

**International Conference of Nonconventional Technologies,
Technical University of Moldova, Chişinău, 30th of June- 2nd of July, 2016**

In 2016, the International Conference of Nonconventional Technologies – ICNcT, the most important Romanian scientific event dedicated to nonconventional technologies, at its 18th edition, it has been held for the first time in Chişinău, at the Technical University of Moldova.

With a history of over 45 years, ICNcT is organized nowadays every two years in different associated universities. In 2016, between 30th June and 2nd of July, the 18th edition of the International Conference of Nonconventional Technologies was organized by Technical University of Moldova, Chişinău and “Gheorghe Asachi” Technical University of Iaşi, having as co-organisers Romanian Association for Nonconventional Technologies (ARTN), Alecu Russo State University of Bălţi – Republic of Moldova and Stefan cel Mare University of Suceava – Romania.

The conference program included 5 plenary presentations and 41 technical papers, with 75 authors associated to 19 different universities and research centers from Romania (Bacău, Baia-Mare, Bucharest, Iaşi, Sibiu, Suceava, Târgu-Jiu, Timişoara), Moldova Republic (Bălţi and Chişinău), Slovakia, Poland, Serbia and India. All these papers were under review in order to be communicated during the conference and after to be published in the Nonconventional Technologies Review.

An important moment of the opening ceremony was dedicated to Professor Aurel Nanu, PhD, Doctor of Science, DHC and Professor Emeritus, the one who was successful in setting up the direction/trend in nonconventionl technologies research in Romania, for decades, and who started to organize the conferences ICNcT, almost half century ago. The plenary session was open by Professor Alexandra Banu, PhD from Politehnica University of Bucharest, presenting the audience the novelty on the *surface engineering research*, focusing on the modern methods to

evaluate the electrochemical properties and corrosion resistance of the advanced materials, both metal and ceramic coatings used for medical application, for implants, for instance. Professor Sergiu Mazuru continued the plenary session on the coating matter, his paper regarding *methods and apparatus for hardening and protective coating of gears*. Thus, one can say that coatings (technology and investigation) represent a research direction for both capitals, Bucharest and Chişinău.

In a friendly way, it may be considered that the nonconventional machining technologies evolution is carefully analyzed from Nord-East (Iaşi) to South-West (Timişoara), since the team from Gheorghe Asachi University of Iaşi presented *Nonconventional machining technologies in Romania and worldwide* and Professor Dumitru Mnerie from Politehnica University of Timişoara entitled his plenary presentation *Innovation and tradition in the nonconventional technologies*, focusing also on the organizing tasks of the Romanian Association of Nonconventional Technologies. The papers included in section presentations were related to the specific topics of the conference like technologies based on effects of electrical discharges (including here spark coating, EDM and wire EDM – from modeling, simulation, control to experimental research), chemical and electrochemical machining technologies, laser technologies (from laser scanning, laser engraving to laser cutting – theoretical or experimental approach), water jet cutting, additive manufacturing (like fused deposition modeling) and other related subject to design or environment impact.

Organizing ICNcT at Chişinău was a small, but important step for improving the collaboration between the researchers and the institutions from both sides of the Prut River, within a European participation. Hopefully, next ICNcT editions will prove that this aim was achieved.

Last but not least, we would like to thank to the participants, to the contributors of the 18th edition of ICNcT 2016, Chişinău!

Organizing team of ICNcT 2016