CURRICULIM VITAE

Laszlo S. TOTH
Tel : +33 6 04 52 82 08, laszlo.toth@univ-lorraine.fr, laszlo.metz@gmail.com

PERSONAL INFORMATION

Family name, First name: TOTH, S. Laszlo, Date of birth: 17/09/1952, French, Hungarian

Researcher unique identifier: https://www.orcid.org/0000-0001-7598-9026

URL for publications: http://scholar.google.com/citations?user=GFbxXzgAAAAJ

EDUCATION:

1976 – M.S. in Physics and Astronomy, Eötvös Loránd University (ELTE)
1979 – Ph.D. in Solid-State Physics, Eötvös Loránd University (ELTE)
1986 – Candidate Degree, Hungarian Academy of Sciences

RESEARCH:

- polycrystal plasticity (viscoplastic self-consistent modelling)
- mechanics of materials (strain hardening, flow-line function-based deformation analysis)
- severe plastic deformation (grain fragmentation modelling, new SPD processes)
- textures in metals (deformation textures, recrystallization, twinning)

CURRENT POSITIONS

2025-	External Member of the Hungarian Academy of Sciences
2022–	Professor "Miskolcinensis", Institute of Physical Metallurgy, Metal-forming and Nanotechnology, University of Miskolc, Hungary
2021 –	Emeritus Professor, Laboratory of Microstructure Studies and Mechanics of Materials (LEM3), University of Lorraine, Metz, France

PREVIOUS MAIN POSITIONS

2012-2021	Director of the Laboratory of Excellence for Design of Alloy Metals for low-mAss Structures, (LABEX DAMAS), University of Lorraine, Metz, France
2010-2012	Director of the Laboratory of Elaboration of Microstructures and Mechanics of Materials (LEM3), Univ. Lorraine, Metz, France
1998-2021	Professor, University of Lorraine, Metz, France
1993-1998	Associate Professor, University of Metz, France
1989-1993	Docent, Institute for General Physics, Eötvös University, Budapest, Hungary
1983-1989	Associate Professor, Institute for General Physics, Eötvös University, Budapest, Hungary
1976-1982	Assistant Professor, Institute for General Physics, Eötvös University, Budapest, Hungary

MAIN FELLOWSHIPS

2009	Australian Research Council (ARC) Professorial Fellow at Monash University (6 months), Materials Science and Engineering, Monash University, Melbourne, Australia
1997	Gledden Senior Visiting Fellowship at University of Western Australia (3 months), Department of Mechanics and Materials Engineering, Perth, Australia
1990-1992	Brite Euram Fellowship, Catholic University of Leuven, Material Department, Belgium
1986-1989	Invited Professor at McGill University, Metallurgical Department, Montreal, Canada

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

1988-2023	25 PhD students in four countries: Canada (1), Australia (1), France (23)
1993-2023	16 postdocs, 17 master students
2022-	5 ongoing doctorate students at the University of Miskolc, Hungary

TEACHING ACTIVITIES

1976-1990	Lecturer in all major fields of general physics, Eötvös University, Budapest, Hungary
1992-2021	Professor, mechanics and material sciences at the Lorraine University, Metz-Nancy, France
2022-	Professor, crystal plasticity course, Kerpely Doctoral School, Univ. of Miskolc, Hungary

ORGANISATION OF MAIN SCIENTIFIC MEETINGS

2000 Co-Chairman of EUROMECH-4, Solid Mechanics Conference, Metz, France, 600 participants
2007 Co-Chairman of SHEAR Plasticity 07, Nancy, France, 120 participants
2014 Chairman of the Sixth Int. Conf. on Nanomaterials by Severe Plastic Deformation, Metz, France, June 450 participants, 175 reviewed papers published.
2022 Chairman of the 19th Int. Conf. on Strength of Materials, Metz, France, 350 participants
2024 Chairman of the 20th Int. Conf. on Textures of Materials, Metz, France, 350 participants
Member of three International Steering Committees of traditional International Conference Series: NanoSPD Conferences, ICSMA Conferences, ICOTOM Conferences

MAJOR COLLABORATIONS

John J. Jonas (textures, McGill University, Montreal, Canada), Werner Skrotzki (textures, TU Dresden, Germany), Satyam Suwas and Satish Kailas (SPD processes, IISc Bangalore, India), Mathew Barnett (twinning in hexagonals, Deakin University, Australia), Yuri Estrin (strength of materials, Monash University, Australia), Rimma Lapovok (SPD processes, Deakin University, Australia), Yan Beygelzimer (SPD processes, Ukraine, Ukrainian National Academy of Sciences), Irene Beyerlein (textures, University of California, Santa Barbara), Anthony Rollett (strength of materials, Carnegie Mellon Univ., USA), Somjeet Biswas (twinning in hexagonals, IIT Kharagpur, India), Christian Haase (TWIP steel, RWTH, Aachen University, Germany), Georges Ayoub (SPD processes, University of Michigan), Chen Cai (Mg SPD, Nanjing University of Science and Technology, China)

INTERNATIONAL RECOGNITION THROUGH SCIENTIFIC PRIZES/AWARDS

2025-External Member of the Hungarian Academy of Sciences
2023-Doctor Honoris Causa of the University of Miskolc, Hungary
2012- Knight of the French Superior Education, Government of France, 14 July, 2012
2012- Grand Prize of Research of the Industrial Society of East-France
2021- Professor Miskolcinensis, University of Miskolc, Hungary

GRANTED PATENTS

1. Method for forming an ultrafine-grained flat metal object, Worldwide patent no. WO2017017341A1, 2017, Inventors: Yakiv Beygelzimer, Laszlo Toth, Jean-Jacques Fundenberger.
2. Metal matrix polymer derived ceramic composites, processes of production and uses thereof, Worldwide patent no. WO2022194938, 2022, Inventors: Laszlo Toth, Satish Vasu Kailas, Yajun Zhao, Abhishek Pariyar, Marc Ponçot, Marc Novelli, Viet Quoc Vu.

SCIENTIFIC IMPACT:

230 journal papers, 11840 citations, 55 H factor