ROMAT 2026



CONFERENCE PROGRAM

ROMAT 2026

WELCOME

We have the pleasure to welcome you to the **11th International Conference on Materials Science and Technologies – ROMAT 2026,** which will be held at the **National University of Science and Technology POLITEHNICA Bucharest (Romania)** from November 12th to November 13th, 2026. **ROMAT 2026** is organized within the third edition of **MaterialFEST,** a complex event dedicated to innovation in the materials engineering field, which underlies all domains of industrial engineering.

The conference continues the tradition of successful conferences organized every two years by the **Faculty of Materials Science and Engineering** at **the National University of Science and Technology POLITEHNICA Bucharest**, with the support of the national and international scientific community in materials science and engineering. The conference will include plenary, keynote, and invited lectures, as well as oral and poster presentations. Speakers from all over the world will present their latest research in the field.

The participants will have the opportunity to follow the latest technological developments and related academic research, as well as novel material design and innovative products that will be presented by the companies.

We look forward to meeting you all at ROMAT 2026!

Yours sincerely,

ANTONIAC Iulian
President of the ROMAT 2026 Conference



In the name of the Steering Committee of the ROMAT 2026 Conference

STEERING COMMITTEE

ȘTEFĂNOIU Radu

Dean of the Faculty of Materials Science and Engineering

ANTONIAC Iulian

President of the ROMAT 2026 Conference

Head of the Metallic Materials Science and Physical Metallurgy Department

SOHACIU Mirela Gabriela

Vice-Dean of the Faculty of Materials Science and Engineering

SEMENESCU Augustin

Vice-Dean of the Faculty of Materials Science and Engineering

COTRUȚ Mihai Cosmin

Vice-Dean of the Faculty of Materials Science and Engineering

ȘERBAN Nicolae

Vice-Dean of the Faculty of Materials Science and Engineering

MARCU Dragoș Florin

Director of the Engineering and Management of Metallic Materials Obtainment Department

COJOCARU Vasile Dănuț

Director of the Metallic Materials Processing and Environmental Engineering Department

MICULESCU Florin

Head of the Materials Science and Engineering Doctoral School

INTERNATIONAL SCIENTIFIC COMMITTEE

Anghel Ion (Romania)

Antoniac Iulian (Romania)

Bădărău Gheorghe (Romania)

Balaszi Csaba (Hungary)

Bejinariu Costică (Romania)

Benea Lidia (Romania)

Buruiană Daniela (Romania)

Cihangir Duran (Türkiye)

Cojocaru Dănuț (Romania)

Cotruț Cosmin (Romania)

Eliezer Dan (Israel)

Geanta Victoras (Romania)

Ghiban Brândușa (Romania)

Göçmez Hasan (Türkiye)

Göller Gültekin (Türkiye)

Istrate Bogdan (Romania)

Marcu Dragoș (Romania)

Marinca Traian (Romania)

Matei Ecaterina (Romania)

Miculescu Marian (Romania)

Munteanu Corneliu (Romania)

Miculescu Florin (Romania)

Munteanu Daniel (Romania)

Neamțu Bogdan (Romania)

Pascu Alexandru (Romania)

Popa Cătălin (Romania)

Popa Florin (Romania)

Predescu Cristian (Romania)

Rau Julietta (Italy)

Ripoșan Iulian (Romania)

Rotariu Traian (Romania)

Socalici V. Ana (Romania)

Sandu Andrei Victor (Romania)

Semenescu Augustin (Romania)

Ștefănoiu Radu (Romania)

Stan S. Constantin (Romania)

Sohaciu Mirela (Romania)

Șerban Nicolae (Romania)

Țierean Mircea (Romania)

Țigănescu Tudor Viorel (Romania)

Vizureanu Petrică (Romania)

ORGANIZING COMMITTEE

Gabriel Petrea	Stefan Moisescu	Dana Serban
Iulian Vasile Antoniac	Mihai Cosmin Cotruț	Florin Miculescu
Constantin Stelian Stan	Brandusa Ghiban	Marian Miculescu
Adrian Onici	Andrei Berbecaru	Stancel Domenic Constantin
Andra Predescu	Mariana Ciurdas	Vasile Dănuț Cojocaru
Octavian Trante	Diana Vranceanu	Ana-Iulia Bita
Larisa Popescu	Ecaterina Matei	Aurora Antoniac
Robert Bololoi	Poenaru Elena	Iuliana Corneschi
Nicolae Serban	Dan Batalu	Mihai Butu

PANELS – SCIENTIFIC SESSIONS

- **Materials Obtaining, Processing and Characterization**
  Chairs & Company Representatives (Panel Members): Vasile Danut COJOCARU, Nicolae SERBAN, Constantin Stelian STAN, Nicanor CIMPOESU, Constantin APOSTOL, Marin CILIANU, Mihaela POPESCU, Bogdan PREJOIANU

- **Advanced Materials for Industrial Applications**
  Chairs & Company Representatives (Panel Members): Radu STEFANOIU, Nicolae Dan BATALU, Daniela BURUIANA, Corneliu MUNTEANU, Alexandru PASCU, Bogdan CHESARAICU, Iulian SPANU, Mihai MOCANU

- **Materials for Healthcare & Medical Engineering (biomaterials & medical devices)**
  Chairs & Company Representatives (Panel Members): Iulian ANTONIAC, Florin MICULESCU, Catalin POPA, Elena OVREIU, Anca Daniela RAICIU, Alin LADARU, Alexandru STERE

- **Materials for Defense and Security Applications**
  Chairs & Company Representatives (Panel Members): Marian MICULESCU, Traian ROTARIU, Tudor-Viorel TIGANESCU, Vlad-Constantin ISTRATE, Florin PISICA, Raluca-Elena GINGHINA, Irina CARCEANU

- **Materials Obtaining, Processing and Characterization**
  Chairs & Company Representatives (Panel Members): Radu STEFANOIU, Constantin Stelian STAN, Vasile Danut COJOCARU, Nicolae SERBAN, Nicanor CIMPOESU, Radu NEDELCU, Marius GABREANU, Cristinel Gheorghe MOGA

- **Materials and Advanced Technology for Dentistry**
  Chairs & Company Representatives (Panel Members): Iulian ANTONIAC, Cosmin Mihai COTRUT, Eduard LICIU, Peter Paul FISCHER, Miruna-Andreea ANGHEL, Brandusa GHIBAN, Petrica VIZUREANU, Kamel EARAR

- **EcoMaterials and Environmental Engineering**
  Chairs & Company Representatives (Panel Members): Ecaterina MATEI, Andra Mihaela PREDESCU, Andrei-Constantin BERBECARU, Lidia BENEA, Costica BEJINARIU, Ciprian MANEA

CONFERENCE VENUE



The conference will be held at the ***Rectorate Building*** at ***the National University of Science and Technology POLITEHNICA Bucharest, Romania***, Splaiul Independentei nr. 313, sector 6.

National University of Science and Technology POLITEHNICA Bucharest, Romania, is the largest and the oldest technical university in the country and among the most prestigious universities in Romania. The tradition of our institution, developed in over 190 years through the effort of the most important nation's schoolmasters and of the generations of students, is not the only convincing reason. Today, the National University of Science and Technology POLITEHNICA Bucharest is undergoing a continuous modernization process, being involved in a permanent dialogue with great universities in Europe and all over the world.

The mission of National University of Science and Technology POLITEHNICA Bucharest has been thought over as a blend of education, research and innovation, which represents a key towards a knowledge-based society and economy. Creating knowledge mainly by scientific research, giving it out by education and professional training, disseminating it by information technologies, as well as the use of technological innovation are elements that define the university distinctive profile.

CONFERENCE VENUE

Bucharest is Romania's capital and largest city, as well as the most important industrial and commercial center of the country. With more than 2.4 million people in the urban area, Bucharest is one of the most important cities in Europe and a booming city with many large infrastructure projects changing the old face of the city.
Known in the past as "The Little Paris," Bucharest has changed a lot lately, and today it has become a very interesting mix of old and new that has little to do with its initial reputation. Bucharest offers some excellent attractions. Also, it has cultivated a sophisticated, trendy, and modern sensibility that many have come to expect from a European capital.



The Palace of the Parliament



The Peasant and Village Museums



The Romanian Athenaeum



The National History Museum

ROMAT 2026

PROGRAM OVERVIEW

Thursday, November 12th, 2026

Time	Event	Location
12.00-13.00	**Opening Ceremony**	Rectorate AN 010
13.00-13.30	*Poster Session & Visit MATERIALFEST*	*Rectorate Building*
13.30-15.00	**Plenary Session 1**	Rectorate AN 010
15.00-16.00	Group Photo *Coffee Break & Poster Session & Visit MATERIALFEST*	*Rectorate Building*
16.00-19.00	Scientific Session – PANEL 1 **Materials Obtaining, Processing and Characterization**	Rectorate AN 034
16.00-19.00	Scientific Session – PANEL 2 **Advanced Materials for Industrial Applications**	Rectorate AN 010
20.00	*Gala Dinner*	*Restaurant Vanity*

Friday, November 13th, 2026

Time	Event	Location
09.00-12.00	Scientific Session – PANEL 3 **Materials for Healthcare & Medical Engineering**	Rectorate AN 010
09.00-12.00	Scientific Session – PANEL 4 **Materials for Defense and Security Applications**	Rectorate AN 034
09.00-12.00	Scientific Session – PANEL 1 **Materials Obtaining, Processing and Characterization**	Senate Hall
12.00-13.00	**Round Table: Education in Materials Engineering**	Rectorate AN 010
13.00-14.00	*Lunch Break & Poster Session & Visit MATERIALFEST*	*Rectorate Building*
14.00-15.30	**Plenary Session 2**	Rectorate AN 010
15.30-16.00	*Coffee Break & Poster Session & Visit MATERIALFEST*	*Rectorate Building*
16.00-19.00	Scientific Session – PANEL 5 **Materials and Advanced Technology for Dentistry**	Rectorate AN 010
16.00-19.00	Scientific Session – PANEL 6 **EcoMaterials and Environmental Engineering**	Rectorate AN 034
19.00-20.00	**Awards & Closing Ceremony**	Rectorate AN 010
20.00	*Farewell Cocktail*	*Rectorate Building*

PROGRAM DETAILS

Thursday, November 12th, 2026

12.00-13.00
Amphitheatre AN 010
OPENING CEREMONY

12.00-12.10 | Opening Speech
Radu ȘTEFĂNOIU, Dean Faculty Materials Science and Engineering, POLITEHNICA Bucharest
Speakers:
12.10-12.20 | Tudor PRISECARU, President of the Senate POLITEHNICA Bucharest
12.20-12.25 | Valentin-Sorin COSTREIE, Ministry of Education and Research TBC
12.25-12.30 | Anca-Ioana URDA, State Subsecretary, Ministry of Investments and European Projects
12.30-12.35 | Irinel-Alexandru PRECUP, Chief Inspector, "Dealul Spirii" Inspectorate for Emergency Situations, Bucharest-Ilfov
12.35-12.40 | Andrei-Rudolf CORLAN, General Commissioner, National Environmental Guard
12.40-12.45 | Mihai APOSTOL - Head of the Monetary Production and Quality Control Department, State Mint, State Mint
12.45-12.50 | Ion-Toni TEAU, General Director Zirom Titanium (Zirom S.A. Giurgiu)
12.50-12.55 | Traian ROTARIU, President of the Senate "Ferdinand I" Military Technical Academy, Bucharest
12.55-13.00 | Vasile-Iulian ANTONIAC, Faculty Materials Science and Engineering, POLITEHNICA Bucharest, RoMat 2026 President

13.00-13.30 **POSTER SESSION**
VISIT MATERIALFEST

13.30-15.00
Amphitheatre AN 010
Chairs:
Iulian ANTONIAC (NUST POLITEHNICA Bucharest)
Radu STEFANOIU (NUST POLITEHNICA Bucharest)
PLENARY SESSION 1
- **Gültekin GÖLLER (Türkiye)**
- **Dan ELIEZER (Israel)**
- **Csaba BALASZI (Hungary)**

15.00-16.00 **GROUP PHOTO**
COFFEE BREAK & POSTER SESSION
VISIT MATERIALFEST

16.00-19.00
Amphitheatre AN 034
PANEL 1 Materials Obtaining, Processing and Characterization

Chairs & Company Representatives (Panel Members)

Vasile Danut COJOCARU (NUST POLITEHNICA Bucharest)
Nicolae SERBAN (NUST POLITEHNICA Bucharest)
Constantin Stelian STAN (NUST POLITEHNICA Bucharest)
Nicanor CIMPOESU (Technical University "Gheorghe Asachi" of Iasi)
Constantin APOSTOL (AS METAL)
Marin CILIANU (ALRO Slatina)
Mihaela POPESCU (TENARIS)
Bogdan PREJOIANU (TEMCO)

PANEL Program

Keynote Lectures

Bogdan Viorel NEAMTU (Technical University of Cluj-Napoca)
Iulian RIPOSAN (NUST POLITEHNICA Bucharest)

Oral Presentation
Short Presentation of Companies
Debates

16.00-19.00
Amphitheatre AN 010
PANEL 2 Advanced Materials for Industrial Applications

Chairs & Company Representatives (Panel Members)

Radu STEFANOIU (NUST POLITEHNICA Bucharest)
Nicolae Dan BATALU (NUST POLITEHNICA Bucharest)
Daniela BURUIANA ("Lower Danube" University of Galati)
Corneliu MUNTEANU (Technical University "Gheorghe Asachi" of Iasi)
Alexandru PASCU (Transilvania University of Brasov)
Bogdan CHESARAICU (Standard Service 2000 SRL)
Iulian SPANU (Romfire Protect Solutions)
Mihai MOCANU (APA NOVA Veolia Bucharest)

PANEL Program

Keynote Lectures

Ileana Cristina COVALIU-MIERLA (NUST POLITEHNICA Bucharest)
Viorica GHISMAN ("Lower Danube" University of Galati)
Traian Florin MARINCA (Technical University of Cluj-Napoca)
Göknur KARADENIZ (Istanbul Technical University)

Oral Presentation
Short Presentation of Companies
Debates

20.00 **GALA DINNER** **Restaurant Vanity**

PROGRAM DETAILS

Friday, November 13th, 2026

09.00-12.00

Amphitheatre AN 010

PANEL 3 Materials for Healthcare & Medical Engineering

Chairs & Company Representatives (Panel Members)

Iulian ANTONIAC (NUST POLITEHNICA Bucharest)
Florin MICULESCU (NUST POLITEHNICA Bucharest)
Catalin POPA (Technical University of Cluj-Napoca)
Elena OVREIU (GIV-HEALTH™, GIV Solutions)
Anca Daniela RAICIU (HOFIGAL)
Alin LADARU (ENLIFE)
Alexandru STERE (MEDICAL ORTOVIT)

PANEL Program

Keynote Lectures

Catalin POPA (Technical University of Cluj-Napoca)
Stefan Ioan VOICU (NUST POLITEHNICA Bucharest)
Florin MICULESCU (NUST POLITEHNICA Bucharest)

Oral Presentation
Short Presentation of Companies
Debates

09.00-12.00

Amphitheatre AN 034

PANEL 4 Materials for Defense and Security Applications

Chairs & Company Representatives (Panel Members)

Marian MICULESCU (NUST POLITEHNICA Bucharest)
Traian ROTARIU („Ferdinand I“ Military Technical Academy Bucharest)
Tudor-Viorel TIGANESCU („Ferdinand I“ Military Technical Academy Bucharest)
Vlad-Constantin ISTRATE (STIMPEX S.A.)
Florin PISICA (TOP Metrology)
Raluca-Elena GINGHINA (Research and Innovation Center for CBRN Defense and Ecology, Bucharest)
Irina CARCEANU (National Company ROMARM S.A.)

