



**Second East European
Radon Symposium**

www.rad2014.elfak.rs/seeras

May 27 - 30, 2014 | Faculty of Electronic Engineering | Niš | Serbia

BOOK OF ABSTRACTS

PUBLISHER: University of Niš, Faculty of Electronic Engineering
P.O.Box 73, 18000 Niš, Serbia
www.elfak.ni.ac.rs

FOR THE PUBLISHER: Prof. Dr. Dragan Tasić

EDITOR: Prof. Dr. Goran Ristić

COVER DESIGN: Vladan Nikolić, M.Sc.

TECHNICAL EDITING: Sasa Trenčić and Vladan Nikolić

PROOF-READING: Saša Trenčić, MA

PRINTED BY: Nais Print, Niš

PRINT RUN: 350 copies

ISBN 978-86-6125-100-9

The Second International Conference on Radiation and Dosymetry in Various Fields of Research (RAD 2014) and the Second East European Radon Symposium (SEERAS) were financially supported by:

- Central European Initiative (CEI)
- International Union of Pure and Applied Physics (IUPAP)*
- Ministry of Education, Science and Technological Development

*To secure IUPAP sponsorship, the organisers have provided assurance that RAD 2014 Conference will be conducted in accordance with IUPAP principles as stated in the IUPAP resolution passed by the General Assembly in 2008. In particular, no bona fide scientist will be excluded from participation on the grounds of national origin, nationality, or political considerations unrelated to science.

CIP - Каталогизacija u publikaciji
Narodna biblioteka Srbije, Beograd

539.16(048)

INTERNATIONAL Conference on Radiation and
Dosimetry in Various Fields of Research (2nd
; 2014 ; Niš)
Book of Abstracts / The Second
International Conference on Radiation and
Dosimetry in Various Fields of Research, RAD
2014, May 27-30, 2014, Niš, Serbia ; [editor
Goran Ristić]. - Niš : Faculty of Electronic
Engineering, 2014 (Niš : Nais Print). - 450
str. ; 30 cm

Nasl. str. prištampanog teksta: Book of
Abstracts / Second East European Radon
Symposium SEERAS, May 27-30, 2014, Niš,
Serbia. - Oba rada štampana u međusobno
obrnutim smerovima. - Tiraž 350. -
Bibliografija uz pojedine apstrakte.

ISBN 978-86-6125-100-9

а) Јопизујуће зрачење - Дозиметрија -
Апстракт
COBISS.SR-ID 207273996

ASSESSMENT OF NUCLEAR TRACK DETECTORS EXPOSURE IN SCHOOLS OF BANJA LUKA CITY, REPUBLIC OF SRPSKA

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Indoor radon, thoron and their decay products concentration measurements were performed in 25 primary schools in Banja Luka city region, the capital of Republic of Srpska. Studies have been carried out in the period from April 2011 to May 2012 using 4 different passive radon (CR 39, LR115) and thoron (CR39, LR115) detectors. Detailed statistical analysis of radon and thoron and their progeny concentration distribution considering geological position, type of detector, measuring uncertainty, indoor position of the detectors and building material is given. Elevated levels of radon concentration (>400 Bq m⁻³) were found only in a few schools.

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