

New members of the Editorial Board



Prof. Leszek Stoch

Professor at the University of Mining and Metallurgy, Cracow, Poland

Leszek Stoch was born 6 June, 1931 in Bobowa, Nowy Sacz province, Poland.

Education: 1955 – M. Sc. in chemistry and ceramics, with specialization in glass science and technology, University of Mining and Metallurgy, Cracow. 1960 – Ph. D. in mineralogy, University of Mining and Metallurgy, Cracow. 1966 – Habilitation (qualification as Assistant Professor) in glass science, University of Mining and Metallurgy, Cracow. 1976 – Full professorship at the University of Mining and Metallurgy, Cracow.

Employment: Institute of Geology and Mineral Raw Materials, University of Mining and Metallurgy, Cracow (1951–1966 Assistant, 1966–1976 Assistant Professor, 1976–1980 Professor, Deputy Director). Faculty of Materials Science and Ceramics, University of Mining and Metallurgy, Cracow (Professor, Head of Department of Glass and Enamels 1980–. Dean of Faculty 1984–1990).

Main fields of scientific activity: Mineralogy and technology of clays, physico-chemistry of mineral-forming processes, properties and uses of ceramic raw materials, theory of vitreous state of matter, structure and properties of multicomponent mixed-network glasses, phase transitions in glasses, bioactive glass-ceramic materials for medicine, materials in environment protection, mineralogy and chemistry of industrial wastes and their utilization in the manufacturing of glass, ceramic and building materials.

Activity in thermal analysis and thermochemistry: In Poland he was a pioneer of thermal analysis and its applications, first in the investigations of minerals and later in inorganic material examination. For these purposes he

constructed DTA equipment used in many laboratories before professional apparatus produced on a commercial scale appeared on the market. The monograph "Physico-chemical fundamentals of thermal analysis", published in Cracow in 1967, was for a long time the basic handbook of thermal analysis. To make the thermal methods more widely known, he organized several national scientific conferences. A recent one was the Vth Conference on Calorimetry and Thermal Analysis, in Zakopane in 1991 (see *J. Thermal Anal.*, 1992, special issue).

He is an active supporter of international cooperation in the field of thermal analysis and thermochemistry between Eastern Europe and Western Europe. He has presented papers at many ESTAC Meeting and ICTA Congresses.

His current subjects of interest include structural aspects of the thermochemistry of solids and the significance of crystallochemical factors in solid-state thermal reactions (structural thermochemistry of solids).

He has distinguished a group of solid-state thermal processes governed especially by these factors and termed them internal or intra-framework processes (*J. Thermal Anal.*, 29 (1984) 1919 and 32 (1987) 1651).

He drew attention to the fact that the progress of internal thermal dissociation may assume an explosive character (*J. Thermal Anal.*, 37 (1991) 1451). He proposed a model of internal dissociation which explains this phenomenon as well as other specific features of internal dissociation (*Thermochim. Acta*, 203 (1992) 259).

The thermal amorphization of solids and the multistage crystallization of amorphous bodies as a path to thermodynamic stability state are the subjects of his latest works (*J. Thermal Anal.*, 38 (1992) 131 and the issue dedicated to Prof. Heller-Kallay).

Internal thermal processes were the subject of a workshop at the ICTA Congress in Hatfield in 1992. At present they have become the subject of interest of a group of scientists from the Committee for Thermal Analysis in Geoscience (GEOICTA).

Publications: Number of papers: 190. Books and monographs: 1. "Clay Minerals", Geological Press, Warsaw, 1974, 2. "Physico-Chemical Fundamentals of Thermal Analysis", Ossolineum, Wroclaw, 1967; as co-author: "Thermal Analysis" in "Methods of Mineral and Rock Investigations" (A. Bolewski, W. Zabinski, eds.), Geological Press, Warsaw, 1979 and 1988).

Membership of Scientific Societies: Polish Society of Calorimetry and Thermal Analysis (President since 1991). Polish Ceramic Society (Organizer, and President since 1988). Polish Mineralogical Society (Member of Council since 1980). International Confederation for Thermal Analysis and Calorimetry (Member of Council since 1992). European Ceramic Society (Member of Council since 1992).

Professor Stoch was awarded E. Bozicki's Medal by the Faculty of Geology of Prague University for his contributions to clay science, clay mineral investigations and the development of international scientific cooperation.



