

## ANEXA 11 Comuncări științifice

Nr. Crt.	TITLUL	EVENIMENT	AUTORI
<b>Comuncări invitate</b>			
1.	Spectral and FTIR studies on complexes with the N,N-bis(3,3-dimethyl-allyl)-dithiocarbamate in view of their use as precursors for nanofibers	12th International Congress on Microscopy & Spectroscopy (INTERM), Turcia, Blue Lagoon, Fethiye / Mugla, 12/04/2025	Madalina M. Hrubaru, Augustin M. Mădălan, Emeric Bartha, Constantin Draghici, Cristina Vasiliu, Irinela Chilibon, Eleonora-Mihaela Ungureanu
2.	Characterization of complex layers in cultural heritage using a multivariate and multimodal analytical approach	Lasers in the Conservation of Artworks (LACONA 14), , Romania, Bucuresti, 09/09/2025	M. Dinu
3.	Materials and painting techniques of ancient wall painting fragments from Roman Dacia: current state of research	Lasers in the Conservation of Artworks (LACONA 14), Romania, Bucuresti, 09/09/2025	I.M. Cortea
4.	Bricks, Pigments, and Hidden Layers: Multivariate Insights into Cultural Heritage Stratigraphies	3-day International Conference on Materials Science (3d-ICOMAS), Italia, Verona, 03/12/2025	M. Dinu
5.	Strategies for tuning the hipims deposition process-application for thick DLC coatings on metal substrates	23th International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2025), , Romania, Constanta, 09/07/2025	C. Vitelaru, I. Pana, A. C. Parau, M. Dinu, A. Vladescu (Dragomir), A. E. Kiss, L. R. Constantin, Arcadie Sobetkii, T. Kubart
<b>Comunicari orale</b>			
1.	CrSiCN based hard-coatings used for woodworking applications	The International Symposium - Priorities Of Chemistry For A Sustainable Development” - PRIOCHEM - XX”, Romania, Bucuresti, 17/10/2025	A.C. Parau, M.Dinu, I.Pana, C.Vitelaru, L.R.Constantin, D.M.Vranceanu
2.	Climate effects of aerosols in the Bucharest metropolitan area	Conferinta RSCy2025 "Earth Observation Applications and Services in the Eastern Mediterranean, Middle East, and North Africa (EMMENA): Earth Observation Business Opportunities",, Cipru, Paphos,	M. A. Zoran, D. M. Savastru, M. N. Tautan, D. V. Tenciu, A. L. Stanciu

		17/03/2025	
3.	Functionally Graded Cr-based Multilayers Used for Improvement of Metal-Ceramic Bond Strength in Dental Restorations	Materials Science Meeting 2025- Online Conference, Regatul Unit al Marii Britanii, Bucuresti Online Conference, 27/02/2025	Mihaela Dinu, Anca Constantina Pârâu, Iulian Pană, Lidia Ruxandra Constantin, Alina Vlădescu (Dragomir), Cătălin Vițelaru
4.	Exploring with time-series satellite data Nuclear Power Cernavoda environment	Conferinta RSCy2025 "Earth Observation Applications and Services in the Eastern Mediterranean, Middle East, and North Africa (EMMENA): Earth Observation Business Opportunities";, Cipru, Paphos, 17/03/2025	M. A. Zoran, D. M. Savastru, M. N. Tautan, D. V, Tenciu, A. L. Stanciu
5.	Eficientizarea energetica a sistemelor electro-hidraulice din componenta utilajelor si echipamentelor de constructii, demolare si reciclare	ConstructFEST - "Demolam, recuperam, construim", Romania, Bucuresti, 15/04/2025	Alexandru-Polifron Chirita
6.	Amorphous As <sub>2</sub> S <sub>3</sub> chalcogenide films applications for surface plasmon resonance optical sensors	13th International Conference on Applied Sciences , Romania, Hunedoara, 31/05/2025	Popescu Aurelian, Savastru Dan
