'05	ensmingr@twcny.rr.com

ASP Homepage Usage Statistics

Visits to the ASP homepage, www.photobiology.org, are being monitored by bravenet.com. A "page view" (or "hit") is recorded every time there is a visit to the homepage. A "unique visit" is recorded every time a visitor has not viewed the homepage in the previous 24 hours. Visits by the webmaster (PAE) were excluded from all statistics. Further details are available at www.pol-us.net/ASP_Home/stats.html.

Counter Dates: May 31 - August 15, 2004 (76 days).

Total page views: 3,584 (avg of 47.2 per day)

- Avg of 59.8 on each weekday
- Avg of 16.1 on each weekend day

Total unique visits: 2,416 (avg of 31.8 per day)

- Avg of 40.3 on each weekday
- Avg of 10.9 on each weekend day

- PAE

ASP Meeting Travel Awards

The ASP would like to congratulate its associate members on their presentations at the 32nd ASP Meeting in Seattle. Although there is no ASP meeting in 2005, the Council will make student travel awards available for the ESP Meeting in Aix-les-Bains, France (September 3-8, 2005).

Name	Institution	Abstract
Stuart Bisland	Princess Margaret Hospital (Toronto, ON)	Photodynamic therapy for the treatment of metastatic lesions in bone: studies in rat and porcine models
Ivana Cecic	British Columbia Cancer Research Centre (Vancouver, BC)	PDT-induced tumor trauma significantly elevates serum levels of the acute phase reactant serum amyloid P-component (SAP) in mice
Heather Chandler	Ohio State University (Columbus, OH)	Ultraviolet radiation induction of MMP activity
Sergio Coelho	Center for Devices and Radiological Health (Rockville, MD)	The use of digital photography in clinical studies on interactions of hydroxyacid-containing cosmetics with UV exposure
William Cottrell	University of Rochester (Rochester, NY)	Compact system for simultaneous PDT delivery and dual spectroscopic monitoring
Naranbaatar Dashdorj	Purdue University (West Lafayette, IN)	Optical properties of the chlorophyll a molecule in the cytochrome b6f complex of oxygenic photosynthesis
Jennifer Dashnau	University of Pennsylvania (Philadelphia, PA)	Tryptophan fluorescence and phosphorescence of indole in model compounds and in proteins: comparison of glycerol and trehalose matrix
Tatiana Demidova	Wellman Center for Photomedicine (Boston, MA)	Strong microbe-photosensitizer binding leads to efficient Photoinactivation
Divya Errabelli	Wellman Center for Photomedicine (Boston, MA)	Intracellular trafficking of a photosensitizer immunoconjugate using quantum dots: a technique for selective photodynamic therapy
Qingfang He	University of Arkansas (Little Rock, AR)	Genetic analysis of high light responses in <i>Synechocystis</i> PCC6803
Edith Kabingu	Roswell Park Cancer Institute (Buffalo, NY)	CD8+ T cells play a key role in PDT mediated control of distant tumors
Mazdak Khajehpour	University of Pennsylvania (Philadelphia, PA)	Probing the active site of trypsin with rose bengal; insights regarding the photodynamic inactivation of the enzyme

