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• • • • No. 120 Apr/May 1989 • • • •

## New England Charm, History, and the ASP Meeting!

The Salem witches, Plymouth Rock and the Mayflower, and Lexington and Concord are just a few of the sites included in the varied and exciting social program assembled by the ASP local arrangements committee. Even dedicated scientists are likely to find it difficult to decide between the scientific program, outlined on page 2, and the host of activities described below. Spouses and accompanying persons will be delighted with these tours of the "Hub of the Universe" and its environs. The following is a day-by-day collection of some of the most enticing aspects.

**Sunday:** The evening offers the opening reception at 7 P.M. followed by a very special public lecture on the "Uses of Electromagnetic Radiation in Art".

**Monday:** A day long (9-4:30) tour of "Boston Highlights Old & New" will give you a historical and cultural introduction to Boston, New

England, and Revolutionary history. Included are Beacon Hill, the North End, Back Bay, the Public Garden and Common, the J.F. Kennedy library and museum, and lunch in the Quincy Market area.

**Tuesday:** The morning is free, but the Children's Museum, Computer Museum, Science Museum, and Freedom Trail will all be open. The evening will be highlighted by the Society clambake (5-7:30) followed by the Boston POPS concert and fireworks on the Charles River Esplanade.

**Wednesday:** The morning (9-12) offers a tour of "Lexington, Concord & Lincoln", including Lexington Green (where the "shot heard 'round the world" was fired), Minuteman National Park, Walden Pond, and the homes of Emerson, Hawthorne, and Louisa May Alcott. In the afternoon (2:30-4:30) Dr. Pat

Trutty-Coohill (our president-elect's wife) will offer a guided tour of the Museum of Fine Arts.

**Thursday:** You may choose between "Plymouth and Plimoth Plantation", a 35 mile trip to see Plymouth Rock and the Mayflower II among other sites, or "Salem: Maritime and Witch History", a 17 mile excursion including the House of Seven Gables, the Peabody Museum, and lunch at the Hawthorne Hotel. Both are full day tours (9-4:30).

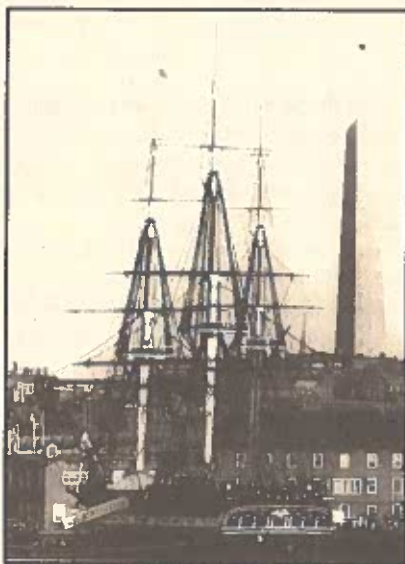


Photo Courtesy of Greater Boston Convention & Visitors Bureau

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 **Call for Research  
Award Nominees  
on Page 4**

Dear members,

As you know the 17th Annual Meeting of the Society takes place in Boston July 2-6. Judging from the abstracts we have received, the fireworks should not be limited to the evening session on July 4th (held jointly with the Boston Pops, on the Esplanade). The meeting should be one of the largest in years, (up roughly 50% from Colorado Springs) and President-Elect Tom Coohill is to be congratulated for his excellent work in organizing it. There are a number of exciting symposia, including one on the effects of ozone depletion, an area where the Society should play a lead role. In addition there will be several sessions that will tie into a workshop on photodynamic therapy, arranged by Dave Kessel, which precedes the meeting. There will also be a special public lecture on the uses of electromagnetic radiation in art by Eugene Farrell, Conservation Scientist of the Harvard Museum. Richard Mathies is this year's research awardee, and he will present a lecture on his work on time-resolved Raman studies in biological systems. In addition a number of excellent lectures and schools along with other sessions and symposia will provide a broad and interesting scientific program. The local hosts have also put together a social program that is exciting enough to give some competition to the scientific sessions. Make plans now to attend!

Elsewhere in this Newsletter (page 4) is a call for nominees for the 1990 research award. It is important that we continue to receive a large number of excellent nominations to continue to increase the prestige of our award.

See you in Boston!

- Chris Foote

SOCIETY HIGHLIGHTS

## Something for Everyone

The following is the complete schedule of scientific events for the Society's 17th Annual Meeting in Boston to be held July 2 -6.

