



## Arnold Péter Farkas

📍 **Work** : Wolfgang Sandner str. 3., 6728, Szeged, Hungary

✉ **Email**: [arnold.farkas@eli-alps.hu](mailto:arnold.farkas@eli-alps.hu) 📞 **Phone**: (+36) 303591656

**Gender**: Male **Date of birth**: 28/06/1980 **Nationality**: Hungarian

### ABOUT ME

Experienced senior engineer with a strong research background. Skilled in Nanomaterials, Electron Spectroscopy, Vacuum Technology, Research and Development (R&D), and Surface Sciences.

### WORK EXPERIENCE

[ 09/2016 – Current ]

#### Senior Engineer

##### *ELI-HU Research and Development Non-Profit Ltd.*

**City**: Szeged

**Country**: Hungary

Vacuum Technology Specialist - deputy group leader in the field of vacuum technology, optical workshop management, and clean room operation.

1. Vacuum engineering - designing vacuum systems, vacuum-related calculations, purchase of vacuum parts, service, and warranty administration. Planning, execution, and documentation of vacuum acceptance tests including He-leak tests and residual gas analysis.
2. Optical workshop support - professional support for the operation of optical workshop thin film evaporation equipment.
3. Clean room operation - acquisition and installation of clean room materials. Planning and management of clean room cleaning works.
4. Field management of group members performing the operations described above.

[ 07/2017 – Current ]

#### Research Fellow

##### *Reaction Kinetics and Surface Chemistry Research Group - ELKH-SZTE*

**City**: Szeged

**Country**: Hungary

Publication and research activity.

The number of successful Ph.D. thesis supervision: 1 (Ádám Szitás - 2022)

Investigation of the elementary steps of catalytic processes on single crystal surfaces, adsorption properties of transition metals, and metal/oxide 2D model systems by photon and electron spectroscopic and surface analytical methods such as HREELS, AES, and TPD.

[ 2012 – 2017 ]

#### Assistant Professor (initially Assistant Lecturer)

##### *Department of Physical Chemistry and Materials Science at the University of Szeged*

**City**: Szeged

**Country**: Hungary

Teaching activity in the field of general, physicochemical, solid state, and radiochemistry  
Publication and research activity - surface chemical studies

[ 2009 – 2012 ]

#### Research Fellow

##### *Reaction Kinetics Research Laboratory - Chemical Research Center*

**City:** Szeged

**Country:** Hungary

Publication, supervising (4 MSc and 3 BSc), and research activity in the field of surface sciences

[ 2006 – 2008 ]

**Research Assistant - Young scientist fellowship of the Hungarian Academy of Sciences**

*Reaction Kinetics Research Group of the Hungarian Academy of Sciences*

**City:** Szeged

**Country:** Hungary

Publication, supervising, and research activity in the field of surface sciences

---

**EDUCATION AND TRAINING**

[ 07/2010 – 10/2010 ]

**Study tour**

*Institute of Surface Chemistry and Catalysis at the University of Ulm*

**Address:** Ulm, Germany

[ 2003 – 2007 ]

**Ph.D. degree**

*Chemical Doctoral School at the University of Szeged*

**Address:** Szeged, Hungary

**Final grade:** summa cum laude

**Thesis:** Oxidation and adsorption properties of Mo<sub>2</sub>C/Mo(100) studied by photon, electron and ion spectroscopic methods

[ 2001 – 2003 ]

**Training program in radiation protection, graduate education**

*University of Szeged*

**Address:** Szeged, Hungary

[ 1998 – 2003 ]

**M.Sc. in chemistry (chemist and teacher of chemistry)**

*University of Szeged*

**Address:** Szeged, Hungary

[ 2012 – 2013 ]

**Kung fu trainer**

*Hungarian University of Sports Science*

**Address:** Budapest, Hungary

---

**LANGUAGE SKILLS**

**Mother tongue(s):** Hungarian

**Other language(s):**

**English**

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

**German**

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

## DIGITAL SKILLS

---

Microsoft Office | Solid Edge | Vactran | Microcal Origin | Quadera | PV MassSpec | Corel Draw Graphics (Corel Draw Corel Photo Paint)

## PUBLICATIONS

---

**Number of publications: 33. H-index: 11. References: 382/288**

Publication list:

**Link:** <https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=10001073>

## NETWORKS AND MEMBERSHIPS

---

[ 2022 – Current ]

**Representative of the Hungarian Vacuum Society in the Vacuum Science and Technology Division of IUVESTA**

[ 2022 – Current ]

**Member of the Radiation protection, Radiation health and Radiochemistry Committee of the Hungarian Academy of Sciences**

[ 2013 – Current ]

**Member of the Hungarian Vacuum Society**

[ 2008 – Current ]

**Member of the Surface Chemistry and Nanostructural Science Committee of the Hungarian Academy of Sciences**

## DRIVING LICENCE

---

**Motorbikes:** A

**Cars:** B

## CONFERENCES AND SEMINARS

---

### International conferences

From 2005, I participated in numerous domestic and international conferences and study visits, where I gave presentations to researchers working in my field (surface science).

### List of major events:

European Conference on Surface Sciences - Berlin, Germany (2005), Paris, France (2006), Antalya, Turkey (2014), Grenoble, France (2016), and Szeged, Hungary (2017).

ISSS-7. Matsue, Shimane, Japan (2014)

International Vacuum Congress - Paris, France (2013)

COST training - Pisa, Italy (2012)

DPG meeting - Dresden (2011)

Study visit - Ulm, Germany (2009-2010)

Study visit - Bahia Blanca, Argentina (2009)

European Vacuum Conferences - Balatonalmádi (2008)

## HONOURS AND AWARDS

---

[ 01/01/2014 ]

**Magyary Zoltán postdoctoral fellowship Awarding institution:** The Ministry of Public Administration and Justice

Characterization of boron nitride nanomesh on single crystal surfaces

## HOBBIES AND INTERESTS

---

### Leisure activities

Running and kung fu are my favorite physical activities which can help me manage stress. Reading books, watching movies and "do it yourself" around the house are the best way for my daily relaxation, as well.

## COMMUNICATION AND INTERPERSONAL SKILLS

---

### My interpersonal qualities that I consider important:

1. Teamwork (communication, organizational and decision-making, conflict management, emotional intelligence)
2. Time management (multitasking, prioritizing)
3. Communication (presenting, clear speech and writing, openness)