

ASP NEWS



Winter 2010

vol. 39(1)

ASP-2010

Providence, RI

Please join us for ASP-2010, the 35th Meeting of the American Society for Photobiology.

Location: Brown University in Providence, RI
Date: June 12-16, 2010
Organizers: Linda Jones, JonesL@cofc.edu
David Sliney, david.sliney@att.net
Web site: www.asp2010.org
Interactive Map: www.doiop.com/providence
Visitors Bureau: www.goprovidence.com

ASP encourages attendance by its Associate Members through travel awards (see page 4 of this newsletter) and welcomes new photobiologists from all disciplines. We look forward to seeing you in Providence!

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The first known image of Brown University is a copper-plate engraving from 1795. The original campus was a single academic building that was later named University Hall (image from Wikipedia).



The Van Wickle Gate of Brown University, with University Hall in the background. This is an entrance to the main campus at College Street and Prospect Street. The gate was built with a donation by Augustus Stout Van Wickle, Class of 1876 (image from Wikipedia).

ASP'er Breaks World Record



ASP'er **Ann Webb** (University of Manchester, UK), shown above in flight, recently broke the world record for time aloft in a hydrogen-filled balloon. There was a video camera aboard and one of the co-pilots narrated the footage of a video that you can watch on youtube:

www.youtube.com/watch?v=8WOiagF2l8M



Did you notice that Ann's hat has the ASP logo? To buy your own ASP hat, shirt, button, mug, and other swag, just fire up your browser and visit:

www.cafepress.com/PHOT

You're Invited!

Please join us at the Mentoring Luncheon at the 35th ASP Meeting in Providence, RI (June 12-16, 2010).

Associate Members: Our Mentoring Lunch provides a casual, relaxed atmosphere where you can seek insight from your senior colleagues on the ins-and-outs of building a career in science. Take advantage of this opportunity to build networks within the research community!

Full Members: Please consider sharing your experiences and time with our associate members at this luncheon. We value the unique perspectives provided by members at all stages of their careers, so please join us.

To sign up as a mentee or mentor, please contact **Kate Counter** (785-843-1234 x225 or kcounter@allenpress.com) or indicate your interest under the "Mentoring Lunch" question on the meeting registration form.

-Theresa Busch

Letter from the Editor

Are you ready for Providence?

Providence has been defined as *a manifestation of divine care or direction*. In 1636, Providence Rhode Island was founded and named by the theologian **Roger Williams** after his banishment from Massachusetts for his support of religious tolerance.

In Italy, just 16 years before the banishment of Roger Williams, **Galileo Galilei** used his telescope to observe what he called "three fixed stars, totally invisible by their smallness," around Jupiter. A few days later, he concluded that these "stars" were orbiting Jupiter. These observations marked the discovery of Io, Europa, Ganymede, and Callisto, four of Jupiter's moons. Galileo favored Copernicanism and, like Roger Williams, was also a victim of religious intolerance.

Thankfully, Galileo and Williams have been vindicated. In honor of Galileo, 2009 was named the International Year of Astronomy. Brown University was founded in Providence in 1764, and was the first American college to accept students regardless of religion. It is now a premier American university.

Brown University is also the location of the upcoming meeting of the American Society for Photobiology (June 12-16, 2010). There are already numerous confirmed sessions, including: Human Circadian Rhythms, Ocular Phototoxicity, Stem Cells and Photobiology, Home Health Lasers for Skin Treatments, and Photobiomodulation (Low Level Light Therapy). More information will be available in the coming weeks and months at www.asp2010.org.

Please join us in Providence! It will definitely be educational ... it may even be *divine*.

ASP News

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www.photobiology.org

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Renew Your Membership

Cell Phone: \$40 per month.

Cable TV: \$50 per month!

Car insurance: \$100 per month!!

Rent: \$500 per month!!!

ASP associate membership: \$3.75 per month*

ASP full membership: \$10-13 per month**

*for grad students and postdocs: \$45 per year

**for online access to *Photochem Photobiol*: \$120 per year; for online access and printed version of *Photochem Photobiol*: \$160 per year

Join ASP or renew your membership

Go to **www.photobiology.org**

Click **Join ASP** (top row)

ASP on Facebook and LinkedIn

There is now a Facebook Group for Associate Members of the ASP that was established by **Joanna Turner**, Associate ASP Councilor.

Associate members and Full members are free to join this group to meet and greet, to discuss ASP-2010 (Providence, RI, June 12-16, 2010), to find out about upcoming meetings and symposiums, or to only say HELLO! Just go to facebook.com, and look for the group name "Associate Members for the American Society for Photobiology".

There is also a LinkedIn Group for the ASP. Just go to linkedin.com and look for the group "American Society for Photobiology".

