Brief Curriculum Vitae

Professor Stanisław Kielich

(1925-1993)

Born: 10 November 1925, Czempiń, Poland

1955, Graduated in Physics from Uniwersytet Poznański1961, PhD in Physics (Supervisor A. Piekara)1964, Habilitation1971, Extraordinary professor		
		y professor
		r of the Polish Academy of Sciences
Assistant - Department of Dielectrics, Institute of Physics of the Polish		
Academy of Sciences, Poznań		
Adjunct (than docent) - Department of Dielectrics, Institute of Physics of the		
Polish Academy of Sciences, Poznań		
Head of the Department of Molecular Physics, Adam Mickiewicz University,		
Poznań		
Director of the Institute of Physics, Adam Mickiewicz University,		
Poznań		
Invited Professor, University of Bordeaux, France.		
Head of the Nonlinear Optics Division, Adam Mickiewicz University, Poznań		

He had more than twenty PhD students. Four of his students are University Professors now.

Professor Stanisław Kielich authored more than three hundred scientific papers. He is considered to be one of the founders and leading experts in nonlinear optics, with forty years of continuous research work in the subject.

Books:

- 1. Molecular Nonlinear Optics, PWN, Warsaw-Poznań, 1977 (Russian translation, Nauka, Moscow, 1981)
- 2. Laser-Molecule Interaction: Laser Physics and Molecular Nonlinear Optics (with J. R. Lalanne and ADucasse) (Wiley, 1996)
- 2. Co-editor (with Myron Evans) of the three volumes of **Modern Nonlinear Optics** (Wiley, New York, 1993)

Selected awards:

- 1. Marian Smoluchowski Medal (1983)
- 2. Cross of Merit (1976, 1983)

Member of the Editorial Board of:

- 1. Journal of Raman Spectroscopy since 1973.
- 2. Le Journal de Physique (1980-1983).
- 3. Optica Acta (1982-1985)
- 4. Quantum Optics (since 1993)

Main subjects of his research activity

- 1. Statistical molecular theories of electric, magnetic, and optical saturation (with A. Piekara).
- 2. Statistical-molecular theory of light scattering in simple fluids and multi-component mixtures, taking into account collision-induced changes in polarizability and hyperpolarizability.
- 3. New methods of Cartesian tensor approach to intermolecular multipolar interactions in electro-optical and magneto-optical phenomena. Optical activity.
- 4. Multi-photon light scattering. Cooperative hyper-Rayleigh light scattering (theory and experiment in cooperation with J.R. Lalanne in Bordeaux).
- 5. Nonlinear spectroscopy of macromolecular and colloidal systems. Langevin-Kielich functions.
- 6. Theoretical work in quantum-optics. Photon anti-bunching and squeezed states of the electromagnetic field.