POLITEHNICA BUCHAREST

ICAMaT 2026

Programme

Wednesday, November 25, 2026

Time (RO)	Activities
13.00 – 13:30	**Participants registration – CK 103C main hall,** Faculty of Industrial Engineering and Robotics, National University of Science and Technology POLITEHNICA Bucharest
13.30 – 14.00	**ICAMaT 2026 opening – CK 103C** *Welcome speech:* • **Prof. Cristian DOICIN,** Dean of the Faculty of Industrial Engineering and Robotics (IIR), National University of Science and Technology POLITEHNICA Bucharest, Romania • **Prof. Nicolae IONESCU,** Head of Manufacturing Engineering Department (TCM), Faculty of Industrial Engineering and Robotics (IIR), National University of Science and Technology POLITEHNICA Bucharest, Romania
14.00 – 15.40	Plenary sessions – CK 103C & MS Teams
15.40 – 16.00	Break – CK 103C main hall
16.00 – 18.00	Plenary sessions – CK 103C & MS Teams
19:30	Social dinner – Vanity Restaurant

2026

Manufacturing Engineering Department (TCM)
Faculty of Industrial Engineering and Robotics
National University of Science and Technology **POLITEHNICA Bucharest**

ICAMaT 2026

15th International Conference on Advanced Manufacturing Technologies

SCIENTIFIC PAPER PRESENTATIONS | WEDNESDAY, 25 NOVEMBER 2026

SECTION 1 – ROOM CK 103c

Advanced Manufacturing Technologies, Quality and Sustainable Industrial Systems

Chairs: Prof. PhD Eng. Laurențiu SLĂTINEANU • Prof. PhD Eng. Marian GHEORGHE
Assoc. Prof. Manuela-Roxana DIJMĂRESCU

No.	Time (RO)	Authors / Paper title
1	14:00–14:20	Laurențiu Slătineanu, Oana Dodun, Gheorghe Nagîț, Andrei Marius Mihalache, Irina Beșliu-Băncescu, Vlada Țisari **Roughness of Cylindrical Surfaces Obtained with Abrasive Discs on a Lathe**
2	14:20–14:40	Oana Dodun, Gheorghe Nagîț, Marius-Andrei Mihalache, Vlada Țisari, Laurențiu Slătineanu **An Alternative Approach to Abrasive Belt Grinding Using a Lathe**
3	14:40–15:00	Radu Gînju, Paul Nistorescu, Alexandru Șoloiu, Gabriela Pârvu, Stavros Gkanatsios, Daniel Ghiculescu **Research on the Hybrid Ultrasonic ECM of G40 Grade Cemented Carbides**
4	15:00–15:20	Maria Coleș, Georgiana Iliescu, Nicolae Ionescu, Stavros Gkanatsios, Daniel Ghiculescu **Research on Electrochemical-Ultrasonic Hybrid Machining of Co-Cr Alloys**
5	15:20–15:40	Anant Wadhwa, Rocsana Bucea-Manea-Tonis, Ovidiu Blajina **A Reproducible Calibration Framework for Energy Systems**
	15:40–16:00	BREAK
6	16:00–16:20	Anant Wadhwa, Ovidiu Alupei, Manuela Roxana Dijmărescu **Long-Term Demand Forecasting for Energy System Modelling**
7	16:20–16:40	Cristina-Mihaela Bujdoiu, Mădălin-Gabriel Catană, Manuela Roxana Dijmărescu, Laurențiu Slătineanu **Failure Mode and Effects Analysis for Quality Improvement of Industrial Heat Exchangers**

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SECTION 2 – online MS TEAMS link

Modelling, Simulation and Intelligent Manufacturing Processes

Chairs: Prof. PhD Eng. Nicolae IONESCU • Prof. PhD Eng. Eduard Laurențiu NIȚU
Lecturer PhD Eng. Cornel Cristian ENCIU

No.	Time (RO)	Authors / Paper title
1	14:00–14:20	Constantin Arsene, Aris Chiper, Cristian Dumitru, Cornel Enciu **Research Concerning Gap Flushing in EDM of Medium-Sized Bores**
2	14:20–14:40	Daria Tutunaru, Viviana Ciorăneanu, Cornel Enciu **Study of Dielectric Fluid Flow During Gap Flushing in EDM Finishing of Large Surfaces**
3	14:40–15:00	Elena-Mădălina Dobre, Eduard Laurențiu Nițu, Jérémie Schutz **Towards Integrated Discrete-Event Simulation of Technical Failures, Maintenance and Human Errors in Industry 5.0 Production Systems**
4	15:00–15:20	Volodymyr Kukhar, Oleksandr Spichak, Elena Balalayeva, Hlib Khliestov **An Engineering Mathematical Model for Estimating Residual Emulsion Film Thickness after Industrial Tandem Cold Rolling**
5	15:20–15:40	Cătălin Barbu, Iustin Lupei, Emilia Olteanu, Cornel Enciu **Numerical and Experimental Study of Gap Flushing in EDM of Profiled Surfaces**
	15:40–16:00	BREAK
6	16:00–16:20	Stelian-Florin Bârdeș, Iulian-Sorin Munteanu **Natural-Language CAD of Rotational Parts with Manufacturing Rules in 3DEXPERIENCE**
7	16:20–16:40	Dan-Cristian Noveanu, Ioana Rad, Simona Noveanu **Influence of 3D-Printing on the Mechanical Behavior of a Five-Bar Compliant Mechanism**
8	16:40–17:00	Jakob Breiner, Daniel Huber, Marian Gheorghe **Deriving Rate- and Temperature-Dependent Minimum-Toughness Requirements for Safety-Critical Components: A FAD-Based Specification Workflow Supported by Numerical Simulation and Q/A Testing**
9	17:00–17:20	Cosmin Butura, Robert-Cătălin Ciocoiu, Apolonia-Cristina Ionescu, Gabriel Dobri, Alexandra Banu **Quality Control Strategies for Sustainable Repair Mortars with High Ash Content**
10	17:20–17:40	Patric Stănoiu, Andreas Atanasiu and Aurica Luminita Parv **Verifying Material Inspection Documents with Multimodal Large Language Models: a Step-by-Step Investigation of a Staged Checking Chain**