-Theresa Busch

Photochem Photobiol

Articles published since 1990 with the highest citation counts*

BW Henderson, TJ Dougherty (1992) How does photodynamic therapy work? *Photochem Photobiol* 55: 145-57. **Citations: 1199**

J Moan, K Berg (1991) The photodegradation of porphyrins in cells can be used to estimate the lifetime of singlet oxygen. *Photochem Photobiol* 53: 549-53. **Citations: 327**

H Du, RA Fuh, J Li, A Corkan, JS Lindsey (1998) PhotochemCAD: A computer-aided design and research tool in photochemistry. *Photochem Photobiol*

68: 141-2. **Citations: 256**

M Tevini, J Braun, G Fieser (1991) The protective function of the epidermal layer of rye seedlings against ultraviolet-B radiation. *Photochem Photobiol* 53: 329-33. **Citations: 234**

F Garcia-Pichel, ND Sherry, RW (1992) Evidence for an ultraviolet sunscreen role of the extracellular pigment scytonemin in the terrestrial cyanobacterium *Chlorogloeopsis* sp.. *Photochem Photobiol* 56: 17-23. **Citations: 129**

C Thomas, RS Pardini (1992) Oxygen dependence of hypericin-induced phototoxicity to EMT6 mouse mammary carcinoma cells. *Photochem Photobiol* 39: 831-37. **Citations: 98**

C Thomas, RS MacGill, GC Miller, RS (1992) Photoactivation of hypericin generates singlet oxygen in mitochondria and inhibits succinoxidase. *Photochem Photobiol* 55: 47-53. **Citations: 93**

B Stein, P Angel, H Van Dam, H Ponta, P (1992) Ultraviolet-radiation induced c-jun gene transcription: two AP-1 like binding sites mediate the response. *Photochem Photobiol* 55: 409-15. **Citations: 85**

CM Krishna, S Uppuluri, P Riesz, JS Zigler Jr (1991) A study of the photodynamic efficiencies of some eye lens constituents. *Photochem Photobiol* 54: 51-58. **Citations: 85**

JM Zdolsek, GM Olsson, UT Brunk (1990) Photooxidative damage to lysosomes of cultured macrophages by acridine orange. *Photochem Photobiol* 51: 67-76. **Citations: 82**

*Citation counts are from scholar.google.com on Dec 10, 2009.

-PAE

ASP Homepage Usage Stats

Dates: Sept 22-Dec 19, 2009 (100 days)

Total page views: 3972

Average page views per day: 40

Browser Share

FireFox: 29.0%

Google Chrome: 1.0%

Internet Explorer-8: 28.0%

Internet Explorer-7: 18.0%

Internet Explorer-6: 9.0%

Opera: 1.0%

Safari: 14.0%

If you are one of the 9% of visitors to our web site who is still using Internet Explorer-6 (IE6), it's time to upgrade. **Now!**

IE8 provides better security and supports many modern features and applications that are not supported by IE6. Microsoft itself has acknowledged that the continued use of IE6 is making the web less secure and is an impediment to web developers.

-PAE

ASP Awards

Feb 14 Deadline

The ASP Awards Committee is seeking nominations for the **Research Award**, **New Investigator Award**, **Lifetime Achievement Award**, and **Photon Award**, to be presented at ASP-2010 in Providence RI. The deadline is Feb 14, 2010. More information about these awards is available at:

www.pol-us.net/ASP_Home/awards.html

Nominations for the New Investigator Award and Research Award should be sent to **Lanie Hill** (hill@umdnj.edu).

Nominations for the Lifetime Achievement Award and Photon Award should be sent to **David Sliney** (david.sliney@att.net).

In addition, ASP associate members who attend ASP-2010 are eligible for **Travel Awards**. All applications should be sent to Lanie Hill (hill@umdnj.edu). More information about the Travel Awards is available at:

www.pol-us.net/asp2010/travel-awards.html



Rosalie Crouch (L), winner of the ASP Research Award in 2008, presented by Steve Ulrich.



Rebekah Drezek (R), winner of the 2008 ASP New Investigator Award, presented by Lisa Kelly.



Obituaries

William Franklin (1957-2009)

William A Franklin died suddenly on September 19, 2009, in New York City, following influenza-related complications. He was 52. The majority of Bill's career focused on DNA repair enzymology.

His first brush with the field came at the University of California at Berkeley, in an undergraduate course taught by **AJ Clark**, of recA renown. After graduating in biophysics he entered Harvard's biophysics program, doing his thesis work with **William**



Haseltine. The early eighties were a memorable period in which the lab was trying to identify the possible biological role of an unusual sequencing-gel band that represented a UV-induced DNA photoproduct at pyrimidine-cytosine sites. Bill showed that the mystery "PyC" photoproduct was repaired by the nucleotide excision repair system and that it was identical to **SY Wang's** long-neglected pyrimidine-pyrimidone (6-4)

photoproduct which was discovered in the previous decade.

Bill conducted postdoctoral work at **Tomas Lindahl's** Clare Hall Laboratory in London, where he discovered DNA deoxyribosephosphodiesterase (dRpase). This protein removes the sugar-phosphate residue from an endonucleolytically-incised apurinic/apyrimidinic site, providing a tidy DNA end for the later steps of base excision repair. After joining the faculty in the Department of Radiation Oncology at Albert Einstein College of Medicine, he continued his studies of dRpase and also discovered exonuclease IX, which removes trans-4-hydroxy-2-pentenal 5-phosphate from DNA containing 3'-incised abasic sites. It also removes 3' phosphoglycolate end groups, a "ragged end" left by ionizing radiation and oxidative damage. In subsequent years, Bill isolated uracil-DNA glycosylases from thermophiles and from the mysteriously radiation-resistant *Deinococcus radiodurans*.

Bill left an indelible and positive impression on those who knew him. A fount of energy, he could be counted on to anchor a discussion of proposed experiments, typically in the warmup chalet atop a New Hampshire ski run. A food connoisseur, he was known to drive from Boston to Maine for the best lobster dinner. On international travels, he was legendary for leading other scientists down shortcuts and back alleys to the important sights - in cities he'd never been to before. He knew Paris like the back of his hand. But above all, he loved New York City.