PANEL Program

Keynote Lectures

Lucian GRUIONU (University of Craiova)
Catalin-Petrica ARAMA ("Lower Danube" University of Galati)
Traian ROTARIU („Ferdinand I“ Military Technical Academy Bucharest)
Marian MICULESCU (NUST POLITEHNICA Bucharest)

Oral Presentation
Short Presentation of Companies
Debates

09.00-12.00
Senate Hall
PANEL 1 Materials Obtaining, Processing and Characterization
Chairs & Company Representatives (Panel Members)

Radu STEFANOIU (NUST POLITEHNICA Bucharest)
Constantin Stelian STAN (NUST POLITEHNICA Bucharest)
Vasile Danut COJOCARU (NUST POLITEHNICA Bucharest)
Nicolae SERBAN (NUST POLITEHNICA Bucharest)
Nicanor CIMPOESU (Technical University "Gheorghe Asachi" of Iasi)
Radu NEDELCU (NAMICON)
Marius GABREANU (NUTECHNOLOGIES)
Cristinel Gheorghe MOGA (STRUERS)

PANEL Program

Keynote Lectures
Vasile Danut COJOCARU (NUST POLITEHNICA Bucharest)
Oral Presentation
Short Presentation of Companies
Debates

12.00-13.00
Amphitheatre AN 010
ROUND TABLE: EDUCATION IN MATERIALS ENGINEERING

- CNATDCU Commission 7 (Materials Engineering and Science)
- Deans of the Materials Engineering Faculties in Romanian Universities
- Relevant experts in materials engineering
- Relevant experts in university management

13.00-14.00 **LUNCH BREAK & POSTER SESSION**
VISIT MATERIALFEST

14.00-15.30
Amphitheatre AN 010
PLENARY SESSION 2
Chairs:
Florin MICULESCU (NUST POLITEHNICA Bucharest)
Cosmin COTRUT (NUST POLITEHNICA Bucharest)

- **Hasan GÖÇMEZ (Türkiye)**
- **Corrado PICONI (Italy)**
- **Cihangir DURAN (Türkiye)**

15.30-16.00 **COFFEE BREAK & POSTER SESSION**
VISIT MATERIALFEST

16.00-19.00
Amphitheatre AN 010
PANEL 5 Materials and Advanced Technology for Dentistry

Chairs & Company Representatives (Panel Members)

Iulian ANTONIAC (NUST POLITEHNICA Bucharest)
Cosmin Mihai COTRUT (NUST POLITEHNICA Bucharest)
Eduard LICIU (Innovation & eHealth Center – U.M.F. "Carol Davila")
Peter Paul FISCHER (Dr.Fischer Dental Lab)
Miruna-Andreea ANGHEL (University of Medicine and Pharmacy of Craiova)
Brandusa GHIBAN (NUST POLITEHNICA Bucharest)
Petrica VIZUREANU (Technical University "Gheorghe Asachi" of Iasi)
Kamel EARAR ("Lower Danube" University of Galati)

PANEL Program

Keynote Lectures

Lucian Toma CIOCAN (University of Medicine and Pharmacy "Carol Davila" Bucharest)
Miruna-Andreea ANGHEL (University of Medicine and Pharmacy of Craiova)
Maria-Diana VRANCEANU (NUST POLITEHNICA Bucharest)

Oral Presentation
Short Presentation of Companies
Debates

16.00-19.00
Amphitheatre AN 034
PANEL 6 EcoMaterials and Environmental Engineering

Chairs & Company Representatives (Panel Members)

Ecaterina MATEI (NUST POLITEHNICA Bucharest)
Andra Mihaela PREDESCU (NUST POLITEHNICA Bucharest)
Andrei-Constantin BERBECARU (NUST POLITEHNICA Bucharest)
Lidia BENEA ("Lower Danube" University of Galati)
Costica BEJINARIU (Technical University "Gheorghe Asachi" of Iasi)
Ciprian MANEA (VEGA Holding)

PANEL Program

Keynote Lectures

Rodica Mariana ION (Valahia University of Targoviste)
Anca Andreea SAULEAN (NUST POLITEHNICA Bucharest)

Oral Presentation
Short Presentation of Companies
Debates

19.00-20.00
Amphitheatre AN 010
AWARDS & CLOSING CEREMONY

20.00 FAREWELL COCKTAIL (Rectorate Building)

PLENARY

INVITED SPEAKERS



Gultekin Goller (Türkiye)



Professor
Department of Metallurgical and Materials Engineering
Faculty of Chemistry-Metallurgy
Istanbul Technical University, Türkiye
goller@itu.edu.tr

Professor Gultekin Goller is a Professor of Materials Science in the Department of Metallurgical and Materials Engineering at Istanbul Technical University, Turkey. Co-author of 132 scientific articles and 5 book chapters, with over 2479 citations reported by WoS (H-index 28) as of October 30th, 2024. He supervised 10 Phd and 40 MSc thesis in addition, he is member of the scientific committee of different meetings, head of the organizing committee for different international conferences, member of the International Editorial Board of some journals, and reviewer for different journals. He is honoured with the "Doctor Honoris Causa" title in material science from POLITEHNICA University of Bucharest in 2022. He is awarded to "Pro Scientia et Innovatio" Honorary Order of Romania Inventory Forum in 2023. He also serves to Romania Higher Education Accreditation Council (ARACIS) as international experts.

His research interests are in the field of metallurgical & material engineering especially ceramic based composite materials, high entropy alloys, biomaterials and refractory materials. His main activities relating to these topics are focused on the spark plasma sintering, plasma coating and materials characterization by X-ray diffraction and electron microscopic techniques.

Title of the ROMAT 2026 lecture:

"Processing and microstructural characterization of CoCrFeNiAlx high-entropy alloys: effects of mechanical alloying and B4C addition"

Dan Eliezer (Israel)



Professor Dan Eliezer was educated at the Technion Institute of Technology in Israel where he received a B.Sc. in Physics in 1969, M.Sc. in Materials Engineering in 1971 and the Doctor of Science in 1975. He was a Research Associate at University of Illinois at Urbana-Champaign between 1975 and 1977. From 1977 to 1978, he joined the NASA-AMES Research Center as an Associate. From 1984 to 1986, he was a National Research Council Senior Associate at the Air Force Base in Dayton, Ohio. He became the Head the Department of Materials Engineering at Ben Gurion University in Beersheva, Israel in 1986 until 1990 and again in 2000 until 2005. In 2005, he was a Senior Visiting Scientist at BAM, the Federal Institute for Materials Research & Testing in Berlin, Germany. In addition to his position at Ben Gurion University, he acts as Vice President and Chief Scientist for C.En Technology Ltd., which develops technology for hydrogen storage in glass structures.

Title of the ROMAT 2026 lecture:

"A New Technology for Hydrogen Safety: Hydrogen Storage for Portable and Mobile Systems"

Balaszi Csaba (Hungary)



Dr. Csaba Balázsi is a Scientific Advisor at the HUN-REN Center for Energy Research, a Center of Excellence of the Hungarian Academy of Sciences. He obtained MSc degree in Materials Science and Metallurgical Engineering from Transilvania University of Brasov, Romania. He received a PhD in Materials Science from the University of Miskolc, Hungary, in 2000. He was a visiting scientist at Tokyo Institute of Technology, Japan in 2001, University of Limerick, Ireland and Istanbul Technical University, Turkey in 2003.

He is President of Fine Ceramics section of the Hungarian Scientific Society of Silicate Industry (SZTE) and Representative of SZTE in the International Ceramic Federation (ICF), Member of the Council Board and Industrial Working Group Leader – European Ceramic Society (ECerS), Member of the American Ceramic Society (ACerS) since 2004, Member in European Materials Research Society (EMRS), Bolyai Engineering Science Committee Evaluation (HAS). He served as a Board Member of the Hungarian Society of Materials Science (MAE), Executive Committee Member of the Federation of European Materials Societies (FEMS), Member of PEC (ECerS), and Steering Committee Member of the Energy Materials Industry Research Initiative (EMIRI), Brussels.

He organized several international conferences, was acting as chair of CMCEE14, 2024 (Budapest), ECERS2017 (Budapest), FEMS Junior EUROMAT2018 (Budapest), symposium co-organizer in ICACC (ACerS) Daytona Beach, USA, EMRS Fall Meeting Symposia (Warsaw) with topics on ceramics-based nanocomposites and co-chair of WoCeram2019 (JECS Trust, Budapest). He holds several awards, fellowships: Bolyai Plaqett (HAS), Fellow of the European Ceramic Society (ECerS), Gabor Dennis award (Novofer Foundation), ACerS Global Amassador (ACerS), Fellow of the American Ceramic Society (ACerS) and he is Academician of the World Academy of Ceramics.

Title of the ROMAT 2026 lecture:

"Current status and future trends in nanocarbon added silicon nitrides"

Hasan Gocmez (Türkiye)



Professor Hasan Gocmez received his B.Sc. degree in Metallurgical Engineering from Middle East Technical University (METU), Türkiye, in 1994, and his M.Sc. and Ph.D. degrees in Materials and Ceramic Engineering from Rutgers University, New Jersey, USA, in 1997 and 2001, respectively. He was awarded a prestigious fellowship by the Japan Society for the Promotion of Science (JSPS) and conducted research at Yamaguchi University in Japan during 2006–2007.

Throughout his career, Prof. Gocmez has held visiting scientist positions at several internationally recognized institutions, including AIST (Japan), Stockholm University (Sweden), Stevens Institute of Technology (USA), and Rutgers University (USA). He is currently a Professor in the Department of Metallurgical and Materials Engineering at Kütahya Dumlupınar University.

His research interests focus on advanced ceramic processing, nanomaterials, and energy storage technologies, particularly supercapacitors, solar cells, and lithium-based and reserve battery systems. Prof. Gocmez is the author of more than 100 scientific publications, including journal articles and conference proceedings, and holds one granted patent. He has served as Associate Editor of the Journal of the Ceramic Society of Japan and as Editor of the Science and Engineering Journal of Dumlupınar University. He has coordinated 14 national and 4 international research projects supported by programs such as EU-FP6, JSPS, TÜBİTAK, and BOREN. He has received several prestigious national and international awards, including the JSPS Fellowship (Japan), the RoMat Excellence Award (Romania), the SME Productivity Incentive Award from the Ministry of Science, Industry and Technology of Türkiye, the Serhat Özyar Ph.D. Thesis Award from METU, and multiple best thesis awards in engineering.

Title of the ROMAT 2026 lecture:

"High-entropy borides for supercapacitors"

Corrado PICONI (Italy)



Professor Corrado Piconi was in the New Materials Division of the Italian National Agency for New Technology, Energy and the Environment (ENEA) until 2000 and has been performing research on ceramic biomaterials since 1998. In 2000 he was appointed as R&D Project Manager in Tecnobiomedica S.p.A working on the development of medical devices for orthopedic and cardiovascular applications.

From 2005 to 2014 he was Scientific Director of the MeLab R&D facility of GHIMAS S.p.A. (Brindisi, Italy), working on ceramic and polymeric scaffolds for bone tissue engineering.

Professor Piconi has been a Lecturer in the School of Orthopedics, Faculty of Medicine of the Catholic University in Rome, where he currently teaching in Applied Physics. He is Fellow in the Centre for New Materials for Prosthetic Technologies, in the University of Tor Vergata, Roma, Italy, and associate member of the Institute for the Science and Technology of Ceramic Materials of the Italian National Research Council (ISTEC-CNR), Faenza, Italy. Prof. Piconi is member of the Board of International Academy of Ceramic Implantology (IAOCI), active member of the Italian Society for Biomaterials (SIB), of the European Society for Biomaterials (ESB), of the International Society for Ceramics in Medicine (ISCM), of the Italian Society for Research in Orthopedics (IORS). He is referee for international scientific journals in the field of biomaterials. He is author of more than 100 articles and book chapters with more than 2000 citations by December 2016.

Title of the ROMAT 2026 lecture:

"Orthopedic Implant Technology – Development in Progress and Regulatory Constraint"

Cihangir Duran (Türkiye)



Dr. Cihangir Duran received his Ph.D. degree from the Pennsylvania State University in 2001. He has been: a faculty member at the Gebze Institute of Technology (Turkey) from 2002 to 2010, a visiting scientist at the Advanced Industrial Science and Technology (Japan) from 2003 to 2005, co-founder of MSE Teknoloji Ltd. from 2007 to 2010, Technology Research Leader and Underwater Acoustic System Engineering Manager at the Meteksan Savunma (Defense) Sanayii A.Ş. (Turkey) from 2010 to 2013, and currently Professor of Materials Engineering Department at the Ankara Yıldırım Beyazıt University in Türkiye since 2013.

Title of the ROMAT 2026 lecture:

"Texturing functional ceramics"

KEYNOTE SPEAKERS

- **Bogdan Viorel NEAMTU (Technical University of Cluj-Napoca)**
- **Iulian RIPOSAN (NUST POLITEHNICA Bucharest)**
- **Ileana Cristina COVALIU-MIERLA (NUST POLITEHNICA Bucharest)**
- **Viorica GHISMAN ("Lower Danube" University of Galati)**
- **Traian Florin MARINCA (Technical University of Cluj-Napoca)**
- **Göknur KARADENIZ (Istanbul Technical University)**
- **Catalin POPA (Technical University of Cluj-Napoca)**
- **Stefan Ioan VOICU (NUST POLITEHNICA Bucharest)**
- **Florin MICULESCU (NUST POLITEHNICA Bucharest)**
- **Lucian GRUIONU (University of Craiova)**
- **Catalin-Petrica ARAMA ("Lower Danube" University of Galati)**
- **Traian ROTARIU („Ferdinand I“ Military Technical Academy Bucharest)**
- **Marian MICULESCU (NUST POLITEHNICA Bucharest)**
- **Vasile Danut COJOCARU (NUST POLITEHNICA Bucharest)**
- **Lucian Toma CIOCAN (University of Medicine and Pharmacy "Carol Davila" Bucharest)**
- **Miruna-Andreea ANGHEL (University of Medicine and Pharmacy of Craiova)**
- **Maria-Diana VRANCEANU (NUST POLITEHNICA Bucharest)**
- **Rodica Mariana ION (Valahia University of Targoviste)**
- **Anca Andreea SAULEAN (NUST POLITEHNICA Bucharest)**



PROGRAM

Tuesday, November 12th, 2026

PLENARY SESSION 1
13.30-15.00 Amphitheatre AN 010
Chairs:
Iulian ANTONIAC (NUST POLITEHNICA Bucharest)
Radu STEFANOIU (NUST POLITEHNICA Bucharest)

13:30 – 14:00 Plenary lecture P.1.
Gültekin GÖLLER (Türkiye) - ***Processing and microstructural characterization of CoCrFeNiAlx high-entropy alloys: effects of mechanical alloying and B4C addition***

13:30 – 14:00 Plenary lecture P.2.
Dan ELIEZER (Israel) - ***A New Technology for Hydrogen Safety: Hydrogen Storage for Portable and Mobile Systems***

13:30 – 14:00 Plenary lecture P.3.
Csaba BALASZI (Hungary) - ***Current status and future trends in nanocarbon added silicon nitrides***

Tuesday, November 12th, 2026

Panel 1 Materials Obtaining, Processing and Characterization
16:00 - 19:00 Room AN 034
Chairs & Company Representatives (Panel Members)
Vasile Danut COJOCARU (NUST POLITEHNICA Bucharest)
Nicolae SERBAN (NUST POLITEHNICA Bucharest)
Constantin Stelian STAN (NUST POLITEHNICA Bucharest)
Nicanor CIMPOESU (Technical University "Gheorghe Asachi" of Iasi)
Constantin APOSTOL (AS METAL)
Marin CILIANU (ALRO Slatina)
Mihaela POPESCU (TENARIS)
Bogdan PREJOIANU (TEMCO)

16:00- 16:20 Keynote Lecture K.1.
COLD SINTERED FIBRES-BASED SOFT MAGNETIC COMPOSITES
B. V. Neamţu[1,2,*], T. F. Marinca[1,2], F. Popa[1,2], C.V. Prica[1,2], M. Nasui[3], N. Lupu[4], I. Chicinaş[1,2]

[1]*Technical University of Cluj-Napoca, Materials Science and Engineering Department, 103-105, Muncii Avenue, 400641, Cluj-Napoca, Romania*
[2]*EUT+ Institute of Nanomaterials and Nanotechnologies-EUTINN, European University of Technology, European Union*
[3]*Center for Superconductivity, Spintronics and Surface Science, Technical University of Cluj-Napoca, Memorandumului Street, no 28, 400114, Cluj-Napoca, Romania*
[4]*National Institute of Research & Development for Technical Physics, 700050, Iasi, Romania*

16:20- 16:40 Keynote Lecture K.2.

