

# Curriculum vitae

**Name:** István Gyula ZSÉLY

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**Place and date of birth:** Salgótarján (Hungary), 6<sup>th</sup> April 1977

Personal web page: <http://garfield.chem.elte.hu/Zsigy/Zsigy.html>

**Scientific degree:** PhD in Chemistry (2005)

**Qualification:** MSc in Chemistry (2000), MSc in Chemistry teaching (2001)

## Jobs:

assistant professor, 2008–

Eötvös Loránd University (ELTE), Institute of Chemistry, Budapest, Hungary

Marie Curie Transfer of Knowledge Fellow, 1<sup>st</sup> September 2008 – 31<sup>st</sup> August 2009

National University of Ireland, Galway (NUIG), Galway, Ireland

assistant lecturer, 2007–2008

Eötvös Loránd University (ELTE), Institute of Chemistry, Budapest, Hungary

research assistant, 2003–2007

Eötvös Loránd University (ELTE), Institute of Chemistry, Budapest, Hungary

## Schools:

2000–2004 PhD student, Eötvös Loránd University (ELTE), Institute of Chemistry, Budapest, Hungary

1995–2001 Chemistry, Chemistry teacher, Eötvös Loránd University (ELTE), Institute of Chemistry, Budapest, Hungary

1991–1994 Gárdonyi Géza Secondary School, Eger, Hungary

## Foreign languages:

English (fluent), German (basic)

## Skills, knowledge:

### ✓ Strong IT skills

everyday computer usage for two decades

knowledge of several operating systems (Windows from 3.1 to Win7, different linux versions, IBM AIX)

development of web pages in native HTML

word processing, spreadsheet handling, creation of presentations with MS Word, Excel, PowerPoint

scientific data processing with Microcal Origin and MATLAB

scientific reference managing with EndNote reference manager software

knowledge of some reaction kinetics simulation programs (e.g. CHEMKIN II, III, 4)

### ✓ Good communication and organizing skills

Erasmus coordinator in the Institute of Chemistry, ELTE (2005–), conferences (SAMO 2007 and

ECM 2015: organizing committee member; ACH 2008: organizing committee member, secretary)

giving lectures in Hungarian and English even for 200 people and laboratory practices for 4–50 students

coordination of the work of students and researchers in the Laboratory for Chemical Kinetics

### ✓ Good problem solving skills

I do scientific research therefore I meet problems and solve them every day

### ✓ Documentation writing skills

I can write scientific papers, reports, software documentations both in Hungarian and in English

### ✓ Team player attitude

I worked in teams both in Hungarian and English environments

in my current position I work in a 7 member research group in the Laboratory for Chemical Kinetics

### ✓ Language skills

I participate on international scientific conferences, give lectures in English

I read and write scientific papers in English

I communicate with our international partners and students in English

- ✓ Programming skills
  - development and testing codes in FORTRAN and MATLAB under Windows and linux
  - knowledge of other programming languages (PASCAL, BASIC (advanced level), C++, Origin Script, Assembly (basic level))
  - knowledge of computer driven data acquisition and control systems
- ✓ Summer training at EGIS Pharmaceuticals PLC (1999)
- ✓ driving license (B, 1994)

**Scientific and university public life:**

Member (2005–) and secretary (2011–) of the Hungarian Section of the Combustion Institute  
Elected member of the Institute council of the Institute of Chemistry, ELTE (2006–2008)  
Member of the Reaction Kinetics and Photochemistry Working Committee of the Hungarian Academy of Sciences (2005–)

**Research area:**

Chemistry / physical chemistry / cheminformatics

- ✓ reaction kinetic simulation of gas phase combustion systems, development of some combustion reaction mechanisms
- ✓ simulation and analysis of biochemical cell cycle models
- ✓ sensitivity and uncertainty analysis, analysis and reduction of reaction mechanisms
- ✓ software development for the simulation and analysis of reaction kinetic models

**Scientific publications (state of 02/2013):**

scientific papers and publications in conference proceedings: 16+9  
independent citations: 115

**Educational activity:**

Teacher at physical-chemistry laboratory practices, chemical mathematics practice, introduction to chemistry lecture and practice, computer assisted measurements courses for chemist, biologist, pharmacist and chemistry teacher students (2000–)

Budapest, 26 June 2013

István Gyula Zsély