We will greatly miss his energy, selflessness, contributions to science, and his friendly and sincere interactions with all who crossed his path.

- Evelyne Sage, Doug Brash, Dag Helland, and Paul Doetsch

Betsy Sutherland (1943-2009)



Betsy Sutherland, a senior biochemist in the Biology Department of Brookhaven National Laboratory who achieved international distinction for her studies of UV and ionizing radiation damage and repair in human cells, died on October 7, 2009. She was a long-time member of the

ASP and published 16 articles in *Photochem*

Photobiol.

Born in New York City on October 19, 1943, Betsy received a BS and MS in biology, both from Emory University in Atlanta. She earned a PhD in radiation biology from the University of Tennessee in 1967 and completed her postdoctoral work at the Walter Reed Army Institute of Research and the University of California, Berkeley. She was on the faculty at the University of California, Irvine, until 1977, when she joined Brookhaven Lab as a biochemist. At Brookhaven, she received tenure in 1980 and was promoted to senior biochemist in 1988. Since 1994, she was head of the Biology Department's User Support Team for the NASA Space Radiation Laboratory (NSRL), the only source in the US of high-energy charged particles used to assess the effects of space radiation on biological systems, materials, and instruments. She was also the current chair of Brookhaven's Scientific Advisory Committee for Radiation Research at NSRL.

Her research was focused on the damage produced in cells by UV light and the enzymes that can repair this damage. Early in her career, she found that the pyrimidine dimer could be detected in irradiated human skin, even at sunlamp exposures too small to redden the skin. Betsy and her group were also the first to observe the ability of UV light to transform normal human cells into cancer-like cells. She also examined the biochemistry of clustered DNA damage and DNA repair in human cells. Clustered damages result when several closely spaced bases are damaged, and are believed to be difficult for cells to repair.

In 1985, she was the first woman to receive the US Department of Energy's Ernest Orlando Lawrence Award for outstanding contributions to the field of atomic energy. She was also elected to the University of Tennessee Alumni Hall of Fame, was a Fellow of the American Association for the Advancement of Science, and was a member of numerous professional and academic societies, including the ASP, AIBS, New York Academy of Sciences, and the Radiation Research Society.

Betsy resided in Wading River NY and is survived by her husband, **John Sutherland**, a senior biophysicist in the Biology Department and also a long-time ASP member. In lieu of flowers, donations may be made to: York Place, Episcopal Church Home for Children, 234 Kings Mountain St, York, SC 29745-1131.

-**Diane Greenberg** (adapted from *The Bulletin*, Brookhaven National Laboratory, provided by John Sutherland)

Candidates for President and Council

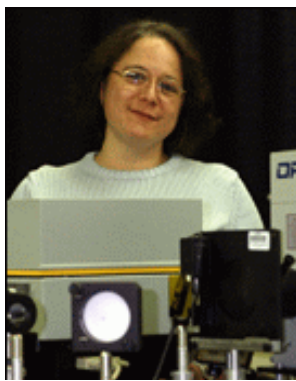
The ASP Business Office will soon send e-mail ballots for our election for President and Councilors. We must have your current e-mail address on file. Please make sure to update your membership record.

Go to: www.photobiology.org

Click: "ASP Business Office" (left column)

Candidate for President: Elizabeth Gaillard

Elizabeth Gaillard



Dept of Chemistry and Biochemistry, Northern Illinois University, DeKalb, IL

Education:

BS: 1984, The Florida State University; PhD: 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. 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 chair of the Mentoring 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. It

brings together a diverse range of interests into one "big tent". The ASP has also always encouraged 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 many younger members who are enthusiastic about photobiological sciences and eager to participate in our community. ASP needs to continue to encourage its junior members to stay connected and take active roles in our society. In difficult economic times like now, people feel the need to reduce travel plans and expenditures. We need to continue to keep ASP membership and meetings cost-effective so that people do not 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 would like to see a federation of societies develop, similar to the model of FEBS, where the societies are 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.

Candidates for Councilor (18 candidates for 5 positions):

Nihal Ahmad, Keith Cengel, Sergio G. Coelho, Michael A. DellaVecchia, Giorgio Delrosso, Janis Eells, Wolfgang Gärtner, Carmelo Garcia, Francis P. Gasparo, Francesco Lenci, Dariusz Leszczynski, Norio Miyoshi, Michelene Matthews-Roth, Seiichi Matsugo, Theo Theodossiou, Thomas Vogelmann, Georg Wondrak, Shiyong Wu

Don't Forget to Vote!

Nihal Ahmad



Nihal Ahmad received his MS and PhD degrees in Chemistry from University of Lucknow in Lucknow, India.

His post-doctoral training was in ultraviolet (UV) response, photodynamic therapy and cancer chemoprevention with Dr. Hasan Mukhtar at the Case

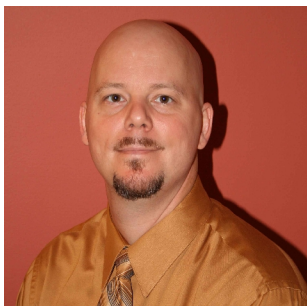
Western Reserve University in Cleveland, OH.

In July 2000, he joined the Department of Dermatology at the Case Western Reserve University as an Assistant Professor. In 2002, he moved to the University of Wisconsin at Madison as an Assistant Professor and was promoted to Associate Professor with tenure in July of 2007.