100 YEARS OF WORLD FOUNDRY ORGANIZATION - ROMANIAN PRESENCE AND CONTRIBUTION

Iulian Riposan[1], Stelian Constantin Stan[1], Mihai Chisamera[1], Denisa Anca[1], Iuliana Stan[1], Mihail Ciprian Firican[2]
[1]*National University of Science and Technology POLITEHNICA Bucharest, 060042 Bucharest, ROMANIA;*
[2]*NTT Data Romania, 6-8 Corneliu Coposu Boulevard, 030606 Bucharest, Romania*

16:40- 16:50 Oral Presentation O.1.

MICROSTRUCTURAL AND MECHANICAL CHARACTERIZATION OF PLASMA-SPRAYED COATINGS ON AUTOMOTIVE BRAKE DISCS

Fabian Cezar Lupu[1], Corneliu Munteanu[1,2*], Bogdan Istrate[1], Volocaru Ioana Ilinca[1], Valentin Dia[1], Marcelin Benchea[1]
[1]*Mechanical Engineering, Mechatronics and Robotics Department, "Gheorghe Asachi" Technical University of Iasi, 700050 Iasi, Romania;*
[2]*Technical Sciences Academy of Romania, 26 Dacia Blvd., 030167* Bucharest*, Romania;*

16:50 - 17:00 Oral Presentation O.2.

MAGNETIC PROPERTIES OF Ni_2MnSn HEUSLER ALLOYS OBTAINED BY MECHANICAL ALLOYING AND ANNEALING

F. Popa[1,2*], A. T. A. Man[1], T. F. Marinca[1,2], N. A. Sechel[1,2], B. V. Neamțu[1,2], D. Benea[3], R. Hirian[3], I. Chicinaș[1,2]
[1]*Materials Science and Engineering Department, Technical University of Cluj-Napoca, 103-105 Muncii Avenue, 400641 Cluj-Napoca, Romania*
[2]*EUT+ Institute of Nanomaterials and Nanotechnologies-EUTINN, European University of Technology, European Union*
[3]*Faculty of Physics, Babes-Bolyai University Cluj-Napoca, Kogalniceanu 1 Str., 400084 Cluj-Napoca, Romania*

17:00- 17:10 Oral Presentation O.3.

ADDITIVE MANUFACTURING OF MATERIALS USED IN PERSONAL PROTECTIVE EQUIPMENT – SHORT REVIEW

A. Matcovschi[1], N.M Lohan[1*], B. Pricop[1], A.I. Danalache[1], M. Popa[1] and C. Bejinariu[1,2]
[1]*"Gheorghe Asachi" Technical University of Iasi, Faculty of Materials Science and Engineering, 700050, Iași, Romania*

[2]*Academy of Romanian Scientists, Ilfov 3, 050044, Bucharest, Romania*

17:10- 17:20 Oral Presentation O.4.

EFFECT OF OVALBUMIN SOURCE ON THE STRUCTURAL, MORPHOLOGICAL, OPTICAL, AND ANTIBACTERIAL PROPERTIES OF BIO-ASSISTED SYNTHESIZED ZnO NANOSTRUCTURES

Andreea Elena Vijan[1,*], Denis Aurelian Negrea[2], Sorin Georgian Moga[2], Ecaterina Magdalena Modan[2], Adriana-Gabriela Schiopu[1,3], Daniela Istrate[1]

[1]*National University of Science and Technology POLITEHNICA, Doctoral School Materials Science and Engineering, 060042, Bucharest, Romania,*

[2]*National University of Science and Technology POLITEHNICA, Regional Center of Research & Development for Materials, Processes and Inovative Products Dedicated to the Automotive Industry (CRCD-AUTO), Pitesti University Centre, Romania,*

[3]*National University of Science and Technology POLITEHNICA Bucharest, Pitesti University Centre, Faculty of Mechanics and Technology, 110040 Pitesti, Romania;*

17:20- 17:30 Oral Presentation O.5.

PROCESSING – MICROSTRUCTURE - PROPERTY RELATIONSHIPS IN HOT-ROLLED AND SOLUTION-TREATED UNS S32760 (F55) SUPER DUPLEX STAINLESS STEEL

Saleh Sabah Alturaihi[1,*], Mohammed Hayder Ismail Alluaibi[2], Elisabeta Mirela Cojocaru[3], Nicoleta Zarnescu-Ivan[3] and Vasile Danut Cojocaru[3]

[1] *Department of Metallurgy Engineering, Faculty of Materials Engineering, University of Babylon, Babylon, Iraq*

[2] *College of Energy and Environmental Sciences, Al-Karkh University of Science, Baghdad, Iraq*

[3] *Faculty of Materials Science and Engineering, National University of Science and Technology Politehnica Bucharest, Bucharest, 060042, Romania*

17:30- 17:40 Oral Presentation O.6.

THREE-DIMENSIONAL OPTICAL SURFACE TOPOGRAPHY CHARACTERIZATION OF OPEN-CELL AlSi POROUS MATERIALS

Constantin Cristian Andrei*, Constantin Stelian Stan, Corneliu Stoica, Catalin Pirvu, Iuliana Stan, Denis Petre, Iulian Antoniac

National University of Science and Technology POLITEHNICA, Bucharest, Romania,

17:40- 17:50 Oral Presentation O.7.

STRUCTURAL CHARACTERISTICS OF THIN-WALLED COMPONENTS MADE FROM HYPEREUTECTIC GREY CAST IRON (CASE STUDY – COMPONENTS USED IN THE CULINARY INDUSTRY)

F.M. Dajulescu (Artene), M. Chisamera, S. Stan, I. Stan, D.E. Anca, E. Bahnareanu

National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania

17:40- 18:20 Company Presentation

18:20 - 19:00 Debates

POSTER SESSION FOR PANEL 1

P.1. MICROSTRUCTURAL AND MECHANICAL CHARACTERIZATION OF EXTRUDED AND AGED 2XXX AND 7XXX ALUMINUM ALLOYS

C.V. Prica[1*], A.N. Sechel[1], F. Popa[1], T.F. Marinca[1], B.V. Neamțu[1], A. Miclăuș[1] and T.E. Crișan[1]
[1]*Technical University of Cluj-Napoca, Material Science and Engineering Department, 103-106, Muncii Ave., 400641, Cluj-Napoca, Romania*

P.2. INFLUENCE OF NICKEL PRECURSOR ON THE STRUCTURAL, MORPHOLOGICAL AND COLLOIDAL PROPERTIES OF NANOSTRUCTURED NO OBTAINED BY AN OXALATE-ASSISTED ROUTE

Daniela Istrate [1,*], Sorin Georgian Moga[2], Ecaterina Magdalena Modan[2], Denis Aurelian Negrea[2], Adriana-Gabriela Schiopu[1, 3], Florin Calin[1]
[1]*National University of Science and Technology POLITEHNICA, Doctoral School Materials Science and Engineering, 060042, Bucharest, Romania,*
[2]*National University of Science and Technology POLITEHNICA, Regional Center of Research & Development for Materials, Processes and Inovative Products Dedicated to the Automotive Industry (CRCD-AUTO), Pitesti University Centre, Romania,*
[3]*National University of Science and Technology POLITEHNICA Bucharest, Pitesti University Centre, Faculty of Mechanics and Technology, 110040 Pitesti, Romania;*

P.3. A NEW APPROACH FOR VALIDATION THE ELEMENTAL AND STRUCTURAL DATA FROM COMBINED XRFS AND XRD MEASUREMENTS. NaYF4@Yb, Er CASE STUDY

Sarmon-Proorocu A.M.[1], Pencea I.[1], Secu M.2, Matei E.[2], Niculescu F.[3], Comanescu B.[4], Predescu C.[5], Berbecaru A. C.[5]
[1]*Doctoral School of the Materials Science and Engineering Faculty, UNSTPB, Splaiul Independenţei 313, 060042, Bucharest, Romania;*
[2]*National Institute of Materials Physics, 405A Atomistilor Street, 077125 Bucharest-Magurele, Romania*
[3]*Materials Science and Engineering Faculty, Department of Engineering and Management of Obtaining Metallic Materials, UNSTPB Bucharest, Splaiul Independenţei 313, 060042, Bucharest, Romania,*
[4]*National Institute OPTOELECTRONICA2001, St. Lacului 35, 077125 Măgurele, Romania,*
[5]*Materials Science and Engineering Faculty, Department of Metal Processing and Eco-metallurgy, UNSTPB Bucharest, Splaiul Independenţei 313, 060042, Bucharest, Romania*

P.4. NEW APPROACH FOR THE CONFORMITY ASSESSMENT OF THE METALIC MATERIALS DESIGNED FOR SPECIAL APLICATIONS

Sirmon A.I.[1], Niculescu F.[2*], Pencea I.[1], Geantă V.[2], Turcu R.N.[1], Priceputu A.[3], Ungureanu C.[4]
[1]*Doctoral School of the Materials Science and Engineering Faculty, UNSTPB, Splaiul Independenţei 313, 060042, Bucharest, Romania;*
[2]*Materials Science and Engineering Faculty, Engineering and Management of Obtaining Metallic Materials Department, UNSTPB Bucharest, Splaiul Independenţei 313, 060042, Bucharest, Romania,*
[3]*Department of Geotechnics and Foundations, Technical University of Civil Engineering, Bucharest, Romania,*
122-124 Lacul Tei Blvd., Postal Code 020396, Sector 2,

[4]*Department of Geological Engineering, Faculty of Geology and Geophysics, University of Bucharest, Traian Vuia Str. No.6 030018 Bucharest, Romania.*

P.5. A NEW APPROACH TO ASSESSING THE EXPECTANCE AND ITS VARIANCE IN SEM-EDS SUB-SAMPLING MEASUREMENTS CARRIED ON POWDRED FLUOROPHORES

Sirmon V.F.[1], Niculescu F.[2*], Pencea I.[1], Comanescu B.[3], Predescu C.[4], Berbecaru A. C.[4], Timiș A.L[1]
[1]*Doctoral School of the Materials Science and Engineering Faculty, UNSTPB, Splaiul Independenţei 313, 060042,*
Bucharest, Romania;
[2]*Materials Science and Engineering Faculty, Department of Engineering and Management of Obtaining Metallic*
Materials, UNSTPB Bucharest, Splaiul Independenţei 313, 060042, Bucharest, Romania,
[3]*National Institute OPTOELECTRONICA2001, St. Lacului 35, 077125 Măgurele, Romania,*
[4]*Materials Science and Engineering Faculty, Department of Metal Processing and Eco-metallurgy, UNSTPB Bucharest, Splaiul Independenţei 313, 060042, Bucharest, Romania*

P.6. COMPREHENSIVE CHARACTERISATION OF POWDERED FERROUS SUBPRODUCTS FOR ALUMINOTHERMIC RECOVERY TECHNOLOGY

R.I.Găuroiu[1], F Niculescu[2], I.Pencea[1*], R. N. Turcu[1], T.A. Coman[1], A. C. Berbecaru[3], A.C.Macovei[1]
[1]*Doctoral School of the Materials Science and Engineering Faculty, UNSTPB, Splaiul Independenţei 313, 060042, Bucharest, Romania;*
[2]*Materials Science and Engineering Faculty, Department of Engineering and Management of Obtaining Metallic Materials, UNSTPB Bucharest, Splaiul Independenţei 313, 060042, Bucharest, Romania,*
[3]*Materials Science and Engineering Faculty, Department of Metal Processing and Eco-metallurgy, UNSTPB Bucharest, Splaiul Independenţei 313, 060042, Bucharest, Romania*

P.7. STUDY OF THE PRODUCING AND CHARACTERIZATION OF BASALT PARTICULATE–ALUMINUM COMPOSITES VIA POWDER METALLURGY

M. Ciurdaș[1*], D.A. Necșulescu[2]
[1]*Dept. of Engineering and Management of Obtaining Metallic Materials, National University of Science and Technology Politehnica Bucharest, Romania*
[2] *Dept. of Metallic Materials Science and Physical Metallurgy, National University of Science and Technology Politehnica Bucharest, Romania*

P.8. EFFECTS OF ALLOYING ELEMENTS AND AGING TREATMENTS ON THE MICROSTRUCTURAL EVOLUTION AND HARDNESS OF MARTENSITIC STAINLESS STEEL

A.E. Onici[1*], V. Geantă[1,3], R. Ștefănoiu[1], I. Voiculescu[2]
[1]Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania
[2]Faculty of Industrial Engineering and Robotics, National University of Science and Technology POLITEHNICA Bucharest, Romania
[3]Academy of Technical Sciences of Romania, Bucharest, Romania

P.9. POSSIBLE APPLICATIONS OF HEAS IN THE FIELD OF BIOMATERIALS

Cristina-Cornelia Costea[1,2*], Vasile Dănuț Cojocaru[1], Elena Laura Geambazu[2], Ciprian Alexandru Manea[2]

[1]National University of Science and Technolgy Politehnica Bucharest, 011061 Bucharest, Romania

[2] National Institute for Research and Development in Electrical Engineering INCDIE-CA, 313 Splaiul Unirii, 030138 Bucharest, Romania

P.10. INVESTIGATION OF GRAPHITE FORMATION IN CAST IRONS

A. Stan; I. Ripoșan; M. Chișamera; S. Stan

National University of Science and Technology POLITEHNICA Bucharest, 060042 Bucharest, Romania

P.11. CRISIS PROPAGATION IN THE COBALT SUPPLY CHAIN: TOWARDS AN INTEGRATED SYSTEMS APPROACH TO VULNERABILITY ASSESSMENT

Codrut Toboc*, Stelian Constantin Stan, Iuliana Stan

National University of Science and Technology POLITEHNICA Bucharest, 060042 Bucharest, Romania

P.12. RESEARCH AND EXPERIMENTAL ANALYSIS OF COMPACTED GRAPHITE CAST IRON DEMODIFICATION

Adrian Gabor, Mihai Chisamera, Iuliana Stan, Denisa Anca, Iulian Riposan, Razvan Tudoran, Stelian Stan

National University of Science and Technology Politehnica Bucharest, Spl. Independentei Street, RO-060042 Bucharest, Romania

Thursday, November 12th, 2026

PANEL 2 Advanced Materials for Industrial Applications
16.00-19.00 Room AN 010

Chairs & Company Representatives (Panel Members)

Radu STEFANOIU (NUST POLITEHNICA Bucharest)
Nicolae Dan BATALU (NUST POLITEHNICA Bucharest)
Daniela BURUIANA ("Lower Danube" University of Galati)
Corneliu MUNTEANU (Technical University "Gheorghe Asachi" of Iasi)
Alexandru PASCU (Transilvania University of Brasov)
Bogdan CHESARAICU (Standard Service 2000 SRL)
Iulian SPANU (Romfire Protect Solutions)
Mihai MOCANU (APA NOVA Veolia Bucharest)

16:00- 16:20 Keynote Lecture K.1.

