

# PROGRAM

## THE 23<sup>rd</sup> INTERNATIONAL CONFERENCE OF NONCONVENTIONAL TECHNOLOGIES



**PROGRAM**  
of  
**THE 23<sup>rd</sup> INTERNATIONAL CONFERENCE  
OF NONCONVENTIONAL  
TECHNOLOGIES**

**ICNcT 2024**

Organized by

NATIONAL UNIVERSITY OF SCIENCE AND  
TECHNOLOGY POLITEHNICA BUCHAREST

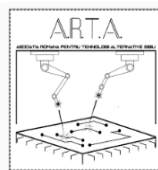
ACADEMY OF ROMANIAN SCIENTISTS

ROMANIAN ASSOCIATION FOR  
NONCONVENTIONAL TECHNOLOGIES

ROMANIAN ASSOCIATION FOR ALTERNATIVE  
TECHNOLOGIES SIBIU

with the support of

ROMANIAN MINISTRY OF RESEARCH AND  
INNOVATION



EDITURA PRINTECH - BUCUREȘTI

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"Lucian Blaga" University of Sibiu, Romania	National University of Science and Technology POLITEHNICA Bucharest

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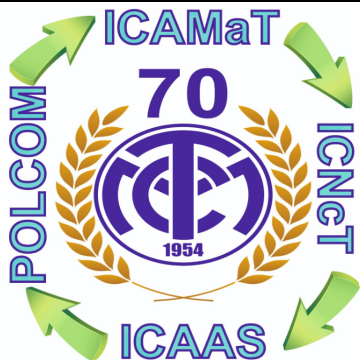
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# JOINT CONFERENCES' PROGRAM



- 8th International Conference on Progress on Polymers and Composites Products and Manufacturing Technologies (POLCOM)
- The 23<sup>rd</sup> International Conference of Nonconventional Technologies - ICNcT 2024
- 13<sup>rd</sup> International Conference on Advanced Manufacturing Technologies – ICAMaT 2024
- The 1<sup>st</sup> International Conference on Advanced Autonomous Systems ICAAS 2024

## TCM 70 + JOINT CONFERENCES + CONSORTIUM OF MECHANICAL AND INDUSTRIAL ENGINEERING FACULTIES PROGRAM

Thursday, 21<sup>st</sup> October

Time	Activities
8.30 - 9.00	<i>Registration of the participants</i> (Central Library, 4 <sup>th</sup> floor)
9.00 - 11.00	<b><i>Opening ceremony of TCM 70 and joint conferences ICAMaT, ICNcT, POLCOM and ICAAS - Central Library, 4<sup>th</sup> floor, Room A.4.1.</i></b> Welcome speeches of participants from all conferences and TCM 70 event: <ul style="list-style-type: none"><li>• <b>Mihnea Cosmin COSTOIU</b>, Rector of the National University of Science and Technology POLITEHNICA Bucharest</li></ul>

