

## CURRICULUM VITAE

**NAME** István Furó  
**DATE OF BIRTH** 19 April 1960

### UNIVERSITY EDUCATION

1983 – 1986 Ph D studies at the Central Research Institute for Physics, Budapest. PhD degree in Biophysics from the L. Eötvös University of Science, 1987.  
1978 – 1983 Undergraduate studies in Physics, L. Eötvös University of Science, Budapest.

### POSTDOCTORAL POSITIONS

1987-1988 Postdoctoral fellowship from the Natural Science Research Council NFR. Research at the Department of Physical Chemistry 1, Chemical Center, Lund University.  
1987, 1989 Research fellow at the Solid State Institute of the Central Research Institute for Physics, Budapest.

### CURRENT AND PREVIOUS ACADEMIC POSITIONS

2006-01-01 Professor in Physical Chemistry, Royal Institute of Technology KTH, Stockholm. Research currently in approximately 50 % of time.  
2003 Visiting Scientist at the MacDiarmid Institute of Advanced Materials and Nanotechnology, Victoria University of Wellington, Wellington, New Zealand.  
2001 Guest Professor (Professeur Invité) at the Laboratoire de Physico-chimie Macromoléculaire, Ecole Supérieure de Physique et de Chimie Industrielles, Paris, France.  
1995 Guest Professor (Professeur Invité) at the Laboratoire de Méthodologie RMN, Université Henri Poincaré, Nancy, France.  
1994-2005 Associate Professor at the Division of Physical Chemistry, Department of Chemistry, Royal Institute of Technology KTH, Stockholm.  
1990-1994 Assistant Professor at the Department of Physical Chemistry 1, Chemical Center, Lund University.

### RESEARCH AND RESEARCH SUPERVISION

Ruslan Sitnikov (PhD 2000) “*Nuclear Magnetic Relaxation in Micellar Solutions and Lyotropic Liquid Crystals*”.  
Niklas Hedin (PhD 2000) “*NMR Studies of Complex Fluids and Solids Formed by Surfactants*”.  
Erik Thyboll Pettersson (PhD, 2005) “*Charged Colloids Observed by Electrophoretic and Diffusion NMR*”.  
Pavel V. Yushmanov (PhD 2006) “*NMR Studies of Colloidal Systems In and Out of Equilibrium*”.  
Lars Nordstierna (PhD, 2006) “*Molecular Association Studied by NMR Spectroscopy*”.

Dulce Vargas Florencia (PhD, 2006) *“Phase Transitions in Porous Systems as Observed by NMR Spectroscopy”*.

Carina Dahlberg (PhD, 2010) *“Drugs and Polymers in Dissolving Solid Dispersions: NMR Imaging and Spectroscopy”*.

Fredrik Hallberg (PhD, 2010) *“Molecular Interactions Studied by Electrophoretic and Diffusion NMR”*.

Anton Frise (PhD, 2011) *“Nano-Segregated Soft Materials Observed by NMR Spectroscopy”*.

Marianne Giesecke (PhD, 2014) *“Characterizing Ions in Solution by NMR Methods”*.

Ricardo M. Ferrieria Fernandes (PhD, 2015) *“Dispersing Carbon Nanotubes. Towards Molecular Understanding”*.

Erik Lindh (PhD, 2017) *“Cellulose-Water Interaction: A Spectroscopic Study”*.

Yuan Fang (PhD, 2017) *“Ions Interacting with Macromolecules”*.

Fredrik Elwinger (PhD, 2017) *“Characterizing Chromatography Media: NMR-based Approaches”*

Jing Dai (PhD, 2018) *“Adsorption, Aggregation and Phase Separation in Colloidal Systems”*

Postdoctoral researchers: Sergey V. Dvinskikh (1999-2001), Rustem Valiullin (2000-2002), Oleg V. Petrov (2003-2005), Alexander Sagidullin (2006-2008), Kosma Szutkowski (2007-2008), Yanbo Hou (2009-2011), Guilhem Pages (2010-2011), Michal Bielejewski (2011-2012), Camilla Terenzi (2011-2014). Evgeny Morozov (2015-2016), Yuan Fang (2020-).

Published ca 180 papers in peer-reviewed journals. Current research interest is developing and applying new NMR methods to a variety of heterogeneous materials. Particular interest in nanocarbon dispersions, the behaviour of ions in both solutions and solid materials, water in cellulosic materials and various molecular phenomena in porous materials

## **MAIN TEACHING ASSIGNMENTS**

1994-2008 Main lecturer at master course "NMR spectroscopy".

2004-2008 Main lecturer at the undergraduate course "Concepts of Chemistry".

1996-current Main lecturer at master course "Quantum chemistry".

2011- Main lecturer at the master course “Molecular thermodynamics” and at the undergraduate course "Molecular structure".

## **MAIN ADMINISTRATIVE DUTIES AND COMMISSIONS OF TRUST**

Study Director at the Department of Chemistry, KTH (2000-2006). Director of Undergraduate and Master Studies, School of Chemical Science and Engineering, KTH, 2007-2011. Head of the Division of Applied Physical Chemistry, Department of Chemistry, 2014-2018. Head of the Department of Chemistry, 2018-. Member of various organs associated with university and faculty leadership (KTH, 2002-present).

Member of the Swedish Research Council (VR) evaluation committee for Physical and Theoretical Chemistry (several years since 2003). Section Editor for Current Opinion in Colloid

and Interface Science (until 2015), on the editorial board of Concepts in Magnetic Resonance A (2008-2011). Editor for the Royal Society of Chemistry book series “*New Developments in NMR*”. On the board of the EcoBuild Institute Excellence Center, 2005-2009.

### **MAIN INDUSTRIAL COLLABORATIONS**

Extensive industrial collaboration with a number of major (such as Novartis, PepsiCo, Unilever, GE Healthcare) and minor companies.

Principal Scientist, GE Healthcare (between 25% and 50%, 2018-2020).