The research in his laboratory is focused on three major lines: i) mechanism of cutaneous UV responses, including photocarcinogenesis; ii) mechanism of cancer development and identification of molecular targets for intervention; and iii) chemoprevention of cancer by novel agents. He has published more than 120 papers, 7 book chapters, and more than 100 abstracts.

He is actively involved in undergraduate- and graduate-level teaching and mentoring. He has been an Associate Editor of *Photochemistry and Photobiology* since 2003. He also serves on the editorial boards of other journals, including *Toxicology and Applied Pharmacology* (since 2000), *Skin Pharmacology and Physiology* (since 2005), *Life Sciences* (since 2006), *Clinical Medicine: Urology* (since 2007), and *International Journal of Photoenergy* (since 2009). He is a member of several scientific societies including ASP (since 1996). He is willing and eager to actively contribute to the ASP council.

Keith Cengel



Keith Cengel received his PhD and MD from the University of Illinois at Urbana in 1998 and 2001, respectively. He completed residency training in radiation oncology at the University of Pennsylvania along with concurrent post-doctoral training with Dr

W Gillies McKenna in the area of cellular signaling of radiation resistance.

Since 2006, he has been an Assistant Professor and Director of the PDT program in the Department of Radiation Oncology at the University of Pennsylvania. His current laboratory studies involve attempting to better understand the mechanisms of cancer cell survival signaling following PDT. He is also the principal investigator on several clinical trials that seek to adapt PDT for the treatment of patients with serosal (pleural or peritoneal) spread of malignancies.

Sergio G. Coelho



Sergio G Coelho received his BS degree from Syracuse University in Biomedical Engineering in 2001. He began his career as a bioengineer working in Dr Janusz Beer's Photosciences Facility and Sharon Miller's Electro-optics Lab at the FDA, in Rockville, MD. For the next five years he

coordinated four clinical research projects and generated scientific data for modernization of FDA policies on UV-related products such as diagnostic and therapeutic devices, sunlamps, sunscreens, and photosensitizing drugs.

In 2005, he began collaborating with Dr Vincent Hearing's Pigment Cell Biology Lab in the NCI at NIH, in Bethesda, MD and is now a staff Biologist at NCI where he is studying the photobiological implications of melanin in skin. He is examining the short-term and long-term effects of acute and repetitive UV exposure on human skin. In 2006, he graduated from George Washington University with a MS degree in Biochemistry & Molecular Biology and he is now working part-time towards his doctoral degree at Catholic University. He has been a member of the American Society of Photobiology since 2002 and has received associate member travel awards in 2004 and 2006. In 2004, his cover design was selected to for *Photochemistry and Photobiology*, and his design is still used.

He has published 13 articles in peer-reviewed scientific journals (including two in *P&P*) within the field in the last 4 years. He believes this is an opportunity for him to give back to ASP by actively participating in the ASP council and engaging with seasoned investigators to determine how best to continue improving the society.

All truths are easy to understand once they are discovered; the point is to discover them.
- Galileo Galilei

Michael A. DellaVecchia



School of Biomedical Engineering, Science & Health Systems

Director, Emergency Room Services, Wills Eye Hospital

Education:

BA in Physics, LaSalle College, 1970; MS in Biomedical Science and Engineering, Drexel University, 1972; PhD in Biomedical Science and Engineering, Drexel University, 1984; MD, Temple University School of Medicine, 1976.

Hobbies

Photography, Equipment design (machine shop), Amateur ham radio (license N3MUF); Amateur Radio Relay League; Counselor, Boy Scouts of America; Civil Air Patrol, Wing Doctor, Pennsylvania

Professional Societies

Sigma Xi International Honors Research Society: lifetime member
International Bioelectrochemical Society
New York Academy of Sciences
Institute of Electrical and Electronic Engineers
American Society for Engineering in Medicine and Biology
American Society of Clinical Pathology
American Academy of Ophthalmology
Delaware Valley Ophthalmological Society
Intercounty Ophthalmological Society
Philadelphia County Medical Society
Pennsylvania Medical Society
American Medical Association
Montgomery County Medical Society
SPIE, International Society for Optical Engineering
Biomedical Optics Society
Laser & Electro-Optics Society
Active Research Projects
Photonics, instrument development, dielectrics, biocompatibility

Giorgio Delrosso



A degree in Medicine and Surgery obtained December 21, 1983 at the University of Turin with a thesis entitled "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

1988-1998: Teacher of Dermatology at the Nursery School "R. Avogadro di Vigliano" in Vercelli;

From 2000: Teacher of Capillaroscopy and Skin Circulation Physiology 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 Interest

Dermatologic Surgery, Phototherapy, Histopathology, Capillaroscopy, Photodynamic Therapy. He was the author of scientific publications, oral communications, and lectures about these topics at National Congresses.

Fields of Research

He is interesting in clinical application of UVA and UVB-narrow band therapy, combination UVA/UVB therapy, bath PUVA therapy, and gel PUVA therapy for treatment of a variety of diseases including fungal mycosis, parapsoriasis, psoriasis, vitiligo, atopic dermatitis, solar urticaria, actinic reticuloid, lipoidic necrobiosis, mastocytosis, and 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, Aesthetic Dermatology)

Ordinary Member of the American Society of Photobiology (ASP)

Scientific Publications

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

Janis Eells



Associate Professor:
University of Wisconsin,
Milwaukee College of Health
Sciences

Interests and Expertise
Mitochondrial dysfunction
plays a pivotal role in
neurodegenerative diseases and
cellular aging. Research in my

laboratory is directed at understanding mitochondrial signaling mechanisms involved in mediating cellular toxicity and protection. One component of my research program focuses on the molecular mechanisms of toxicity associated with the actions of environmental chemicals that act as mitochondrial poisons and disease states that produce mitochondrial dysfunction. My laboratory has developed a rodent model of acquired mitochondrial dysfunction that manifests many features of clinically relevant diseases of the retina and optic nerve.