Time	Activities
	<ul style="list-style-type: none"> <li>• Prof. PhD Eng. <b>Anton HADĂR</b>, Vice-President of POLITEHNICA Senate</li> <li>• Prof. PhD Eng. Ec. <b>Cristian DOICIN</b>, Dean of the Faculty of Industrial Engineering and Robotics, POLITEHNICA Bucharest</li> <li>• Prof. PhD Eng. <b>Nicolae IONESCU</b>, Head of Manufacturing Engineering Department, POLITEHNICA Bucharest</li> <li>• Prof. PhD Eng. <b>Tiberiu DOBRESCU</b>, Head of Robots and Production Systems Department - POLITEHNICA Bucharest President of National Authority for Qualification (ANC)</li> <li>• Prof. PhD Eng. <b>Oana CHIVU</b>, Head of Quality Engineering and Industrial Technologies, POLITEHNICA Bucharest</li> <li>• Prof. PhD Eng. <b>Cătălin AMZA</b>, Director of Industrial Engineering and Robotics Doctoral School, POLITEHNICA Bucharest</li> <li>• Assoc. Prof. PhD Eng. <b>Liviu UNGUREANU</b>, Head of Mechanisms and Robots Theory, POLITEHNICA Bucharest, Coordinator of ICAAS Conference</li> <li>• Prof. PhD Eng. <b>Daniel VLĂSCEANU</b>, Head of Strength of Materials Department, POLITEHNICA Bucharest</li> <li>• Prof. PhD Eng. <b>Liviu Daniel GHICULESCU</b>, Coordinator of ICNcT Conference, ARTN Bucharest President, POLITEHNICA Bucharest</li> <li>• Prof. PhD Eng. <b>Constantin OPRAN</b>, Coordinator of POLCOM Conference, ASPAPLAST</li> <li>• Prof. PhD Eng. <b>Giuseppe LAMANA</b>, Coordinator of POLCOM Conference, Universita degli Studi della Campania Luigi Vanvitelli</li> <li>• Lecturer PhD. Eng. <b>Manuela DIJMARESCU</b>, Coordinator of ICAMaT Conference, POLITEHNICA Bucharest</li> <li>• Ing. <b>Gheorghe CAZAN</b>, President of the Manufacturing Engineering Sectoral Committee, Romania</li> <li>• Prof. PhD Eng. <b>Corneliu NEAGU</b>, POLITEHNICA Bucharest</li> <li>• Prof. PhD Eng. <b>Constantin STANCESCU</b>, POLITEHNICA Bucharest</li> <li>• Prof. PhD Eng. <b>Aurel VLASE</b>, POLITEHNICA Bucharest</li> <li>• Prof. PhD Eng. <b>Constantin MILITARU</b>, POLITEHNICA Bucharest</li> <li>• Prof. PhD Eng. <b>Pavel TOPALĂ</b>, Alecu Russo University, Bălți, Republic of Moldova,</li> <li>• Prof. PhD Eng. <b>Mariana BORCHA</b>, Chernivtsi (Cernăuți) National University, Ukraine</li> </ul> <p><b>Plenary session I - Central Library, 4<sup>th</sup> floor, Room A.4.1.</b></p> <p><b>Chairmen: Prof. PhD Eng. Ec. Cristian DOICIN, Prof. PhD Eng. Constantin OPRAN</b></p> <p>10.00 - 10.20 – <i>Investigation of color on plastic product failure or snap-fits which kill</i>, <b>Paul A. TRES</b>, ETS, Inc., Bloomfield Hills, Michigan, USA</p>

Time	Activities
	10.20 - 10.40 – <i>Leveraging Virtual Twin and Model-Based Systems Engineering to Elevate Engineering to the Next Level</i> , <b>Sasa GAJIC and Andrea Esposito</b> , Dassault Systèmes Deutschland GmbH

Time	Activities
	10.40 - 11.00 – <i>Information system for neural network analysis of X-ray and electron diffraction images of materials with defect structure</i> , <b>Igor Fodchuk, Mariana Borcha, Sergiy Balovsyak</b> , Chernivtsi National University, Ukraine
11.00- 11.30	Coffee break, Central Library, 4 <sup>th</sup> floor
11.30-13.30	<p><b>Plenary session II – Central Library, 3<sup>th</sup> floor, Room A.3.1. - ICAMaT, ICNcT and ICAAS</b></p> <p><b>Chairmen:</b> Prof. PhD Eng. <b>Liviu Daniel GHICULESCU</b>, Prof. PhD Eng. <b>Nicolae IONESCU</b>, Assoc. Prof. PhD Eng. <b>Liviu UNGUREANU</b></p> <p>11.30 - 11.40</p> <ul style="list-style-type: none"> <li>• Prof. PhD Eng. <b>Liviu Daniel GHICULESCU</b>, Coordinator of ICNcT Conference, ARTN Bucharest President, <i>POLITEHNICA Bucharest</i></li> <li>• Prof. PhD Eng. <b>Dumitru MNERIE</b>, ARTN President, <i>POLITEHNICA Timișoara University</i></li> <li>• Prof. PhD &amp; ScD Eng. &amp; Ec. <b>Aurel Mihail ȚÎȚU</b>, Editor in Chief of Nonconventional Technologies Review, President of A.R.T.A. Sibiu, Director of PATLIB Centre OSIM–EPO Sibiu, “<i>Lucian Blaga</i>” University of Sibiu</li> </ul> <p>11.40 - 12.00 – <i>Investigating Red Blood Cell micro/nano-mechanics</i>, Prof. PhD. Eng. <b>Dan Cojoc</b>, National Research Council of Italy, Materials Foundry, University of Trieste</p> <p>12.00 – 12.15 - <i>Challenges in Adapting R&amp;D Teams to Fast-Changing Ecosystems on the Path to Industry 5.0</i>, <b>Ronny HOPF</b>, Head of PMA Development House, Siemens AG, Germany</p> <p>12.15 - 12.35 – <i>Control equipment used in the automobile industry, production equipment in the aeronautical field and associated manufacturing technologies</i>, <b>Razvan FULGEANU, Silviu ION and Bogdan FULGEANU</b>, Allio Group, Romania</p> <p>12.35 - 12.55 – <i>CENIT: The expert in digital solutions for academia and industry</i>, <b>Valentin Ilie and Alina-Daniela Mihalcea</b>, CENIT S.R.L.</p> <p>12.55 - 13.15 – <i>Complex physical phenomenology of EDM with technological applications</i>, Prof. PhD, Eng. <b>Pavel TOPALĂ</b>, Alecu Russo University, Bălți, Republic of Moldova.</p> <p>13.15 - 13.30 – <i>EEG-Based Mobile Robot Control Using Deep Learning and ROS Integration</i>, <b>Bianca Ghinoiu, Victor Vlădăreanu</b>,</p>

