



NEWSLETTER

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

No. 90 May 1985

ASP - Newsletter



*To Maria Correa-Freire
With best wishes,*

Ronald Reagan

1985 National Synchrotron Light Source General Users Meeting - Brookhaven National Laboratory
May 23-24

The NSLS General Users Meeting is organized by the User Community and provides all users with the opportunity to interact with each other and with the NSLS staff. This meeting is also informative in providing users with the opportunity to become more familiar with the status of the VUV and X-ray Rings at the NSLS, research capabilities available to them, and the science that was performed at the NSLS during the past year. Other areas to be covered at this meeting include R&D programs for the future and the status of the NSLS Phase II construction project and its ramifications to users.

Presentations and poster sessions are scheduled by the PRTs and Users. The poster session will provide an opportunity for users to see the X-ray and UV beam line instrumentation and to learn of experimental results that have been obtained on the UV beam lines.

New Service - BPRC

Paul Todd is the director of a new Bioprocessing and Pharmaceutical Research Center (BPRC), a NASA sponsored center for research, service, and outreach in the fields of free-fluid biochemical purification technologies and living cell purification and analysis. For more information about the Center contact: Paul Todd, Ph.D., Director BPRC, 3401 Market Street, Philadelphia, PA 19104, (215)387-2255.

Dues Grants Available for Unemployed Members: Bodo Diehn

For the Grants and Awards Committee, I would like to remind our members that unemployed members may apply to the Committee, through the Secretariat, for a one-year waiver of Society membership dues.

Gordon Conference Reminders - New Hampshire

July 1-5	Chronobiology
July 29-Aug 2	Photosynthesis, Physicochemical Aspects
Aug 12-16	Radiation Chemistry of Macromolecules

Requests for applications to the Conferences, or for additional information, should be addressed to: Dr. Alexander M. Cruickshank, Director, Gordon Research Conferences, Gordon Research Center, University of Rhode Island, Kingston, Rhode Island 02881-0801, Tel: 401-783-4011 or 401-783-3372.

More on 1986 VII International Congress on Photosynthesis - Brown University, Providence, RI
Aug. 10-15

Symposia and discussions will be organized on the following topics:

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| 1. Excitation Energy Transfer | 14. Regulation of RuBP Carboxylase |
| 2. Primary Electron Transfer | 15. Photosynthesis and Crop Productivity |
| 3. Light Reactions - Model Systems | 16. Photosynthesis in Aquatic Environments |
| 4. Structure of Molecular Complexes | 17. Carbon Partitioning |
| 5. Quinol Oxidizing Complexes | 18. Stress and Photosynthesis |
| 6. Two Electron Gates | 19. Regulation of the Oxidative Photosynthetic Carbon Cycle |
| 7. Membrane Dynamics | 20. Translocators in C3 and C4 Metabolism |
| 8. Regulation of Electron Transport | 21. Isotope Fractionation |
| 9. Proton ATPase | 22. Molecular Development of the Photosynthetic Apparatus |
| 10. Electrochemical - Proton Gradients and ATP Synthesis | 23. Photoregulated Development of the Photosynthetic Apparatus |
| 11. Intermediates of Water Oxidation | 24. Biosynthesis of Chlorophyll and Chlorophyll-Proteins |
| 12. Protein Components and Ca in Oxygen Evolution | 25. Chloroplast Metabolism |
| 13. Photosystem II - Mn/Fe/Signal II | |

Further Information: Congress Secretariat: Dr. J. Biggins, Division of Biology and Medicine, Brown University, Providence, RI 02912, U.S.A. Tel: 401-863-2426, Telex 952095

THE FOUNDATION OF A EUROPEAN SOCIETY OF PHOTOBIOLOGY

Photobiologists from Austria, Belgium, Finland, France, Great Britain, Hungary, Italy, Netherlands, Norway, Sweden, Switzerland and West Germany, including officers of the Association Internationale de Photobiologie and the British, French and Italian photobiological societies, in a meeting in Mulheim a.d. Ruhr on February 8, 1985, have proposed that a EUROPEAN SOCIETY FOR PHOTOBIOLOGY (ESP) be founded, with the aim to

stimulate and facilitate the interchange of ideas and experiences between European (and other) investigators working in the various disciplines of photobiology.