Name	Institution	Abstract
Sachiko Kosaka	Wellman Center for Photomedicine (Boston, MA)	Targeting sebocytes by aminolevulinic acid-dependent photosensitization
Philaretos Kousis	PDT Center (Buffalo, NY)	Effects of fluence on the adaptive immune system
David F Lee	McMaster University (Hamilton, ON)	The role of the human mismatch repair genes <i>hMSH2</i> and <i>hMLH1</i> in the repair of oxidative DNA damage induced by UVA
Larisa Mikelsons	University of Ottawa (Ottawa, ON)	Intercalation of dyes into single- and double-stranded DNA: the effect of sample history
Beronda Montgomery	Indiana University (Bloomington, IN)	Biliprotein photoreceptor interactions in <i>fre-myella diplosiphon</i>
Katsunori Ogoh	National Institute of Advanced Industrial Science and Technology (Ikeda, Osaka, Japan)	Complete mitochondrial DNA sequence of the sea-firefly, <i>Vargula hilgendorfi</i> (Crustacea, Ostracoda) with duplicate control regions
Shannon Reagan-Shaw	University of Wisconsin (Madison, WI)	Enhancement of ultraviolet B radiation-mediated apoptosis by sanguinarine in human HaCaT immortalized keratinocytes
Nicolas Solban	Wellman Center for Photomedicine (Boston, MA)	Molecular responses of prostate cancer to photodynamic therapy and <i>in vivo</i> imaging of circulating prostate cancer cells
Brandon Stott	British Columbia Cancer Agency (Vancouver, BC)	Localized complement gene expression in tumours treated by photodynamic therapy
Nathaniel Sznycer-Taub	Wellman Laboratories of Photomedicine (Boston, MA)	The effect of photosensitizer localization on local control and distant metastasis in an orthotopic model for prostate cancer
Agnieszka Wolnicka-Glubisz	George Washington University Medical Center (Washington, DC)	Infiltration of granulocytes and macrophages in UV irradiated neonatal and adult mouse skin
Christine Yow	Hong Kong Polytechnic University (Hong Kong, China)	Early inactivation of apoptosis in nasopharyngeal carcinoma with motexafin lutetium (MLu) mediated PDT
Guoqiang Yu	University of Pennsylvania (Philadelphia, PA)	Prediction of treatment efficacy by hemodynamic responses to PDT in RIF tumors
Hongtao Yu	University of Mississippi (Jackson, MS)	Phototoxicity of polychlorobiphenyls (PCBs), a class of environmental pollutants

Peter Quail Elected to NAS



On April 20, 2004, **Peter Quail** was one of 72 new scientists elected to the National Academy of Sciences. Quail is the 1988 ASP Research Award winner and is currently professor at the University of California, Berkeley and the USDA Plant Gene Expression Center in Albany, CA. His research for the past 30 years has focussed

on the phytochromes, an important family of photoreceptors that regulate plant growth and development. He has authored more than 200 scientific articles and is an active member of the American Society for Plant Biology.

In its election of Peter Quail, the NAS said “Quail has made far-reaching contributions to plant biology through his pioneering work on phytochromes. His elucidation of the properties and discovery of the different forms of the protein, the factors regulating its synthesis, and the spectrum of genes it targets have led the field in new directions.”

Quail said that he was, "thrilled and honored to be elected to the National Academy of Sciences. There is no greater honor than to be recognized by one's peers. I feel truly fortunate to have had such wonderfully talented students, postdocs and associates over the years who have contributed to the research that has made this possible. I am enormously proud of their achievements and wish to share this recognition with them.”

-PAE

Sponsors and Exhibitors at 32nd ASP Meeting

The ASP would like to thank all the sponsors and exhibitors for their support of the 32nd ASP meeting in Seattle. We look forward to continued support in the coming years.