ADVANCED NANOMATERIAL-ASSISTED FLOTATION: INNOVATIVE AND SUSTAINABLE TECHNOLOGIES FOR WASTEWATER TREATMENT

Ileana Cristina COVALIU-MIERLA[1]
[1] *National University of Science and Technology POLITEHNICA Bucharest, Romania*

16:20- 16:40 Keynote Lecture K.2.

MANUFACTURING TECHNOLOGIES AND MATERIALS USED IN PRESSURE VESSEL CONSTRUCTION

M.-C. Staicu[1], N. Bogatu[1], **V. Ghisman**[1] and D.-L. Buruiană[1]
[1]*Interdisciplinary Research Centre in the Field of Eco-Nano Technology and Advance Materials CC-ITI, Faculty of Engineering, "Dunarea de Jos" University of Galati, 47 Domneasca Street, 800008 Galati, Romania*

16:40- 17:00 Keynote Lecture K.3.

DESIGN AND FABRICATION OF ADVANCED SOFT MAGNETIC COMPOSITES THROUGH NON-EQUILIBRIUM TECHNIQUES

T.F. Marinca[1,2], B.V. Neamțu[1,2], F. Popa[1,2] and C.V. Prică[1,2]
[1]*Materials Science and Engineering Department, Technical University of Cluj-Napoca, 103-105 Muncii Avenue, 400641 Cluj-Napoca, Romania*
[2]*EUT+ Institute of Nanomaterials and Nanotechnologies-EUTINN, European University of Technology, European Union*

17:00- 17:20 Keynote Lecture K.4.

B_4C-REINFORCED $CoCrFeNiAl_{0.6}$ HIGH-ENTROPY ALLOYS: MICROSTRUCTURE, WEAR RESISTANCE AND HIGH-TEMPERATURE OXIDATION

Göknur Karadeniz[1], Gültekin Göller[1]
[1]*Istanbul Technical University, Department of Metallurgical and Materials Engineering, 34469, Maslak, Istanbul, Turkiye*

17:20- 17:30 Oral Presentation O.1.

STIMULI-RESPONSIVE COATINGS SUPPORTING CELL GROWTH AND BIOFILM INHIBITION FOR ADVANCED TISSUE HEALING APPLICATIONS

A.I. Visan[1], I. Negut[1], N. Stefan[1], V. Grumezescu[1], V. Kuncser[2], A. Kuncser[2], N. Iacob[2], G. Schinteie[2], M. Socol[2], C. Florica[2], I. Zgura[2], R.C. Popescu[3,4], A.M. Holban[5], G. Socol[1], and R. Cristescu[1]

[1]National Institute for Lasers, Plasma and Radiation Physics, Magurele, Romania

[2]National Institute of Materials Physics, Magurele, Romania

[3]Horia Hulubei National Institute of Physics and Nuclear Engineering, Magurele, Romania

[4]National University of Science and Technology POLITEHNICA Bucharest, Romania

[5]Faculty of Biology, University of Bucharest, Romania

17:30- 17:40 Oral Presentation O.2.

SUSTAINABLE MATERIALS: THREE CASE STUDIES

P. Badica[1], A. Lőrinczi[1], M. Grigoroscuta[1], A. Alexandru-Dinu[1], A. Kuncser[1], C. Bartha[1], M. Sahin[2], D. Batalu[3], B. Purcareanu[4], D. Ene[4] and I. Gheorghe[5]

[1]National Institute of Materials Physics, 405A Atomistilor st., 077125 Magurele, Romania

[2]Department of Physics, Faculty of Arts and Sciences, Recep Tayyip Erdogan University, 53100 Rize, Türkiye

[3]National University of Science and Technology POLITEHNICA Bucharest, 060042, Bucharest, Romania

[4]Biotehnos SA, Gorunului Street 3-5, 075100 Otopeni, Romania

[5]University of Bucharest, Faculty of Biology, Department of Microbiology and Botany, Intr. Portocalelor 1-3, Bucharest, 060101, Romania

17:40- 17:50 Oral Presentation O.3.

CHALCOGENIDE-BASED NANOCOMPOSITES FOR METHANE AND LPG SENSING AT ENVIRONMENTAL TEMPERATURES

E. Matei[1], M.-A. Vlaicu[1], P. Bădică[1], I. Antohe[2], C. Zagăr[2], G. Socol[2] and **A. Lőrinczi[1]**

[1]National Institute of Materials Physics, 405A Atomistilor St., RO-077125 Măgurele, Romania

[2]National Institute for Laser, Plasma and Radiation Physics, 409 Atomistilor St., RO-077125 Măgurele, Romania

17:50- 18:00 Oral Presentation O.4.

DELIVERY SYSTEM FOR BIOACTIVE COMPOUNDS FROM 3D-PRINTED POROUS SUBSTRATES

B. Purcăreanu[1,2], V. Drumea[1], R.A. Niță[1], M.-A. Florea[1], S.C. Bădulescu[1], D.M. Ene[1], L. Olariu[1,3,4], D. Batalu[5], A. Badea[6], M. Burdușel[6] and P. Bădică[6]

[1]Biotehnos SA, Gorunului Street 3-5, 075100 Otopeni, Romania

[2]Department of Science and Engineering of Oxide Materials and Nanomaterials, Faculty of Chemical Engineering and Biotechnologies, National University of Science and Technology POLITEHNICA Bucharest, Polizu Str. No. 1-7, 011061 Bucharest, Romania

[3]Academy of Romanian Scientists, 54 Splaiul Independentei 050094, Bucharest, Romania

[4]Research Institute of the University of Bucharest, Şoseaua Panduri, nr. 90, Sector 5, Bucureşti, Romania

[5]*Department of Metallic Materials Science, Physical Metallurgy, Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, 060042, Bucharest, Romania*
[6]*National Institute of Materials Physics, 077125 Magurele, Romania*

18:00- 18:10 **Oral Presentation O.5.**

MELT SPINNING AND SPARK PLASMA SINTERING: AN ALTERNATIVE PROCESSING ROUTE FOR ADVANCED FE–CR–Y_2O_3 ODS STEELS

M. Burdusel[1], A. Galateanu[1], B. Popescu[1], P. Palade[1], M. Enculescu[1], V. Kuncser[1] and P. Badica[1]
[1]*National Institute of Materials Physics, Atomistilor Street 405 A, Magurele 077125, Romania*

18:10- 18:20 **Oral Presentation O.6.**

RARE-EARTH IRON GARNETS: FUNCTIONAL MAGNETIC MATERIALS FOR VARIOUS APPLICATIONS

A. Sergentu[1,2], C. Bartha[1], P. Badica[1] and D. Batalu[2]
[1]*National Institute of Materials Physics, 405A Atomiștilor st., 077125 Magurele, Romania*
[2]*National University of Science and Technology POLITEHNICA Bucharest, 060042, Bucharest, Romania*

18:20- 18:30 **Oral Presentation O.7.**

STRUCTURAL ASPECTS ON LOW-TEMPERATURE DEPENDENCE OF THE FERROELECTRIC AND PIEZOELECTRIC PROPERTIES OF MN- AND SB- CO-DOPED HARD PZT CERAMICS

C.F. Miclea[1], L. Amarande[1], M.C. Cioangher[1], **A.M. Vlaicu[1]**, L.M. Hrib[1], L.N. Leonat[1], R.E. Patru[1], D. Giurgiu[1], N. Ghereg[1], R. Cardoso-Gil[2] and V. Toma[1]
[1]*National Institute for Materials Physics, Str. Atomistilor nr. 405A, Magurele, 077125, Ilfov, Romania*
[2]*Max Planck Institute for Chemical Physics of Solids, Noethnitzer Str. 40, Dresden, 01187, Germany*

18:30- 18:40 **Company Presentation Standard Service 2000 S.R.L.**

Bogdan Chesaraicu[1]
[1] *Standard Service 2000 S.R.L.*

18:40- 18:50 **Company Presentation APA NOVA Veolia Bucharest**

Mihai Mocanu[1]
[1]*APA NOVA Veolia Bucharest*

18:50- 19:00 **Debates**

POSTER SESSION FOR PANEL 2

P.1. RECOVERY OF CRITICAL METALS FROM WASTE PRINTED CIRCUIT BOARDS

C.M. Șuvar[1], G. Iacob[1], F. Niculescu[2], G.L. Crau (Ene)[1], S.F. Dumitrescu[2], S.E. Popescu (Iancu)[2], V.D. Arghir[2] and M.N. Țenea[2]

[1]National University of Science and Technology POLITEHNICA Bucharest, Doctoral School of the Materials Science and Engineering Faculty

[2]National University of Science and Technology POLITEHNICA Bucharest, Department of Engineering and Management of Metallic Materials Production, 313 Splaiul Independentei, J Building, 060042 Bucharest, Romania

P.2.CEMENT-FREE CELLULAR MATERIALS BASED ON SECONDARY ALUMINIUM SLAG: SLAG CHARACTERISATION AND EFFECT OF THERMAL TREATMENT ON COMPRESSIVE BEHAVIOUR

M. Buțu[1], C. Apostol[2], A. Mateescu[1], **C.-D. Stăncel[1]** and P. Bădica[3]

[1]Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania

[2]SC AS METAL COM SRL, Bucharest, Romania

[3]National Institute of Materials Physics (NIMP), Măgurele, Romania

P.3.ZINC FOAMS MADE BY A COLD SINTERING PROCESS FOR PHOTOCATALYTIC DEGRADATION

G. Thalmaier[1], N.A. Sechel[1], M. Nasui[1] and I. Vida-Simiti[1,2]

[1]Technical University of Cluj-Napoca, Romania, 400641, 103–105 Muncii Ave., Cluj-Napoca, Romania

[2]Technical Science Academy of Romania, Romania, 010413, Dacia Ave., 26, Bucharest, Romania

P.4.METHODS FOR SELECTION OF PIPELINE MATERIAL USED IN WATER DISTRIBUTION NETWORK

M. Mocanu[1], M. Miculescu[1], C. Sivu[1], L. Popescu[1], A. Antoniac[1], F. Pisica[1], D. Alexandrescu[1], I. Corneschi[1] and I. Antoniac[1,2]

[1]Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania

[2]Academy of Romanian Scientists, Bucharest, Romania

P.5.MATERIAL TYPE EFFECTS ON THE FAILURE IN CRANKSHAFTS BEARINGS

C. Sivu[1], A. Streza[1], R. Bololoi[1], L. Popescu[1], M. Miculescu[1], R. Pisica[1] and I. Antoniac[1,2]

[1]Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania

[2]Academy of Romanian Scientists, Bucharest, Romania

P.6.MONITORING, DETECTION AND CHARACTERIZATION METHODS FOR STEEL BRIDGE DETERIORATION

G.C. Socol[1], C. Cotrut[1], C. Sivu[1], M. Miculescu[1], F. Pisica[1], O. Trante[1], I. Corneschi[1], I. Ciucă[1] and I. Antoniac[1,2]

[1]*Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania*
[2]*Academy of Romanian Scientists, Bucharest, Romania*

P.7.ADVANCED STRATEGIES FOR CORROSION PROTECTION OF METALLIC MATERIALS IN ACIDIC ENVIRONMENTS

I.-C. Balan-Balantof[1], N. Bogatu[1], V. Ghisman[1] and D.-L. Buruiană[1]
[1]*Interdisciplinary Research Centre in the Field of Eco-Nano Technology and Advance Materials CC-ITI, Faculty of Engineering, "Dunarea de Jos" University of Galati, 47 Domneasca Street, 800008 Galati, Romania*

P.8.EXPERIMENTAL RESULTS OF COATINGS USED FOR THE IMPROVEMENT OF AGRICULTURAL COMPONENTS

C. Munteanu[1,2], B. Nazar[3], **B. Istrate[1]**, G. Marian[3], F.C. Lupu[1] and T. Marian[3,4]
[1]*Mechanical Engineering, Mechatronics and Robotics Department, "Gheorghe Asachi" Technical University of Iasi, 700050 Iasi, Romania*
[2]*Technical Sciences Academy of Romania, 26 Dacia Blvd., 030167 Bucharest, Romania*
[3]*Mechanical Engineering Faculty, Technical University of Moldova, 168 Stefan cel Mare Blvd., MD-2004 Chisinau, Republic of Moldova*
[4]*CC "BASADORO AGROTEH" LLC, 192 Alba-Iulia Str., 2049, MD-2071 Chisinau, Republic of Moldova*

P.9.PULSED LASER WELDING OF TITANIUM ALLOYS

E.M. Stanciu[1], A. Pascu[1] and D.C. Cuculea[1]
[1]*Department of Materials Engineering and Welding, Transilvania University of Brasov, Brasov, Romania*

P.10.LASER CLADDING RECONDITIONING OF NAB ALLOYS USING CU38NI POWDER

G.C. Iatan[1] and A. Pascu[1]
[1]*Materials Engineering and Welding Department, Transilvania University of Brasov, Eroilor Blvd., 29, 500036 Brasov, Romania*

P.11.ADVANCES IN LASER CLADDING FOR INDUSTRIAL APPLICATIONS

I.C. Roată[1], E.M. Stanciu[1] and A. Pascu[1]
[1]*Department of Materials Engineering and Welding, Transilvania University of Brasov, Brasov, Romania*

P.12.AMBIENT PROTECTION OF NANOSTRUCTURED BLACK PHOSPHORUS FROM TREATMENT WITH LEWIS ACIDS

D. Tofan[1]
[1]*Transilvania University of Brasov, Romania*

Friday, November 13th, 2026

Panel 3 Materials for Healthcare & Medical Engineering
09:00 - 12:00 Room AN 010

Chairs & Company Representatives (Panel Members)

Iulian ANTONIAC (NUST POLITEHNICA Bucharest)
Florin MICULESCU (NUST POLITEHNICA Bucharest)
Catalin POPA (Technical University of Cluj-Napoca)
Elena OVREIU (GIV-HEALTH™, GIV Solutions)
Anca Daniela RAICIU (HOFIGAL)
Alin LADARU (ENLIFE)
Alexandru STERE (MEDICAL ORTOVIT)

09:00- 09:20 Keynote Lecture K.1.

