Message from President-Elect
A Modest Proposal from David Mitchell

Although 2009 has been named the Year of the Ox in China, the U.S. has chosen to name it both The Year of Darwin and The Year of Astronomy. How convenient. Darwin dragged us kicking and screaming through evolution and astronomers are dragging us kicking and screaming through space-time. It is estimated that there as many as 500 billion galaxies in our universe and 200-400 billion stars in each galaxy. Do the math. That’s about $2 \times 10^{14}$ stars in our universe. Notions about possible multiverses suggest that we are but one of many universes in the infinite continuum of existence, arising from the accidental brushing of parallel branes that generate “Big Bangs” of incredible dimensional diversity.

In light of the enormity of the possibilities, it is my personal opinion that there are many other photobiological societies scattered throughout the cosmos. Isn’t it sad that we can’t all get together and form an Infinite or Existential Society for Photobiology? Unfortunately, this is probably not going to happen … at least in my lifetime.

The ASP originally formed as an amalgam of several regional photobiology societies, including the Northern California Photobiology and Photochemistry Group, the Northeast Photobiology Group, the South Central Photobiology Group and the Photochemistry Photobiology Group of the Biophysical Society. In 1972, a U.S. National Committee for Photobiology was formed and from these rudimentary beginnings, what we now know as the ASP was conceived and formed, thanks to the foresight and tenacity a few good men (see Photochem. Photobiol. 35, 597-614, 1981).

The ASP has been a vital and essential conduit of the photochemical and photobiological sciences in the U.S. for the past 37 years. Unfortunately, in 2009 the ASP, like the rest of world, is facing an uncertain future. Membership is at its lowest level in decades and in danger of falling below a critical mass. Meetings have been reduced to once every two years and we still have difficulty maintaining attendance.
The reasons for these problems are complex and include a withering scientific economy over the past several years, and the fact that photobiology is a multidisciplinary science, somewhat like a herd of sheep that’s a bit difficult to keep together at times.

There are currently a number of photobiology groups around the globe. A recent check on the Internet brought up more than a dozen, including the International Union for Photobiology, the American Society for Photobiology, the European Society for Photobiology, the European Photochemistry Association, the British Photobiology Society, the Italian Society for Photobiology, the Norwegian Society for Photobiology, the Polish Society of Photobiologists, the Russian Society for Photobiology, the Japanese Society for Photobiology and Photomedicine, the Korean Society of Photosciences, the Indian Photobiology Society, the Inter-American Photochemical Society, the Asian and Oceanic Society for Photobiology, and the International Photodynamic Association. I am sure I have missed a few. The number of U.S. photobiology groups brought together in 1972 pales by comparison.

Perhaps it is time to consider defragmenting our global photobiology hard drive. On a computer you simply go to “Administrative Tools” and activate the defragmentation program. The next day your computer is running faster and more efficiently. Defragmenting photobiology would, of course, not be this simple and would take considerable time and effort. But would it not be a worthy goal for all of the photobiologists around the world to unite under a unique and contiguous International Society for Photobiology? Photobiology could become a global entity, a union of societies that could thrive in a competitive environment, perhaps even in a virtual environment. It can be argued that we are a single species (*Homo photobiologeae*) consisting of a large number of geographically distinct variants, some more isolated than others. Perhaps it is time to completely eliminate the barriers between these groups create strength in numbers, and exploit our unique traits to provide a selective advantage in the adverse and unpredictable cultural and economic conditions we are facing. Perhaps as a start, a website could be created at which the ideas, concerns and interactions of the different photobiology groups and individual photobiologists could be discussed. I would like to think this is a possibility.

-David Mitchell

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**Letter from the Editor**

**New Editor for Photochem Photobiol**

On Jan 1, 2009, Jean Cadet assumed the role of Editor-in-Chief of our journal, *Photochemistry and Photobiology*. He looks forward to receiving your publications on photochemistry and photobiology. Below, I enclose a message from Dr. Cadet.

I would like to remind all ASP members that the editorial office of *Photochemistry and Photobiology* was transferred on January 1, 2009 to CEA/Grenoble, a research institute belonging to the French Atomic Energy Commission that is located in the heart of the French Alps.