7.	Piezoelectric materials for generating renewable electricity	Bucharest University Faculty of Physics 2025 Meeting, Romania, Magurele, 23/05/2025	Irinela Chilibon, Ileana Cristina Vasiliu, Ana Maria Iordache, Stefan Marian Iordache, Bogdan Bită, Ana Maria Florea, Stefan Caramizoiu
8.	P2O5 Effect on Optical Properties of Nano-Structured Graphene Doped Zinc Phosphate Films	Bucharest University Faculty of Physics 2025 Meeting, Romania, Magurele, 23/05/2025	Cristina Ileana Vasiliu, Ana-Maria IORDACHE, Irinela Chilibon, Stefan Caramizoiu, Ana-Maria Florea, Bogdan Bită, Stefan-Marian Iordache
9.	Report on INOE's activities within iPhotoCult project	1st Annual Consortium Meeting of the iPhotoCult Project, Romania, Magurele, 08/09/2025	M Dinu
10.	Conservarea și restaurarea unui vas arheologic de tip askos: aplicarea experimentală a fotogrammetriei și imprimării 3D	Sesiunea Națională de Comunicări Științifice, ediția LIV, Muzeul Viticulturii și Pomiculturii Golești, 24 octombrie, Golești, Romania, Golesti, 24/10/2025	M. Dediu, A. Pătrașcu, V. Cristea, I.I. Zahariade
11.	Redesigning an UAV for	Sesiunea de Comunicări Științifice	A. Pătrașcu

	specific cultural heritage applications in remote areas	Studentesti 2025, Universitatea Națională de Știință și Tehnologie POLITEHNICA București, Romania, Bucuresti, 05/05/2025	
12.	Development of an intelligent drone guidance system based on image processing and adaptive control	Sesiunea de Comunicări Științifice Studentesti 2025, Universitatea Națională de Știință și Tehnologie POLITEHNICA București, Romania, Bucuresti, 05/05/2025	A. Pătrașcu, V. Cristea, B. Badea
13.	Tehnologii digitale aplicate în conservarea patrimoniului arheologic fragmentar	Sesiunea Națională de Comunicări Științifice Ecosinteze si Etnosinteze Carpatine Ediția LV, Romania, Pitesti, 20/11/2025	A. Pătrașcu, M. Dediu, V. Cristea, I.I. Zahariade
14.	Electrochemical Microsensor for the Assessment of Mercury in Ex Vivo Amalgam Samples	AI and Industry 4.0 for a Sustainable World, Romania, Bucuresti, 11/11/2025	Ana-Maria Iordache, Bogdan Bită, Ștefan Caramizoiu, Ana-Maria Florea, Luciana Maria Sutan, Ștefan-Marian Iordache
15.	Low-Cost Environmental Monitoring System: Integration of Commercial and Laboratory-Developed Sensors for Real-Time Air Quality Assessment	AI and Industry 4.0 for a Sustainable World, Romania, Bucuresti, 10/11/2025	Ștefan Caramizoiu, Matei-David-Ștefan Zichisanu, Teodor-Paul Chirita, Ana-Maria Iordache, Ana-Maria Florea, Bogdan Bită, Ștefan-Marian Iordache
16.	Trends in polymers for opto-spintronics - a short review	Bucharest University Faculty of Physics 2025 Meeting, Romania, Magurele, 23/05/2025	Ana-Maria FLOREA (RADUTA), Ana-Maria IORDACHE, Ștefan CARAMIZOIU, Bogdan BITA, Cristina VASILIU, Irinela CHILIBON, Ștefan-Marian IORDACHE
17.	3D printed polymers - A short review	Bucharest University Faculty of Physics 2025 Meeting, Romania, Magurele, 23/05/2025	Ștefan CARAMIZOIU, Valentin BARNA, Bogdan BITA, Ana-Maria IORDACHE, Ana Maria FLOREA, Ștefan-Marian IORDACHE
18.	Electrochemical Characterization of Vintage Writing Inks-First Attempt for Chronological Ordering as a Function of the Double Charged Layer	Bucharest University Faculty of Physics 2025 Meeting, Romania, Chisinau, 23/05/2025	Luciana SUTAN, Bogdan BITA, Ana Maria IORDACHE, Ștefan Marian IORDACHE