**Friday, June 30 - Sunday, July 2**

PDT Workshop

**Sunday, July 2**

1:00 P.M. Executive Committee Meeting  
2:00 P.M. 47th Council Meeting  
7:00 P.M. Reception  
9:00 P.M. Special Public Lecture: Uses of Electromagnetic Radiation in Art - Eugene Farrell, Conservation Scientist, Harvard Museum

**Monday, July 3**

8:00 A.M. School I: Photoimmunology - M.L. Kripke  
9:00 A.M. Symposium I: Photoaging and Photocarcinogenesis  
9:00 A.M. Symposium II: Light Effects on Circadian and Neuroendocrine Regulation  
9:00 A.M. Session: Photosynthesis and Phototechnology  
1:30 P.M. Lecture: Photomedicine: A Status Report - J.A. Parrish  
2:30 P.M. Session: Photosensitization I (Emphasis on PDT)  
2:30 P.M. Poster Session I  
5:00 P.M. Annual Business Meeting

**Tuesday, July 4**

8:20 A.M. Symposium III: Stratospheric Ozone Depletion and its Biological Consequences  
9:00 A.M. Symposium IV: Photosensitive Receptors  
9:00 A.M. Session: Photomedicine I (PDT)  
Noon Lecture: Competition Between Photosensitized Electron and Energy-Transfer Reactions - C.S. Foote

**Wednesday, July 5**

8:00 A.M. School II: Free Electron Lasers as Light Sources for Photobiology and Biophysical Spectroscopy - J.C. Sutherland  
9:00 A.M. Symposium V: Photosynthetic Water Oxidation  
9:00 A.M. Symposium VI: Molecular Mechanisms of DNA Repair and Mutagenesis  
9:00 A.M. Symposium VII: Frontiers in Bioluminescence and Chemiluminescence  
9:00 A.M. Session: Environmental Photobiology and Photoprotection  
1:30 P.M. Presentation of ASP Research Award & Lecture  
2:30 P.M. Session: Bioluminescence and Photomorphogenesis  
2:30 P.M. Session: Photosensitization II  
2:30 P.M. Session: UV Effects  
2:30 P.M. Poster Session II  
5:00 P.M. Special Symposium: Carbohydrates, Light and Seasonal Depression - D. Wurtman  
7:00 P.M. 48th Council Meeting

**Thursday, July 6**

8:00 A.M. School III: UV Risk and the Regulatory Process - S.M. Sykes  
9:00 A.M. Symposium VIII: The Molecular Basis of Vision  
9:00 A.M. Symposium IX: Photomodification of DNA: Recent Advances and Clinical Applications  
9:00 A.M. Session: Photomedicine II (Immunology)  
1:30 P.M. Session: Psoralen  
1:30 P.M. Session: Photosensitization III  
1:30 P.M. Poster Session: Works-in-Progress

## AIP: Past and Present

### Part II: The Modern Era

The new *Comite Internationale de Photobiologie* began to organize congresses following World War II, as described in the table below.

I	1954	Amsterdam
II	1957	Turin
III	1960	Copenhagen
IV	1964	Oxford
V	1968	Dartmouth
VI	1972	Bochum
VII	1976	Rome
VIII	1980	Strasbourg
IX	1984	Philadelphia
X	1988	Jerusalem

At the Rome Congress, the name of the *Comite* was changed to *Association Internationale de Photobiologie*.

Membership in AIP consists of affiliated national or international photobiology groups or societies. In those countries having no national society or group, individuals may be recognized as members by AIP.

The organization of AIP consists of the **Board** – the President, 2 to 4 Vice-Presidents, the Secretary-General and the Treasurer, (terms of office end at the close of an international congress), and the **Executive Committee** – consisting of the Board, 1 delegate from each national or international group, coopted members (< 6 from countries with no national groups), and honorary members (without vote). The President is the Chairman of the Executive Committee. The Executive Committee meets every 2 years.

AIP organizes the International Congresses of Photobiology, every 4 years. The next Congress will be held in 1992 in Kyoto, Japan. AIP also sponsors smaller international meetings. AIP administers the funds of the Finsen Foundation, which awards medals to outstanding photobiologists. Other activities include special sub-committees to consider problems such as dosimetry, light sources, etc.

AIP has grown since its inception in 1928. Originally interested in the medical effects of light, particularly on skin, it now encompasses all of photobiology – from molecular biology to vision to effects of light on plants, etc.