Using this animal model we have begun to define the relationships between mitochondrial toxicity and cellular dysfunction. A second project is directed at understanding the mechanisms by which low energy irradiation by far-red to near infrared radiation (630-1000 nm) stimulates mitochondrial energy metabolism and promotes cell repair following injury.

Speaker Topics

Environmental Toxicology
Pharmacology and Drugs of Abuse
Pharmacology and Toxicology, Ocular
Pharmacology, Molecular Toxicology and

Education

PhD, University of Iowa, Pharmacology and
Toxicology, 1981
MS, Idaho State University,
Pharmacology/Microbiology, 1976
BS, Idaho State University, Microbiology, 1973

Wolfgang Gärtner



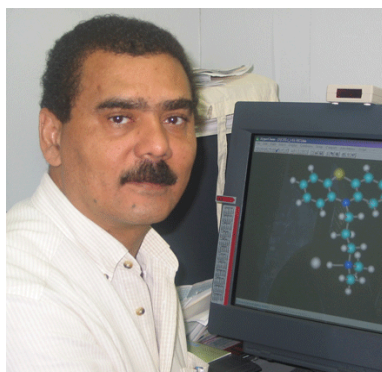
Wolfgang Gärtner studied Chemistry at the Universities of Goettingen and Wuerzburg (Germany), where he received his PhD in 1982. He was a postdoctoral fellow at the Max-Planck-Institute (MPI) for Biochemistry in Munich (group of

Dieter Oesterhelt) and at the Biocenter of Basel, Switzerland from 1982-86. At University of Freiburg, he was researcher from 1986-91. He then joined the MPI for Bioinorganic Chemistry in Muelheim (at that time, MPI for Radiation Chemistry). He became staff member (group leader) and PI in 2000. In 1993, he habilitated and in 1999 he was awarded Professor adjunct at Universities Duisburg and Duesseldorf, where he still reads Biochemistry. His group at the MPI in Muelheim investigates biological photoreceptors, in particular the mutual functional control of chromophore and protein moiety, addressing this problem by generating recombinant proteins and structurally-modified chromophores.

He served the American Photochemical Society as Councilor from 2001-2004. Since then, he has been Associate Editor for *Photochemistry and Photobiology*.

He presented more than 30 students for Diploma- and PhD degrees, and has (co)authored more than 150 peer-reviewed publications.

Carmelo García



Carmelo García received a BS in Chemistry in 1976 at the University of Puerto Rico-Rio Piedras. He received a PhD in Physical Chemistry in 1982 in the Carl Schorlemmer University (Merseburg,

Germany). He has post-doctoral training in theoretical chemistry with Dr Vlasta Bonaëic Koutecky (Institut fuer Theoretische Chemie, Freie Universitaet; Berlin) and in photomedicine with Dr Irene E. Kochevar (Wellman Laboratories for Photomedicine, Harvard Medical School, Boston). He joined the University of Puerto Rico-Humacao in 1984 and is now Full Professor in physical chemistry. Since 1993 he has been actively engaged in a project investigating the phototoxic side effects of trycyclic antidepressants. He has been a member of ASP since 1990, and is eager to actively contribute to the ASP council.

Francis P. Gasparro



Education

1962-1966: Villanova University, BS in Chemistry, May, 1966
1966-1970: Princeton University, PhD in Chemistry, June, 1971
Thesis Title: "Intermolecular Interactions in Solution and Complex Formation: I. Vapor-Solution Equilibria; II. NMR Solvent Effects"

Research Interests

1. Psoralen-DNA photochemistry, photobiology, and photoimmunology; repair of psoralen-DNA photoadducts; mutagenesis; molecular biology.
2. p53 ad its role in phototherapy and mutations in skin cancer
3. Photochemotherapy for the prevention of restenosis after angioplasty
4. Drug delivery systems: photoactivatable antisense DNA, AMT-Insulin.
5. Photobiology of other relevant biomolecules: sunscreens, adenine, gilvocarcin.
6. Sunscreen photobiology

Professional Duties

President: American Society for Photobiology (1996-1998)
President: Organizing Committee for Photobiology 2000 (13th International Congress of Photobiology)
Photobiology Section Editor: *Journal of Investigative Dermatology* (July 1997)
Editorial Board: *Photodermatology, Photomedicine and Photoimmunology*
Reviewer: *PNAS; Photodermatology, Photomedicine*

and Photoimmunology; Photochemistry & Photobiology

Honors and Awards

Faculty Research Award, Wellesley College, 1973-1974.

Public Health Services Fellow (NIH), Princeton University, 1968-1970.

Full Tuition Scholarship to Villanova University, 1962-1966.

