



# NEWSLETTER

Published by the American Society for Photobiology /

1340 Old Chain Bridge Road, Suite 300 / McLean, Virginia 22101 / (703) 790-1745

Editor: Thomas P. Coohill, Depts. of Biology & Physics  
Western Kentucky University, Bowling Green, KY 42101 tel:(502)745-6005/5991

No. 94 October 1985

ASP - Newsletter

## NEW INSTRUCTIONS FOR AUTHORS

PHOTOCHEMISTRY AND PHOTOBIOLOGY

An International Journal

Official Organ of the American Society for Photobiology

### Note for Authors

1. The Abstract should be at the front. The Abstract should contain no abbreviations that are not defined and no references that are not complete in the text. The Abstract may be published elsewhere and should stand by itself.
2. Tables should be typed on separate sheets of paper and should not be in the text.
- \*3. References should conform to our style on both the reference page and in the text. References at the end of the manuscript should be listed in alphabetical order on a separate sheet and should indicate the inclusive pages, with the full article titles. If there is more than one publication in the same year for the same author(s), the letters "a", "b", etc., should be added to the year. References should comply with the abbreviated title of the journal given in Chemical Abstracts (American Chemical Society). References in the text should include the last names of authors, followed by the year of publication in parentheses; the name of the first author followed by "et al." should be used for references involving more than two authors. Examples:  
In text: "the situation has been reviewed by Mohr et al. (1984)..." "the work of Creed and Caldwell (1985) is relevant..."  
On reference page: Mohr, H., H. Drumm-Herrel, and R. Oelmuller (1984) "Coaction of phytochrome and blue/UV light photoreceptors." In Blue Light Effects in Biological Systems. (Edited by H. Senger), pp. 6-19, Springer-Verlag, Berlin.  
Creed, D. and R.A. Caldwell (1985) Photochemical electron transfer reactions and exciplexes. *Photochem. Photobiol.* 41, 715-740.  
References listed at the end of the article should include only papers that have been published or accepted for publication (in press). Other work should be appropriately described in parentheses in the text. Examples:  
"It is believed that light exists as quanta (A. Einstein, personal communication), and our findings agree with this (A. Jones, unpublished). We have recently discovered that electrons have a negative charge (A. Jones and B. Smith, manuscripts submitted to Nature)."
4. All manuscripts should be double-spaced: one and one-half space does not leave room for editorial comments.
5. Hyphenation at the end of a line should be avoided; this is confusing to the printer.
6. Margins of at least one inch (2 1/2 cm) should be provided on all four sides of the paper (typing that goes to the very edge of the paper may be lost upon reproduction).
7. Figures and equations are referred to as "Fig. 1" and "Eq. 1" except at the beginning of a sentence, where these words are spelled out. All figure captions must be type-written on one or more continuation sheets.
8. All temperatures in Celsius are written in the form "18° C", but the degree sign is omitted for absolute temperatures (for example, "10 K"). In the ST system, "K" means degrees Kelvin. Also, note that "M" = "molar", and "mol" = "mole".
9. Abbreviations are not pluralized and are not followed by a period. Thus, one says "0.1 h" or "12 h", but "0.1 ohm" or "10 ohms".
10. We use the Systeme International (SI) of units, in which fluence and fluence rate are expressed as J/m<sup>2</sup> and W/m<sup>2</sup>, respectively, and the abbreviations for "hours, minutes, and seconds" are "h, min, and s". The Metric System is always used, and dimensions expressed in other units (because of manufacturers' specifications) should also be expressed in Metric: e.g. "a 1 inch (2.5 cm) column was used".
11. In describing radiation sources and detectors, precise models and quantified spectral information must be supplied. Radiometric, rather than or in addition to, photometric units should always be reported. Exposure conditions should be specified as to spectral fluence rate at the irradiated site and uncertainty of this measurement, estimated or measured stray

radiation, and spatial uniformity of fluence rate. Authors should consult the published list (Photochem. Photobiol. 25, 237, 1977) for terminology and symbols of ST units adopted by this Journal.

12. The terms "Type I" and "Type II" may be used to describe photosensitization mechanisms without further explanation only if they conform to the following definitions:

**Type I Photosensitization**

The initial reaction of the triplet state of the photosensitizer is with a key constituent of the system other than molecular oxygen.

**Type II Photosensitization**

The initial reaction of the triplet state of the photosensitizer is with molecular oxygen leading to the formation of singlet molecular oxygen.

Other photosensitization mechanisms should be specified by the author with appropriate equations or definitions and should not be described as Type I or Type II.