AIP is the international photobiology association through which individuals and societies maintain contact and communication. As such, in an interdisciplinary field such as photobiology, it serves a very important function.

– Fred Urbach

– International Cooperation in Photobiology. Vince-Prue, D. and Hall, D.O., *Photochem. Photobiol.* (1975) 22, 77-82.

– Statutes Association Internationale de Photobiologie (AIP) et Fondation Niels Finsen de L'AIP 1976.

– AIP Opening Address: Urbach, F., in *Photobiology* 1984, (J. Longworth, J. Jagger and W. Shropshire, Jr., eds., pp. 1-4, Praeger Publ., NY 1985).

## Pill-Soon Song

Pill-Soon Song is a name that most ASP members will readily recognize. Since 1975, Pill's name has appeared on the front cover of P&P as editor. But in addition to his editorial duties, Pill conducts a very full slate of research activities and recreational pursuits.

Since his appointment as a research assistant in Korea, Pill has published over 200 research articles and reviews, not counting books, book reviews, editorials, congress and sym-

posia proceedings, and 114 abstracts! In 1965, he began a 22 year stint at Texas Tech, spending the last 12 years as the Paul Whitfield Horn Professor of Chemistry and Biochemistry. Two years ago, Pill assumed the chairmanship of the Chemistry Department at the University of Nebraska, a move which was accompanied by a certain degree of anxiety. "The first few months I ex-



perienced some self-doubt about the move," Pill explained. "Could I justify spending so much time working on departmental affairs at the expense of my own work? Since then I have organized my time better and I have an 11-person team working in my lab. This has gotten my research effort going and has helped me to feel much better about the move."

Editing P&P has become much more efficient in recent years also. Thanks to an excellent 2-person staff, Pill spends about 15 to 30 minutes a day going over the incoming mail with his assistant, and also spends some time evenings or weekends composing letters. "Surprisingly, the rejections take the most time," he notes. Asked about his goals as journal editor, Pill indicates that he would like to see P&P become more balanced in content. He feels that more coverage in vision, photosynthesis and photomorphogenesis, areas in which there is significant competition from other established journals, is desirable. He hopes to accomplish this through editorial board appointments and symposia at national meetings.

Spare time is a rare commodity for Pill. However, he does like to play tennis and he swims about 3/4 mile every morning. Five years ago, he took up skiing, and has become quite an enthusiast. He's already been to Colorado twice this winter.

# Setlow wins \$100,000 Enrico Fermi Award

Richard B. Setlow, a charter member of ASP, is one of two winners of the 1988 Enrico Fermi Award. He will receive a presidential citation, a gold medal, and a \$100,000 honorarium. The Fermi Award, which dates to 1954, is the highest



scientific award given by the U.S. Energy Department. It recognizes exceptional and outstanding scientific and technical achievement in the development, use, or control of atomic energy.

Dr. Setlow is being honored for "... his pioneering and far-reaching contributions to the fields of radiation biophysics and molecular biology, beginning with the discovery and conceptualization of the processes of DNA repair that have had an impact on research in genetics, recombination, mutation, and carcinogenesis."

A native New Yorker, Richard B. Setlow received his A.B. from Swarthmore College in 1941 and his Ph.D. in physics from Yale University in 1947. From 1941 to 1961 he taught physics and biophysics at Yale University. In 1961, he went to the Biology Division at Oak Ridge National Labora-

tory, Tennessee. In 1974, he joined the staff of the Biology Department at Brookhaven National Labs and was named chairman in 1979. Since 1986 he has served as Brookhaven's Associate Director for Life Sciences. Setlow has also served as president of the Comite Internationale de Photobiologie and as president of the Biophysical Society.

In the early 1960's, Dr. Setlow discovered the processes of DNA repair in cells. With his coworkers at Oak Ridge, Dr. Setlow was the first to demonstrate that UV light induces structural defects in DNA that can cause biological damage. He then showed that in normal bacterial cells these lesions can be excised. This discovery of excision repair showed for the first time that genetic material is subject to biochemical turnover, a notion disputed at that time by most geneticists.

Setlow's trailblazing work, which he has vigorously continued even during his years of administrative duties at Brookhaven Lab, stimulated a veritable explosion of research activity that has led to the discovery of other DNA repair mechanisms, not only in bacteria, but in all organisms including humans. Thus, Dr. Setlow's original discoveries laid the basis for what has become one of the most fruitful, far-reaching, and intellectually important areas of modern biology and medicine.