19.	Interdigitated electrode (IDE) sensors	Bucharest University Faculty of Physics 2025 Meeting, Romania, Magurele, 23/05/2025	Zichisanu Matei, Bogdan Bită, Ștefan Caramizoiu, Ștefan Iordache

20.	GRASPPac. Aerosol microphysical and optical properties using ceilometer and photometer. 2024.	E-Profile joint ET Meeting, Germania, Munchen, 06/11/2025	Mariana Adam
21.	Preliminary evaluation of cloud enhancement events over the South-West of Bucharest, Romania	GEOSCIRA25, Serbia, Belgrad, 15/09/2025	Emil Carstea Mariana Adam
22.	Bucharest fine-scale mapping and aerosol composition trends using RADO-Bucharest site measurements	European Aerosol Conference 2025, Italia, Lecce, 02/09/2025	J. Vasilescu, C. Talianu, A.V. Dandocsi, D. Nicolae, A. Ilie, L. Belegante, A. Nemuc
23.	Supervised Regression Models for Aerosol Source Identification: A Scalable Approach for European Sites	European Aerosol Conference 2025, Italia, Lecce, 02/09/2025	Andrei Valentin Dandocsi, Jeni Georgeta Vasilescu, Jean Eudes Petit, Mohamed Gherras, Gang Chen, Kaspar Rudolf Dällenbach
24.	Machine Learning Techniques for the Estimation of Aerosol Particle Depolarization Ratio at 355 nm from ACTRIS-EARLINET	European Lidar Conference 2025, Polonia, Varşovia, 10/09/2025	Andrei Valentin Dandocsi, Stefan Marius Nicolae, Ancuta Gabriela Ciocan, Doina Nicoleta Nicolae
25.	Organic Aerosol Classification Using Machine Learning Regression Techniques	The 18th International Conference on the Developments in eSystems Engineering (DeSE2025), Romania, Bucureşti, 10/11/2025	Andrei Valentin Dandocsi, Jeni Georgeta Vasilescu, Stefan Marius Nicolae, Alexandru Marian Ilie, Livio Belegante
26.	Daily variation and spatial gradients of ultrafine particles in Bucharest using mobile monitoring	The 18th International Conference on the Developments in eSystems Engineering (DeSE2025), Romania, Bucharest, 10/11/2025	Alexandru Marius Dandocsi, Andrei Valentin Dandocsi, Alexandru Marian Ilie, Jeni Georgeta Vasilescu
27.	Land-use regression modelling implementation for seasonal pollutants variability maps in Bucharest	THE 3rd INTERNATIONAL CONFERENCE GEOEARTH, Romania, Bucharest, 07/11/2025	Alexandru Marius Dandocsi, Andrei Valentin Dandocsi, Alexandru Marian Ilie, Camelia Talianu, Jeni Georgeta Vasilescu
28.	A correlation study between groundbased lidar systems from the ACTRIS-EARLINET network and L2A data from the ATLID instrument	European Lidar Conference 2025, Polonia, Varşovia, 12/09/2025	Ancuta Gabriela Ciocan, Alexandru Marius Dandocsi, Andrei Valentin Dandocsi, Doina Nicoleta Nicolae, Stefan Marius Nicolae

29.	A layered LSTM architecture for precipitation prediction and regression in urban areas	The 18th International Conference on the Developments in eSystems Engineering (DeSE2025), Romania, Bucuresti, 10/11/2025	Alexandru Marius Dandocsi, Stefan Marius Nicolae, Daniela Faur
30.	Harmonizing the CAMS data with observational in-situ measurements through dynamic downscaling procedures	The 18th International Conference on the Developments in eSystems Engineering (DeSE2025), Romania, Bucuresti, 11/11/2025	Andrei, S., Adam, M., Dandocsi, A.V., Gabrian, Ș., Dinicilă, Ș., Ștefan-Gabrian, R., Dumitru, A., Neacșu, M., Crăciunescu, V., Caian, M.
