

## PERSONAL INFORMATION



## Zoltán Sas, PhD

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💬 Skype ilozas

Sex Male | Date of birth 26/12/1984 | Nationality Hungarian

## WORKING EXPERIENCE

25/04/2016 – present

## Marie Curie Research Fellow

Geopolymer Team, School of Planning, Architecture and Civil engineering (SPACE), Queen's University Belfast (QUB), David Keir Building, Stranmillis Road, Belfast BT9 5AG, Northern Ireland.

- Research fellow of [By-BM H2020-MSCA-IF-2015 Project](#) (By-Products for Building Materials)
  - Research interest: Reuse possibilities of NORM by-products in building material industry, Radiological survey of raw materials used in building material production, characterization, classification of NORMs
  - R&D: Eco-innovative geopolymer concrete development from industrial by-products
- [Business or sector](#) Civil engineering, Education and Interdisciplinary sciences / Environmental radioactivity

01/06/2014 – 15/04/2016

## Assistant lecturer

University of Pannonia, 10 Egyetem str. Veszprém, H-8200, Hungary.

- Research interest: Reuse possibilities of NORM by-products in building material industry, Radiological survey of raw materials used in building material production, characterization, classification of NORMs
  - R&D: Low level radon and thoron simultaneous measurement techniques
  - Lectures: Dosimetry, Nuclear measurement techniques and Radioecology lab. practice
  - Supervisor tasks: tutor of PhD researches, Supervisor of BSc/MSc diploma works and student scientific researches
  - Communication: Hungarian and foreign colleagues and students
  - Publication: Scientific article: 9, (8 English, 1 Hungarian, total IF: 8.18), Conference: 38 (26 English with 12 full text proceeding; 6 Hungarian with 5 full text proceeding)
- [Business or sector](#) Education and Interdisciplinary sciences / Environmental radioactivity

17/09/2013 – 10/05/2013

## Chemist

FitoHorm ltd. 12 Iparos str. Baja, H-6500, Hungary

- Production management: supervision of production technology, raw materials and end-products, coordination of 8 member group
  - Development of chemicals: improvement of up-to-date liquid fertilizers according to the modern agricultural demands, planning and effectuation of laboratory, pilot and operative plant experiments
  - Quality-control: raw materials and end-products
  - Communication: Hungarian and foreign partners
- [Business or sector](#) Chemical industry / liquid fertilizer production

01/09/2009 – 17/06/2013

## PhD student

University of Pannonia, 10 Egyetem str. Veszprém, H-8200, Hungary.

Faculty of Engineering / Chemical and environmental sciences Doctoral School / Institute of Radiochemistry and Radioecology

- Research interest: Determination of radon emanation and exhalation modifying effects of building materials, development and improvement of radon exhalation measurement system
- Education: responsible for several Nuclear Measurement Techniques and Radioecology Laboratory Practices for university students
- Organizer and tutor: Summer School of Radioecology (2010, 2011), University of Pannonia
- Main attended lectures: Radioecology, Dosimetry, Nuclear Sciences in English

[Business or sector](#) Education

**EDUCATION AND TRAINING**

- 01/09/2009 – 04/06/2013 **PhD in environmental sciences**  
 University of Pannonia, 10 Egyetem str. Veszprém, H-8200, Hungary
- 01/09/2006 – 30/06/2009 **Extended grade radiation protection experience**  
 University of Pannonia, 10 Egyetem str. Veszprém, H-8200, Hungary
- License of work with opened and closed sources and ionizing equipment
- 01/09/2004 – 30/06/2009 **MSc in environmental (civil) engineering**  
 University of Pannonia, 10 Egyetem str. Veszprém, H-8200, Hungary
- Faculty of radioecology; Knowledge of environmental engineer experiences; Water/sewage treatment; Air pollution control; Waste management
- 01/09/2003 – 10/06/2004 **Technician on environmental protection and water economics**  
 Vásárhelyi Pál Technical Secondary School, 6. Deák str. Békéscsaba, H-5600, Hungary
- Water economics; Sewage water treatment; Knowledge of environmental protection experiences
- 01/09/1999 – 19/06/2003 **School leaving certificate / faculty of environmentalist and water economics**  
 Vásárhelyi Pál Technical Secondary School, 6. Deák str. Békéscsaba, H- 5600, Hungary
- Water economics, Environmental protection and other technical profession experiences

**PERSONAL SKILLS**

Mother tongue(s) Hungarian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C/1	C/1	C/1	C/1	C/1
Written comparative (EA060-19770); Oral comparative (EC010-20308)					
Spanish	A/2	A/2	B/1	A/2	A/2
Oral basic level (HI010-14751)					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user