- \*13. For contributions to "Letters to the Editor" (rapid communications) section, instruction for the preparation of manuscripts and typing forms are available from the Editorial Office. Manuscripts describing major breakthroughs and/or research results meritorious for speedy publication may be contributed to this section of the Journal. It is anticipated that an editorial decision is made within two weeks after the receipt of such a manuscript.

- \* Note: Item 3 - now requires titles.  
Item 13 - letters to the editor are now solicited.

#### Positions Open

Postdoctoral Research Associate. Available Nov/Dec 1985. To study the photochemistry and photophysics of lens protein. Applicants should have a PhD in physical biochemistry or biochemistry. Experience desirable but not essential. Initial appointment for one year and may be renewed for an additional year. Salary range commensurate with qualifications and experience. Minimum \$18,000/annum. Send C.V. and three letters of recommendation to - Dr. B. Chakrabarti, Biophysics Laboratory, Eye Research Institute, 20 Staniford St., Boston, Mass. 02114.

ARS Postdoctoral Research Associate. A plant physiologist/biophysicist to conduct basic research on photochemical reactions that take place in photosystem II in higher plants and green algae. The problem of interest is an understanding of the relationship between structural heterogeneity of thylakoid membranes and heterogeneity in photosystem II observed as follows: functional antenna-pigment aggregation (optical cross section), kinetics of the rise in chlorophyll a fluorescence yield, connection of reaction centers to the quinone pool through Q<sub>b</sub>, and the occurrence of multiple quinone acceptors. Approaches are to be developed for altering plant material that result in significant changes in these measures of heterogeneity with the goal of establishing structure-function relationships.

Knowledge of (1) plant physiology; (2) light reactions of photosynthesis; (3) techniques of plant and algae growth and preparation of thylakoids and membrane fractions; (4) techniques for measuring: chlorophyll a fluorescence, oxygen evolution, fast-kinetic absorption changes, redox titrations, and electron-transport reactions.

This position is available for 1 year with probability of renewal for a second year. Salary is \$26,381 per year. Applicants must be U.S. citizens who have received a Ph.D. within the past 24 months. Send curriculum vitae and names of three references to: Dr. Paul Jursinic, Northern Regional Research Center, Agricultural Research Service, U.S. Department of Agriculture, 1815 N. University St., Peoria, IL 61604. USDA is an equal opportunity employer.

Postdoctoral Position - A postdoctoral position is available in the area of protein-lipid interaction. Emphasis is on the effects of the lytic proteins melittin and phospholipase A<sub>2</sub> on the dynamics and structure of phospholipids at the molecular level. Preference will be given to biophysicists/biochemists with experience in nanosecond and steady-state fluorometry and/or laser Raman spectroscopy. The appointment is for one year, renewable for one more year. The salary is negotiable and will be commensurate with experience. Starting date: December 1, 1985.

Interested candidates should send their resume and the names, addresses, and telephone numbers of two professional references as soon as possible to Professor Solon Georghiou, Dept. of Physics, The University of Tennessee, Knoxville, TN 37996-1200, USA. Tels. (615)-974-7829, (615)-974-7835.

Fellowship - A 1-2 year Fellowship for studies on photosensitization is available at the Wayne State University School of Medicine, Departments of Medicine and Pharmacology. The salary will be \$20,000 for the first year. For further details, contact Dr. David Kessel, Department of Medicine, Harper Hospital, Detroit MI 48201.

Position Wanted. Scientist with M.S. seeking a position in primarily laboratory or greenhouse oriented Plant Physiology research. Experience with dry matter production and nitrogen content of kleingrass and development of culture methods for use with *Arabidopsis thaliana*. Publications, references and transcripts available upon request. Contact - Susan E. Fender, NMSU, Box 3Q, Las Cruces, NM 88003, Tele:(505)-524-9289.

VIDEOTAPES NOW AVAILABLE OF SEVERAL KEY LECTURES PRESENTED  
AT THE NINTH INTERNATIONAL CONGRESS ON PHOTOBIOLOGY

Videotapes of several lectures presented last year at the Ninth International Congress on Photobiology are now available for loan or sale. ASP members are invited to borrow one or more of these videotapes for a period of one week at no charge other than the cost of mailing. Simply complete the attached order form. Time of availability of the tapes may be limited by demand, so please plan in advance, particularly if you wish to use these tapes in teaching. Tapes may also be purchased. Simply complete the form on the next page, and the tapes will be promptly mailed to you upon receipt of your order and check.