## Banquet Subsidy!

A Clambake has been planned for the afternoon of July 4 at the Boston meeting. Afterward people are free to wander over to the Fireworks Display and Boston Pops Concert on the Esplanade. The local arrangements committee (Micheline Mathews-Roth, Chair) has arranged an excellent price, \$35 per person. You will not eat better for less in Boston. The meal will include:

Steamed Clams  
Lobster  
BBQ Chicken  
Baked Potato, Salads, Fruits, Coffee/Tea

Madhu Pathak has raised money, on his own initiative, to supplement the banquet! Student members who pre-register for the banquet before July 16 will receive a \$10 subsidy. It's first come, first subsidized, until the money runs out. If there are sufficient funds remaining, we will then start subsidizing full members on the same basis. So sign up early, especially if you are a student member. Thank Madhu, not me.

-Thomas P. Coohill

## CALL FOR NOMINATIONS ASP RESEARCH AWARD

The ASP solicits nominations for the 1990 "ASP Research Award" which will consist of an inscribed plaque and a monetary award of \$1,000 to be presented to a scientist who has made recent significant contributions to photobiology. Any scientist who has conducted or directed the research on which the nomination is based in a clearly independent manner within a 10-year period prior to the nomination is eligible for the prize. Letters of nomination from at least two individuals, and a nominee's pertinent publications, should be submitted for each candidate. Nomination and requests for information should be directed to the ASP Secretariat (8000 Westpark Drive, Suite 400, McLean, VA 22102).

All material **MUST** be received in McLean **by no later than July 31, 1989.**

# Photobiology in Developing Nations

A round table discussion on "Photobiology in Developing Countries" was held at the 10th International Congress on Photobiology in Jerusalem, 30 Oct to 5 Nov 1988. Several participants described the situation in various countries. Others expressed views based on their exchanges with, and visits to, developing countries. Many problems in these countries are well known, such as lack of access to literature and new technological developments, lack of governmental support for science and travel, low salaries, lack of hard currency, and bureaucratization. In addition to these general problems each country has specific problems of different complexity and difficulty.

To help solve these and other problems, an effort is being made to organize local chapters of Association Internationale de Photobiologie (AIP) in each country. Local chapters

will link with, and channel help from, the international community. Activities of the local chapters will include organization of regional meetings, identification of research groups devoted to local photobiological problems, detection of special needs, dissemination of information on international funding, organization of rapid access to data banks, and organization of a lobby for the support of photobiology. Lack of contacts and even knowledge of the existence of groups doing similar research in the same country or region is another important problem in developing countries. The local chapters will also serve to strengthen communication among photobiologists in each country or region.

In the long term the creation of local chapters of AIP should strengthen the Association and serve all photobiologists. By supporting and maintaining a strong AIP consisting of local

chapters in developing and industrialized countries we will be able to better contribute to rational solutions to some of the major problems confronting humanity and to think about solutions adapted to the special needs of each area of the world.

The AIP has a sub-committee devoted to strengthen photobiology in developing countries, whose main effort will be to help create local chapters of AIP. If you, the photobiologist in the lab, at the desk, or in the field, have ideas, suggestions, or comments, please write to me and help AIP identify photobiologists and create chapters in each country.

—Silvia E. Braslavsky  
Vice-President of AIP  
Sub-committee on "Photobiology in Developing Countries"  
Max-Planck-Institut für Strahlenchemie  
4330 Mulheim a.d. Ruhr  
F.R.G.

## Mathies to Receive ASP Research Award

Professor Richard A. Mathies has been selected to receive the 1988 ASP Photobiology Research Award. The ASP Grants and Awards Committee, who selected him, recognized Dr. Mathies as "a creative and prolific scientist" who is an "internationally recognized leader and ... a key scientist in this area". His applications of Raman spectroscopy to the elucidation of visual pigment photochemistry have been recognized by the Committee as "significant recent contributions to photobiology". Watch for a more thorough description of Dr. Mathies research accomplishments early this summer in P&P.

Dr. Mathies is currently a Professor of Chemistry at the University of California, Berkeley, where he received his first faculty appointment 13 years ago. Congratulations to Professor Mathies and a round of thanks to the Grants and Awards Committee for an excellent selection.