HYBRID SYSTEMS BASED ON MAGNETOTACTIC BACTERIA DESIGNED FOR MEDICAL APPLICATIONS

Cătălin Popa[1,2], Elena Ionescu – Lebrun[2,3], Natalia Paul[2,3], Mihai Gabor[2,4], Mircea Nasui[2,4], Ovidiu Pana[5]

[1]Department of Materials Science and Engineering, Faculty of Materials and Environmental Engineering, Technical University of Cluj-Napoca, Cluj-Napoca, Romania;

[2] EUt+ Institute for Nanomaterials & Nanotechnologies EUTINN, European University of Technology, European Union;

[3]Light, nanomaterials and nanotechnology (L2n) Laboratory, CNRS UMR 7076, University of Technology of Troyes, 12 Rue Marie Curie, CS 42060, CEDEX, 10004 Troyes, France;

[4] Physics and Chemistry Department, Faculty of Materials and Environmental Engineering, Technical University of Cluj-Napoca, Cluj-Napoca, Romania;

[5]National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat, 400293 Cluj-Napoca, Romania;

09:20- 09:40 Keynote Lecture K.2.

MEMBRANES FOR BONE TISSUE REGENERATION

Stefan Voicu[1,2,3]

[1]Department of Analytical Chemistry and Environmental Engineering, Faculty of Chemical Engineering and Biotechnologies, National University of Science and Technology POLITEHNICA Bucharest, 1-7 Gheorghe Polizu, 011061 Bucharest, Romania;

[2]Advanced Polymers Materials Group, National University of Science and Technology POLITEHNICA Bucharest, 1-7 Gheorghe Polizu, 011061 Bucharest, Romania;

[3]Academy of Romanian Scientists, 54 Splaiul Independentei Street, District 5, 050094 Bucharest, Romania;

09:40- 10:00 Keynote Lecture K.3.

ADVANCED 3D-PRINTED BONE RECONSTRUCTION IMPLANTS WITH SUPERIOR MECHANICAL AND ANTIBACTERIAL PERFORMANCE

Florin Miculescu[1]

[1]*National University of Science and Technology POLITEHNICA Bucharest, 313 Independentei Street, 060042, Bucharest, Romania*

10:00- 10:10 Oral Presentation O.1.

NANOCARRIERS AND HYDROGELS FOR PLANT BIOACTIVE DELIVERY

Anca Daniela Raiciu[1,2,3*]

[1]*"Titu Maiorescu" University, Faculty of Pharmacy, Department of Pharmacognosy, Phytochemistry and Phytotherapy, 16 Gheorghe Șincai Street, District 4, Bucharest, 040314, Romania*

[2]*PLANTA ROMANICA Association, 27–29 George Enescu Street, District 1, Bucharest, 010303, Romania*

[3]*Hofigal Export-Import S.A., 2 Intrarea Serelor, District 4, Bucharest, 042124, Romania*

10:10- 10:20 Oral Presentation O.2.

CORROSION PROTECTION AND DEGRADATION CONTROL OF $ZN_3MG_{0.8}Y$ BIODEGRADABLE ALLOY VIA PHOTOPOLYMERIZABLE BIO-RESIN COATINGS

A. Tincu Vlăduț-Ionuț[1*], B. Cimpoeșu Ramona[1], C. Bădărău Gheorghe[1], D. Lohan Monica-Nicoleta[1] and E. Cimpoeșu Nicanor[1]

[1]*"Gheorghe Asachi" Technical University of Iași, Faculty of Materials Science and Engineering, Iași, Romania*

10:20- 10:30 Oral Presentation O.3.

SURFACE TOPOGRAPHY EVOLUTION AND MICROSTRUCTURAL CHARACTERIZATION OF SHOT-PEENED Zn-Cu AND Zn-Cu-Ti BIODEGRADABLE ALLOYS

Tiberiu Șutic[1*], Inés Fernández Pariente[2], Borja Martínez Peral[2], Viorel Paleu[3], Ioan Tamașag[4], Gheorghe Bădărău[1], Andrei Neagu[1], Romeu Chelariu[1], Cătălin Țugui[1] and Nicanor Cimpoeșu[1]

[1]*"Gheorghe Asachi" Technical University of Iași, Faculty of Materials Science and Engineering, Iași, Romania*

[2]*Universidad de Oviedo, Department of Materials Science and Metallurgical Engineering, Gijón, Spain*

[3]*"Gheorghe Asachi" Technical University of Iași, Faculty of Mechanical Engineering, Iași, Romania*

[4]*„Ștefan cel Mare" University of Suceava, Faculty of Mechanical Engineering, Automotive and Robotics, Suceava, Romania*

10:30- 10:40 Oral Presentation O.4.

ADVANCES IN METASTABLE B-Ti ALLOYS: Ti-Mo-Nb-Sn WITH LOW ELASTIC MODULUS FOR ORTHOPEDIC IMPLANTS

A. Pruteanu[1], M.S. Bălțatu[1], A.V. Sandu[1,2,3], I. Ghiculescu[1], and P. Vizureanu[1,2*]

[1]*"Gheorghe Asachi" Technical University of Iași, Faculty of Material Science and Engineering, România*

[2] *Academy of Romania Scientist, 54, Splaiul Independenței St. Sect. 5, 050094, Bucharest, România*
[3] *Romanian Inventor Forum, Str. Sf. P. Movila 3, Iași, România*

10:40- 10:50 Oral Presentation O.5.

NANOSTRUCTURED MATERIALS FOR VISUAL FOOD FRESHNESS MONITORING IN THE COLD CHAIN

Andrei Ivanov[1], Viorica Ghisman[1], Iulian Antoniac[2,3], and Daniela-Laura Buruiană[1,*]
[1]*Interdisciplinary Research Centre in the Field of Eco-Nano Technology and Advance Materials CC-ITI, Faculty of Engineering, "Dunarea de Jos" University of Galati, 47 Domneasca Street, 800008 Galati, Romania*
[2]*Faculty of Material Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, 313 Splaiul Independentei, District 6, 060042 Bucharest, Romania*
[3]*Academy of Romanian Scientists, 54 Splaiul Independentei, 050094 Bucharest, Romania*

10:50- 11:00 Oral Presentation O.6.

HIGH-ENTROPY SPINEL OXIDES: A MICROWAVE-ASSISTED ROUTE TOWARDS BIOMEDICAL APPLICATIONS

Gabriela - Diana Cupa [1,2*], Amalia Mesaros[2,3], Cătălin Popa[1,2]
[1]*Department of Materials Science and Engineering, Faculty of Materials and Environmental Engineering, Technical University of Cluj-Napoca, Cluj-Napoca, Romania*
[2]*EUt+ Institute for Nanomaterials & Nanotechnologies EUTINN,*
European University of Technology, European Union
[3]*Physics and Chemistry Department, Faculty of Materials and Environmental Engineering, Technical University of Cluj-Napoca, Cluj-Napoca, Romania*

11:00- 11:10 Company Presentation ENLIFE

Alin Ladaru[1]
[1]*ENLIFE*

11:10- 11:20 Company Presentation MEDICAL ORTOVIT S.R.L.

Alexandru Stere[1]
[1] *MEDICAL ORTOVIT S.R.L.*

11:20- 11:40 HEALTHCARE ENGINEER IN THE MODERN HOSPITAL

Elena Ovreiu[1]
[1] *GIV-HEALTH™, GIV Solutions*

11:40 - 12:00 Debates

POSTER SESSION FOR PANEL 3

P.1. IN VITRO CORROSION BEHAVIOR OF FLUORIDE Mg-Nd-Y-Zn ALLOY TYPES

Aurora Antoniac[1], Gabriel Cristescu[1], Florin Miculescu[1], Iuliana Corneschi[1], Elena Eli Popescu (Pieptea)[1], Adriana Pop[1], Larisa Popescu[1], Cosmin Cotrut[1], Iulian Antoniac[1,2]

[1] Faculty of Material Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania;

[2] Academy of Romanian Scientists, Bucharest, Romania

P.2. MAGNESIUM-BASED MATERIALS AS HYDROGEN RELEASING BIOMATERIALS FOR BONE REGENERATION

Adriana Pop[1], Iuliana Corneschi[1*], Ana-Iulia Bita[1], Elena Eli Popescu (Pieptea)[1], Aurora Antoniac[1], Octavian Trante[1], Iulian Antoniac[1,2]

[1] Faculty of Material Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania;

[2] Academy of Romanian Scientists, Bucharest, Romania

P.3. BIODEGRADABLE MAGNESIUM ALLOYS WITH MODIFIED SURFACE FOR BONE REGENERATION

Iulian Antoniac[1,2]

[1] Faculty of Material Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania;

[2] Academy of Romanian Scientists, Bucharest, Romania

P.4. INVESTIGATION OF CARDIAC DEFIBRILLATORSUSED IN THE TREATMENT OF MALIGNANT ARRHYTHMIAS

Mirela Violeta Manea [1] , Brândușa Ghiban[1]

[1]National University of Science and Technology POLITEHNICA Bucharest (Romania)

P.5. ARTIFICIAL INTELLIGENCE IN MEDICINE

Stefania Stan[1], **Codruta Matias[1]**, Sonia Soare[1], Vasile Danut Cojocaru[1]

[1]National University of Science and Technology POLITEHNICA Bucharest, Bucharest, 060042, Romania

P.6. TITANIUM MEDICAL APPLICATION: COMPLEX SOLUTIONS IN PEDIATRIC SURGERY&ORTHOPEDICS

Stefania Stan[1], Sonia Soare[1], Vasile Danut Cojocaru[1]

[1]National University of Science and Technology POLITEHNICA Bucharest, Bucharest, 060042, Romania

P.7. DESIGN AND CHARACTERIZATION OF DIFFERENT BONE GRAFT MATERIALS BASED ON CALCIUM PHOSPHATES TITANIUM MEDICAL

Cosmina Maria Cirdei[1], Aurora Antoniac[1*], Florin Miculescu[1], Iuliana Corneschi[1], Anca Maria Frățilă[2], Larisa Popescu[1], Ștefan Ioan Voicu[3,4,5], Iulian Antoniac[1,5]

[1] *Faculty of Material Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania;*
[2] *Department of Dental Medicine and Nursing, Faculty of Medicine, Lucian Blaga University of Sibiu, 550169 Sibiu, Romania*
[3] *Advanced Polymers Materials Group, National University of Science and Technology POLITEHNICA Bucharest, 1-7 Gheorghe Polizu, 011061 Bucharest, Romania*
[4] *Department of Analytical Chemistry and Environmental Engineering, Faculty of Chemical Engineering and Biotechnologies, National University of Science and Technology POLITEHNICA Bucharest, 1-7 Gheorghe Polizu, 011061 Bucharest, Romania*
[5] *Academy of Romanian Scientists, Bucharest, Romania;*

P.8. FABRICATION AND MICROSTRUCTURAL CHARACTERIZATION OF COMPOSITE MATERIALS PRODUCED BY LASER METAL DEPOSITION (LMD) TECHNOLOGY

Ruxandra-Elena Bratu[1], B. Brândușa Ghiban[1*] and C. Vasile Bratu[2*]
[1] *National University of Science and Technology POLITEHNICA Bucharest, Romania*
[2] *Valahia University of Târgoviște, Romania*

P.9. ADVANCES IN COBALT-BASED ALLOYS: PERFORMANCE, CHALLENGES, AND FUTURE DIRECTIONS

Mirabela Georgiana Minciuna[1,2], Petrica Vizureanu[1,2], Iulian Vasile Antoniac[2,3], Andrei Victor Sandu[1,2], Dragos Cristian Achitei[1]
[1] *Faculty of Materials Science and Engineering, "Gheorghe Asachi" Technical University of Iasi, Blvd. Mangeron, No. 51, 700050, Iasi, Romania;*
[2] *Academy of Romanian Scientists, 54 Splaiul Independentei St., Sect. 5, 050094 Bucharest, Romania;*
[3] *Faculty of Material Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, 313 Splaiul Independentei, District 6, 060042 Bucharest, Romania;*

P.10. DEGRADATION BEHAVIOR OF Mg–Zn–Mn–Ca ALLOYS IN SIMULATED ENVIRONMENTS

Marian Miculescu[1], Aurora Antoniac[1*], Gabriel Cristescu[1], Elena Eli Popescu (Pieptea)[1], Octavian Trante[1], Adriana Pop[1], Larisa Popescu[1], Iulian Antoniac[1,2]
[1] *Faculty of Material Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania;*
[2] *Academy of Romanian Scientists, Bucharest, Romania*

P.11. THE EFFECT OF FILLER TYPE ON CHITOSAN-BASED COMPOSITE COATINGS FOR BIODEGRADABLE MAGNESIUM IMPLANTS

Gabriel Cristescu[1], Aurora Antoniac[1*], Florin Miculescu[1], Elena Eli Popescu (Pieptea)[1], Anca Maria Frățilă[2], **Octavian Trante**[1], Iuliana Corneschi[1], Ștefan Ioan Voicu[3,4,5], Iulian Antoniac[1,5]
[1] *Faculty of Material Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania;*
[2] *Department of Dental Medicine and Nursing, Faculty of Medicine, Lucian Blaga University of Sibiu, 550169 Sibiu, Romania*

[3]*Advanced Polymers Materials Group, National University of Science and Technology POLITEHNICA Bucharest, 1-7 Gheorghe Polizu, 011061 Bucharest, Romania*
[4]*Department of Analytical Chemistry and Environmental Engineering, Faculty of Chemical Engineering and Biotechnologies, National University of Science and Technology POLITEHNICA Bucharest, 1-7 Gheorghe Polizu, 011061 Bucharest, Romania*
[5] *Academy of Romanian Scientists, Bucharest, Romania;*

P.12. INTELLIGENT PLC BASED AUTOMATION AND MONITORING SYSTEM FOR HOSPITAL ENVIRONMENTS

Cristina-Tudorita Axinte (Stanciu)[1], Nicoleta Bogatu[1], Viorica Ghisman[1], Daniela-Laura Buruiană[1,*]
[1]*Interdisciplinary Research Centre in the Field of Eco-Nano Technology and Advance Materials CC-ITI, Faculty of Engineering, "Dunarea de Jos" University of Galati, 47 Domneasca Street, 800008 Galati, Romania*

P.13. PRELIMINARY INVESTIGATIONS INTO THE BIOCOMPATIBILITY PROPERTIES OF LOW-ELASTIC-MODULUS Ti-Mo-Nb-Sn BIOMEDICAL ALLOYS

P. Vizureanu[1,2], M.S. Bălțatu[1], A.V. Sandu[1,2,3], D.C. Achiței[1], M.C. Perju[1], D.D. Burduhos-Nergis[1]
[1]*"Gheorghe Asachi" Technical University of Iași, Faculty of Material Science and Engineering, România*
[2] *Academy of Romania Scientist, 54, Splaiul Independenței St. Sect. 5, 050094, Bucharest, România*
[3] *Romanian Inventor Forum, Str. Sf. P. Movila 3, Iași, România*