Hobbies

Tennis, Photography, Model Railroading, Golf

Francesco Lenci



Francesco Lenci is a physicist working in biophysics and photobiology since the beginning of his career. His main research interests are photosensory biology (in particular, photomovements of microorganisms),

photobiophysics, and optical spectroscopy. A former Director of the CNR Biophysics Institute in Pisa, he is now serving on the CNR General Scientific Council. He has been a member of ASP since 1974, has served on the Council (1998-2001), and is now serving as *P&P* Associate Editor and on the PSO Advisory Board. As a member of ESP since its foundation in 1986, he has served ESP as Chair of the Education Committee (1999-2005) and as President (2005-2007). He has also been IUPB Vice-president (2000-2004). In all his roles, he has tried to contribute to the dissemination of the science of photobiology and to develop new generations of scientists, especially by means of NATO-ASIs, Summer Schools, and fellowships for attending ASP, ESP and ICP meetings. In 2001 he was awarded the ESP Medal for "research achievements in photobiology that are internationally acknowledged as outstanding".

Should he be elected in the Council of ASP, he will keep on doing his best to attract new scientists in the field and look for the possibility of making ASP meetings, which have always been excellent cultural and scientific occasions, affordable opportunities for young researchers.

Dariusz Leszczynski



Degrees and Titles:

Master of Sciences (MSc)
1978 Jagiellonian University,
Krakow, Poland
Doctor of Sciences (DSc)
1983 Jagiellonian University,
Krakow, Poland
Doctor of Philosophy (PhD)
1990 University of Helsinki,
Helsinki, Finland
Docent of Biochemistry 1992
University of Helsinki,
Helsinki, Finland

Helsinki, Finland

Appointments & Duties (present):

Research Professor (2000-present), Radiation Biology
Laboratory, Department of Research and
Environmental Surveillance, STUK - Radiation and
Nuclear Safety Authority, Helsinki, Finland

Appointments:

2007-10: Guangbiao Professor, Bioelectromagnetics
Laboratory, Zhejiang University Medical School,
Hangzhou, China
2000-present: Research Professor, STUK - Radiation
and Nuclear Safety Authority, Helsinki, Finland
1992-present: Adjunct Professor, Department of
Biochemistry, University of Helsinki, Finland

Memberships and functions in the scientific societies:

Bioelectromagnetics Society (BEMS), USA

Technical Program Committee Co-Chair; 2010
BEMS Annual Meeting, Seoul, Korea
Technical Program Committee Co-Chair BioEM
2009 - The Joint meeting of BEMS &

EBEA, Davos, Switzerland

Member of the Board of Directors, 2006-2009
Member of the Development Committee 2007-
present
Member of the Finance Committee 2007-2009
American Society of Cell Biology (ASCB)
Member of the Membership Committee of the ASCB;
2006-present
EuroSkin, Germany
Member of the Steering Group on experimental
biological research of skin cancer
American Society for Photobiology
Member of the Membership Committee; 2007-present

International & National Expert Responsibilities:

Invited as a Testifying Expert for the US Senate
hearing on "The Health Effects of Cell Phone Use",
organized by the Committee on Appropriations,

Subcommittee on Labor, Health and Human Services,
Education and Related Agencies (September 14, 2009)
Invited Reviewer for "Children with Leukaemia
Foundation", London, UK 2008
Invited Expert: U.S. National Academies; Workshop
on Identification of Research Needs Relating to
Potential Biological or Adverse Health Effects of
Wireless Communications Devices, Washington, DC,
August 7-9, 2007.

Micheline Matthews-Roth



Dr Matthews Roth is Associate
Professor of Medicine at Harvard
Medical School, and a Physician
at Brigham & Womens Hospital,
a teaching affiliate of Harvard
University. She holds an MD
from New York University.

She is a member of the ASP, the
American Society for
Microbiology, American

Federation of Medical Research, Sigma Xi, American
Society for Clinical Investigation, American Society
for Gene Therapy, and International Society for Stem
Cell Research.

She was elected to the ASP Council and also chaired
its Education Committee, and was Associate Editor of
Photochemistry and Photobiology for three terms. In
1989, she was elected ASP President. As president-
elect, she organized the society's annual meeting and
served on several important committees.

Her national service has included membership on
several special study sections of the NIH. She serves
on the Medical Advisory Board of the American
Porphyria Foundation.

Her honors include election to the American Society
for Clinical Investigation, and over 50 invited
lectureships. She is the author of over 125 publications
in the fields of bacteriology, photobiology,
dermatology, medicine, and laboratory and animal
studies in gene therapy.

Her research interests include the structure and
function of carotenoid pigments, including cancer
prevention; photobiology of skin; bacterial anatomy
and physiology, especially as related to pigmentation;
human embryology and fetal development; and bone
marrow-based gene therapy.

Among her principal research accomplishments have
been: i) the development of a successful treatment for
hitherto untreatable genetic skin disease; ii) the

demonstration that the carotenoid molecule, as opposed to vitamin A, may have anti-cancer activities; and iii) the demonstration that treatment of the mouse model of EPP via bone marrow-based gene therapy with a retroviral vector expressing the normal gene for the enzyme which is defective in EPP results in the long-term correction of the light-sensitivity and protoporphyrin accumulation characteristic of EPP.

Seiichi Matsugo



Seiichi Matsugo received his Bachelor, Masters, and PhD (1981) at Kyoto University under the supervision of Prof Teruo Matsuura.

After receiving his PhD, he became research associate at Niigata College of Pharmacy. In 1986, he moved to Kobe University

of Mercantile Marine (presently, Kobe University) as an Associate Professor.