This videotape project was sponsored by the American Society for Photobiology, Assisted through the ASP Education Committee.

Meetings

1985

Nov. 3-6 International Society for Chronobiology XVII International Conference  
The University Conference Center of the Excelsior Hotel in Little Rock, Arkansas, USA. For details contact: Office of the Vice Chancellor for Academic Affairs and Sponsored Research, Slot 541, University of Arkansas for Medical Sciences, 4301 W. Markham, Little Rock, Arkansas 72205, USA. Telephone No. (501) 661-5689, Telex Number 910-722-7345.

Dec. 1-25 International Workshop - Organelles and Biomembranes. Venue: School of Biological Sciences, Madurai Kamaraj University, Madurai-625021, Tamil Nadu, India. Sponsored by: United Nations Educational Social and Cultural Organization, Asian Network of Biological Sciences, Department of Science and Technology - India, Office of International Cooperation and Development, United States Department of Agriculture. Focal Topics of the Workshop: Composition and Structure of Organelles, Fluorescent Measurement and Conformational Changes, Energy Production and Formation of Proton Gradient, Photochemical Reactions, Biogenesis of Organelles, Membrane Transport, Membrane Receptors. Contact: Dr. C. Rajamanickam or Dr. Salil Bose, Secretary, Workshop on Organelles and Biomembranes, School of Biological Sciences, Madurai Kamaraj University, Madurai 625021, Tamil Nadu, India.

Dec. 11-14 II International Symposium on Biomembranes: Structure, Biogenesis and Transport. Contact: Dr. C. Rajamanickam or Dr. Salil Bose, Secretary, Workshop on Organelles and Biomembranes, School of Biological Sciences, Madurai Kamaraj University, Madurai 625021, Tamil Nadu, India.

1986

Feb. 9-13 Biophysical Society 1986 Annual Meeting.  
Preliminary Program Notes:  
A. Symposia  
Solvent Structure and Solvation  
Biophysics of Transduction in Taste and  
Olfaction  
Protein Folding  
Molecular Biophysics of Sensory Phenomena  
Ultrastructure of Supramolecular Complexes  
New Dimensions in NMR

Organizer  
Peter Rossky  
  
S. Mierson  
R.L. Baldwin  
J. Nathans  
W. Hendrickson  
D. Wemmer

Chemistry and Molecular Biology of Transport  
Proteins

R. Kaback

B. Tutorial  
Transmitters in Visual Transduction

D. Baylor

Abstract deadline: October 15, 1985. To be held at the Brooks Hall/Civic Auditorium complex in downtown San Francisco. Contact: Biophysical Society Office, Emily M. Gray, Executive Assistant, 9650 Rockville Pike, Bethesda, Maryland 20814, (301) 493-6114.

Aug. 11-20

XXII International Horticultural Congress. The International Society for Horticultural Science, the American Society of Horticultural Science, and the American Horticultural Society invite all scientists engaged in horticultural research, teaching, and public service to attend the XXII International Horticultural Congress (IHC) in Davis, California, USA. Abstracts of all invited and contributed papers (oral and poster presentations) and program details will be published in a special section of HortScience in June 1986 and will be mailed to all those who register for the Congress. The full text of many invited papers presented at the Congress will be published in HortScience or Acta Horticulturae. Contributed papers from selected sessions may be published in Acta Horticulturae. Contact: XXII IHC (General), Congress Secretariat, Attn: Carolyn Norlyn, XXII International Horticultural Congress, Campus Events and Information Office, University of California, Davis, CA 95616 USA.

From the Biophysical Society

The Biophysical Society is pleased to announce a new award given by the Kenneth S. Cole Family for early recognition of an essential and outstanding advance in the field of Biophysics. The new award, the Elizabeth Roberts Cole Award, will be \$1,500 given annually for a term of fifteen years. The nomination form will be included in the 1986 Call for Papers.

This is the second award funded through the generosity of the Cole Family. The Kenneth S. Cole Award will continue to be given under the auspices of the Membrane Biophysics Subgroup of the Society.

New Book

Plant Leaf Optical Properties in Visible and Near-Infrared Light. 1985. H.W. Gausman. Graduate Studies, No. 29. 78 pp., \$10.00 paper, \$25.00 cloth. Texas Tech Press, Box 4240, Lubbock, TX 79409.

**AMERICAN SOCIETY FOR PHOTOBIOLOGY**

1340 Old Chain Bridge Road, Suite 300  
McLean, Virginia 22101

Non-Profit Org.  
U. S. POSTAGE  
**PAID**  
Bethesda, Md  
Permit No 45126