Time	Activities
	<b>Ana-Maria Travediu, Luige Vlădăreanu, Abigail Pop, Yongfei Feng, Andreea Zamfirescu, IMSAR, Bucharest</b>
13.30-15.00	Lunch - New Library, 3 <sup>rd</sup> floor
15.00-18.45	Sections Papers according to each conference program
19.00-24.00	Gala Dinner (POTCOAVA restaurant)

<b>15.00-18.45</b>	<b>SECTION 1 – NONCONVENTIONAL PROCESSES, Hall 3.1, Central Library, Moderators: Prof. Aurel Mihail Țițu, Prof. Mihai Dragomir</b>
15.00-15.15	<b>1. CASE STUDY IN SUSTAINABILITY ANALYSIS FOR EDM, Mihai Dragomir, Diana Blagu, Aurel Mihail Țițu and Diana Dragomir</b>
15.15-15.30	<b>2. INTEGRATION OF NONCONVENTIONAL AI TOOLS FOR ENHANCING EFFICIENCY IN IT PROJECTS, Florin Claudiu Iuonas, Constantin Oprean, Diana Dragomir, Aurel Mihail Țițu and Ioan Danut Iuonas</b>
15.30-15.45	<b>3. INFLUENCE OF LASER WELDING PARAMETERS ON THE CHARACTERISTICS OF JOINTS BETWEEN S355 CARBON STEEL AND 304 STAINLESS STEEL, Alina Bianca Pop, Gheorghe Ioan Pop, Aurel Mihail Țițu and Sandor Ravai Nagy</b>
15.45-16.00	<b>4. INFLUENCE OF WELDING PARAMETERS ON WELD BEAD GEOMETRY IN LASER BEAM WELDING OF CARBON STEEL ST 37, Sandor Ravai Nagy, Aurel Mihail Țițu, Gheorghe Ioan Pop, Alina Bianca Pop and Péter Kósa</b>
16.00-16.15	<b>5. CLASSIC AND MODERN TECHNOLOGIES FOR THE DESIGN AND PROCESSING OF A PART WITH MEDIUM DIAMETERS BASED ON MEASUREMENTS IN 3D COORDINATES, Elena Stela Wisznovszky, Lavinia Ioana Culda, Geza Mihai Erdodi and Aurel Mihail Țițu</b>
16.15-16.30	<b>6. TECHNOLOGICAL FLOW IN ULTRASONIC WELDING OF COPPER CONDUCTORS USED IN THE AUTOMOTIVE FIELD, Elena Stela Wisznovszky, Lavinia Ioana Culda, Geza Mihai Erdodi and Aurel Mihail Țițu</b>
16.30-16.45	<b>7. INFLUENCE OF POLYMER TYPE ON TOLERANCE IN ADDITIVELY MANUFACTURED BENDING DIES, Cristian Giolu, Cătălin Gheorghe Amza and Constantin Alex Sumanariu</b>
16.45-17.00	<b>8. SEM ANALYSIS OF ADDITIVELY MANUFACTURED STAINLESS STEEL 316L AND CONVENTIONAL SAMPLE, Constantin Alex Sumanariu, Catalin Gheorghe Amza, Cristian Giolu, Silviu Stanciu and Madalin Savu</b>
17.00-17.15	<b>9. EMPIRICAL METHODS IN THE EVALUATION OF TECHNOLOGICAL PROCESSES, Remus Boboescu</b>
17.15-17.30	<b>10. EXPLORATORY RESEARCH APPLIED FOR THE PRIMARY ANALYSIS OF TECHNOLOGICAL PROCESSES, Remus Boboescu</b>
17.30-17.45	<b>11. NONCONVENTIONAL RADIOLOGICAL TECHNOLOGIES AND PROCESSES USED FOR NEUROSURGERY IN CORRELATION WITH INTELLECTUAL PROPERTY PROTECTION WITH DIRECT APPLICATION IN HEALTHCARE ORGANIZATION, Dan Theodor Andronic, Oana Roxana Chivu, Augustin Semenescu, Dragoș Florin Marcu and Aurel Mihail Țițu</b>
17.45-18.00	<b>12. NONCONVENTIONAL MANAGEMENT PROCESSES CORRELATED WITH TOTAL QUALITY MANAGEMENT IN A ROAD FREIGHT TRANSPORT ORGANIZATION, Alexandra Florina Iamandii, Maria Popa and Aurel Mihail Țițu</b>