P.14. DEVELOPMENT AND COMPARATIVE CHARACTERIZATION OF PATIENT-SPECIFIC LUNATE IMPLANTS USING DIRECT 3D PRINTING AND ADDITIVELY MANUFACTURED MOLDS

Larisa Popescu[1], Daniel Vilcioiu[2], Robert Ciocoiu[1], Florin Pisica[1], Adriana Pop[1], Iulian Antoniac[1]
[1]*Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania.*
[2] *Clinica de Chirurgia Mâinii Dr. Vîlcioiu, Bucharest, Romania*

P.15. THE INFLUENCE OF TESTING CONDITIONS ON THE CORROSION RATE OF TWO MAGNESIUM-BASED ALLOYS

Elena Eli Popescu (Pieptea)[1], Aurora Antoniac[1*], Ioana Dana Carstoc[2], **Gabriel Cristescu[1],** Octavian Trante[1], Iuliana Corneschi[1], Adriana Pop[1], Iulian Antoniac[1,3]
[1] *Faculty of Material Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania;*
[2] *Faculty of Medicine, Lucian Blaga University of Sibiu, 550169 Sibiu, Romania*
[3] *Academy of Romanian Scientists, Bucharest, Romania;*

P.16. POST-PROCESSING TREATMENT EFFECT ON ADDITIVELY MANUFACTURED Ti6Al4V ORTHOPEDIC IMPLANTS PRODUCED BY SLM

Sarah Cărbunescu[1], Iuliana Corneschi[1], Larisa Popescu[1], Robert Ciocoiu[1], Florin Pisica[1], Elena-Eli Popescu[1], Dragos Alexandrescu[1], Adriana Pop[1], Iulian Antoniac[1]

[1]*Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania.*

P.17. THE USE OF INDUSTRIAL COMPUTER TOMOGRAPHY FOR THE BIODEGRADABILITY EVALUATION OF Mg-BASED BIOMEDICAL ALLOY

Iuliana Corneschi[1], Aurora Antoniac[1], Elena Eli Popescu[1], Larisa Popescu[1], Adriana Pop[1], Iulian Antoniac[1]
[1]*Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania.*

P.18. EXPERIMENTAL ANALYSIS PROTOCOL FOR METALLIC IMPLANTS USED IN TRAUMATOLOGY FOLLOWING FAILURE

Mihai Alexandru Cordunianu[1*], Alina Georgiana Cordunianu[1], Vasile Iulian Antoniac[2]
[1]*Faculty of Medicine, Titu Maiorescu University, Bucharest, Romania;*
[2]*Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania.*

P.19. NUMERICAL AND ANALYTICAL INVESTIGATION IN THE DEVELOPMENT OF AN HAND EXO-PROSTHESIS

Costea Mihai1[*1], Daniel Vlăsceanu[1], Gheorghe-Gabriel Jiga[1]
[1]*Faculty of Industrial Engineering and Robotics, National University of Science and Technology POLITEHNICA Bucharest, Romania;*

P.20. DIGITAL LIGHT PROCESSING 3D PRINTING OF CERAMIC-RESIN COMPOSITE MATERIALS

Bianca-Andreea Olteanu[1], Daniela Manole[1], Ciprian Preda[1], Maria-Felicia Dondea[1], Sorina Dondea[1], Paul Stoica[1], Aura-Cătălina Mocanu[1], Florin Miculescu[1]*
[1]*Department of Metallic Materials Science and Physical Metallurgy, Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Splaiul Independenței 313, 060042 Bucharest, Romania*

P.21. EFFECT OF AMPICILLIN, HYDROXYAPATITE AND GRAPHENE NANOPLATELETS ON THE ANTIBACTERIAL ACTIVITY OF PRINTABLE PLA COMPOSITES

Manole Daniela[1], Florin Miculescu[1]*, Aura Catalina Mocanu[1], Elena-Sorina Dondea[1], Paul Stoica[1], Felicia Dondea[1], Olteanu Bianca
[1]*National University of Science and Technology POLITEHNICA Bucharest, Department of Metallic Materials Science, Physical Metallurgy, 313 Splaiul Independenței, J Building, RO-060042, Bucharest, Romania*

P.22. ANTIBACTERIAL RESPONSE OF 3D-PRINTABLE POLY(LACTIC ACID) /RIFAMPICIN/HYDROXYAPATITE/ GRAPHENE NANOPLATELET COMPOSITES WITH TUNABLE COMPONENT RATIOS FOR BONE INFECTIONS

Preda Ciprian[1], Florin Miculescu[1]*, Aura Catalina Mocanu[1], Paul- Gabriel Stoica[1], Elena-Sorina Dondea[1], Manole Daniela[1], Felicia Dondea[1], Olteanu Bianca[1]

[1] *National University of Science and Technology POLITEHNICA Bucharest, Department of Metallic Materials Science, Physical Metallurgy, 313 Splaiul Independenței, J Building, RO-060042, Bucharest, Romania*

P.23. BIOCOMPOSITE FILAMENTS REINFORCED WITH NATURAL-ORIGIN FIBRES FOR SPECIALIZED BIOMEDICAL APPLICATIONS

Enescu Diana[1], Dondea Maria Felicia[1,2], Visileanu Emilia[2], Olteanu Bianca[1], Manole Daniela[1], Preda Ciprian[1], Dondea Sorina[1], Stoica Paul[1], Mocanu Aura-Cătălina[1], Miculescu Florin[1*]

[1]*National University of Science and Technology POLITEHNICA Bucharest, Department of Metallic Materials Science, Physical Metallurgy, 313 Splaiul Independenței, J Building, RO-060042, Bucharest, Romania*

[2]*National Research and Development Institute for Textiles and Leather, 16 Lucretiu Patrascanu Street, 030508 Bucharest, Romania*

Friday, November 13th, 2026

Panel 4 Materials for Defense and Security Applications
09.00-12.00 Room AN 034

Chairs & Company Representatives (Panel Members)

Marian MICULESCU (NUST POLITEHNICA Bucharest)
Traian ROTARIU („Ferdinand I“ Military Technical Academy Bucharest)
Tudor-Viorel TIGANESCU („Ferdinand I“ Military Technical Academy Bucharest)
Vlad-Constantin ISTRATE (STIMPEX S.A.)
Florin PISICA (TOP Metrology)
Raluca-Elena GINGHINA (Research and Innovation Center for CBRN Defense and Ecology, Bucharest)
Irina CARCEANU (National Company ROMARM S.A.)

09:00- 09:20 Keynote Lecture K.1.

A DUAL-USE UNMANNED GROUND VEHICLE WITH LANGUAGE-MODEL DECISION SUPPORT FOR RECONNAISSANCE IN GPS-DENIED ENVIRONMENTS

Lucian Gheorghe Gruionu[1,2]

[1]*Infigo Consulting SRL, Romania*

[2]*University of Craiova, Faculty of Automotive, Technological Engineering and Mechanics, Romania*

09:20- 09:40 Keynote Lecture K.2.

DEVELOPMENT AND CHARACTERIZATION OF ARAMID FIBER-REINFORCED COMPOSITES FOR THE PROTECTION OF COMMUNICATION SYSTEMS

Cătălin-Petrică Aramă[1], Viorica Ghisman[1], Daniela-Laura Buruiană1[1]

[1]*Interdisciplinary Research Centre in the Field of Eco-Nano Technology and Advance Materials CC-ITI, Faculty of Engineering, “Dunarea de Jos” University of Galati, 47 Domneasca Street, 800008 Galati, Romania*

09:40- 10:00 Keynote Lecture K.3.

ADVANCED MATERIALS FOR CBRN DEFENCE AND BALLISTIC APPLICATIONS

Traian Rotariu[1], Gabriela Toader[1], Aurel Diacon[1], Alice Podaru[1], Andreea Moldovan[1], Adrian Rotariu[1], Florin Dîrloman[1], Dorin Holeoleo[1]

[1]Military Technical Academy of Bucharest, Faculty of Integrated Armament Systems and Mechatronics

10:00- 10:20 Keynote Lecture K.4.

ENGINEERING ADVANCED MATERIALS FOR EXTREME THERMAL ENVIRONMENTS IN DEFENSE AND SECURITY

Marian Miculescu[1]

[1]National University of Science and Technology POLITEHNICA Bucharest, Faculty of Materials Science and Engineering, Bucharest, Romania

10:20- 10:30 Oral Presentation O.1.

ADVANCED MATERIALS-ENHANCED ULTRASONIC TECHNOLOGY FOR CHEMICAL WARFARE AGENT DESTRUCTION

Raluca-Elena Ginghină[1], Adriana-Elena Bratu[1], Alina Toma[1], Stefan Pricop[1], Iulia-Maria Ginghină[2], Vasile Somoghi[3], Claudiu Lăzăroaie[3], Tudor-Viorel Țigănescu[3]

[1]Research and Innovation Center for CBRN Defense and Ecology, Bucharest, Romania

[2]Doctoral School of Electronics, Telecommunications, and Information Technology, National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania

[3]STIMPEX S.A., Bucharest, Romania

10:30- 10:40 Oral Presentation O.2.

ADVANCED MATERIALS-ENHANCED ULTRASONIC TECHNOLOGY FOR CHEMICAL WARFARE AGENT DESTRUCTION

Eliseia Petre[1,2], Marian Miculescu[2], Raluca Ivan[1], Marian Zamfirescu [1]

[1] National Institute for Laser, Plasma and Radiation Physics, Magurele, Romania

[2]National University of Science and Technology POLITEHNICA of Bucharest, 313 Independeței Street, Bucharest, Romania

10:40- 10:50 Oral Presentation O.3.

BIOMIMETIC NANOSTRUCTURED METALLIC SURFACES FOR DEFENSE AND SECURITY APPLICATIONS

Diana Enescu[1], Marian Miculescu[1], Maria Toader[1], Iulian Antoniac[1,2]

[1]National University of Science and Technology POLITEHNICA Bucharest, Faculty of Materials Science and Engineering, Bucharest, Romania

[2]Academy of Romanian Scientists, Bucharest, Romania

10:50 - 11:00 Company Presentation - STIMPEX S.A.

Vlad-Constantin Istrate[1]

[1]STIMPEX S.A.

11:00 - 11:10 Company Presentation - TOP Metrology S.R.L.
Florin Pisica[1]
[1]*TOP Metrology S.R.L.*

11:10 - 11:20 Company Presentation - National Company ROMARM S.A.
Irina Carceanu[1]
[1]*ROMARM S.A.*

11:20 - 12:00 Debates

POSTER SESSION FOR PANEL 4

P.1. STUDY OF THE COMPOSITION, STRUCTURE AND PROPERTIES OF ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE (UHMWPE) IN DEFENSE APPLICATIONS
Daniela Alina Necșulescu[1*], Mariana Ciurdaș[1]
[1]*Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Bucharest, 060042, Romania*

P.2. INVESTIGATION OF THE PHYSICOCHEMICAL CHARACTERISTICS AND SKIN IRRITATION POTENTIAL OF CONDUCTIVE TEXTILE STRUCTURES USED IN HEMOSTASIS DETECTION AND MONITORING SYSTEMS
Emilia Visileanu[1], Maria Felicia Dondea[1,2,*], Alexandra-Gabriela Ene[1], Elena Perdum[1], Radu Hertzog[3], Florin Miculescu[2]
[1]*National Research and Development Institute for Textiles and Leather, Bucharest, Romania*
[2]*National University of Science and Technology POLITEHNICA Bucharest, Department of Metallic Materials Science, Physical Metallurgy, Bucharest, Romania*
[3]*EPSICOM SRL, Craiova, Dolj, Romania*

P.3. EEG-BASED NEUROPHYSIOLOGICAL ASSESSMENT OF HUMAN RESPONSES: A CONCEPTUAL APPROACH FOR CROSS-DOMAIN APPLICATIONS
Iulia-Maria Ginghină[1*], Marius Minea[2], Cătălin-Marian Dumitrescu[2], Tudor-Viorel Țigănescu[3], Alina Toma[4]
[1]*Doctoral School of Electronics, Telecommunications, and Information Technology, National University of Science and Technology POLITEHNICA Bucharest, Romania*
[2]*Department of Telematics and Electronics for Transports, National University of Science and Technology POLITEHNICA Bucharest, Romania*
[3]*Military Technical Academy "Ferdinand I", Bucharest, Romania*
[4]*Research and Innovation Center for CBRN Defense and Ecology, 225 Oltenitei Ave. 4th district, Bucharest, Romania*

P.4. INNOVATIVE SURFACE MODIFICATION STRATEGIES FOR HIGH-PERFORMANCE KEVLAR IN BALLISTIC APPLICATIONS

Georgiana Ghisman (Alexe)[1], Gabriel Bogdan Carp[1], Tudor Viorel Tiganescu[2], Daniela-Laura Buruiană[1*]
[1]*Interdisciplinary Research Centre in the Field of Eco-Nano Technology and Advance Materials CC-ITI, Faculty of Engineering, "Dunarea de Jos" University of Galati, 47 Domneasca Street, 800008 Galati, Romania*
[2]*Military Technical Academy, George Cosbuc Blvd 39-49, 050141 Bucharest, Romania*

P.5. FUNCTIONAL POLYMER NANOCOMPOSITE COATINGS FOR ENHANCED PROTECTION IN MARINE ENVIRONMENTS

Bianca-Elena Rosca (Neagu)[1], Nicoleta Bogatu[1], Viorica Ghisman[1], Daniela-Laura Buruiană[1*]
[1]*Interdisciplinary Research Centre in the Field of Eco-Nano Technology and Advance Materials CC-ITI, Faculty of Engineering, "Dunarea de Jos" University of Galati, 47 Domneasca Street, 800008 Galati, Romania*

P.6. SMART MONITORING SYSTEMS FOR ASPHALT PAVEMENTS USING EMBEDDED SENSORS, SELF-SENSING MATERIALS AND DATA PROCESSING

Andromeda Toader (Iacob)[1], Gabriel Bogdan Carp[1], Viorica Ghisman[1], Tudor Viorel Tiganescu[2], Daniela-Laura Buruiană[1]*
[1]*Interdisciplinary Research Centre in the Field of Eco-Nano Technology and Advance Materials CC-ITI, Faculty of Engineering, "Dunarea de Jos" University of Galati, 47 Domneasca Street, 800008 Galati, Romania*
[2]*Military Technical Academy, George Cosbuc Blvd 39-49, 050141 Bucharest, Romania*

P.7. PHASES STABILITY INVESTIGATIONS ON SOME NI-BASE HIGH TEMPERATURE SUPERALLOYS

Alexandru Streza[1*], Mihai Branzei[1], Robert Bololoi[1]
[1]*Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania*

P.8. STUDIES AND RESEARCH ON THE DEVELOPMENT OF LOW-DRAG MUNITIONS FOR F-16 / IAR-99 ȘOIM / STANDARD AIRCRAFT

Irina Cârceanu[1], Dumitru Nicolae[2], Traian Rotariu[3], Mihail Munteanu[4], Florin Timplaru[5]
[1]*Center of Excellence in Research, Development and Innovation Branch, Bucharest,*
[2]*UPS Dragomirești,*
[3]*Military Technical Academy,*
[4]*Ministry of National Defence, CBRNE Bucharest,*
[5]*Flight Research, Innovation and Testing Center, Craiova*

