

6th International Geo-hazards Research Symposium
9th Dresden Symposium

HAZARDS – DETECTION AND MANAGEMENT

March 04 – March 09, 2018 in Dresden, Germany

PROGRAMME

Sunday, March 04, 2018 (SARAD company)

Registration

15.00 – 17.00 Registration at the conference desk
SARAD, Wiesbadener Straße 10, Dresden 01159

18.00 – 22.00 Welcome party at the Feldschlösschen-Stammhaus
Budapester Str. 32, Dresden

Monday, March 05, 2018 (Dresden City Museum)

Registration

10:00 – 11:00 Registration at the conference desk, 2nd floor

11:00 – 11:30 Opening Ceremony
Ms. Kerstin Zimmermann (City of Dresden)

Opening Session “**Safety and Security**”
(Chairman: Luis Quindos)

11:30 – 12:00 **Streil, Thomas:** Results of European research projects increasing public security

12:00 – 12:30 **Wittke, Kristian:** Radiation safety dose management in a pharmaceutical and life science company

12:30 – 13:00 **Wasowski, Janusz:** Detecting natural and human-made ground instability hazards via satellite multi-temporal interferometry

13:00 – 13:15 Hints and Remarks

13:15 – 13:45 *Coffee Break*

13:45 – 14:15 **Zegrar, Ahmed:** Forest regeneration assessment by integrated index and remote sensing in semi arid land in the north west of Algeria

- 14:15 – 14:45 **Liwanga, Jacques:** Detection is an important function for the physical protection of nuclear materials and facilities
- 14:45 – 15:15 **Fomin, Vladimir:** Novel topology-driven sensing: Quantum rings
- 15:15 – 15:30 Hints and Remarks
- 15:30 – 16:00 *Coffee Break*
- 16:00 – 16:30 **Gonschrorek, Julia:** Prevention of drone-induced hazards: Need of professional training in the challenging field between technical opportunities and legal frameworks for civil security purposes
- 16:30 – 17:00 **Simakov, Andrey:** Effects of Microwave on animal's metabolism
- 17:00 – 17:30 **Kallmeier, Enrico:** Geo-hazard potential mapping using GIS and artificial intelligence – theoretical background and use cases
- 17:30 – 17:45 Hints and Remarks

Afternoon Session “Gamma”
(Chairman: Kruger, ID)

- 17:45 – 18:15 **Osterloh, Kurt:** Gamma camera system for imaging of high energy radiation sources
- 18:15 – 18:45 **Prasad, Mukesh:** Gamma ray spectroscopic analysis of natural radionuclides in soil of Uttarakhand, India.

Tuesday, March 06, 2018 (Dresden City Museum)

First Morning Session “Environmental Disasters I”
(Chairman: Streil, Thomas)

- 09:00 – 09:30 **Tsai, Min-Chien:** The study of seismogenic structures in Taiwan with the aid of GNSS and InSAR data: implications for seismic hazard assessment
- 09:30 – 10:00 **Walia, Vivek:** Application of gas geochemistry for earthquake, volcanic and mud volcanic studies in Taiwan
- 10:00 – 10:30 **Shemsi, Mustafa:** Seismic risk mitigation for protection of population from earthquakes in Kosovo territory
- 10:30 – 11:00 **Balderer, Werner:** Monitoring fluorescence of groundwater, mineral and thermal water at distinct wavelengths as potential tool for earthquake precursor research
- 11:00 – 11:15 Hints and Remarks

- 11:15 – 11:45 *Coffee Break*
- 11:45 – 12:15 **Quattrocchi, Fedora:** “The earth is speaking, listen to it”: Bi-directional dialog among citizens and science to study seismogeochemical and animal behaviour associated to and before strong earthquakes
- 12:15 – 12:45 **Ramola, Rakesh:** A critical review of radon and other earthquake precursors
- 12:45 – 13:00 Hints and Remarks
- 13:00 – 14:00 *Lunch Break*

First Afternoon Session “Environmental Disasters II”

(Chairman: Quattrocchi, Fedora)