During the transition, Jean Cadet, Editor-in-Chief and Eva Övervik-Douki, Managing Editor, have benefited from the invaluable help of the staff of John Simon at Duke University and the Wiley-Blackwell office.

We welcome contributions on various aspects of photochemistry and photobiology that may consist of research articles and technical notes. In addition, symposia-in-print, invited reviews, and perspective articles will be part of the publications.

**Manuscript Submission Web Site**

mc.manuscriptcentral.com/php

**Editorial Office**

*Photochemistry and Photobiology*

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*If the misery of the poor be caused not by the laws of nature, but by our institutions, great is our sin.* -Charles Darwin
Atmospheric Optics

Heiligenschein

On a morning when shadows are long and the grass is wet with dew, look at the shadow of your head. With luck, it will be enveloped by a sparkling white glow. This is the 'heiligenschein' or 'holy light'. The glow is centered on the antisolar point and so, like the glory effect, each has its own. When I moved the camera from my eye out to arms length, its heiligenschein moved with it. The glory effect and the shadow opposition effect also produce glows around the antisolar point. -Les Cowley (www.atoptics.co.uk)

Hey Doc! Does Speling Count?

William Ward, ASP Councilor and long-time member of the ASP, has recently published his book, Hey Doc! Does Speling Count? You can order the book directly from CCB Publishing (www.ccbpublishing.com/wwwward.html) or from your favorite online retailer.

Honor for Dan Yarosh

Dan Yarosh, former ASP Treasurer, and currently President of AGI Dermatics and Senior Vice President for Basic Science Research at Estee Lauder Companies, will be honored by the American Cancer Society at the 2009 Gala of Hope. Congratulations Dan!

Protecting Workers from UV

New ICNIRP Publication

The International Commission on Non-Ionizing Radiation Protection (ICNIRP) has recently released a new book, Protecting Workers from UV Radiation. This book can be purchased as a hard copy (for 40 Euros) and is also available for free download as a PDF file from www.icnirp.net/30.htm. The book is a comprehensive source that can be used to protect workers from exposure to ultraviolet radiation. The book reviews the adverse health effects of acute and chronic exposure to ultraviolet radiation and emphasizes topics relevant to outdoor workers.

From the book jacket …

Hey Doc Does Speling Count? is a humorous satire about the many failings of state universities in America. This book is for people, who, like Professor Ward, enjoy laughing--those willing to poke fun at human behavior and traditional institutions. In particular, it is for those whose lives intersect American education. They wonder what's going on and why.

Hey, Doc! Does Speling Count? is for teachers, professors, education administrators, college graduates, business leaders, legislators, working professionals, serious college students, and self-sacrificing parents, whose monthly checks wind up paying for three-day weekend college football bashes. And, it is for Professor Ward's barber,
who wonders why his college-educated patrons have nothing more important on their minds than last weekend's football scores.

As a university professor of thirty-one years, Dr. Ward has observed just about everything happening on campus, some of which is truly shocking. An idealistic reformer, he wanted to write a factual expose about university mismanagement. But, fearing the massive retaliation that "tell-all" authors attract, he shied away. Instead, he resorted to crafting his 5000 protest letters about university mismanagement with humor, satire, irony, and sarcasm. These letters became the genesis of this book.

*Hey, Doc! Does Speling Count?* provides a fresh look at the college scene, ridiculing students, professors, administrators, and union leaders, while lampooning much of what happens on the "State U." campus. When you are not laughing out loud with Professor Ward's special brand of humor, you will be shocked and dismayed to read his revelations of widespread university mismanagement.

### ASP Homepage Usage Stats

**Dates:** Nov 24, 2008-March 23, 2009 (119 days)

**Total Views:** 5854 (49.2 per day)

**Total Unique Visits:** 3188 (26.8 per day)

**Recent visitors to the ASP homepage,**

[link](http://www.photobiology.org), recorded at 12:18 PM EST, March 21, 2009. (Red: most recent visitor; Green: most recent 10 visitors; White: most recent 100 visitors.)

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### Candidates for President and Council

The ASP Business Office will soon send e-mail ballots for our upcoming election for President and Councilors. Below, we provide candidate statements.