P.9. EXPERIMENTAL RESEARCH ON THE DEVELOPMENT OF NEW TYPES OF LOW-TOXICITY MODULAR SMOKE GRENADES

Irina Cârceanu[1], Marian Dinescu2, Elena Andreea Moldovan[3]
[1]*Center of Excellence in Research, Development and Innovation Branch, Bucharest,*
[2]*UM MIJA, 3Military Technical Academy*

P.10. ADDITIVE MANUFACTURING OF UAV STRUCTURAL COMPONENTS: DESIGN, MATERIAL SELECTION AND PERFORMANCE EVALUATION

Ana-Iulia Bița[1*], Doru Blăjan[1], Iulian Antoniac[1]
[1]*Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania*

P.11. EXPERIMENTS ON THE DEVELOPMENT OF A NEW TYPE OF EXTENDED-RANGE TANDEM ANTI-TANK MUNITION
Irina Cârceanu[1], Gabriel Irimescu[2], Adrian Rotariu[3], Mihail Munteanu[4]
[1]*Center of Excellence in Research, Development and Innovation Branch, Bucharest,*
[2]*UM MIJA,*
[3]*Military Technical Academy,*
[4]*Ministry of National Defence, CBRNE Bucharest*

Friday, November 13th, 2026

Panel 1 Materials Obtaining, Processing and Characterization
09:00 - 12:00 Senate Hall

Chairs & Company Representatives (Panel Members)
Radu STEFANOIU (NUST POLITEHNICA Bucharest)
Constantin Stelian STAN (NUST POLITEHNICA Bucharest)
Vasile Danut COJOCARU (NUST POLITEHNICA Bucharest)
Nicolae SERBAN (NUST POLITEHNICA Bucharest)
Nicanor CIMPOESU (Technical University "Gheorghe Asachi" of Iasi)
Radu NEDELCU (NAMICON)
Marius GABREANU (NUTECHNOLOGIES)
Cristinel Gheorghe MOGA (STRUERS)

09:00- 09:20 Keynote Lecture K.1.
FROM LABORATORY RESEARCH TO INDUSTRIAL PROCESSING OF INCOLOY 925 ALLOY
Vasile Danut Cojocaru [1,*], Adrian Vintilai [2], Adrian Boteanu [2], Mariana Lucia Angelescu [1], Nicolae Serban [1], Irina Varvara Balkan [1], Eduard Marius Stefan [1], Nicoleta Zarnescu-Ivan [1] and Elisabeta Mirela Cojocaru [1]
[1] *Faculty of Materials Science and Engineering, National University of Science and Technology Politehnica Bucharest, Bucharest, 060042, Romania*
[2] *SC Forja Rotec SRL, Buzau, Buzau, Romania*

09:20- 09:30 Oral Presentation O.1.
MICROSTRUCTURAL AND MECHANICAL PROPERTIES EVOLUTION DURING HEAT TREATMENT PROCESSING OF ASTM A694 F65 STEEL
Mariana Lucia Angelescu [1], Adrian Vintilai [2], Adrian Boteanu [2], Vasile Danut Cojocaru [1,*], Nicolae Serban [1], Nicoleta Zarnescu-Ivan [1] and Elisabeta Mirela Cojocaru [1]
[1] *Faculty of Materials Science and Engineering, National University of Science and Technology Politehnica Bucharest, Bucharest, 060042, Romania*

[2] *SC Forja Rotec SRL, Buzau, Buzau, Romania*

09:30- 09:40 **Oral Presentation O.2.**

ADVANCED PROCESSING OF BIODEGRADABLE Mg-BASED ALLOYS

Doina Raducanu [1,*], Vasile Danut Cojocaru [1], Anna Nocivin [2], Radu Emil Hendea [3], Doina Stanciu [3], Claudia Ioana Cojocaru [1,4] and Bogdan Mihai Galbinasu [4]

[1] *Faculty of Materials Science and Engineering, National University of Science and Technology Politehnica Bucharest, Bucharest, 060042, Romania*

[2] *Faculty of Mechanical, Industrial and Maritime Engineering, Ovidius University of Constanța, Constanța, 900527, Romania*

[3] *ZIRCON DENT SRL, Cluj-Napoca, 400690, Romania*

[4] *Dental Medicine Faculty, University of Medicine and Pharmacy "Carol Davila" Bucharest, Bucharest, 020021, Romania*

09:40- 09:50 **Oral Presentation O.3.**

SOCIO-ECONOMIC CONSULTATION ON NEEDS AND DEVELOPMENT DIRECTIONS FOR THE 2026 – 2035 PERIOD

V.D. Cojocaru; C.S. Stan; N. Serban

National University of Science and Technology Politehnica Bucharest, Bucharest, 060042, Romania

09:50- 11:30 **Company Presentation**

09:50- 10:10 **INNOVATIONS IN ADVANCED NON-DESTRUCTIVE TESTING EQUIPMENT**
Radu Nedelcu
NAMICON

10:10- 10:30 **INDUSTRIAL 3D PRINTING: CASE STUDIES**
Marius Găbreanu
NUTECHNOLOGIES

10:30- 10:50 **STATE-OF-THE-ART EQUIPMENT FOR PREPARING METALLOGRAPHIC SAMPLES**
Gheorghe-Cristinel Moga, Eduard Bahnareanu
STRUERS

10:50- 11:10 **ADDITIVE MANUFACTURING IN THE DEFENSE & SECURITY INDUSTRY**
Marius Găbreanu
NUTECHNOLOGIES

11:10- 11:30 **COMPETENCE IN TITANIUM. MADE IN EUROPE**
Gabriela Olexiuc
ZIROM

11:30 - 12:00 **Debates**

POSTER SESSION FOR PANEL 1

P.1. TECHNICAL SOLUTIONS FOR WEAR REDUCTION AND RELIABILITY ENHANCEMENT OF METALLIC EQUIPMENT IN THE PAINT INDUSTRY
Alexandra Ignat, Mihai Chisamera, Stelian Stan
National University of Science and Technology Politehnica Bucharest, Bucharest, 060042, Romania

P.2. APPLICATIONS OF AI IN DEVELOPING PASSIVE SCREEN PROTECTION AGAINST THERMAL RADIATION
Cătălin OPRIŢĂ[1]*, Stelian STAN[1], Ion ANGHEL[2], Adrian SIMION[3], LICĂRĂ Vasile – Cristian[1]
[1]*Faculty of Materials Science and Engineering, POLITEHNICA of Bucharest, Splaiul Independenței No. 313, Sector 6, Bucharest, Romania*
[2]*Faculty of Fire Fighters - Police Academy Al. Ioan Cuza of Bucharest, Morarilor Road No. 3, Bucharest Sector 2, Romania*
[3]*INCD Urban-Inerc, Pantelimon Road No. 266, Bucharest Sector 2, Romania*

P.3. APPLICATION OF 3D TECHNOLOGY IN THE PRODUCTION OF CAST IRON ALLOY PARTS
I. Stan; M. Ghirase; Ș. Stan
National University of Science and Technology Politehnica Bucharest, Bucharest, 060042, Romania

P.4. METAL MATRIX COMPOSITES REINFORCED WITH POWDER PARTICLES
R. Tudoran; M. Chișamera; I. Stan; D. Anca; I. Riposan; S. Stan
National University of Science and Technology Politehnica Bucharest, Bucharest, 060042, Romania

P.5. MULTI-MATERIAL SYSTEMS AND ADVANCED FABRICATION PROCESSES FOR CREATIVE APPLICATIONS
Ș. Chirvase; S. Stan; I. Stan
National University of Science and Technology Politehnica Bucharest, Bucharest, 060042, Romania

P.6. DESIGN AND DEVELOPMENT OF A MULTI-ROLE HYBRID DRONE
A. Ștefănache; S. Stan; Ș. Stan
National University of Science and Technology Politehnica Bucharest, Bucharest, 060042, Romania

P.7. FIRE PROTECTION FOR METAL STORAGE RACKS
C. Opriță; S. Stan; B. Torac Toma
National University of Science and Technology Politehnica Bucharest, Bucharest, 060042, Romania

P.8. ANALYZING THE MERGER BETWEEN THE UNIVERSITY POLITEHNICA OF BUCHAREST AND THE UNIVERSITY OF PITEȘTI: CONTRIBUTIONS TO UNDERSTANDING ITS IMPACT ON STUDENTS
D.M. Serban (Bondrescu); A. Semenescu; N. Serban
National University of Science and Technology Politehnica Bucharest, Bucharest, 060042, Romania

P.9. ORGANIZATIONAL INTEGRATION IN HIGHER EDUCATION: AN ANALYSIS OF THE MERGER BETWEEN THE UNIVERSITY POLITEHNICA OF BUCHAREST AND THE UNIVERSITY OF PITEȘTI FROM THE EMPLOYEES' PERSPECTIVE

D.M. Serban (Bondrescu); A. Semenescu; N. Serban
National University of Science and Technology Politehnica Bucharest, Bucharest, 060042, Romania

P.10. INFLUENCE OF BALL BURNISHING PROCEDURES ON SURFACE HARDENING OF 6082 ALUMINUM ALLOYS IN DIFFERENT STATES

Enaru Laura Nicoleta[1], Fathi Gharbi[2], Trante Octavian[1], Brandusa Ghiban[1]
[1]*National University of Science and Technology Politehnica Bucharest, Bucharest, 060042, Romania*
[2]*Unversite de KAIROUAN, Tunis*

P.11. CORRELATION BETWEEN STRUCTURE AND MECHANICAL PROPERTIES OF INCONEL 718 IN DIFFERENT STATES

V.G. Angheluta; R.E. Bratu; O. Trante; B. Ghiban
[1]*National University of Science and Technology Politehnica Bucharest, Bucharest, 060042, Romania*

ROMAT 2026

Friday, November 13th, 2026
Amphitheatre AN 010
12:00- 13:00

ROUND TABLE

EDUCATION IN MATERIALS ENGINEERING



- CNATDCU Commission 7 (Materials Engineering and Science)
- Deans of the Materials Engineering Faculties in Romanian Universities
- Relevant experts in materials engineering
- Relevant experts in university management

Friday, November 13th, 2026

PLENARY SESSION 2
14.00-15.30 Amphitheatre AN 010

Chairs:
Florin MICULESCU (NUST POLITEHNICA Bucharest)
Cosmin COTRUT (NUST POLITEHNICA Bucharest)

14:00 – 14:30 Plenary lecture P.1.
Hasan GÖÇMEZ (Türkiye) - ***High-entropy borides for supercapacitors***

14:30 – 15:00 Plenary lecture P.2.
Corrado PICONI (Italy) - ***Orthopedic Implant Technology – Development in Progress and Regulatory Constraint***

15:00 – 15:30 Plenary lecture P.3.
Cihangir DURAN (Türkiye) - ***Texturing functional ceramics***

Friday, November 13th, 2026

Panel 5 Materials and Advanced Technology for Dentistry
16:00 - 19:00 Room AN 010

Chairs & Company Representatives (Panel Members)
Iulian ANTONIAC (NUST POLITEHNICA Bucharest)
Cosmin Mihai COTRUT (NUST POLITEHNICA Bucharest)
Eduard LICIU (Innovation & eHealth Center – U.M.F. "Carol Davila")
Peter Paul FISCHER (Dr.Fischer Dental Lab)
Miruna Andreea ANGHEL (University of Medicine and Pharmacy of Craiova)
Brandusa GHIBAN (NUST POLITEHNICA Bucharest)
Petrica VIZUREANU (Technical University "Gheorghe Asachi" of Iasi)
Kamel EARAR ("Lower Danube" University of Galati)

16:00- 16:20 Keynote Lecture K.1.
NEW RESTORATIVE DENTAL COMPOSITES FROM PROCESSING TO CLINICAL APPLICATIONS
Lucian Toma Ciocan[1]
[1]*University of Medicine and Pharmacy "Carol Davila" Bucharest, Romania*

16:20- 16:40 Keynote Lecture K.2.
BRIDGING THE GAP IN DIGITAL DENTISTRY: COMPUTER-AIDED ENGINEERING (CAE) AS THE THIRD PILLAR OF THE DIGITAL WORKFLOW
Miruna Andreea Anghel[1], Iulian Antoniac[2], Florin Andrei Anghel[3], Stefania Stan[4], Julietta V. Rau[5], Horia Octavian Manolea[6]

[1] *Department of Dental Prosthesis Technology, Faculty of Dentistry, University of Medicine and Pharmacy of Craiova, 200349 Craiova, Romania;*
[2] *Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, 313 Splaiul Independentei, District 6, 060042 Bucharest, Romania;*
[3] *Phd student at National University of Science and Technology POLITEHNICA Bucharest, 313 Splaiul Independentei, 060042 Bucharest, Romania;*
[4] *Phd student at National University of Science and Technology POLITEHNICA Bucharest, 313 Splaiul Independentei, 060042 Bucharest, Romania;*
[5]*Istituto di Struttura della Materia, Consiglio Nazionale delle Ricerche (ISM-CNR), Area di Ricerca di Tor Vergata, Via del Fosso del Cavaliere 100, 00133 Rome, Italy*
[6]*Department of Dental Materials, Faculty of Dentistry, University of Medicine and Pharmacy of Craiova, 200349 Craiova, Romania;*

16:40- 17:00 Keynote Lecture K.3.

SURFACE MODIFICATION AND FUNCTIONALIZATION STRATEGIES FOR DENTAL IMPLANTS

Diana M. Vranceanu[1] and C.M. Cotrut[1]
[1]*National University of Science and Technology POLITEHNICA Bucharest, 313 Independentei Street, 060042, Bucharest, Romania1*

17:00- 17:10 Oral Presentation O.1.

ELECTROCHEMICAL SYNTHESIS OF BIOMIMETIC HYDROXYAPATITE COATINGS WITH PLATE-LIKE MORPHOLOGY

Elena Ungureanu (Poenaru)[1], Diana M. Vranceanu[1], Alina Vladescu (Dragomir)2, Irina Titorencu[3], Anca C. Parau[2], Vasile Pruna[3] and Cosmin M. Cotrut[1]
[1]*National University of Science and Technology POLITEHNICA of Bucharest, 313 Independeței Street, Bucharest, Romania,*
[2] *National Institute for Optoelectronics, 409 Atomistilor Street, Magurele, Bucharest, Romania,*
[3]*Institute of Cellular Biology and Pathology "Nicolae Simionescu 8 B.P.HASDEU street, Bucharest, Romania*

17:10 - 17:20 Oral Presentation O.2.

ANALOG VS. DIGITAL: TECHNOLOGIES AND BIOMATERIALS REDEFINING PROSTHETIC DENTISTRY

Kamel Earar[1] and Sonia Teodora Stătescu-Mănăilă[1]
[1]*"Dunărea de Jos" University of Galați, Faculty of Medicine and Pharmacy, Department of Dental Medicine*

17:20- 17:30 Oral Presentation O.3.