Common European Framework of Reference for Languages

**Communication skills**

Good communication skills

- Due to my previous work and my PhD studies
- Good English communication skills
- Contact with foreign partners
- 3 months long ERASMUS practice in Spain (LaRUC Radon Group, Departamento de Ciencias Medicas y Quirurgicas, Facultad de Medicina, Universidad de Cantabria, Santander)

**Managerial skills**

Leadership

- Research Fellow of By-BM H2020-MSCA-IF-2015 Project
- Instructor: Laboratory practices for university students (6 semesters)
- Co-ordination and reviewer of scientific student researches and diploma works
- Tutor: Summer School of Radioecology (2010, 2011, 2013), University of Pannonia

**Organizational skills**

Member of conference organizer committee and system administrator

- Secretary - IV Radioisotopes in the Environment International Conference on Environment Protection (2014) <http://ri.vein.hu/conferences/terrestrial/2014/home.html>
  - VII. Radon Forum (2011) (<http://ri.vein.hu/conferences/radon/2011/index.html>)
  - II-III Terrestrial Radioisotopes in the Environment International Conference on Environment Protection (2010, 2012) (<http://ri.vein.hu/conferences/terrestrial/2012/index.html>)
  - XXIV. Congress of Hungarian Biophysical Society (2013) (<http://www.mbf2013.uni-pannon.hu/>)
- Organizer
- Summer School of Radioecology (2010, 2011, 2013), University of Pannonia

- Computer skills** Good command of Microsoft Office™ tools, Independent use of Adobe Dreamweaver, Adobe Photoshop programs
- Job-related skills** Experience in nuclear measurement systems
  - Radon/Thoron measuring equipment: AlphaGuard 2000, Sarad RTM 2100, Sarad Scout, Pylon WLX, Pylon AB5, other Lucas-cell based detectors
  - Semiconductor and scintillating gamma spectrometric measurement apparatus
  - PIPS detector based alpha spectrometers
- Other skills**
  - Fast learning readiness, team spirit, independent thinking, creativity, excellent communication and cooperation skills
- Driving license**
  - B category driving license since 2002, accident-free

**ADDITIONAL INFORMATION**

International experience

IAEA training

- IAEA TC Project 9127 - Establishing Enhanced Approaches to the Control of Public Exposure to Radon, Czech Republic Prague, 29 June – 2 July, 2015
- RER9127 9007 01 RWS on Communication Strategies in the Control of Public Exposure to Radon, Tallinn Estonia, 16-18 March 2015
- C7-RAS-3.010-003 - Regional Training Course on the Use of Portable Instrumentation and Laboratory Analyses for Naturally Occurring Radioactive Material (NORM) Measurements, Pécs, 21-25 November 2011

Delegation member

- Nuclear Technology Education in Hungary”, Hanoi, Da Nang, Da Lat, Ho Chi Min City, Vietnam
- ERASMUS practice
- LaRUC Radon Group, Departamento de Ciencias Medicas y Quirurgicas, Facultad de Medicina, Universidad de Cantabria, Santander, Spain

Intercomparison

- International Intercomparison Exercise on Natural Radiation Measurements Under Field Conditions, Saelices el Chico (Salamanca, Spain), 23 – 27/05/2011
- COST Action TU1301 NORM4Building STSM (Short Time Scientific Mission) NuTeC, University of Hasselt, Belgium 08-16/09/2014

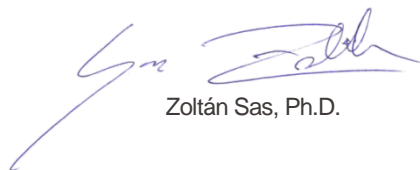
Memberships

- MC substitute COST Action TU1301 NORM For Building Materials (NORM4BUILDING) 18/10/2013-
- Member of Social Organization for Radioecological Cleanliness (2007-)
- Member of Hungarian Chemical Society (2010-)
- Member of Hungarian Nuclear Society, Young Scientists for the Nuclear Energy Group (2010-)
- Member of Hungarian Biophysical Society (2011-)
- COST Action TU1301 NORM4Buildings MC substitute (2013-)

Awards

- H2020 Marie Skłodowska-Curie Individual Fellowship – Research fellow of By-BM Project (2016-2018)
- Hungarian National Excellence Program, Jedlik Ányos Pre-doctoral scholarship (2013-2014)
- Foundation for Chemist of Veszprém, dr. Polinszky Károly Scholarship (2008-2009)
- Results of scientific student researches: ITDK 3<sup>rd</sup> place (2007); OFKD 1<sup>st</sup> place (2008), ITDK 2<sup>nd</sup> place (2008), OTDK 2<sup>nd</sup> place

Belfast, Northern Ireland,  
21/07/2016



Zoltán Sas, Ph.D.