Please support the ASP by voting!

| Candidates for President | Elizabeth Gaillard, Tayyaba Hasan |

#### Elizabeth Gaillard

Dept of Chemistry and Biochemistry
Northern Illinois University
DeKalb, IL

**Education:** B.S., 1984, The Florida State University; Ph.D., 1990, The University of Texas at Austin; Post-Doctoral Fellow, 1991-1993, Center for Fast Kinetics Research, University of Texas at Austin; Post-Doctoral Fellow, 1994-1996, Center for Photoinduced Charge Transfer, University of Rochester, NY.

I am currently an Associate Professor in Chemistry and Biochemistry with a joint appointment in Biological Sciences at Northern Illinois University. I am also an Adjunct Professor of Ophthalmic Biochemistry at Columbia University (NY). I manage an active research program with 2 PhD candidates, 3 MS candidates and 2 undergraduate research students working with me. Our interests are in all aspects of photochemistry and photobiology of the eye, particularly as these relate to human disease, and in spectroscopic methods applied to ocular imaging. I was elected to the ASP Council in 2006 and have served as both chair of the Mentorship Committee and the Membership Committee.

I joined ASP when I was a graduate student at University of Texas at Austin. The first ASP meeting that I attended was in San Antonio in 1991. A group of us from the UT Austin piled in a car and took a road trip to the meeting. I remember how the atmosphere at the meeting seemed charged with excitement and the facilities seemed to be overflowing with young scientists actively discussing their research interests. I also remember being impressed with the very broad range of research interests that were represented at the meeting. This has always been a strength of ASP, that it brings together a diverse range of interests in one
“big tent”. The ASP has also always seemed to encourage active participation of students, post-docs and junior faculty. I helped to organize several events with the associate members at the Burlingame CA meeting (2008). We are fortunate to have a good sized population of younger members who are enthusiastic about the photobiological sciences and eager to participate in the community. ASP needs to continue to encourage the junior members of the society to stay connected and take active roles in the society. In difficult economic times like we are experiencing, people feel the need to trim down on their travel plans and expenditures. We need to continue to keep ASP membership and meetings cost-effective so that people don’t have to choose between ASP and another, perhaps more focused, society.

I am also on the Board of Directors for the Inter-American Photochemical Society and was co-organizer/co-chair with Lisa Kelly for the first joint ASP-Radiation Research Society (RRS) symposium at the RRS Boston meeting in Sept. 2008. I mention this because I would like to see a federation of societies develop; similar to the model of FEBS, where the societies were loosely connected by an interest in the interaction of electromagnetic radiation and life (ASP, IAPS and RRS could be the founding societies). This would allow us to have strength in numbers and share our resources.

**Tayyaba Hasan**

I am a Professor of Dermatology at Harvard Medical School in the Wellman Center for Photomedicine at Massachusetts General Hospital (MGH), an affiliate faculty at the Harvard-MIT HST program, and the Director of the Office for Research Career Development (ORCD) at MGH.

I have an active research program in photobiology and photodynamic therapy with publications and patents in the field. I am also the Program Director for a National Cancer Institute funded multi-site Program Project Grant, with other research funding from the National Institutes of Health, the Department of Defense, and the Gates Foundation. Additionally, I have had experience of serving on various review boards nationally and internationally, including the NIH, and on committees within Harvard Medical School and MIT including chairing the Joint Committee on the Status of Women. I also have a long standing interest in mentoring as is evidenced by the addition of the responsibility of ORCD Director to my portfolio. This position involves career advice to faculty and postdocs. In addition, the office develops policies and professional development programs for research and career development of the hospital-based scientists.

My major goal as an ASP president would be to increase the recruitment of junior scientists to the society and provide mentoring and career development advice to these scientists. This recruitment would involve an extensive outreach effort to relevant departments and by active collaborations with membership of other societies such as SPIE, European Society of Photobiology, Radiation Research Society, American Association of Cancer Research, and Optical Society of America. We would not only hold collaborative joint sessions within these meetings, but where possible, will also invite scientists from these societies to participate in ASP activities. A critical requirement would be to try to set dates for ASP meetings in coordination with some of the similar groups to minimize the division of attendees. I would also like to activate the mid-senior level membership into more lively participation on committees’ assigned specific tasks and to help add to the vision of American Society of Photobiology. Additionally, I would attempt to re-activate the interest of industrial investigators to contribute to the society in different ways including participation in programs and meetings.