ORAL HYGIENE AND SECONDARY PREVENTION IN PATIENTS WITH FIXED PROSTHETIC RESTORATIONS

Hatem Aljabwobi[1], Viorica Ghisman[1], Kamel Earar[2,3] and Daniela-Laura Buruiană[1,*]

[1]*Interdisciplinary Research Centre in the Field of Eco-Nano Technology and Advance Materials CC-ITI, Faculty of Engineering, "Dunarea de Jos" University of Galati, 47 Domneasca Street, 800008 Galati, Romania*
[2]*Medical and Pharmaceutical Research Center, Faculty of Medicine and Pharmacy, "Dunărea de Jos" University of Galati, 800008 Galati, Romania*
[3]*Dental-Medicine Department, Faculty of Medicine and Pharmacy, "Dunărea de Jos" University of Galati, 800201 Galati, Romania*

17:30- 18:00 Company Presentation - Dr.Fischer Dental Lab

18:00- 18:30 Presentation of Innovation & eHealth Center – U.M.F. "Carol Davila"

18:30 - 19:00 Debates

POSTER SESSION FOR PANEL 5

P.1. ENAMEL OR DENTIN? THE IMPACT OF CERVICAL PREPARATION DEPTH ON THE PERFORMANCE OF TWO ADHESIVE SYSTEMS USING THE TOTAL-ETCH TECHNIQUE
C.I. Cojocaru[1,2*], D. Raducanu[1] and B.M. Galbinasu[2]
[1] *Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Bucharest, 060042, Romania*
[2] *Dental Medicine Faculty, University of Medicine and Pharmacy "Carol Davila" Bucharest, Bucharest, 020021, Romania*

P.2. EXPERIMENTAL RESEARCH ON THE BEHAVIOR OF SILVER-DOPED POLYLACTIC ACID REINFORCED WITH HYDROXYAPATITE
Marius Nistorescu[1], B. Ruxandra-Elena Bratu[2*], Brândușa Ghiban[2], D. Dan Batalu[2], E. Radu Ștefănoiu[2] and F. Vasile Bratu[1*]
[1] *Valahia University of Târgoviște (Romania)*
[2] *National University of Science and Technology POLITEHNICA Bucharest, Romania*

P.3. MICROSTRUCTURAL ARCHITECTURE AND ELEMENTAL HETEROGENEITY OF Zn–Zr–Mg PHOSPHATE CONVERSION COATINGS ON Ti6Al4V ALLOY THROUGH SEM–EDX INVESTIGATIONS
V.D. Bunduc[1], L.I. Cioca[2,3], A. Pascu[4], N.M. Lohan[1], D.P. Burduhos-Nergis[1*] and C. Bejinariu[1,3]
[1]*Faculty of Materials Science and Engineering, ''Gheorghe Asachi'' Technical University of Iasi, 700050 Iasi, Romania*
[2]*Industrial Engineering and Management Department, Faculty of Engineering, Lucian Blaga University of Sibiu, 550024 Sibiu, Romania*
[3]*Academy of Romanian Scientists, Ilfov 3, 050044, Bucharest, Romania*
[4]*Materials Engineering and Welding Department, Transilvania University of Brasov, Eroilor Blvd., 29, 500036 Brasov, Romania*

P.4. REGENERATIVE BIOMATERIALS IN ENDO-PERIODONTAL LESIONS: COMPARATIVE EVALUATION OF RESORBABLE MEMBRANE AND A-PRF

Ada Stefanescu[1] and Brandusa Ghiban[1]
[1]*National University of Science and Technology POLITEHNICA Bucharest, 313 Independentei Street, 060042, Bucharest, Romania,*

P.5. DEVELOPMENT AND CHARACTERIZATION OF COPPER DOPED HYDROXYAPATITE ELECTROCHEMICALLY DEPOSITED ON TITANIUM SUBSTRATE

Georgiana Cioranu[1,*], A.A. Lupu[1], E. Ungureanu (Poenaru)[1], A.C. Parau [2], M. Dinu[2], Alina Vladescu (Dragomir)[2], M. Tarcolea[1], Diana M. Vranceanu[1] and Cosmin M. Cotrut[1]
[1]*National University of Science and Technology POLITEHNICA Bucharest, 313 Independentei Street, 060042, Bucharest, Romania,*
[2]*National Institute of Research and Development for Optoelectronics—INOE 2000, 77125 Magurele, Romania*

P.6. INFLUENCE OF PRECURSOR CONCENTRATION ON THE CHARACTERISTICS OF HYDROXYAPATITE-BASED COATINGS

Adrian C. Marin[1,*], A.A. Lupu[1], E. Ungureanu (Poenaru)[1], M. Dinu[2], Alina Vladescu (Dragomir)[2], M. Tarcolea[1], R.I. Zamfir-Andronic[1], Diana M. Vranceanu[1] and Cosmin M. Cotrut[1]
[1]*National University of Science and Technology POLITEHNICA Bucharest, 313 Independentei Street, 060042, Bucharest, Romania,*
[2]*National Institute of Research and Development for Optoelectronics—INOE 2000, 77125 Magurele, Romania*

P.7. REPEATABILITY ASSESSMENT OF DIGITAL DENTAL MODELS

C. Sivu[1], F. Pisică[1], M. Vasilescu[1], I. Antoniac[1], I. Corneschi[1], R. Ciocoiu[1], M. Pantea[2]
[1]*Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, 060042 Bucharest, Romania.*
[2]*Department of Prosthodontics, Faculty of Dentistry, "Carol Davila" University of Medicine and Pharmacy, Bucharest, Romania.*

Friday, November 13th, 2026

PANEL 6 EcoMaterials and Environmental Engineering
16:00 - 19:00 Room AN 034

Chairs & Company Representatives (Panel Members)

Ecaterina MATEI (NUST POLITEHNICA Bucharest)
Andra Mihaela PREDESCU (NUST POLITEHNICA Bucharest)
Andrei-Constantin BERBECARU (NUST POLITEHNICA Bucharest)
Lidia BENEA ("Lower Danube" University of Galati)
Costica BEJINARIU (Technical University "Gheorghe Asachi" of Iasi)
Ciprian MANEA (VEGA Holding)

16:00- 16:20 Keynote Lecture K.1.

FROM WASTE TO ADVANCED ECOMATERIALS: NEW FRONTIERS IN CIRCULAR MATERIALS ENGINEERING

Rodica Mariana Ion[1]

[1]*Valahia University Of Targoviste*

16:20- 16:40 Keynote Lecture K.2.

REMOVAL OF PHARMACEUTICAL EMERGING POLLUTANTS FROM WATER USING MAGNETIC-HYDROCHAR

Anca Andreea Saulean[1]

[1]*NUST POLITEHNICA Bucharest, Faculty of Materials Science and Engineering, 313 Independentei Street, 060042, Bucharest, Romania*

16:40- 16:50 Oral Presentation O.1.

GELATIN AND CASEIN FILMS INCORPORATING NISIN AND DILL ESSENTIAL OIL FOR FOOD PACKAGING APPLICATIONS

Alecsia Stoica[1,*], Loredana Cosma [1], Ecaterina Matei [2], Maria Râpă [2],Andreea Anca Șăulean [2], Cristina-Ileana Covaliu[2]

[1] *Biotechnical Systems Engineering Doctoral School, National University Of Science And Technology POLITEHNICA Bucharest, 313 Splaiul Independentei, 060042 Bucharest, Romania;*

[2] *Faculty Of Materials Science And Engineering, National University Of Science And Technology POLITEHNICA Bucharest, 060042 Bucharest, Romania;*

16:50 - 17:00 Oral Presentation O.2.

OPTIMIZATION OF GREEN HYDROGEN PRODUCTION PROCESSES FOR A SUSTAINABLE ENVIRONMENT

Alexandru-Bogdan Bulat[1,*], Ecaterina Matei[2]

[1] *Biotechnical Systems Engineering Doctoral School, National University Of Science And Technology POLITEHNICA Bucharest, 313 Splaiul Independentei, 060042 Bucharest, Romania;*

[2] *Faculty Of Materials Science And Engineering, National University Of Science And Technology POLITEHNICA Bucharest, 060042 Bucharest, Romania;*

17:00- 17:10 Oral Presentation O.3.

THE IMPACT OF ARMED CONFLICT ON THE ENVIRONMENT AND AIR QUALITY

Valentin Mărăcineanu[1], Georgiana-Miana Andriciuc[1], Alexandra Bădiceanu[1], Dînă Lidia[2], Maria Râpă[2], Ecaterina Matei[2], Andra-Mihaela Predescu[2]

[1] *Biotechnical Systems Engineering Doctoral School, National University Of Science And Technology POLITEHNICA Bucharest, 313 Splaiul Independentei, 060042 Bucharest, Romania;*

[2] *Faculty Of Materials Science And Engineering, National University Of Science And Technology POLITEHNICA Bucharest, 060042 Bucharest, Romania;*

17:10- 17:20 Oral Presentation O.4.

SUSTAINABLE POLYMERIC BIOCOMPOSITES BASED ON POLY(LACTIC ACID) (PLA) AND BIO-WASTE FOR ENVIRONMENTAL APPLICATIONS

Corina Violeta Chiriță [1], Ramona Eugenia Popescu [1*], George Coman [2], Maria Râpă [2]
[1]*Biotechnical Systems Engineering Doctoral School, National University of Science and Technology POLITEHNICA Bucharest, 313 Splaiul Independentei, 060042 Bucharest, Romania;*
[2]*Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, 060042 Bucharest, Romania;*

17:20- 17:30 Oral Presentation O.5.

RESEARCH ON OPTIMIZING THE SINTERING MIX BY INTRODUCING BLAST FURNACE DUST AND SLUDGE

Vasilica-Viorica Toniţă[1], Virgil Gabriel Teodor[1,2], **Laurențiu Mardare[1,2,3]**
[1]*Faculty of Engineering, University „Dunarea de Jos" Galati, Domneasca Street 111, 80008 Galati, Romania;*
[2]*Research Center in Manufacturing Engineering Technology (ITCM), „Dunarea de Jos" University of Galati, Domneasca Street 111, 800201, Galati, Romania*
[3]*Amrared Research Consulting S.R.L., 54 Brailei Street, 800090, Romania;*

17:30- 17:40 Oral Presentation O.6.

GREEN SYNTHESIS OF COPPER OXIDE NANOPARTICLES USING PLANT EXTRACTS

Alina-Cornelia Ion[1*], Maria Râpă[2]
[1]*Biotechnical Doctoral School, National University of Science and Technology POLITEHNICA Bucharest, Romania,*
[2]*Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania*

17:40- 17:50 Oral Presentation O.7.

SUSTAINABLE VALORIZATION OF CARBIDE SLUDGE IN ECO-EFFICIENT MASONRY MORTARS AND UNFIRED BLOCKS THROUGH ACCELERATED CARBONATION

Elena Ciutac (Nicolaev)[1], Catalina Iticescu[2,3], Viorica Ghisman[1], Nicoleta Bogatu[1], Daniela-Laura Buruiană[1,*]
[1]*Interdisciplinary Research Centre in the Field of Eco-Nano Technology and Advance Materials CC-ITI, Faculty of Engineering, "Dunarea de Jos" University of Galati, 47 Domneasca Street, 800008 Galati, Romania*
[2]*Faculty of Science and Environment, "Dunarea de Jos" University of Galati, 111 Domneasca Street, 800201 Galati, Romania*
[3]*Rexdan Research Infrastructure, "Dunarea de Jos" University of Galati, 98 G. Cosbuc Street, 800385 Galati, Romania*

17:50- 18:10 Company Presentation - VEGA Holding

18:10 - 19:00 Debates

POSTER SESSION FOR PANEL 6

P.1. MULTIFUNCTIONAL Al–Fe–Cr–Ni–Mn–Cu HEAs FOR AGGRESSIVE OPERATING CONDITIONS

Marian-Nicolae Costea[1,2,*], Mirela Dragan[1], Dumitru Mitrica[1], Cristian Predescu[2]
[1]*National Research and Development Institute of Non-Ferrous and Rare Metals, 178-184 Biruintei Blvd, 077145 Pantelimon, Romania;*
[2]*Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, RO-060042, Bucharest, Romania.*

P.2. INFLUENCE OF CHEMICAL COMPOSITION ON THE MICROSTRUCTURE AND HIGH-TEMPERATURE BEHAVIOR OF TITANIUM ALLOY Ti-6242

Alina Diaconu*[1], *Cristian Predescu[2]*
[1]*ZIROM S.A., Romania*
[2]*National University of Science and Technology POLITEHNICA Bucharest*

P.3. TOWARDS SUSTAINABLE AND DURABLE CONSTRUCTION: CHARACTERIZATION AND OPTIMIZATION OF ANTICORROSION PROTECTION SYSTEMS FOR METAL ROOFING SHEETS

Petre (Dobre) Mihaela-Rodica, Biru Daniela, Coman George, Grecu Andrei, Dobre George Marian, Berbecaru Andrei
[1]*National University of Science and Technology POLITEHNICA Bucharest*

P.4. EVALUATION OF A FREEZE-DRIED ROOT VEGETABLE POWDER BLEND VS. SPENT COFFEE GROUNDS FOR DYE REMOVAL IN WASTEWATER TREATMENT

Loredana Cosma [1,*], Alecsia Stoica [1], Ecaterina Matei [2], Maria Râpă [2], Andreea Anca Șăulean [2], Cristina-Ileana Covaliu[1]
[1] *Biotechnical Systems Engineering Doctoral School, National University of Science and Technology Politehnica Bucharest, 313 Splaiul Independentei, 060042 Bucharest, Romania;*
[2] *Faculty of Materials Science and Engineering, National University of Science and Technology Politehnica Bucharest, 060042 Bucharest, Romania;*

P.5. INTEGRATING LIFE CYCLE ASSESSMENT AND CBAM CONSTRAINTS IN THE SUSTAINABLE MANUFACTURING OF ELECTRIC VEHICLES

Florentina-Andra Tîrșăreanu[1]; *Andra Predescu[2]*
[1]*Doctoral School of Biotechnical Systems Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania*
[2] *Faculty of Material Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania*

P.6. A_2O AND ANOXIC–OXIC PROCESSES FOR MUNICIPAL WASTEWATER TREATMENT: NUTRIENT REMOVAL AND OPERATIONAL CONSTRAINTS

Catrinoiu Alexandra Beatrice[1]

[1]*Doctoral School of Biotechnical Systems Engineering, National University of Science and Technology POLITEHNICA Bucharest, Romania*

P.7. FAILURE ANALYSIS OF METAL ROOFING TILES: A COMPARATIVE STUDY OF ENVIRONMENTAL DEGRADATION AND MANUFACTURING DEFECTS

Valentina Troana[1], *George Marian* Dobre[1], George Coman[1], Andrei-Constantin Berbecaru[1]
[1]*Faculty of Materials Science and Engineering, National University of Science and Technology POLITEHNICA Bucharest, RO-060042, Bucharest, Romania.*

P.8. VALORIZATION OF HEMP WASTE IN THE DEVELOPMENT OF SUSTAINABLE MATERIALS

Raluca Rif[1*], **Ana Virginia Socalici[1]**
1 Politehnica University Timişoara, Faculty of Engineering in Hunedoara, Revoluţiei 5, Hunedoara, Romania

P.9. SUSTAINABLE VALORIZATION OF SIDERITIC WASTE IN THE STEEL INDUSTRY

A. Bobora[1*], **A. Socalici[1]**, E. Ardelean[1], and M. Ardelean[1]
1 Politehnica University of Timişoara, Faculty Engineering of Hunedoara, Revoluţiei no.5, 331128, Hunedoara, Romania


ROMAT
ROMAT
2026