In 1992, he moved to Toyama University as an Associate Professor. From 1994 to 1995, he was at the University of California at Berkeley (Prof Lester Packer's lab) as a visiting scholar. He collaborated with Prof Packer using the Photo-Fenton reagent and examined antioxidant activities of various substrates, including naturally-occurring compounds. In 1999, he moved to Yamanashi University as a Full Professor. In 2006, he moved to Kanazawa University as a Full Professor.

His research interest is focused on ROS science (chemistry and biochemistry) and he is also interested in the signal transduction pathways of ROS and the role of antioxidants on these signal transduction pathways (including photo-responsive signal transduction).

He joined the Japanese Society of Oxidative Stress as a member of Council. He is an editorial member of *Journal of Clinical Biochemistry and Nutrition* (Official Journal of the Society for Free Radical Research Japan). He has been a member of the ASP since 1994, and is willing to actively contribute to the ASP council.

I have never met a man so ignorant that I could not learn something from him.
- Galileo Galilei

Norio Miyoshi



Assistant Professor, Division of Tumor Pathology, Department of Pathology, Faculty of Medicine, National University of Fukui, Japan.

Norio Miyoshi received his MS degree in Biophysics, and PhD (“Dye-sensitized photochemical generation and reaction of singlet

oxygen in micellar solutions”) in 1981 at the National University of Kyushu (Japan). His post-doctoral training was on clinical bladder cancer PDT with Prof. H Hisazumi at Department of Urology, Faculty of Medicine, National University of Kanazawa.

Since 1984 he has had a research position at the Department of Pathology, National Fukui College of Medicine (Japan). He joined the urologists of Kanazawa National University to teach basic PDT for six graduates working toward PhD degrees as a part-time Lecturer for 10 years. He received a Doctor of Medical Science from the National Fukui College of Medicine in 1991. He is a member of the International Photodynamic Association, Japanese Photodynamic Association, Japanese Association of Cancer Research, Japanese Association of Pathology, and other societies.

He visited the Histochemistry Institute in Pavia University (Italy) in 1994, with support from the JSPS Foundation, and visited to the National Cancer Institute of NIH (USA) in 1995, with support from the Monbu-shou Foundation. He accepted the First Japanese Association Prize at the 22nd Japanese Laser Medicine Conference in 2001 (“An Application of Fluorescence Analysis of metabolized Protoporphyrin-IX (Pp-IX) in a tumor tissue administrated with 5-aminolevulinic acid”). He established the “Japanese Association of 5-ALA in Cancer Treatment” in 2001. He also organized the First International Symposium of 5-ALA at the National University of Kyushu in 2003. He has been a member of ASP since 1983, and is willing to actively contribute to the ASP, and to actively contribute to Council.

I do not feel obliged to believe that the same God who has endowed us with sense, reason, and intellect has intended us to forgo their use. - Galileo Galilei

Theodossis (Theo) A. Theodossiou



Theo Theodossiou received his BSc in physics from the University of Athens, Greece in 1990 and his PhD in 1995 on “High Resolution Laser Spectroscopic Study of hyperfine structure and isotope shifts in Gadolinium” from the University of Birmingham

UK, under Greek State sponsorship.

While in his first postdoc position (1998-2001, NTUA, Athens Greece), Theo used his background in physics to focus on photobiology and photomedicine. From 2001, he worked at University College London (UCL) on photodynamic therapy (PDT) of cancer as a research fellow. Along with this post, he was also a PDT clinical scientist for UCL Hospitals (2002-2004).

Since 2006 he has been conducting research at the Institute of Physical Chemistry, NCSR “Demokritos”, in Athens, Greece. His current research interests include: BioLuminescence Activated Destruction (BLADe), PDT mechanisms and reactive-intermediate production, nanocarrier-assisted drug delivery, and second harmonic generation in tissue.

Theo has maintained strong liaisons with the photomedicine industry, acting as a consultant. He became a member of ASP in 2006 and has served as a member of the publications committee (2007-2008). Theo strives to continue to increase his contribution to ASP through a place on Council.

Thomas C. Vogelmann



Department of Plant Biology, University of Vermont, Burlington, Vermont

Education:

BS, Biological Sciences, University of Vermont, 1974; MS, Botany, Washington State University, 1977; PhD, Biology, Syracuse University, 1980; NSF

Postdoctoral Fellow, Institute of Plant Physiology, University of Lund (Sweden), 1981-84; Docent, University of Lund, 1984.

Appointments:

Dean, College of Agriculture and Life Sciences, University of Vermont, 2008-present;

Professor and Chair, Department of Plant Biology, University of Vermont, 2002-08;

Visiting Research Fellow, Research School of Biological Sciences, Australian National University, 2000; Visiting Research Scientist, University of Lund (Sweden), 1990-91;

Assistant to Full Professor, Botany, University of Wyoming, 1984-2001.

Awards:

Robertson Lecture, Australian and New Zealand Societies for Plant Physiology 2000;

Finsen young investigators award, ASP 1984.

Research Interests:

Plant photobiology, optical properties of leaves; instrumentation development for studying leaf optics and photosynthesis; plant adaptations to their light environment. Current work involves measurement of light absorption profiles in leaves and their relationship to tissue anatomy and photosynthetic performance.

ASP Service:

Member since 1998.