18.00-18.15	<b>13. OPTIMIZATION OF NONCONVENTIONAL UV EMISSION PILLAR OF THE AUTONOMOUS MOBILE PLATFORM THROUGH STRUCTURAL ANALYSIS, Aurel Mihail Țițu, Daniel Bâlc, and Emanuel Bâlc</b>
18.15-18.30	<b>14. SPECIFIC METHODS IN THE AUTOMOTIVE INDUSTRY: ARTIFICIAL INTELLIGENCE IN THE INTEGRATION OF NONCONVENTIONAL MECHATRONIC SYSTEMS, Aurel Mihail Țițu, Emanuel Bâlc, Mihai Dragomir, and Daniel Bâlc</b>
18.30-18.45	<b>15. ASSESSING THE IMPACT OF NONCONVENTIONAL PROCESS AUDITS ON PRODUCT COMPLIANCE IN THE AUTOMOTIVE INDUSTRY, Ioan Dănuț Iuonaș, Dumitru Mnerie, Gabriela Victoria Mnerie, Claudiu Florin Iuonaș and Aurel Mihail Țițu</b>
19.30-23.30	Gala Dinner (POTCOAVA restaurant)

<b>15.00-18.45</b>	<b>SECTION 2 – SPECIAL NONCONVENTIONAL MACHINING, Hall CB 201, Faculty of Industrial Engineering and Robotics, Moderators: Prof. Oana Dodun Des Perrieres, Prof. LiviuDaniel Ghiculescu</b>
15.00-15.15	<b>1. SELECTING OF THE MOST SUITABLE NON-CONVENTIONAL WELDING PROCESS: A STUDY CASE, Oana Dodun, Andreea Istrate, Mihaela Nicolau, Vasile Merticaru and Gheorghe Nagit</b>
15.15-15.30	<b>2. SIMULATION OF HYDRODYNAMIC DEPASSIVATION IN ELECTROCHEMICAL CUTTING USING THIN ROD-TYPE ELECTRODE WITH HELICAL GROOVES, Elisaveta Crăciun, Margareta Coteață, Vasile Ermolai, Marius Andrei Mihalache and Laurențiu Slătineanu</b>
15.30-15.45	<b>3. THE INFLUENCE OF SOME INPUT FACTORS IN THE LASER BEAM CUTTING PROCESS ON THE SURFACE ROUGHNESS, Elisaveta Crăciun, Margareta Coteață, Adelina Hrițuc and Laurențiu Slătineanu</b>
15.45-16.00	<b>4. AN OVERVIEW OF NANOPARTICLES: METHODS OF OBTAINING, APPLICATIONS AND CHARACTERISTICS, Dmitri Botnari and Pavel Topală</b>
16.00-16.15	<b>5. MODIFYING THE ADHESION OF A POLYURETHANE COMPOSITE USABLE AS INSULATION ANTICORROSIVE AND ANTIFOULING ON A METAL SURFACE DEPENDING ON THE NATURE OF THE METAL SURFACE TREATMENT, Catalina Daniela Marin, Laurentiu Marin and Pavel Topală</b>
16.15-16.30	<b>6. VIBRATION MODES FEM ANALYSIS OF THE ULTRASONIC TRANSDUCER USED TO REDUCE THE FRICTION FORCE DURING WIRE DRAWING, Anda Nicoleta Cringureanu, Marilena Gheorghe, Popescu Alexandra, Andreea Otomega, Oana Chivu, Dan Nitoi</b>
16.30-16.45	<b>7. ON THE BENEFITS OF THE ECO-FRIENDLY CHITOSAN/ZnO COMPOSITE, Maria-Roxana Marinescu, Octavian Buiu, Cristina Pachi, Oana Brancoveanu, Cosmin Romanitan, Mirela Suche, Ovidiu Mărculescu</b>
16.45-17.00	<b>8. EFFECTS OF HYBRID TECHNOLOGY, ULTRASONIC EDM ON SURFACE QUALITY AND ECONOMIC EVALUATION MODEL, Liviu Daniel Ghiculescu, Viorica Răscol, Anca Duca, Roxana Silvia Ionescu</b>
17.00-17.15	<b>9. ULTRASONIC DEPASSIVATION IN THE ELECTROCHEMICAL-ULTRASONIC HYBRID MACHINING, Liviu Daniel Ghiculescu, Cornel-Cristian Enciu, Ovidiu-Dorin Alupei-Cojocariu and Marius-Vali Lazăr</b>
17.15-17.30	<b>10. SURFACE ROUGHNESS DECREASE AT THE ELECTROCHEMICAL-ULTRASONIC HYBRID MACHINING, Cornel-Cristian Enciu, Liviu Daniel Ghiculescu, Ovidiu-Dorin Alupei-Cojocariu and Marius-Vali Lazăr</b>

17.30-17.45	<b>11. STUDY OF ELECTROLYTE FLOW AT ELECTROCHEMICAL FINISHING, Ionuț Alexandru Bunea, Albert Georgian Păun, Liviu Daniel Ghiculescu, Cornel-Cristian Enciu</b>
17.45-18.00	<b>12. RESEARCH OF ULTRASONIC MATERIAL REMOVAL MECHANISM AT HYBRID ELECTROCHEMICAL FINISHING, Paul-Andrei Constantin, Paul-Mihai Pelengică, Constantin-Andrei Sandu, Liviu Daniel Ghiculescu, Cornel-Cristian Enciu</b>
18.00-18.15	<b>13. NUMERICAL SIMULATION OF THE MICROWAVE PASTEURIZATION PROCESS OF SOME FOOD LIQUIDS, Maria-Miruna Unguroiu , Luca-Valentin Alexa and Liviu Daniel Ghiculescu</b>
18.15-18.30	<b>14. MATERIAL DEPOSITION PROCESSES THROUGH ELECTRIC DISCHARGES - A REVIEW, Ana-Cristina Iuga and Liviu Daniel Ghiculescu</b>
18.30-18.45	<b>15. STUDY OF THERMAL DISTRIBUTION AND CLADDING GEOMETRY DURING LASER METAL DEPOSITION PROCESS USING FINITE ELEMENT ANALYSIS, Andrei Rusu, Ionuț Alexandru Bunea and Liviu Daniel Ghiculescu</b>
18.45-19.00	<b>16. EXPLORING NICKEL NANOPARTICLE SYNTHESIS THROUGH LASER ABLATION IN LIQUID, Alexandru-Mihai Iamandi, Liviu Daniel Ghiculescu, Nicu Doinel Scărișoreanu</b>
19.00-19.15	<b>17. INFLUENCE OF LASER WAVELENGTH TO NANOPARTICLES GENERATION, Alexandru-Mihai Iamandi, Liviu Daniel Ghiculescu, Nicu Doinel Scărișoreanu</b>
19.30-23.30	<i>Gala Dinner (POTCOAVA restaurant)</i>

<b>15.00-18.45</b>	<b>SECTION 3 - MANAGEMENT OF NONCONVENTIONAL TECHNOLOGIES, Hall CB 202, Faculty of Industrial Engineering and Robotics Moderators: Prof. Constantin Oprean, Prof. Dumitru Mnerie, Dr. eng. Claudiu Pîrnău</b>
15.00-15.15	<b>1. ON SOME ASPECTS OF THE EVOLUTION OF NON-CONVENTIONAL TECHNOLOGIES IN THE LAST DECADE, Dumitru Mnerie, Aurel Mihail Țîtu and Gabriela-Victoria Mnerie</b>
15.15-15.30	<b>2. ON THE FRIABILITY OF SERIES PRODUCTS MANUFACTURED BY DIRECT COMPRESSION OF NON-METALLIC GRANULES, Oleksandr Ziomenko, Oleksii Gubenia, Serhii Samarchuk and Dumitru Mnerie</b>
15.30-15.45	<b>3. INTELLIGENT PACKAGING BASED ON THE DEVELOPMENT AND IMPLEMENTATION OF INTEGRATED SOLUTIONS BASED ON IIOT, Oleksandr Gavva, Liudmyla Kryvopliasi-Volodina, Oleksandr Savchuk and Dumitru Mnerie</b>
15.45-16.00	<b>4. CONSIDERATIONS REGARDING DEFECTS THAT MAY OCCUR DURING FSP/SFSP PROCESSING OF ALUMINUM ALLOYS, Gabriela-Victoria Mnerie and Lia-Nicoleta Boțilă</b>
16.00-16.15	<b>5. STUDY ON INCREASING THE CORROSION RESISTANCE OF ALUMINUM ALLOYS BY FSP/SFSP PROCESSING, Lavinia-Ileana Sîrbu, Lia-Nicoleta Boțilă and Gabriela-Victoria Mnerie</b>
16.15-16.30	<b>6. BLOCKCHAIN AS A NONCONVENTIONAL TECHNOLOGY FOR ENHANCING QUALITY AND RISK MANAGEMENT IN CONSTRUCTION, Hadi Ghorbani Aghbolaghi</b>
16.30-16.45	<b>7. DIGITAL TWINS IN CONSTRUCTION: ENHANCING QUALITY THROUGH VIRTUAL SIMULATIONS, Hadi Ghorbani Aghbolaghi</b>

16.45-17.00	<b>8. REAL-TIME MONITORING OF POWER TOOLS USING A SMART STORAGE BOX, Marian-Florentin Ghena, Alexandra-Marina Todescu, Liviu Daniel Ghiculescu and Ovidiu-Dorin Alupei-Cojocariu</b>
17.00-17.15	<b>9. DEVELOPMENT OF AN ECO-FRIENDLY SOLUTION FOR CHARGING POWER TOOL BATTERIES, Alexandra-Marina Todescu, Marian-Florentin Ghena, Liviu Daniel Ghiculescu and Ovidiu-Dorin Alupei-Cojocariu</b>
17.15-17.30	<b>10. CRITICAL ANALYSIS OF THE MANAGERIAL ASPECTS OF THE ROMANIAN EDUCATIONAL SYSTEM, Ionela Luminita Canuta (Bucuroiu) and Adrian Ioana</b>
17.30-17.45	<b>11. NONCONVENTIONAL TECHNOLOGIES, EFFECTS OF CHANGES IN THE KNOWLEDGE-BASED ECONOMY, Claudiu Pîrnău, Liviu Daniel Ghiculescu and Marian Florentin Ghena</b>
17.45-18.00	<b>12. CONSIDERATIONS ABOUT SCHEDULING METHODS USED IN THE DESIGN BY NONCONVENTIONAL TECHNOLOGIES ORGANIZATION, Mihaela Nicolau</b>
18.00-18.15	<b>13. WORKPLACE ORGANIZATION AND IMPACT ON PRODUCTIVITY, Dan TULVAN Adrian BUT</b>
18.15-18.30	<b>14. COMPARATIVE STUDY OF 3D PRINTING PIECES WITH FILAMENT AND POWDER, Caius Stănăşel, Traian Buidos, Flaviu Corb, Gherghea Cosmin and Iulian Stănăşel</b>
19.30-23.30	Gala Dinner (POTCOAVA restaurant)

**Friday, 22<sup>th</sup> November, 12.00 - 14.00**

**General Assembly of Romanian Association for Nonconventional Technologies, Hall: CE 110**

## Notes

## Notes