Prof. Etienne Karmazsin

*Professor of the Energy Technology
Department at Asian Institute of
Technology of Bangkok, Thailand*

Etienne Karmazsin was born on 22 June, 1942 in Marié, France.

Until 1993 he worked as a Titular Professor at the University Claude Bernard Lyon 1. He also worked for the Institute of Engineering Sciences and Technological Development as well. He was also engaged in applied chemistry and chemical engineering in material sciences and energetics.

In 1993 he joined the French Government Foreign Office in the Asian Institute of Technology of Bangkok as Chairman and Senior Professor at the Head of the Energy Technology Department.

Professor Karmazsin's professional involvement outside the university includes the memberships in the Conseil Superior des Universities (1984–87), the AFCAT Council (French Association of Calorimetry and Thermal Analysis), the ICTAC Council (International Confederation for Thermal Analysis and Calorimetry), the EDF (Electricité de France) Radiation Group, the microwave ARC (Concerted Research Action) group of the PIRSEM (Interdisciplinary Program for Sciences on Energy and Materials), the SIA (Automobile Engineers Society) and the ARESAD (Associations for Thinking of Sciences Applied to Defence).

He is on the Editorial Advisory Board of the following international journals: *J. Thermal Analysis*, the *AFCAT Bulletin* and the proceedings of *ESTAC-5* (European Symposium on Thermal Analysis and Calorimetry). He is also Guest Editor of the proceedings of *J. MED. C.A.T. 93* (*Journées Méditerranéennes de Calorimétrie et d'Analyse Thermique 1993*).

He also serves as the representative of the ICTAC of the SFC (French Chemical Society) and SFT (French Thermiciens Society). He is in charge of the International Collaborations of the Lyon 1 University with the East-European countries.

In the frame of ISIDT (Institute of Engineering Sciences and Technological Development) his main field of teaching at the University Claude Bernard Lyon 1. has included:

- Electrotechnics
- Photovoltaic and thermal solar energy
- Solar engineering of thermal and photovoltaic processes
- Geothermic and Aeolian energies

- Building materials elaboration
- Thermal processes with conventional heat and energetic microwave devices

- Thermal analysis and scientific instrumentation engineering

In the frame of IUT of Lyon (Technological University Institute) he was teaching:

- Thermodynamics and heat transfers
- Electrical engineering, electrotechnics
- Measurement of physical data, captors, analytical instrumentation

He has always had a strong interest in chemical education, promotion of chemistry, and international relations. He was involved in the following collaborations:

- Japan, Osaka University: Thermal Analysis
- INDIA (CSIR Council of Scientific Industrial Research): Thermodynamics and phase transformations under energetic microwaves.
- EUROPE: Member of COST 218 (European Cooperation on the field of Scientific and Technical Research): 'Material science and reliability of optical fibers and cables'.
- ROMANIA: Tempus program JEP 2820-91/2: Oxidic materials.
- HUNGARIAN ACADEMY OF SCIENCES: thermodynamics and heterogen kinetics of chlorination processes.
- Thermodynamics and solar engineering in thermal processes

He has gained international recognition for his research in: chemical reactivity and phase transitions under energetic HF currents and microwaves. Thermodynamic and kinetic studies, material science and material elaboration under energetic HF electrical field and microwaves, heat transfers and thermal processes studies under conventional, HF and microwave heating, solar engineering of thermal and photovoltaic processes and thermodynamics, thermal analysis and characterization.

He has authored or co-authored 55 publications in international periodicals. He took part in 63 international symposiums. He has generated 8 patents (among others 2 heating devices) and directed 7 Ph. D. theses.

Furthermore, he has gained experiences in industry as well, he spent 3 months at the Leroy Sommer 'France photon' section where photovoltaic solar energy was developed. Later he spent 6 months at the SAIREM Society (Society for Industrial Applications of Radiofrequency and Microwave Energies). These experiences resulted in 15 important industrial contracts: SAINT GO-BAIN, CROUZET, AEROSPATIALE, Chatillon, AEROSPATIALE les Mureaux, SEXTANT AVIONIQUE, CNET Lanion (Telecom).

*The Editors and the Publishers take pleasure in welcoming
Professor L. Stoch and Prof. E. Karmazsin as new members of the Editorial
Advisory Board of our Journal.*