Sponsors

Platinum

UV Foundation

www.indoor-tanning.org/

Gold

AGI Dermatics

www.agiderm.com/

Bioglan Pharmaceuticals

www.bioglan.com/

Charles River Laboratories

www.criver.com/

Ciba Specialty Chemicals

www.cibasc.com/

Office of the Naval Research

www.onr.navy.mil/

Silver

Fujisawa Healthcare

www.fujisawa.com

Galderma

www.galderma.com/

Medicis

www.medicis.com/

Bronze

Beltsville Area Directors

www.ba.ars.usda.gov/

Johnson & Johnson

www.jnj.com/

Pfizer

www.pfizer.com/

General

American Chemical Society

www.chemistry.org/

Bruker BioSpin

www.bruker-biospin.com/

Coty Lancaster R&D

www.coty.com/

Molecular Imaging

www.molec.com/

NCR

www.ncr.com/

Procter & Gamble

www.pg.com/

Spectra Physics

www.spectra-physics.com/

University of Maryland

www.umd.edu

Exhibitors

Berthold Detection Systems

www.berthold-ds.com/

Dr. H.S. Nalwa

www.aspbs.com/html/a8888pap.htm

Boston Electronics

www.boselec.com/

Edinburgh Instruments

www.edinst.com/

Laurin Publishing

www.photonics.com/

LumaCare

www.lumacare.com/

Luzchem

www.luzchem.com/

Quantum UVR

www.quantumuvr.com/

Royal Society of Chemistry

www.rsc.org/

Upcoming Events

August 29-September 3, 2004

13th International Congress on Photosynthesis

Montreal, Canada

E-mail: ps2004@uqtr.ca

Web site: www.uqtr.ca/ps2004/

September 12-15, 2004

4th International Conference on Photochromism

Arcachon, France

Contact: Jean-Pierre Desvergne, Jean-Luc Pozzo

Fax: +33 (0) 5 40 00 69 94

E-mail: isop04@lcoo.u-bordeaux1.fr

Web site: isop04.gelator.com/

September 29-October 9, 2004

Biophotonics: From Fundamental Principles to Health, Environment, Security and Defence Applications

Crowne Plaza Hotel

Ottawa, Canada

Contact: Stoyan Tanev

Tel: 613-746-3595 ext 228

Email: stoyan.tanev@vitesse.ca

Web site: www.vitesse.ca

September 29 - October 2, 2004

CIE Expert Symposium on Light and Health, the non-visual effects

Tutorial: Light Measurement for Photobiology

CIE Central Bureau

Kegelgasse 27

A-1030 Vienna, Austria

E-mail: ciecb@ping.at

Web site: www.cie.co.at/framesymposia.html

October 10-14, 2004

Annual Meeting of the Optical Society of America

Rochester Convention Center

Rochester, New York

Web site: www.osa.org/meetings/annual/

October 25-28, 2004

SPIE International Symposium - Optics East 2004

Philadelphia, PA

Contact: SPIE

PO Box 10

Bellingham, WA 98227-0010 US

Tel: (360) 676-3290

Fax: (360) 647-1445

E-mail: spie@spie.org

Web site: spie.org/app/conferences/index.cfm

October 28-30, 2004

Laser Florence 2004

Florence, Italy

Web site: www.laserflorence.org

November 1-5, 2004

Principles and Application of Time-Resolved Fluorescence Spectroscopy

Berlin, Germany

Contact: PicoQuant GmbH

Rudower Chaussee No. 29

Berlin, Germany

Tel: 49 30 6392 6560

Fax: 49 30 6392 6561

E-mail: trfcourse@pq.fta-berlin.de

Web site: www.picoquant.com/trfcourse.htm

November 8-11, 2004

8th Latin-American Encounter in Photochemistry and Photobiology

(ELAFOT)

La Plata City, Argentina

Web site: www.viii-elafot.netfirms.com/principal.htm

November 26-27, 2004

Congreso Latinoamericano Fotomedicina y Fotobiología

Cuenca, Ecuador

Web site: dermatologiaecuatoriana.com/eventosnacionales.html

January 9-14, 2005; March 13-18, 2005

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

February 20-26, 2005

8th International Conference on Solar Energy and Applied Photochemistry

Ain Shams University

Photoenergy Center

Upper Egypt [Luxor/Aswan]

E-mail: Solar05@photoenergy.org

Fax: +202 634 7683 or + 202 484

5941

Web site: www.photoenergy.org

June 13-16, 2005

European Conference on Biomedical Optics

Neue Messe

Munich, Germany

Web site: www.osa.org/meetings/topicals/ecbo/

July 8-11, 2005

Summer Meeting of the Society of Free Radical Research (Europe)

De Vere Belfry Hotel

Leicester, England, UK

Contact: Joseph Lunec, Chief Organizer

E-mail: jl20@leicester.ac.uk

Web site: www.sfrir-europe.org/

July 16-20, 2005

Plant Biology 2005

ASPB's Annual Meeting

Washington State Convention & Trade Center

Seattle, Washington

Web site: www.aspb.org/meetings/pb-2005/index.cfm

August 27 - September 1, 2005

2005 IUPB and EBSA Joint Meeting

Montpellier, France

Web site: www.iupab.org/

September 3-8, 2005

11th European Society for Photobiology Congress

Aix-les-Bains, France

July, 2006

33rd ASP Meeting

Puerto Rico