31.	Spatio-temporal Evolution of Thermal Stress Across Europe and Driving Factors (1940-2023)	Conferința Științifică Națională De Primăvară a Academiei Oamenilor de Știință din România, Romania, Bucuresti, 24/05/2025	Bogdan Antonescu, Luminita Marmureanu, Dragos Ene, Simona Andrei, Raluca Turcu
32.	The use of CAMS products for supporting the atmospheric monitoring and air quality assessment in Romania	Scientific Research and Education in the Air Force AFASES25, Romania, Brasov , 22/05/2025	Simona Andrei, Mariana Adam, Alexandru Dandocsi
33.	Problems encountered with Ka-band Mira cloud radar at Rado Bucharest	ACTRIS Week, CCRES workshop, Portugalia, Evora, 22/09/2025	Anca Viorica Nemuc, Razvan Gabriel Pirloaga, Florica Toanca
34.	Remote Sensing of Clouds: A Multisensor Synergy for Cloud Profiling	18th International Conference on Development in eSystem Engineering (DeSE 2025), Romania, Bucuresti, 12/11/2025	Anca Viorica Nemuc, Razvan Gabriel Pirloaga, Florica Toanca, D. Constantin, C. Negoita, A.Radovici
35.	Towards Accurate Aerosol Characterisation: Integrative Analysis Using Remote and In-situ Techniques	5th European Lidar Conference, Polonia, Varsovia, 12/09/2025	Livio Belegante, Andrei Valentin Dandocsi, Anca Viorica Nemuc, Doina Nicoleta Nicolae, Victor Andrei Nicolae, Razvan Gabriel Pirloaga, Jeni Georgeta Vasilescu
36.	Impacts of Air Pollution and Climate Variability on Urban Vegetation in Bucharest: A Time Series Analysis	5 Annual Meeting, Mediterranean Geosciences Union (MedGU), Grecia, Atena, 12/11/2025	Dan Savastru, M. Zoran, R. Savastru, M. Tautan, D. Tenciu
37.	Monitoring and control of Top Lit Up Draft (TLUD) gasifiers through IoT technologies and cloud-based applications	DeSE 2025 - The 18th International Conference on the Developments in eSystems Engineering, Romania, Bucuresti, 11/11/2025	Marian Blejan, Gabriela Matache, Stefan-Mihai Sefu
38.	Digital twin applications for hydrogen integration in gas turbines: A review of	DeSE 2025 - The 18th International Conference on the Developments in eSystems Engineering, Romania,	Mihaela Bian, Paula Veronica Unguresan, Ionas-Catalin Dumitrescu,

	modelling approaches and system challenges	Bucuresti, 11/11/2025	Radu-Iulian Radoi
39.	In-flow intelligent sensor for monitoring the functionality of hydraulic oils	DeSE 2025 - The 18th International Conference on the Developments in eSystems Engineering, Romania, Bucuresti, 11/11/2025	Adriana-Mariana Bors, Ana-Maria Iordache, Marian Blejan, Liliana Dumitrescu, Alina-Iolanda Popescu
40.	Lidar specific protocols 30 Sept 2025	CARS ARES Webminar, Romania, Magurele, 30/09/2025	Livio Belegante
41.	Lidar QAP: theory behind the QA tests. Part 2: Zero bin, trigger delay and dark measurement	CARS ARES Webminar, Romania, Magurele, 10/06/2025	Livio Belegante
42.	Observatorul Atmosferic INOE - Oportunitati pentru Studenti	Oportunitati pentru Studenti - Facultatea de Fizica, Romania, Magurele, 10/04/2025	Toanca Florica
43.	Project Management	Izana Summer School - HARMONIA COST ACTION, Romania, Magurele, 28/05/2025	Toanca Florica
44.	Simultaneous elemental analysis methods for environmental and food control using passive sampling and miniaturized instrumentation based on microplasma optical emission spectrometry	Conferinta Smart Diaspora 2025, Romania, Cluj-Napoca, 06/11/2025	M. Senila