**Candidates for Councilor:** Giorgio Delrosso, David Kessel, Chikako Nishigori, Tadeusz J. Sarna, Georg Wondrak, Antony Young

**Giorgio Delrosso**

- Degree in Medicine and Surgery obtained December 21, 1983 at the University of Tourin, with the thesis “Capillaroscopy in Dermatology”.
- Became Specialist in Dermatology and Venereology in 1988.
- **1990:** Medical Assistant at...
the Dermatologic Division of Sant’ Andrea Hospital in Vercelli and, from 1993, as First Assistant at the same Hospital.

2000: Medical Manager, Dermatologic Clinic of the University of Piemonte Orientale “A. Avogadro”-“Maggiore della Carità” Hospital- Novara.

TEACHING ACTIVITIES

From 2000: Teacher of Capillaroscopy and Skin Circulation Phisiology at the Trainee School in Dermatology and Venereology University of Piemonte Orientale “A. Avogadro”- Novara- Italy;

From 2006: Teacher of Photobiology and Phototherapy at the Trainee School in Dermatology and Venereology University of Piemonte Orientale “A. Avogadro”- Novara- Italy.

FIELDS OF INTERESTS
• Dermatologic Surgery, Phototeraphy , Histopathology, Capillaroscopy, Photodinamic Therapy.

• He was the author of scientific publications, oral communication and lectures about these topics at National Congresses.

FIELDS OF RESEARCH
• He is interesting in clinical application of UVA and UVB-narrow band therapy, combi UVA/UVB therapy, bath PUVA therapy, gel PUVA therapy in a great variety of diseases including: fungal mycosis, parapsoriasis, psoriasis, vitiligo, atopic dermatitis, solar urticaria, actinic reticuloid, lipidic necrobiosis, mastocytosis, localized scleroderma.

ASSOCIATIONS
• Ordinary Member of the Association of Italian Hospital Dermatologists
• Ordinary Member of Italian Oncological and Surgical Dermatology
• Ordinary Member of SIDEMAST (Italian Society of Medical, Surgical, Aesthetetic Dermatology)
• Ordinary Member of the American Society of Photobiology (ASP)

SCIENTIFIC PUBLICATIONS
He is the author of about 156 scientific publications in the national and international press, his recent article about the use of bath-PUVA at low-dose regimens for treating psoriasis was published on “Dermatology”, rousing the interest of many photobiologists.

David Kessel


Appointments: Associate Prof. Univ of Rochester (1968-73); Prof. Pharmacology & Medicine, Wayne State University (1974 -).

Some recent awards:
Lifetime achievement award from International Society for Porphyrins and Phthalocyanines (Moscow, 2008); Distinguished Graduate Faculty Award (Wayne State University, 2000); President, Academy of Scholars, WSU (2009-2011). President, Faculty Senate (2001-2003).


Other service: Chair of Photodynamic Therapy session for annual SPIE meeting (2003 - ); President International Photodynamic Assn (2009-2011). Periodic appearance at study sections for NIH, American Cancer Society, Veterans’ Administration.

Research interests: Research supported by NIH since 1959 initially involving drug development but since 1980 concentrating on photodynamic processes.

Candidate’s Statement: ASP has always been my favorite society ever since John Jagger agreed to let me organize a symposium in 1982 although I was not yet a member. To keep ASP viable it must remain financially sound and scientifically interesting. Moving the meeting site to locations where people are likely to want to go would be an appealing idea. It is worthwhile recalling statements made by Kendric Smith at the 25th anniversary of ASP: [1] don’t expect a lot of help running ASP, and [2] if you organize a good meeting, people will come. My intent is to assist with [1] and promote [2] by minimizing meetings in tropical sites in summer and at airport hotels.
Chikako Nishigori

Current Affiliation and Position:
Professor and Chairman, Division of Dermatology, Dept of Internal Related, Kobe University Graduate School of Medicine
7-5-1, Kusunoki-cho, Chuo-ku, Kobe, 650-0017, JAPAN
Tel : +81-(0)78-382-6131, Fax : +81-(0)78-382-6149

Education:
1949-1980: Kobe University, School of Medicine
1983-1987: Kyoto University graduate school of Medicine, Department of Dermatology

Professional experience:
1980: Kyoto University Hospital: Resident in Dermatology
1981-1982: Osaka Red Cross Hospital Dermatologist
1987-1988: Department of Experimental Radiology Kyoto University; Instructor
1988-1997 & 1995-1999: Department of Dermatology, Kyoto University, Instructor
1994-1995: Department of immunology MD Anderson Cancer Center : Postdoctoral fellow
1999-2002: Department of Dermatology, Graduate School of Medicine, Kyoto University : Assistant Professor
2002-2003: Department of Dermatology, Graduate School of Medicine, Kyoto Univ.: Prof. and Chairman
2003 - present: Division of Dermatology, Graduate School of Medicine, Kobe Univ.; Prof & Chairman

Professional Specialty:
Dermatology and Photobiology

Memberships:
• The Japanese association of Dermatology: Council
• The Japanese Society for investigative dermatology : Council
• The Japanese Society for photomedicine and photobiology: Council
• The Japanese Society for pigment cell research: Council
• The Japanese Society for skin cancer : council
• The Japanese Cancer Association
• American Society for Photobiology

Academic and professional Degrees:
June 1980: National Examination for medical practioneers Licence #253809

December 1985 : Specialist in Dermatology (#3221) Board certification by the Japanese Dermatological Association

Tadeusz J. Sarna

Education:
• Moscow State University, Moscow, USSR – M.S., 1968, Physics
• Jagiellonian University, Krakow, Poland – Ph.D., 1972, Biophysics
• Jagiellonian University, Krakow, Poland – D.Sc., 1980, Biophysics

Experience and Professional Memberships:
1982-present: Member, American Society for Photobiology
1985-present: Founding Member, European Society for Pigment Cell Research
1986-present: Founding Member, European Society for Photobiology
1990-present: Founding Member, International EPR/ESR Society
1992-present: Member, Association for Research in Vision and Ophthalmology
1995-1999: Associate Editor for Europe, Pigment Cell Research
1997-1999: Member, Jagiellonian University Senate
1999-2002: Member, Advisory Board, Photochemistry and Photobiology
2004-present: Member, Society for Free Radical Research

Research Interests :
• Molecular and Cellular Mechanisms of Retinal Phototoxicity - Most recent research is focused on testing our hypothesis that the risk of oxidative stress in the outer retinal is enhanced by age-related changes
of the RPE melanosomes, which, under certain conditions, may lose their normal antioxidant action and even become prooxidant.

• Biophysical Properties of Melanin Pigments - To elucidate the mechanism of photoprotective action of retinal and skin melanin, antioxidant properties of natural and synthetic melains are studied both in model systems and in pigment cells in vitro. This study is being carried out in collaboration with Medical College of Wisconsin, Duke University and Cardiff University.

• Mechanisms of Undesirable Photodynamic Phenomena and Possible Strategies to Reduce Their Biological Impact - Biological effects of photosensitized oxidation reactions are studied in, in vitro, in the absence and presence of antioxidants and pro-oxidizing agents. To determine the role of singlet oxygen and free radicals in photodynamic damage, cholesterol (either endogenous or exogenous) is used as a mechanistic reporter molecule.

• Photophysical and Photochemical Properties of New Generation Photosensitizers for Photodynamic Therapy of Cancer and Age-related Macular Degeneration - Photodynamic therapy (PDT) is a relatively new treatment modality for cancer and some other diseases with visible or near-infrared light, photosensitizers and molecular oxygen. PDT is based on photoactivation of appropriate dye molecules, accumulated in pathological tissues, which via interaction with oxygen and different substrate molecules, generate singlet oxygen and free radicals.

Georg Wondrak

He obtained an MS in Biochemistry from the Swiss Federal Institute of Technology, Zurich, Switzerland, and a PhD in Biotechnology from the Technical University, Berlin, Germany. Since 2005, he has been an Assistant Professor of Pharmacology and Toxicology at the College of Pharmacy and Arizona Cancer Center, University of Arizona.

The omnipresence of solar UV photons in beautiful Tucson, AZ fuels Dr. Wondrak’s passion for research on molecular mechanisms of skin photodamage. His current research interests include molecular mechanisms of skin photooxidative stress with a focus on endogenous skin chromophores as potent UVA-photosensitizers. His laboratory is also involved in the development of small molecule non-sunscreen agents for skin photo-chemoprevention and the molecular design of redox chemotherapeutics targeting metastatic melanoma.

As an associate member of the Southwest Environmental Health Sciences Center he is involved in community outreach and public education on sun protection and outdoor lifestyle. He was the recipient of the Syndey E. Salmon Distinguished Junior Investigator award in 2008. In the same year, Dr. Wondrak has served as a cochair for a session on photooxidation in proteins held during the ASP meeting in Burlingame, CA. He hopes to contribute to the growth and future success of ASP.

Antony R Young

Antony R Young is Professor of Experimental Photobiology at St John’s Institute of Dermatology, Division of Genetics and Molecular Medicine, King’s College School of Medicine, King’s College London (KCL), London, UK. His BSc was in natural history, followed by an MSc in radiation biology and a PhD in psoralen photosensitization.

In recent years, Professor Young’s work has focussed on the assessment of risk factors for skin cancer, such as skin type (e.g. Celtic versus Mediterranean) dependent differences in natural photoprotection, epidermal DNA repair capacity, susceptibility to immunosuppression by UVR, and also photoageing. He is also interested in strategies for acute and long-term protection by sunscreens against the harmful effects of UVR, including immunoprotection and skin cancer. He was recently successful in a 3-year European Commission (EC) multi-national research bid to assess the impact of climate and environmental factors on personal UVR exposure and human health. Professor Young has been a Councilor (1993 -1996) and Secretary (1996 – 2000) of the American Society for Photobiology (ASP), and is a regular faculty member of the ASP Executive Committee.
member at the American Academy of Dermatology (AAD). He is chairman of the British Photodermatology Group (BPG). He has also served on three working groups of the International Agency for Research on Cancer (IARC) and was the rapporteur for the recent EC Committee on Consumer Products (SCCP) that assessed tanning devices. He served as an associate editor for Photochemistry and Photobiology from 2002-2008. He is currently photobiology section editor for the Journal of Dermatological Sciences. Professor Young is a regular delegate at the meetings of the Latin American Society for Photobiology and Photomedicine. If elected, he would like to foster closer relations between photobiology in North and South America.

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**To suppose that the eye with all its inimitable contrivances for adjusting the focus to different distances, for admitting different amounts of light, and for the correction of spherical and chromatic aberration, could have been formed by natural selection, seems, I freely confess, absurd in the highest degree.** - Charles Darwin

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**American Society for Photobiology**

**Topical Symposium on the Photobiology of Human Circadian, Neuroendocrine and Neurobehavioral Effects**

**Date:** July 9-10, 2009  
**Time:** 8:00am—5:00pm  
Jefferson University  
Hamilton Room 505  
Philadelphia, PA

**Day One: Architect Workshop—July 9, 2009**

- Introduction to New Discoveries relating to Melanopsin  
- Light Effects on Humans  
- Daylighting and Schools

**Day Two: Science Symposium—July 10, 2009**

- Historical overview of Circadian Photoreception  
- Discovery of Melanopsin  
- Circadian Photoreception and Sleep  
- Circadian Photoreception and ocular health in animals

**Speakers Include:**

- George Brainard, Thomas Jefferson University  
- Steven Lockley, Harvard Medical School  
- Samer Hattar, Johns Hopkins University  
- Gianluca Tosini, Morehouse School of Medicine  
- David Sliney, Consulting Medical Physicist  
- Marilyn Anderson, MIT

< Save the Date!  
Further Details coming soon!  
www.photobiology.org  
Email: lhardwick@allenpress.com
American Society for Photobiology
2009 Symposium

The Science Behind LLLT—from Molecular Biology to Cell and Tissue Level—What are the Mechanisms of Action?

Program Committee: Raymond J. Lanzafame, MD MBA FACS, Juanita Anders, Michael Hamblin, David Sliney, Margaret Wong-Riley, James Zavislan

Date: August 7-8, 2009
Time: 8:00am—5:00pm
University of Rochester - Room: Goergen 101
Rochester, New York

Day One:

Introduction
- Basics of Photobiology
- Dosimetric quantities and concepts
- The natural environment
  - Target Molecules
- The initiation Process—in vitro studies
  - Animal Studies

Day Two:

- Phototherapy—Clinical Studies
- Retinal tissues
- Skin
- Pain
- Wound Healing
  - Panel Discussion on the needs for Further research

Further details coming soon
www.photobiology.org
Email: lhardwick@allenpress.com

Date: October 16, 2009
Time: 8:00AM—5:30PM

Crowne Plaza Hotel
Room: Remington III
3 Research Court
Rockville, MD

Tentative Schedule:

Part I. Background/overview
Relevance/rationale
- Internal light applications in therapeutic and diagnostic medicine
- Medical devices
- FDA concerns—risk assessment

Tissue optics
- Optical properties of tissues (epidermis vs internal epithelial tissues)
- Action spectra: Wavelength vs chemical/biological endpoints from UVC to IR

Part II. Models
- Skin: The most studied tissue with respect to light exposure
  - Respiratory epithelium
  - Hamster pouch

Part III. Future directions and concerns
- Experimental biology: applications (RPT, laser therapy, etc.)
- Risk assessment
- Photosensitizers

Program Committee:
Donald Forbes, Nikitaros Kellios, Sharon Miller, David Mitchell, David Sliney

Further Details Coming Soon
www.photobiology.org
Photobiology Events

Map/Timeline: www.pol-us.net/meetings.html

June 11-15, 2009
2009 International Photodynamic Association World Congress
Seattle, WA (USA)
Web site: www.pms.ac.uk/ipa/congress2009.php

June 18-23, 2009
15th International Congress on Photobiology
Duesseldorf (Germany)

June 28 - July 3, 2009
GRC: Photosynthesis
Smithfield, RI (USA)

July 5-10, 2009
GRC: Photochemistry
Smithfield, RI (USA)

July 8-10, 2009
Plant ROS-2009: Society for Free Radical Research International
Helsinki (Finland)
Web site: pog2009.org/

July 9-10
ASP Topical Symposium:
Photobiology of Human Circadian, Neuroendocrine, and Neurobehavioral Effects
Jefferson University
Philadelphia, PA (USA)
Web site: www.pol-us.net/ASP_Home/phadelphia.pdf

July 18-22, 2009
ASPB-2009 (American Society for Plant Biology)
Honolulu, HI (USA)
Web site: aspb.org/meetings/pb-2009/

July 19-24, 2009
Topical Problems of Biophotonics
Nizhny Novgorod – Samara (Russia)
Web site: www.biophotonics.sci-nnov.ru/

July 19-24, 2009
GRC: Chronobiology
Newport, RI (USA)

July 26-31, 2009
ICTPPO 2009: International Conference on Tetrapyrrole Photoreceptors in Photosynthetic Organisms
Asilomar Conference Center
Pacific Grove, CA (USA)
Web site: www.cevs.ucdavis.edu/Cofred/Public/Aca/ConfHome.cfm?confid=376

Aug 7-8, 2009
ASP Topical Symposium:
The Science Behind LLT. From Molecular Biology to Cell and Tissue Level. What are the Mechanisms of Action?
University of Rochester
Rochester, NY (USA)
Web site: www.pol-us.net/ASP_Home/rochester.pdf

Aug 16-21, 2009
GRC: Laser Diagnostics in Combustion
Waterville Valley, NH (USA)

Sept 5-10, 2009
2009 ESP Congress
Wroclaw (Poland)
Web site: www.esp-photobiology.it/2009congress/

Oct 16, 2009
ASP Topical Symposium:
Light and Internal Tissues. Applications, Basic Science, and Future Directions
Crown Plaza Hotel
Rockville, MD (USA)
Web site: www.pol-us.net/ASP_Home/rockville.pdf

July 3 - Aug 5, 2010
Plant Biology 2010: American Society of Plant Biologists & Canadian Society of Plant Physiologists
Montreal, QC (Canada)
Web site: aspb.org/meetings/pb-2010/

Aug 12-16, 2010
ASP-2010: 35th Meeting of the American Society for Photobiology
Brown University
Providence, RI (USA)

SPIE Events: spie.org/x1375.xml
Plant Biology Events: aspb.org/calendar
Chemistry Events: www.chemistry.org

Don't Forget to Vote!