

# Sándor Kugler

## Curriculum Vitae

### Education:

Candidate of Physics, (PhD) 1992  
Doctor Univ. ELTE, Budapest, 1978  
Diploma in Physics, ELTE, Budapest, 1974

### Employment:

Budapest University of Technology and Economics (formerly: Technical Univ. of Budapest) since 1974

(Research Associate, Quantum Theory Group, Institute of Physics, 1974-93.

Associate Professor, since 1994.)

Head of Quantum Theory Group, 1993-1995.

Vice-Head of Department of Theoretical Physics, since 1995.

### Honors:

Széchenyi Professorship 1998

Guest Professor at the Tokyo Polytechnic University (formerly: Tokyo Institute of Polytechnics) 2000-2013

Széchenyi István Grant 2003

### Editorship:

Overseas Editor of Japanese Journal of Applied Physics (since 2003)

Editor of Journal of Optoelectronic and Adv. Materials - Symposia (2009-2011)

### Conference Chairmanship:

Co-chairman of 19th International Conference of Amorphous and Microcrystalline Semiconductors, Budapest 1997

Chairman of 4th International Conference on Optical, Optoelectronic and Photonic Materials and Applications Budapest 2010

### Visiting Positions:

From 1st of February, one year, ISSP, University of Tokyo, Japan

In 1999, two months at the Gifu University, Japan

In 2010 six weeks at the Philipps University, Marburg, Germany

### Area of Expertise:

Liquid crystals (1974-1981),

Surface science, SIMS measurements (1981-1985).

Since 1986: Disordered Semiconductors. Structure and electronic structure. Neutron diffraction.

Computer simulation of disordered structures. Photoinduced changes in chalcogenide glasses.

### Graduate students:

Krisztina Kádas (1993)

Krisztián Koháry (1998)

Zoltán Várallyay (2001)

József Hegedüs (2003)

**PhD students:**

Krisztina Kádas, *Research Institute for Solid State Physics and Optics, Budapest (1996, summa cum laude)*

Krisztian Koháry, *postdoc at the Department of Materials, Oxford University, UK, (2001, summa cum laude)*

József Hegedüs, *Marie Curie postdoc fellow at the Department of Chemistry, University of Cambridge, UK, (EGC 2006, summa cum laude)*

Rozália Lukács (2010) *postdoc at the Centre for Integrative Genetics, Dept. of Mathematical Sciences and Technology, Norwegian University of Life Sciences*

Local tutor of Miklós Veres, *Research Institute for Solid State Physics and Optics (Budapest) (2005, summa cum laude)*

Local tutor of Szilvia Pothoczki, *Research Institute for Solid State Physics and Optics (Budapest 2009, summa cum laude)*

Local tutor of Alex Szakal, *Research Institute for Solid State Physics and Optics (current)*

**Postdoc:**

Krisztina Kádas (*Magyary Zoltán postdoc grant*)

**Awarded students:**

Krisztina Kádas (Ferenczi György memorial award, 1996)

Krisztián Koháry (Ferenczi György memorial award, 2001, and

1st place for scientific publications in natural sciences among Hungarian PhD students, 2001)

József Hegedüs (Ferenczi György memorial award, 2005)

**External Funding (current):**

The Royal Society, *International Exchanges 2012/R3, ref: IE121398 (2013-2015)*

**Professional Service:**

Referee for *Phys. Rev. Letters, Physical Review A, Physical Review B, J. Non-Cryst. Solids, J. Physics; Condens. Matter, Phil. Mag. Letters and some others.*

Guest Editor, *J. Non-Cryst. Solids (Vol. 227-230, 1998, Guest Editors: S. Kugler and M. Stutzmann)*

Guest Editor, *Phys. Status Solidi C (Vol. 8, No. 9, 2011, Guest Editors: S. Kugler and S. Kökényesi)*

Member of *International Advisory Committee of Int. Conf. on Amorphous and Microcrystalline Semiconductors, since 1996*

Member of *International Organizing and Advisory Committee of Int. Conf. on Optical, Optoelectronic and Photonic Materials and Applications, since 2007*

Secretary of *Habilitation Board and Doctoral Counsel for Engineer-Physicist (Budapest University of Technology and Economics).*

**Book translation**

*Solymar: Lectures on Electromagnetic Theory (Oxford University Press, 1976) --->*

*---> Elektromágneses Térelmélet és Alkalmazásai (Műszaki Könyvkiadó, 1980)*

**Personal:**

Married, two children

**Hobby:**

Classical and Folk Music. Active double-bass player.

President of *Partitúra Music Foundation*