- 14:00 – 14:30 **Prasad, Mukesh:** Radiological and chemical risk assessment from the exposure to uranium and heavy metals in Himalayan groundwater.
- 14:30 – 15:00 **Alberto, Yolanda:** Damage to the water system in the earthquakes of Maule 2010, Tohoku 2011 and Kumamoto 2016
- 15:00 – 15:30 **Streil, Thomas:** Gas geochemical precursors and chance for the forecast of earthquakes and volcanic eruption
- 15:30 – 15:45 Hints and Remarks
- 15:45 – 16:15 *Coffee Break*
- 16:15 – 17:30 **Poster Presentation**

Wednesday, March 07, 2018 (Dresden City Museum)

First Morning Session “Radon and Thoron”

(Chairman: Ramola, Rakesh)

- 09:30 – 10:00 **Furuta, Etsuko:** Radon measurement with activated charcoal and plastic scintillators using a conventional LSC without organic liquid waste
- 10:30 – 11:00 **Bourai, A.:** A comprehensive study of soil-gas and atmospheric radon concentrations in the Duggada region of Garhwal Himalaya along main boundary thrust
- 11:00 – 11:15 Hints and Remarks
- 11:15 – 11:45 *Coffee Break*
- 11:45 – 12:15 **Almutiran, Darwish:** Comparison of radon and thoron concentrations in air and soil in lateritic and sea shore locations

12:15 – 12:45 **Quindos, Luis:** A new device to evaluate radon exposure in workplaces

12:45 – 13:00 Hints and Remarks

13:00 – 14:00 *Lunch Break*

Afternoon Session “Radon and Thoron”

(Chairman: Kruger, ID)

14:00– 14:30 **Tushar, Kandari:** Variability of indoor radon, thoron and their progeny in the main boundary thrust region of Garhwal Himalaya

14:30 – 15:00 **Kumar, Manish:** A study in indoor radon, thoron and progeny levels in different types of dwellings in Kapurthala district of Punjab, India

15:00 – 15:30 **Kies, Antoine:** Unexpected radon concentrations in a gypsum mine

15:30 – 16:00 **Kaur, Preet Iqbal:** A Study of Steps That Would Have prevented the Nuclear Accident of Fukushima Dai-ichi Nuclear Power Station

16:00 – 16:30 **Silvana Beltrán Torres:** Geogenic radon hazard assessment based on the geochemical and soil physical properties in a granitic area

16:00 – 16:15 Hints and Remarks

16:15 – 16:45 *Coffee Break*

Thursday, March 08, 2018 (Dresden City Museum)

Excursion

9:15 h **Stadtmuseum Dresden, Wilsdruffer Str. 2, 01067 Dresden**
(Bus start: 9:30 h)

10:00 – 12:00 Excursion to the Technical University Dresden, viewing clean room Fakultät Elektrotechnik und Informationstechnik, Institut für Halbleiter- und Mikrosystemtechnik, (Mierdel-Bau, Nöthnitzer Straße 64, 01187 Dresden)

12:00 – 18:00 Excursion to the city of Meißen

Conference Dinner

18:00 – 23.00 **Conference Dinner**
SARAD GmbH,
Wiesbadener Str. 10, 01159 Dresden

Friday, March 09, 2018 (Dresden City Museum)

First Morning Session “Crisis Management”

(Chairman:Janik Miroslaw)

- 09:30 – 10.00 **Aghdam, Mirsina:** Assessment of radon hazard in public buildings instruments and methodology (case study: Sardinia, Italy)
- 10.00 – 10.30 **Prasad, Mukesh:** Fundamental features of variation in indoor radon and thoron concentration in dwellings of Indian Himalayan region
- 10:30 – 11:00 **Demidov, Andrew:** Tatarstan state policy in prevention and management of natural and technical hazards
- 11:00 – 11:30 **Samad, Oday:** Projekt the essence (stay calm – think)
- 11:30 – 12:00 **Bartha, Wolfgang:** Closing Remarks

End of the conference