



# Dr. Zoltan Sas

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1C Peperstraat  
Geel 2440  
Belgium

**E-mail:** [ilozas@gmail.com](mailto:ilozas@gmail.com)  
**Website:** [www.linkedin.com/in/zoltan-sas](http://www.linkedin.com/in/zoltan-sas)  
**Phone:** +447391437946

## WORK EXPERIENCE

### Queens University Belfast and Hasselt University, NuTeC

**April 2016 — Present**

Project leading research fellow

Position: Marie Curie research fellow (**individual fellowship**, By-BM Project, H2020-MSCA-IF, Project ID: 701932)

Project info: [https://cordis.europa.eu/project/rcn/200995\\_en.html](https://cordis.europa.eu/project/rcn/200995_en.html)

Topic: NOR (naturally occurring radioactivity) in nature and the built environment

Main host: Queen's University Belfast, Belfast, UK

Secondment host: Hasselt University, Nuclear Technological Centre, Diepenbeek, Belgium

Aims: The By-BM project is developing innovative, environmentally-safe geopolymer building materials – which integrate waste materials yet comply with necessary safety standards. Owing to low porosity features of certain geopolymers preliminary investigation from a radioactive waste encapsulation point of view is also surveyed with inactive substances during the project

### University of Pannonia, Veszprem, Hungary

**June 2014 — April 2016**

Assistant lecturer

Department: Institute of Radiochemistry and Radioecology

Research interest: Reuse possibilities of NORM by-products in building material industry

R&D: Low-level radon and thoron simultaneous measurement techniques

Teaching activities: Lecturer of Dosimetry, coordinator of nuclear measurement techniques and radioecology laboratory practice

Supervisor tasks: Tutor of PhD researchers, Supervisor of scientific training, BSc/MSc diploma and student scientific research projects

Aims: Training of university students, experts based on ongoing research projects related to radiation protection, nuclear measurement techniques, environmental monitoring, reusing of industrial by-products, consultancy with companies regarding mitigation and prevention of occupational radiation exposure

### Fitohorm Ltd., Baja, Hungary

**September 2013 — May 2014**

Chemist

Production management: Supervision of production technology of liquid fertilizers

Coordination: Group of 8 members

Development of chemicals: Improvement of up-to-date liquid fertilisers according to the modern agricultural demands, planning and effectuation of laboratory, pilot and operative plant experiments

Quality-control: From raw materials to end-products

Communication: Hungarian and foreign partners

## QUALIFICATIONS

Extended grade radiation protection experience (License of work with open and closed radioactive sources and ionising equipment), Valid: Oct 2014 – Oct 2019 License No.: OSSKI-2014-AK-369-56, "Frédéric Joliot-Curie" National Research Institute for Radiobiology and Radiohygiene, Budapest, Hungary

IAEA TC Project 9127 - Establishing Enhanced Approaches to the Control of Public Exposure to Radon, Czech Republic, Prague, 29/06/2015-02/07/2015

IAEA RER9127 9007 01 RWS on Communication Strategies in the Control of Public Exposure to Radon, Tallinn, Estonia, 16/03/2015-18/03/2015

IAEA 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, Hungary, 21/11/2011-25/11/2011

Technician on environmental protection and water economics, Vásárhely Pál Technical Secondary School Békéscsaba, Hungary

## EDUCATION

### **PhD, Environmental sciences, Radioecology** **September 2009 — June 2013**

Institute of Radiochemistry and Radioecology, University of Pannonia, Veszprem, Hungary

Thesis: Determination of radon emanation and radon exhalation influencing parameters of construction materials

Supervisor: Dr. János Somlai

### **MSc, Environmental engineer** **September 2004 — September 2009**

University of Pannonia, Veszprem, Hungary

5 years of undivided master training, radioecology specialisation

## SKILLS

Nuclear measurement techniques: Radiation detection, Gamma Spectrometry, Alpha spectrometry, radon in measurement in various media, Radiochemistry

Environmental radioactivity: Radioecology, Radon, Thoron, Radon Daughters, Radium, Thorium, Background Radiation, Risk mitigation, Education

Environmental engineering: Radioecology, Environmental Analytical Chemistry, Materials Engineering, Alkali-activated materials, Geopolymers, Radioactive Waste

Softwares: MS Office programs, Wordpress, Tableau, Photoshop, Dreamweaver

## PUBLICATIONS

Book chapter: 1

Articles: 19

Citations: 88

H-index: 6

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Conference proceeding: 8

Conference participation: 68

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Updated: 27/02/2018

<https://scholar.google.hu/citations?user=d03hs4AAAAAJ&hl=en>

## ONLINE SOURCES

### Queen's profile

<http://go.qub.ac.uk/zoltansas>

### Project website:

<http://bybmproject.com/>

### LinkedIn:

[www.linkedin.com/in/zoltan-sas](http://www.linkedin.com/in/zoltan-sas)

### ResearchGate:

[https://www.researchgate.net/profile/Zoltan\\_Sas](https://www.researchgate.net/profile/Zoltan_Sas)

### Google scholar:

<https://scholar.google.hu/citations?user=d03hs4AAAAAJ&hl=en>

### ORCID ID:

<https://orcid.org/0000-0002-8517-9956>

## REFERENCES

### Prof. dr. Wouter Schroeyers

Head of the Education Management Team for Nuclear Technology

Nuclear Technology - Faculty of Engineering Technology, Research group NuTeC, research institute CMK

e-mail: [wouter.schroeyers@uhasselt.be](mailto:wouter.schroeyers@uhasselt.be) Tel: +32 479 382 488

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### Dr. Rory Doherty

Lecturer

School of Natural and Built Environment, Queen's University Belfast, Belfast, UK

e-mail: [r.doherty@qub.ac.uk](mailto:r.doherty@qub.ac.uk) Tel: +44 28 9 097 4746

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### Dr. Tibor Kovács

Head of the Institute

Institute of Radiochemistry and Radioecology, University of Pannonia, Veszprem, Hungary

e-mail: [kt@almos.uni-pannon.hu](mailto:kt@almos.uni-pannon.hu) Tel: +36 88 624 789

## INTERESTS

Music (Percussions, Guitar)

Family excursions, travelling

DIY, Handicrafts

Cooking

Reading