



V4-Korea RADCON Workshop

Effect of Chemical Composition of Concrete on Its Long-term Performance in Irradiated Environment

Date & Time:

- Date: September 2~3, 2021
- Time: 9:00 AM ~ 12:00 PM in CET and 4:00 PM ~ 7:00 PM in KST

Organizers

- Petr Štemberk, Czech Technical University, Czech
- László Szentmiklósi, Centre for Energy Research, Hungary
- Michal A. Glinicki, Polish Academy of Sciences, Poland
- Martin T. Palou, Slovak Academy of Sciences, Slovakia
- Kyoungsoo Park, Yonsei University, S. Korea

Schedule

Date	Time (CET)	Time (KST)	Contents
September 2 Thursday	09:00 ~ 09:15	16:00 ~ 16:15	Ice breaking & Overview of RADCON Workshop
	09:15 ~ 10:15	16:15 ~ 17:15	Technical session #1: Czech Technical University
	10:15 ~ 10:30	17:15 ~ 17:30	Break
	10:30 ~ 11:30	17:30 ~ 18:30	Technical session #2: Polish Academy of Sciences
	11:30 ~ 12:00	18:30 ~ 19:00	Technical session #3: Yonsei University
September 3 Friday	09:00 ~ 09:05	16:00 ~ 16:05	Ice breaking
	09:05 ~ 09:35	16:05 ~ 16:35	Technical session #3: Yonsei University
	09:35 ~ 10:35	16:35 ~ 17:35	Technical session #4: Slovak Academy of Sciences
	10:35 ~ 10:50	17:35 ~ 17:50	Break
	10:50 ~ 11:50	17:50 ~ 18:50	Technical session #5: Centre for Energy Research
	11:50 ~ 12:15	18:50 ~ 19:15	Final discussion

Technical Session #1: Czech Technical University

- Yuliia Khmurovska, *Effects of Gamma-Ray Irradiation on Hardened Cement Mortar*
- Yuliia Khmurovska, *RBSM-based model for prediction of radiation-induced volumetric expansion of concrete aggregates*
- Yuliia Khmurovska, *Catalogue of Radiation-Induced Damage of Rock Aggregates Identified by RBSM Analysis*



Technical Session #2: Polish Academy of Sciences

- Daria Joźwiak Niedźwiedzka, *Selection of materials in respect to the content of long-lived radioisotopes and alkali-silica reaction*
- Mariusz Dąbrowski *Influence of gamma irradiation on the initiation of steel corrosion in concrete*
- Kinga Dziedzic, *Influence of gamma irradiation on the expansion of concrete with different aggregates*
- Aneta Antolik, *Gamma irradiation sensitivity of early hardening concrete*
- Michal A. Glinicki, *Air void distribution in concrete studied using X-ray/neutron tomographic imaging and optical reflection imaging*
- Michal A. Glinicki, *Synthesis of IPPT PAN results*

Technical Session #3: Yonsei University

- Kyoungsoo Park, *Reconstruction of concrete microstructure using complementarity of X-ray and neutron tomography*
- Hyeung-Tae Kim, *Image based analysis using virtual element method*
- D. F. Tiana Razakamandimby R., *3D reconstruction of concrete microstructure*

Technical Session #4: Slovak Academy of Sciences

- Martin Palou, *Conceptual design and performance evaluation of self-compacting heavyweight concrete*
- Martin Palou (Janette Dragomirová), *Performances of novel steel fiber-reinforced heavyweight concrete versus 30-year NPP shielding concrete*

Technical Session #5: Centre for Energy Research

- Katalin Gméling, *PGAA-NAA-XRF elemental analysis and petrography results of concrete raw materials*
- László Szentmiklósi, *Computer simulations to estimate the neutron-activation of concrete*
- Veronika Szilágyi, *Neutron and X-ray imaging results of concrete specimens*

Online Connection Information

- ZOOM Link: <https://yonsei.zoom.us/j/81015960940?pwd=c29CMGZLS0htcXppaWpnaajJLdFV5QT09>
- ZOOM ID: 810 1596 0940
- ZOOM PW: 562329

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