



Professor
Stanisław Kielich
(1925–1993)

Brief Curriculum Vitae

Born: 10 November 1925, Czempień

Academic degrees

1955, Graduated in Physics from Uniwersytet Poznański

1962, PhD in Physics (Supervisor Arkadiusz Piekara)

1964, Habilitation

1971, Extraordinary Professor

1976, Ordinary Professor

1983, Corresponding Member of the Polish Academy of Sciences

Professional career

1955–1959, Assistant — Dielectrics Division, Institute of Physics, Polish Academy of Sciences

1959–1962, Adjunct — Dielectrics Division, Institute of Physics, Polish Academy of Sciences

1962–1964, Head of Laboratory of Dielectric Optics, Institute of Physics, Polish Academy of Sciences

1964–1966, Docent, Adam Mickiewicz University

1966-1969, Head of Department of Molecular Physics, AMU

1969-1975, Director of the Institute of Physics, AMU

1970-1971, Invited Professor, University of Bordeaux

1973-1993, Head of Nonlinear Optics Division, AMU

Professor Stanisław Kielich had more than 20 PhD students, 3 of them are ordinary professors now. He authored or co-authored about 300 publications. He is considered to be one of the founders and leading experts in molecular nonlinear optics.

Books

- Molekularna Optyka Nieliniowa (PWN, Warszawa, 1977);
Russian translation (Nauka, Moskwa, 1981)
- Laser-Molecule Interaction: Laser Physics and Molecular Nonlinear Optics (with J.R. Lalanne and A. Ducasse) (Wiley, 1996)
- Co-editor (with Myron Evans) of the three volumes of Modern Nonlinear Optics (Wiley, New York, 1993)

Selected awards

Ministry awards — several times

City of Poznań Award (1969)

National Education Medal

Golden Cross of Merit

Order of Polonia Restituta, Knight's Cross (1976)

Order of Polonia Restituta, Officer's Cross (1983)

Marian Smoluchowski Medal (1993)

Member of the Editorial Boards

Journal of Raman Spectroscopy (since 1973)

Le Journal de Physique (1980–1983)

Optica Acta (1982–1985)

Quatum Optics (1993)

Main subjects of research

- Statistical molecular theories of electric, magnetic, and optical saturation (1956–1959, with A. Piekara, A. Chełkowski). First results for absolute change of refractive index in strong optical fields (before lasers were operating!)
- Statistical molecular theory of light scattering in simple fluids and multi-component mixtures, taking into account collision-induced changes in polarizability and hyperpolarizability
- Extension of Cartesian tensor approach to intermolecular multipolar interactions in electro-optical and magneto-optical phenomena.
- Multi-photon light scattering. Cooperative hyper-Rayleigh light scattering, experiment with J.R. Lalanne and F.B. Martin

(1971).

- Nonlinear spectroscopy of macromolecular and colloidal systems (Langevin-Kielich functions)
- Quantum optics, photon anti-bunching and squeezed states of the electromagnetic fields.



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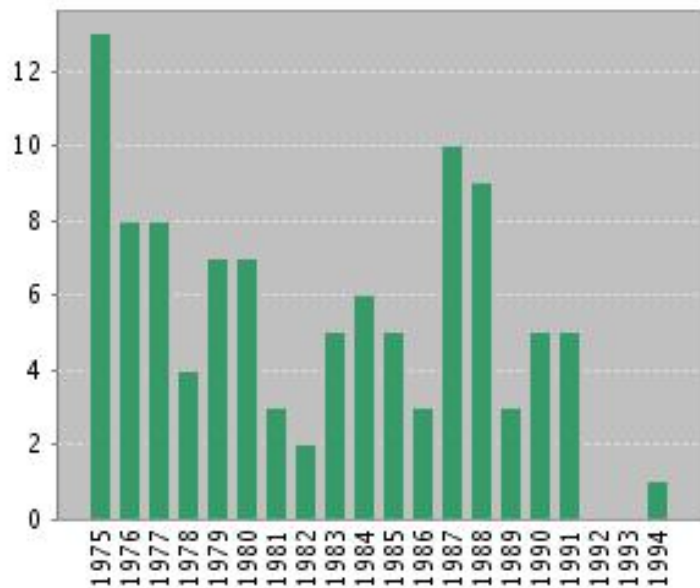
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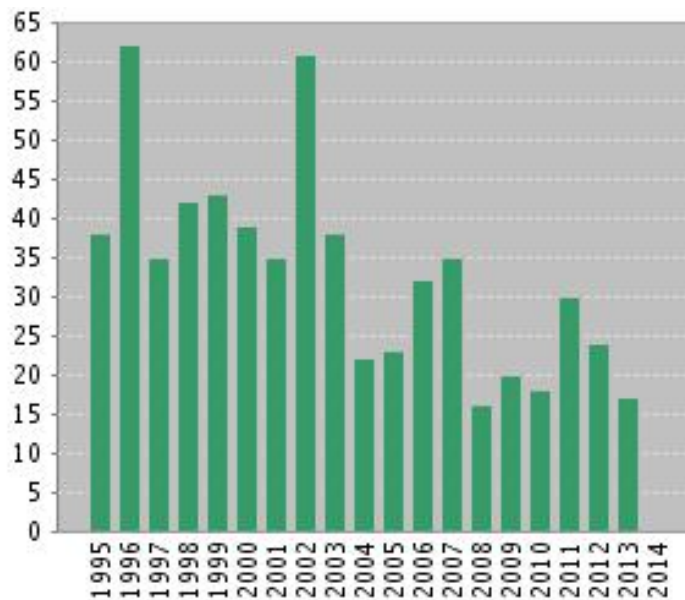
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Few pictures



Department of Molecular Physics



Nonlinear Optics Division



Conference in France

Memory

- In year 2001, the Junior-High School (Gymnasium) in Czempień (now in Borowo near Czempień) took the name — the Stanisław Kielich Gymnasium.
- On September 20, 2013, the Faculty of Physics Council took a decision to name one of the lecture halls — the Stanisław Kielich Auditorium.