## ROOMMATE SERVICE

Need a roommate to share expenses in Boston? Glen Zamansky is the person to contact. Glen will be compiling a list of people who would like to share rooms with either 1, 2 or 3 other photobiologists. He will not act as "matchmaker", but will simply supply all applicants with a list of individuals wishing to share a room. There is a significant financial incentive for sharing rooms. Rates are \$80 for either one or two people in a room, \$90 for 3, and \$100 for 4. If you are interested please send your name, address and telephone number to Glen Zamansky, Department of Microbiology, Boston Univ. School of Medicine, Boston, MA 02118. Indicate your gender, the dates that you will attend the meeting, the number of roommates you would like to have, and your preference for smoking or non-smoking. Glen needs to have the information by 31 May 1989.

## Two Photobiology Societies are Born

Two new photobiological societies have recently begun operations. Both have connections to photomedicine. The Society for Light Treatment and Biological Rhythms (SLTBR) will focus on various aspects of Seasonal Affective Disorder (SAD) and will include "clinicians and researchers working in the areas of light therapy and biological rhythms". The British Photodermatology Group (BPG) has been formed to act as a forum for all with experience or interest in clinical and investigative photodermatology, including molecular photophysics to clinical therapeutics.

The initial "SAD hoc" committee approved a slate of officers to preside over SLTBR for 2 years, headed by President Alfred J. Lewy. Two issues of a newsletter have appeared, and a one day meeting will be held in Bethesda, Maryland, on the summer solstice, June 21. It is noteworthy that the new society is trying to make use of computer networking to maintain contact among members, even going so

far as to hold "computerized committee meetings". It credits its rapid development to the ability to communicate rapidly via computer.

The inaugural meeting of the BPG was held as a satellite of the British Society for Investigative Dermatology in Manchester last autumn. Its primary aim is to promote active communication and collaboration between researchers whose expertise may contribute to increase understanding of mechanisms of cutaneous reactions to light, improve diagnosis, and optimize efficacy and safety of treatment. The first official meeting will be held in Cambridge, U.K. on July 7th. Membership is £ 5 (£ 2 under age 25) and should be sent to Neil Gibbs (address on page 7).

The establishment of the BPG and the SLTBR are further examples of the vitality of photobiology in modern science.

THE LIGHT AT THE END OF THE TUNNEL  
Positions Available

### RESEARCH SCIENTIST

Immediate opening for individual to identify and develop methods to inactivate viruses in cellular components of blood using photochemical techniques. Candidates must have a strong background in biochemistry, the physics of light transmission and measurement, and the kinetics of biological photochemical reactions. Experience in hematology and microbiology desirable. Opportunity to become part of results-oriented R&D team with expected academic and industrial collaboration. Salary \$28.5 - \$46.5 K based on experience. Submit resume to:

Jerry Roberts (G094)  
Personnel Office  
American Red Cross  
15601 Crabbs Branch Way  
Rockville, MD 20855

FYM\*

### Why ASP has a Secretary-Treasurer

Originally the Secretary and Treasurer were separate positions in the ASP until the day of an ill-fated airline flight. The President, Secretary, Treasurer and a boy scout were the only passengers on a plane which developed engine trouble. Unfortunately, there were only 3 parachutes on board. The President took the first chute and said, "I've the responsibility of leading the Society. I must save myself."

The Treasurer panicked at this point, grabbed a chute, desparately blurted out, "I'm the smartest man in the world. I must be saved," and, before anyone could do anything, jumped.

The boy scout then looked at the Secretary and said, "Well sir, I guess you're more important than me."

The Secretary smiled, handed the boy a parachute and replied, "Cheer up. The smartest man in the world just jumped out of the plane wearing your backpack!"

Ever since that day the Secretary has done the Treasurer's job in gratitude for his life.

The editor, the Secretariat, and the ASP assume no responsibility concerning the veracity of this claim.

• For Your Misinformation

## Announcements

### Photosensitization: Medical and Environmental Applications

Center for Photochemical Sciences  
May 1-3, 1989  
Toledo, Ohio

This 3-day, intensive course for physical, chemical, biological and medical scientists includes lectures, discussions and seminars on basic theory, experimental techniques and applications of the chemistry and biochemistry of photosensitization. Fee is \$250; students and postdocs \$75. Registration deadline is 15 April.