45.	Innovative analytical approaches for detecting food adulteration and ensuring authenticity	International Conference Biotechnologies, Present and Perspectives , Romania, Suceava, 17/10/2025	Anca Becze
46.	Design and optimization of doxycycline-loaded natural zeolite-alginate hybrid microparticles	IX-International Antalya Scientific Research and Innovative Studies Congress, Turcia, Antalya, 21/11/2025	S. Sahin, I. Topraczi, O. Cadar
47.	Encapsulation of amoxicillin into thermally treated clinoptilolite-based zeolite-alginate microparticles with ionic gelation	IX-International Antalya Scientific Research and Innovative Studies Congress, Turcia, Antalya, 21/11/2025	S. Sahin, E. Kurtulbas, O. Cadar
48.	Innovative pre-feasibility studies towards the sustainable production of rare earth concentrates for self-supply in Europe	XVI International Mineral Processing and Recycling Conference, Serbia, Belgrad, 29/05/2025	M. C. Vila, M. L. Dinis, L. Ferrando-Climent, N. Gajendra, D. Avsar, D. Yilmaz, E. Levei, I. Török
49.	Detection of walnut and	The 1 st International Online	Anca Becze, Vanda

	pumpkin oil adulteration using tocopherol profiling and predictive modeling	Conference on Separations , Romania, online , 15/10/2025	Băbălău Fuss
50.	Bune practici in transferul de cunostinte si tehnologii dezvoltate de ICIA Cluj-Napoca catre mediul de afaceri romanesc	Festival regional de transfer tehnologic GreenFesTT-SE , Romania, Tulcea, 16/10/2025	A.M. Ivan
51.	Characteristics of the smoke aerosol layers as observed by the EARLINET lidar stations in 2015-2023	European Lidar Conference 2025, Polonia, Varsovia, 10/09/2025	D.N. Nicolae, J. Vasilescu, C. Talianu, V. Nicolae, G. Ciocan, L. Belegante, F. Toanca, A. Dandocsi
52.	Annual evaluation of the facilities and plans for 2026	CARS workshop, Portugalia, Evora, 22/10/2025	Doina Nicolae
53.	ARS new protocols and repositories	CARS workshop, Portugalia, Evora, 22/10/2025	Doina Nicolae
54.	Multi-disciplinary research at the National Institute of Research and Development for Optoelectronics: the road to excellence and sustainability	Lacona XIV, Romania, Bucuresti, 09/09/2025	Doina Nicolae, Roxana Radvan, Catalin Vitelaru
55.	A New Lidar Receiver Telescope for Near-Range Detection in the Framework of ACTRIS	18th International Conference on Development in eSystem Engineering (DeSE), Bucuresti, Romania, 11/10/2025	Livio Belegante
56.	Lidar QAP: theory behind the QA tests. Part 1: Telecover and Rayleigh fit	Webinar CARS 20.05.2025: Lidar QAP, Magurele, Romania, 20/05/2025	Livio Belegante
57.	CARS Training Workshop 25-28 March 2025	CARS workshop, Magurele, Romania, 25/03/2025	Livio Belegante, Ancuta Gabriela Ciocan, Doina Nicoleta Nicolae, Victor Andrei Nicolae
58.	Lidar QA: Dark Measurement Test	ITINERIS: Atmospheric Remote Sensing observation: labs maintenance and methods, Potenza, Italia, 14/07/2025	Livio Belegante
59.	Lidar QA: Zero Bin Test	ITINERIS: Atmospheric Remote Sensing observation: labs maintenance and methods, Potenza, Italia, 14/07/2025	Livio Belegante
<b>Comuncări poster</b>			
1.	Use of DIVA platform for Cal/Val procedures and best practices for EarthCARE aerosol and cloud products	2nd ESA-JAXA EarthCARE In-Orbit Validation Workshop, Italia, Frascati, 18/03/2025	A. Dandocsi, M. Herreras - Giralda, B. Torres, A. Kreuter, L. Belegante, D. Fuertes, M. Lanzinger, A. Lehner, V. Lanzinger, D.