Candidate's Statement:

I am seeking election to the Council so that I can help promote the field of photobiology. I am a plant biologist and photobiology has been a consistent theme in my research throughout my career. My immediate goal as Councilor would be to work with colleagues to expand the membership of ASP, primarily by recruiting young scientists to society meetings and to the special summer symposia sponsored by ASP. Scientific research is becoming increasingly trans-disciplinary and the multidisciplinary nature of photobiology means that we have an opportunity to engage young scientists across the many disciplines that are represented by the ASP. I served on the ASP Council 2003-06 and am familiar with the governance of the society and some of its current challenges. I would look forward to working with fellow council members to find solutions to some of the current issues. I would actively solicit the submission of high-quality manuscripts from plant-oriented research labs to *Photochemistry and Photobiology*, and I would support and contribute to the ongoing educational activities of the society. Finally, many new ideas and opportunities arise through interaction with colleagues overseas and I

would work to facilitate international activities. As someone who is very interested in the goals and mission of ASP, I would like to be given the opportunity to serve on the council once again to help increase the visibility of ASP and photobiology.

Georg Wondrak



Obtained a 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 photochemoprevention 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 Sydney E. Salmon Distinguished Junior Investigator award in 2008. In the same year, Dr. Wondrak served as a co-chair for a session on photo-oxidation in proteins held during the ASP meeting in Burlingame, CA. He hopes to contribute to the growth and future success of ASP.

He currently serves on ASP council, as a temporary member, replacing Evelyn Sage who needed to step down.

In questions of science, the authority of a thousand is not worth the humble reasoning of a single individual. - Galileo Galilei

Shiyong Wu

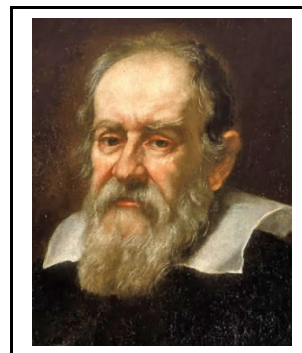


I received my BS (1983) in Chemistry/Polymer Chemistry from the University of Science and Technology of China (Hefei, China) and my MS (1990) and PhD (1992) in Chemistry/Biochemistry from the University of Nebraska (Lincoln, NE). I was trained as a postdoctoral fellow in Dr Naba Gupta's laboratory at the

University of Nebraska (Lincoln, NE) for two years and joined Dr Randal Kaufman's laboratory (1994) as a research associate at the Howard Hughes Medical Institute (Ann Arbor, MI).

I became an Assistant Research Scientist (1996) in the Radiation Biology Division of the Department of Radiation Oncology at the University of Michigan Medical School. Since 2003, I have been an Associate Professor in the Department of Chemistry and Biochemistry at Ohio University. My research interests are centered on the UV-induced signaling network. More details at oak.cats.ohiou.edu/~wus1/. I am currently a member of ASP, AACR, ASBMB, and SFRBM. I am a member of the SFRBM External Communications Committee.

I like to joke and often have "strange ideas" and respond quickly to any request.



2009 was the International Year of Astronomy and the 400th anniversary of Galileo's first astronomical observations.

Photobiology Events

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

Jan 23-28, 2010

Mechanisms for Low-Light Therapy V
SPIE: Photonics West
The Moscone Center
San Francisco, CA (USA)
Web site: spie.org/x1375.xml

Feb 7-11, 2010

Central European Conference on Photochemistry -
CECP 2010
Bad Hofgastein (Austria)
Web site: www.ptc.tugraz.at/gastein

April 17-18, 2010

Photosensory Receptors & Signal Transduction
Il Ciocco Hotel and Resort
Lucca, Barga (Italy)
Web site: www.grc.org

June 12-16, 2010

ASP-2010: 35th Meeting of the American
Society for Photobiology
Brown University
Providence, RI (USA)
Web site: www.asp2010.org

Jun 13-16, 2010

6th European meeting on Solar Chemistry and
Photocatalysis: Environmental Applications (SPEA6)
Prague (Czech Republic)
Web site: www.spea6.com

July 11-16, 2010

23rd IUPAC Symposium on Photochemistry
Ferrara (Italy)
Web site: web.unife.it/convegni/iupac-photochem-2010/

July 13-16, 2010

Challenges in Physical Chemistry and Nanoscience
(ISACS2)
Budapest (Hungary)
Web site: www.rsc.org/isacs2

Don't Forget to Vote!

Jul 30-Aug 5, 2010

Plant Biology 2010: American Society of Plant
Biologists Montreal QC (Canada)
Web site: aspb.org/meetings/pb-2010

Aug 15-20, 2010

7th International Conference on Photo-Excited
Processes and Applications (ICPEPA7)
Copenhagen (Denmark)
Web site: icpepa7.com

Aug 15-19, 2010

FASEB - Mechanisms in Plant Development
Saxtons River, Vermont (USA)
Web site: www.faseb.org/meetings

Aug 15-20, 2010

7th International Conference on Photo-Excited
Processes and Applications (ICPEPA7)
Copenhagen (Denmark)
Web site: icpepa7.com

Sept 24-26, 2010

Fifth Latin-American Congress on Photobiology and
Photomedicine
Santa Cruz (Bolivia)
Web site:
www.allenpress.com/pdf/AnnouncementLatin-AmericanCongress1.pdf

Other Event Calendars:

SPIE Events: spie.org/x1375.xml

Plant Biology Events: aspb.org/calendar

Chemistry Events: www.chemistry.org

Gordon Res Confs: www.grc.org

Cell: www.cell.com/conferences



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