ESP is to integrate the entire range of disciplines, such as bioluminescence, photomedicine, photomorphogenesis, photomovement, photosensitization, photosynthesis, radiation damage and repair, vision, etc. The adequate representation of these (and possibly other) disciplines within ESP shall take precedence over all other considerations. Besides its interdisciplinary goals ESP will also encourage specialized activities within individual disciplines such as the formation of subdivisions. ESP should meet a long-felt need among many European photobiologists to have their own forum, to assist in all kinds of organizational questions, and to represent European photobiologists on the international level. It is expected to closely interact with the national photobiological societies of Europe and elsewhere, as well as with other associations with (partial) interest in photobiology like, e.g., the European, Japanese, and Inter-American photochemistry associations. A particularly important aspect will be the maintaining of constant and constructive contacts with the American Society for Photobiology, most European members of which are hoped to enlist themselves also in ESP!

It is important in this respect that the officers of the above-mentioned organizations have welcomed the plan and assured the future ESP of their support and intent for close cooperation. This includes the presidents of the American Society for Photobiology (W. Shropshire, speaking on behalf of the Executive Committee of the Council) and of the European Photochemistry Association (F. Wilkinson), who had also been invited to assist the Mulheim meeting.

A Founding Committee (T.M.A.R. Dubbelman, Leiden, G. Jori, Padova, H. Senger, Marburg a.d. Lahn, K. Schaffner, Mulheim a.d. Ruhr) has been nominated. It is to draft a Constitution of ESP and to nominate a Scientific and Organization Committee for a FIRST EUROPEAN PHOTOBIOLOGY CONGRESS to be held in Grenoble in fall 1986. ESP shall be officially inaugurated on this occasion.

News from AIBS

Elections

President-Elect - Peter H. Raven
Council At-Large positions - Jane Kahle, Purdue University
 Orie Loucks, Butler University
Board of Directors - Donald Duckworth - President-Elect
 Paul Opler - Secretary-Treasurer
 Artie Browning
 Lynne Corn
 John Patrick Jordan
 Boyd Strain

1985 ASP ANNUAL MEETING - 23-27 JUNE - The Monteleone Hotel, New Orleans, LA

On Wednesday, 26 June, a Symposium on THE RHODOPSINS, organized by Laura Eisenstein, will be presented. The Symposium will be divided into two parts (morning and afternoon), and Wednesday afternoon's Lecture will be associated with it as well. The schedule for this program is as follows:

THE RHODOPSINS I

- 9:00 am THE STRUCTURE, FUNCTION AND TOPOGRAPHY OF VERTEBRATE RHODOPSIN. P. A. Hargrave
- 9:30 am SPECTROSCOPIC AND DIFFRACTION STUDIES OF BACTERIORHODOPSIN PROTEIN AND CHROMOPHORE STRUCTURES. B. A. Wallace
- 10:00 am THE HULA-TWIST MODEL (H.T.-n) FOR THE PRIMARY PROCESSES IN VISION AND BACTERIORHODOPSIN. R. S. H. Liu
- 10:30 am COFFEE BREAK
- 10:45 am TWO-PHOTON SPECTROSCOPY OF LOCKED-11-CIS RHODOPSIN. EVIDENCE FOR A PROTONATED SCHIFF BASE IN A NEUTRAL PROTEIN BINDING SITE. R. R. Birge
- 11:15 am DETERMINATION OF RETINAL CHROMOPHORE STRUCTURE IN BACTERIORHODOPSIN WITH RESONANCE RAMAN SPECTROSCOPY AND SOLID-STATE NMR. R. A. Mathies
- 11:45 am FOURIER TRANSFORM INFRARED STUDIES OF BACTERIORHODOPSIN AND RHODOPSIN. L. Eisenstein

LECTURE

- 2:00 pm STUDIES WITH RETINAL ANALOGUES. K. Nakanishi

THE RHODOPSINS II

- 3:00 pm CATION BINDING BY BACTERIORHODOPSIN. R. Govindjee
- 3:30 pm HALORHODOPSIN - A RETINAL PROTEIN WHICH FUNCTIONS AS A LIGHT-DRIVEN CHLORIDE PUMP. J. K. Lanyi
- 4:00 pm SPECTRAL FORMS AND PHOTOCHEMISTRY OF HALORHODOPSIN IN INTACT CELLS. IS 578 NM SPECIES THE CHLORIDE PUMP? R. Bogomolni
- 4:30 pm COFFEE BREAK
- 4:45 pm BACTERIAL SENSORY RHODOPSIN (SR). J. L. Spudich
- 5:15 pm THE ROLE OF RHODOPSIN IN CHLAMYDOMONAS. K. W. Foster

NOTE FROM THE SECRETARIAT: Do plan to join us for the Society's 13th Annual Meeting. All indicators point towards its being both an informative and enjoyable meeting. Note the first page of the April Newsletter -- New Orleans' average temperature for June is 81°. That's a lot more comfortable than Washington, DC weather is in June, and New Orleans is a lot more fun!

AMERICAN SOCIETY FOR PHOTOBIOLOGY

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

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