			Nicolae, O. Dubovik, A. Dehn, P. Castracane, S. Casadio
2.	The relevance of a GAW regional station for correlative lidar measurements supporting ATLID product validation	2nd ESA-JAXA EarthCARE In-Orbit Validation Workshop, Italia, Frascati, 18/03/2025	Livio Belegante, Ancuta Gabriela Ciocan, Doina Nicoleta Nicolae, Razvan Gabriel Pirloaga, Cristian Marian Radu
3.	Near field telescope for optimisation of sounding distance of lidar systems	THE IXth INTERNATIONAL FAIR OF INNOVATION AND CREATIVE EDUCATION FOR YOUTH (ICE-USV), Romania, Suceava, 23/05/2025	Belegante L.; Vasilescu J.; Nicolae D.; Nemuc A.; Dandocsi A.
4.	Laser emission stabilization technique for detection by high spectral resolution lidar	THE IXth INTERNATIONAL FAIR OF INNOVATION AND CREATIVE EDUCATION FOR YOUTH (ICE-USV), Romania, Suceava, 23/05/2025	Belegante L.; Vasilescu J.; Nicolae D.; Nemuc A.; Dandocsi A.; Ţilea A.; Radu C
5.	Variable geometry Savonius rotor	INVENTICA 2025 – The 29th International Exhibition of Inventions, Romania, Iasi, 26/06/2025	Alexandru-Polifron Chirita, Ionas Catalin Dumitrescu, Radu-Iulian Radoi, Ana-Maria Carla Popescu
6.	Shredded biomass dryer	INVENTICA 2025 – The 29th International Exhibition of Inventions, Romania, Iasi, 26/06/2025	Ioan Pavel, Gabriela Matache, Alexandru Polifron Chirita, Kati Pavel
7.	Method and system for diagnosing functional hydraulic drive installations by using infrared thermography	INVENTICA 2025 – The 29th International Exhibition of Inventions, Romania, Iasi, 26/06/2025	Teodor Costinel Popescu, Alexandru Daniel Marinescu, Alina Iolanda Popescu
8.	Hybrid solar system with overload protection	INVENTICA 2025 – The 29th International Exhibition of Inventions, Romania, Iasi, 26/06/2025	Ioan Pavel, Radu-Iulian Radoi, Gheorghe Sovaiala, Kati Pavel
9.	Four-terminal solar cell with heterojunction structure based on non-toxic metal oxides	The IXth International Fair of Innovation and Creative Education for Youth (ICE-USV), Suceava, Romania, May 23 – 25, 2025, Romania, Suceava, 24/05/2025	Chilibon Irinela, Vasiliu Ileana Cristina, Savastru Dan, Ørnulf Nordseth, Sean Erik Foss, Eduard Monakhov, Raj Kumar, Fara Laurențiu, Mitroi Mihai Răzvan, Ninulescu Valerica, Silvian Fara and Craciunescu Dan
10.	Four-terminal solar cell with heterojunction structure based on non-toxic metal oxides	International Salon of Invention and Innovative Entrepreneurship, June 6-7, 2025, Chisinau, Republic of Moldova, Moldova, Chisinau, 07/06/2025	Chilibon Irinela, Vasiliu Ileana Cristina, Savastru Dan, Ørnulf Nordseth, Sean Erik Foss, Eduard Monakhov, Raj Kumar,

			Fara Laurențiu, Mitroi Mihai Răzvan, