

LENDVAY GYÖRGY CURRICULUM VITAE



Born	1955, Nagykanizsa (Hungary)
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STUDIES AND POSITIONS

1980	diploma in chemistry (with honors), József Attila University, Szeged, Hungary
1980 – 1985	junior research fellow, Central Research Institute for Chemistry, Hungarian Academy of Sciences, Budapest, Hungary
1985	dr. univ. , József Attila University, "Summa cum Laude"
1986 – 1993	research fellow, Central Research Institute for Chemistry, Hungarian Academy of Sciences, Budapest, Hungary
1989 – 1991	postdoctoral fellow, Northwestern University, USA (with Prof. G. C. Schatz)
1993	C. Sc. in chemistry
1993 – 2003	senior research fellow, Central Research Institute for Chemistry, Hungarian Academy of Sciences Budapest
1996 – 2001	research group leader, CRIC Theoretical Chemistry Group
1996	visiting professor, Department of Chemistry, University of Perugia, Italy (1 month)
1997	visiting professor, Department of Theoretical Chemistry, University of Bielefeld, Germany (3 months)
2003	Doctor of the Hungarian Academy of Sciences (chemistry)
2003 –	research advisor, Chemical Research Center, later Research Centre for Natural Sciences, Hungarian Academy of Sciences
2003 – 2012	associate professor, Department of General and Inorganic Chemistry, University of Veszprém, currently University of Pannonia
2012 –	full professor, Department of General and Inorganic Chemistry, University of Pannonia
2014	visiting professor, University of Brest, France (1 month)

RESEARCH INTEREST

- theory of the kinetics and dynamics of elementary chemical reactions
- quasiclassical trajectory calculations on reactive collisions of small molecules
- classical trajectory simulation of collisional energy transfer
- characterization of reactive systems using ab initio bond order and valence indices
- calculation of potential energy surfaces using high-level ab initio methods
- calculation of rate coefficients of elementary reactions using reaction dynamical methods and with transition state theory
- determination of mechanisms of chemical reactions using quantum chemical methods
- code development for simulation of molecular collisions on parallel computers
- calculation of the structure, electronic structure and electronic spectra of transition-metal complexes

PROJECTS

1993 – 1997	COST Chemistry D3 (Theory and Modelling of Chemical Systems), participant
1993 – 1996	OTKA project No. T 7428, PI
1994 – 1995	Israeli-Hungarian S&T Program project No. 4, PI
1995 – 1997	US-Hungarian Joint Fund, grant No. 411, PI
1995 – 1998	OTKA project No. T 15819, PI
1997 – 1999	French-Hungarian Intergovernmental S&T Program project No. 13, PI
1997 – 2002	COST Chemistry D9 (Advanced Computational Chemistry of Increasingly Complex Systems), participant
1997 – 2000	OTKA project No. T 22824, PI
1999 – 2000	MTA-CNRS project No. 11, PI
1999 – 2001	MTA-NSF-OTKA project No. 6, PI
1999 – 2000	AKP project No. 98 42 2,4, PI

1999 – 2003	OTKA project No. T 29726, PI
2000 – 2004	COST Chemistry D23 (Metachem), participant
2001 – 2004	OTKA project No. T 34812, PI
2000 – 2007	COST Chemistry D26 (Integrative Computational Chemistry), participant
2002 – 2004	MTA-NSF-OTKA project No. 4, PI
2003 – 2004	IKTA project „Establishment and application of a Chemistry Grid, PI
2004 – 2007	COST Chemistry D26 WG „Integrative reaction dynamics”, WG coordinator
2005 – 2008	OTKA project No. T 42795, PI
2006 – 2010	COST D37 (Grid Computing in Chemistry: GRIDCHEM), participant
2009 – 2013	OTKA project No. K 77938, PI
2010 – 2014	COST CM901 (Detailed chemical kinetic models for cleaner combustion), participant
2013 – 2017	OTKA project No. K 108966, PI
2013 – 2015	KTIA AIK 12-1-2012-0014 project, coordinator
2015 –	COST CM1401 WG 1 (Our Astrochemical Heritage), participant
2015 –	COST CM1404 WG 1 (Smartcats), participant

AWARDS

1976 – 1980	Fellowship of the Peoples’s Republic
1980	Medal for Excellent Studies (Government of Hungary)
2007	Polányi Mihály Award
2010	Honorary professor, Eötvös University, Budapest

MEMBERSHIP

1993 –	member, Reaction Kinetics and Photochemistry Working Committee, Hungarian Academy of Sciences
1996 –	member, Hungarian Section of the Combustion Institute
1997 – 2013	member, Theoretical Physical Chemistry Working Committee, Hungarian Academy of Sciences
1998 – 2001	member, COST D9 Management Committee
2000 – 2004	member, COST D23 Management Committee
2000 – 2007	member, COST D26 Management Committee
2006 – 2010	member, COST D37 Management Committee
2007 – 2013	representative, Hungarian Academy of Sciences
2008 – 2014	member, Committee
2008 –	curator, Mihály Polányi Award
2007 – 2013	secretary, Physical and Inorganic Chemistry Committee, Hungarian Academy of Sciences
2010 – 2014	member, COST CM901 Management Committee
2013 –	secretary, Physical Chemistry Committee, Hungarian Academy of Sciences
2014 –	member, Supervisory Board, Hungarian Section of the Combustion Institute
2014 –	member, COST CM1401 Management Committee
2015 –	member, COST CM1404 Management Committee
2016 –	chair, Supervisory Board, Hungarian Section of the Combustion Institute

CONFERENCE ORGANIZATION, EDITORSHIP

2003. 06. 08–13.	NATO Advanced Research Workshop on the Theory of the Dynamics of Elementary Chemical Reactions, Balatonföldvár
2004. 09.30–10.03.	Central European Symposium on Theoretical Chemistry, Tihany
2014. 07.20–25.	International Symposium on Gas Kinetics and Related Phenomena, Szeged
2008	Guest Editor, International Journal of Quantum Chemistry, István Mayer Special issue
2014	Guest Editor, ENERGY, COST CM901 Special issue

TEACHING

2003 –	Quantum Chemistry I-II, MSc lectures, Department of General and Inorganic Chemistry, University of Pannonia
2003 –	Quantum Chemistry I-II, MSc lab course, Department of General and Inorganic Chemistry, University of Pannonia
1998	Quantum Chemistry I-II. lectures and lab course for chemistry majors, Department of General and Physical Chemistry, University of Szeged
1998 occasionally	Introduction to the theory of elementary chemical reactions, lectures, Loránd Eötvös University, Institute of Chemistry

STUDENTS

MSc, BSc degree	1977 – 1980	Orsolya Tőke, ELTE Chemistry major
	2002	Krisztina György, ELTE Chemistry major
	2007	Zsolt Kormányi, PE Chemical informatics
	2008	Éva Csányi, PE Chemical informatics
	2009	Róbert Kosztyu, ELTE Chemical informatics
	2010	Anna Vikár, ELTE Chemistry BSc
	2011	Tibor Nagy, ELTE Physics major
	2011	Péter Szabó, PE Chemistry MSc
	2012	Anna Vikár, ELTE Chemistry MSc
	2014	Katalin Böőr, ELTE Chemistry BSc
	2016	Szabolcs Góger, PE Chemistry BSc
	2016	Soma Keszei, PE Chemistry MSc
PhD	2009 – 2012	Róbert Kosztyu, ELTE Chemistry Doctoral School
	2011	Antony Memboeuf, ELTE Chemistry Doctoral School, completed
	2011 –	Péter Szabó, PE Chemistry and Environmental Sciences Doctoral School, in progress
	2012 –	Anna Vikár, ELTE Chemistry Doctoral School, in progress

PUBLICATIONS

89 papers, 5 book chapters, 7 full papers in conference issues

Cumulative impact factor 271, independent citation >2100, Hirsch-index 34

MTMT <https://vm.mtmt.hu//search/slist.php?lang=0&top10=0&AuthorID=10002535>

COMPETENCES

Development and application of theoretical methods in reaction kinetics and dynamics

Determination of reaction mechanisms and kinetics using methods of electronic structure theory

Leading research projects

Coordination of multiparticipant research and development projects – Coordination of an institute-wide KTIA project from submission to successful completion (2012-2015); in 2016: coordination of submission of 5 NVKP, TÉT, VEKOP projects

International organizations – active participation in scientific projects and organizational bodies