

**FOURTH INTERNATIONAL LUMINESCENCE CONFERENCE,
SZEGED, 24—27 AUGUST, 1982**

This Conference is organized at three-yearly intervals; separate sections deal with the biological applications of luminescence. This year the following lectures were delivered on this subject:

LEUPOLD, D., WIESNER, B., EHLERT, J., MORY, S. and VOIGT, B.: Properties of excited states of chlorophyll-a in solution.

PASCHENKO, V. Z.: Pulse fluorometry of energy migration processes in higher plant chloroplasts.
KONONENKO, A. A., KNOX, P. P., VENEDIKTOV, P. S., GARAB, Gy. J. and FALUDI-DÁNIEL, A.: Electric polarization and thermoluminescence of chloroplasts.

NÉMET, B., VARGA, É. and KOZMA, L.: Quantitative analysis of very small amounts of biological and chemical materials with pulsed laser fluorimeter.

VASS, I.: Connection of thermoluminescence and phase transitions in chloroplasts.

DEMETER, S. and VASS, I.: Isokinetic relationship between the activation energy and entropy in the thermoluminescence of herbicide-treated chloroplasts.

MENDE, D., MARÓTI, P. and WIESSNER, W.: Comparative studies on fast cytochrome reaction in microalgae induced by laser excitation.

DRABENT, R., LACZKÓ, G., MIELOSZYK, J., SIÓDIAK, J. and BYSTRA, K.: The fluorescent complex formed by flavomononucleotide in polymer matrix.

GRABOWSKI, J. and ZILINSKAS, B.: The determination of absorption spectra of two kinds of chromophoric groups in phycoerythrin aggregates with the use of measured polarized fluorescence excitation spectra.

VACEK, K. and PANCOSKA, P.: Fluorescence study of pigment-protein interactions in photosyn thesis.

KOWALCZKY, A. A., KNUTSON, R., BARKLEY, M. D., CHRISTY, R. and BRAND, L.: Anisotropic rotations of perylene in liposomes.

GANAGO, A. O., GARAB, Gy. and FALUDI-DÁNIEL, A.: Polarized luminescence of chloroplasts and sub-chloroplast preparations oriented in polyacrylamid gel.

KAPLANOVÁ, M. and PARMA, L.: Study of fluorescence decay of chlorophyll-a in model systems.

Extended abstracts of the lectures were published on pages 111—195 of the Conference Digest.

L. SZALAY