

A word from our Editor-in-Chief

CELEBRATION OF NONCONVENTIONAL TECHNOLOGIES IN TIMIȘOARA



The Nonconventional Technologies (NT) were celebrated after seven years, again in Timisoara, on the organization, between October 22-24, 2025, of the *XXIVth edition of the International Conference on Unconventional Technologies – ICNcT*.

Under the auspices of the *Ministry of Education and Research*, the *Academy of Scientists of Romania*, the *Academy of Technical Sciences of Romania*, the *Romanian Association for Unconventional Technologies – ARTN*, the *Romanian Association for Alternative Technologies – ARTA Sibiu*, *POLITEHNICA University of Timisoara*, (host institution) and the *“Lucian Blaga” University of Sibiu*, organized this edition, with the direct support of the *IOAN SLAVICI University of Timisoara*. The conference is the most representative Romanian conference dedicated to unconventional processing technologies and has a **54-year** tradition in the scientific world. The 2025 edition is part of the current context in which nanotechnologies, as part of unconventional processing, represent the future of the planet, and their importance in the economic development of each region is considered.

An important role in the successful organization of the conference was played by the *IOAN SLAVICI Foundation for Culture and Education Publishing House in Timisoara*, by publishing the brochure *"Book of abstracts"*, which includes, in addition to organizational details, all the abstracts of the papers presented, including those of the students participating in the first edition of the *"Aurel Carol NANU" Technical and Scientific Communications Session* - initiated as a section of ICNcT XXIV.



INTERNATIONAL CONFERENCE
OF NONCONVENTIONAL
TECHNOLOGIES
ICNcT – 24th Edition



Book of ABSTRACTS

22th – 24th October 2025
Timișoara, Romania

An exceptional editorial event was the launch, during the conference, of the volume *"Surface processing methods for parts made of conductive materials using pulsed electric discharges – DEI. Nonconventional technologies in a new approach"*, edited by distinguished professors: Pavel TOPALĂ - "Alec Russo" State University of Bălți, Republic of Moldova / National University of Science and Technology, Nicolae IONESCU - National University of Science and Technology, "Politehnica" Bucharest, respectively Dumitru MNERIE - "Politehnica" University of Timisoara. The book, edited under the care of the same publishing house, constitutes a valuable monograph in which the results of theoretical and experimental research on the initiation and development of impulse electrical discharges (DEI), between electrodes located in an air dielectric environment, the effects caused by the interaction of the plasma channel with the surfaces of the electrodes are synthesized. A new physical model of material sampling by electroerosion is proposed based on the development of capillary waves on the surface of liquid metal in the electric field of pulsed electric discharges, bombardment of surfaces with ions and electrons.



The book is intended for specialists in the field of nonconventional materials processing technologies, researchers, doctoral and master's students, engineers and students from relevant faculties.

This volume, being dedicated to the "Alec Russo" State University of Balti, Republic of Moldova, on the 80th anniversary of its founding, on December 16, 2025, it was also launched at the headquarters of the anniversaries'

university, in a beautiful ceremony, which could also be attended online.

Heartiest congratulations to those who made it possible to bring to the pages of the book many novelties from the research carried out by specialists in the field of nonconventional technologies, belonging to important universities located on both sides of the Prut. These are remarkable achievements, intended not only for nonconventional specialists, but are beneficial to the entire field of avant-garde science and technology.

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