Contact: Center for Photochemical Sciences  
Short Course  
Bowling Green State University  
Bowling Green, OH 43403

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### Great Lakes Symposium on PDT

Med. Coll. of Ohio & Univ. of Toledo  
May 4-5, 1989  
Toledo, OH

The program is designed to promote collaboration among clinicians and investigators working in the field of photodynamic cancer therapy. Review and update of various aspects of PDT will be discussed. Tuition is \$50 for MD's and PhD's, \$20 for students, fellows, and other health professionals. Lecturers are distinguished academicians from throughout the US. Registration deadline is 22 April.

Contact: Office of Continuing Medical Education  
Medical College of Ohio  
C.S. 10008  
Toledo, OH 43699

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### British Photodermatology Group

First Meeting  
July 7, 1989  
Cambridge, U.K.

This afternoon meeting will comprise invited speakers and short oral communications. It will be a satellite to the British Association of Dermatologists annual meeting. Abstracts of 250-300 words may be submitted before June 7.

Contact: Neil K. Gibbs  
Photobiology Unit  
Dermatology Department  
Ninewells Hospital  
DUNDEE, DD1 9SY, U.K.

### Sunlight, Ultraviolet Radiation, and the Skin

NIH Consensus Development Conference  
May 8-10, 1989

Warren Grant Magnuson Clinical Center, Bethesda, MD

This conference will bring together dermatologists, photobiologists, immunologists, oncologists, epidemiologists, pharmaceutical scientists, and other health care professionals and the public to reach agreement on the most appropriate strategies for the prevention, and if possible, treatment of adverse effects of sunlight exposure and UV radiation on the skin. No registration fee.

Contact: Andrea Manning  
Prospect Associates  
Suite 500  
1801 Rockville Pike  
Rockville, MD 20852

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### 8th International Congress on Photosynthesis

August 6-11, 1989  
Stockholm, Sweden

This program consists of 23 different symposia as well as plenary talks by Barber, Cashmore, Cramer, Dutton, Edelman, Marcus, Michel, van Montagu, Sauer, and Sharkey.

Contact: Prof. M. Baltscheffsky  
Department of Biochemistry  
University of Stockholm, S-10691  
Stockholm, Sweden

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### Soc. Light Treatment & Biol. Rhythms

First Annual Meeting  
June 21, 1989  
Bethesda, MD

SLTBR will meet for a day of research presentations and committee forums at the National Institutes of Health. The morning session will feature members' research, while the afternoon will focus on SLTBR program development. Abstract deadline is 22 April.

Contact: Dr. Daniel Kripke  
V.A. Medical Center V116A  
3350 LaJolla Village Drive  
San Diego, CA 92161

## CALENDAR OF EVENTS

1989

- |            |   |               |  |
|------------|---|---------------|--|
| May 1-3    | Photosensitization: Medical and Environmental Applications – Toledo, OH [120]                                 | July 2-6      | XVIIth ASP Annual Meeting – Boston, MA [118, 120]                          |
| May 4-5    | Great Lakes Symp. on Photodynamic Cancer Therapy – Toledo, OH [120]   | July 2-7      | 19th Meeting Federation of European Biochemical Societies – Rome, Italy    |
| May 8-10   | Sunlight, UV Radiation, and the Skin – Bethesda, MD [120]   | July 7        | 1st Meeting: British Photodermatology Group – Cambridge, U.K. [120]        |
| May 14-19  | American Society for Microbiology – New Orleans, LA   | July 18-21    | Internat. Conf. on Lasers in the Life Sciences – Guangzhou, China [119]    |
| May 23-26  | IIIrd Internat. Symp. on Quantitative Luminescence Spectrometry in Biomedical Sciences – Ghent, Belgium [119] | July 30-Aug 5 | Summer School on Photochemistry – Spiez, Switzerland [119]                 |
| June 21    | Soc. for Light Treatment and Biological Rhythms – Bethesda, MD [120]  | Aug 6-11      | 8th Internat. Congress on Photosynthesis – Stockholm, Sweden [120]         |
| June 27-30 | Internat. Symp. on Photobiology and Biotechnology – Poznan, Poland [118]                                      | Aug 14-18     | Vith Internat. Conf. Energy and Electron Transfer – Prague, Czech. [119]   |
| July 1-2   | PDT of Neoplasia Workshop – Boston, MA [118]  | Aug 27-Sep 2  | European Society for Photobiology, 3rd Congress, – Budapest, Hungary [118] |

[ ]-Square brackets denote the Newsletter issue in which additional information may be found.

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### AMERICAN SOCIETY FOR PHOTOBIOLOGY

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