

NUCLEAR TECHNOLOGY & RADIATION PROTECTION

an international
scientific journal

UDC 621.039+614.876:504.06
ISSN 1451-3994

Editor-in-Chief

Rodoljub D. Simović Vinča Institute of Nuclear Sciences, Belgrade, Serbia

Editorial Board

| | |
|-------------------------|---|
| Olivera F. Ciraj-Bjelac | Vinča Institute of Nuclear Sciences, Belgrade, Serbia |
| Barry D. Ganapol | University of Arizona, Tucson, Ariz., USA |
| Milojko S. Kovačević | Vinča Institute of Nuclear Sciences, Belgrade, Serbia |
| Vladan L. Ljubenov | International Atomic Energy Agency, Vienna, Austria |
| Miodrag J. Milošević | Public Company Nuclear Facilities of Serbia, Belgrade, Serbia |
| Domiziano Mostacci | University of Bologna, Bologna, Italy |
| Milan P. Pešić | Vinča Institute of Nuclear Sciences, Belgrade, Serbia |
| Yury A. Teterin | Russian Research Centre "Kurchatov Institute", Moscow, Russia |

Advisory Editorial Board

| | |
|-----------------------|--|
| Ivan V. Aničin | University of Belgrade, Belgrade, Serbia |
| Francesco D'Auria | University of Pisa 2, Pisa, Italy |
| Goran Bačić | University of Belgrade, Belgrade, Serbia |
| Petar D. Beličev | Vinča Institute of Nuclear Sciences, Belgrade, Serbia |
| Tome Bosevski | Macedonian Academy of Sciences and Arts, Skopje, FYRM |
| Vujo Drndarević | University of Belgrade, Belgrade, Serbia |
| Philippe Fougeras | Cadarache Research Centre, Cadarache, France |
| Janos Gado | KFKI Atomic Energy Research Institute, Budapest, Hungary |
| Ehud Greenspan | University of California, Berkeley, USA |
| Masood Iqbal | PINSTECH, Islamabad, Pakistan |
| Tatjana Jevremović | University of Utah, Salt Lake City, USA |
| Gordana Joksić | Vinča Institute of Nuclear Sciences, Belgrade, Serbia |
| Myung-Hyun Kim | Kyung Hee University, Yongin-si, Korea |
| Stathis Kossionides | NCSR "Demokritos", Aghia Paraskevi, Greece |
| Boris B. Lončar | University of Belgrade, Belgrade, Serbia |
| James McLaughlin | University College Dublin, Dublin, Ireland |
| Miodrag Mesarović | Energoprojekt Entel, Belgrade, Serbia |
| Vincenzo Molinari | University of Bologna, Bologna, Italy |
| Georghe Negut | National Agency for Radioactive Waste, Mioveni, Romania |
| Nebojša B. Nešković | Vinča Institute of Nuclear Sciences, Belgrade, Serbia |
| Dragoslav R. Nikezić | University of Kragujevac, Kragujevac, Serbia |
| Predrag V. Osmokrović | University of Belgrade, Belgrade, Serbia |
| Vladimir M. Pavlovych | Kyiv Institute for Nuclear Research, Kyiv, Ukraine |
| Imre Pazsit | Chalmers University of Technology, Göteborg, Sweden |
| Maria Ranogajec-Komor | Ruder Bosković Institute, Zagreb, Croatia |
| Jordan Stamenov | Bulgarian Academy of Sciences, Sofia, Bulgaria |
| Djordje Tomašević | NECSA, Pretoria, South Africa |
| Peter K. N. Yu | City University of Hong Kong, Kowloon, Hong Kong |
| Dejan Žontar | Jozef Stefan Institute, Ljubljana, Slovenia |

The journal Nuclear Technology & Radiation Protection is published four times a year on March, June, September, and December by the Vinča Institute of Nuclear Sciences, P. O. Box 522, 11001 Belgrade, Serbia.

The editing of the journal is supported by the Ministry of Education, Science and Technological Development of the Republic of Serbia and by the Public Company Nuclear Facilities of Serbia.

All correspondence should be addressed to: Rodoljub SIMOVIĆ, Editor-in-Chief, Nuclear Technology & Radiation Protection, Vinča Institute of Nuclear Sciences • Address: P. O. Box 522, 11001 Belgrade, Serbia • Phone: (381-11)340-87-18 • Fax: (381-11)244-74-57 • E-mail: simovicr@vinca.rs

Technical editor: Vladimir Živković • *Proof readers:* Mina Ilić, Jelena Salai, and Suzana Bogojević • *Computer work:* Sanja Denčić • *Cover design:* Milijana Steljić • *Front cover painting:* Stojan Čelić, Earth (1981, detail)

Printed by: Printing office of the Vinča Institute of Nuclear Sciences, 14-16, Mike Petrovića Alasa Str., 11306 Belgrade, Vinča, Serbia

Circulation: 500 copies

Founder
Nuclear Society of Serbia

Co-Founder
Radiation Protection Society of
Serbia and Montenegro

Publisher
Vinča Institute of Nuclear Sciences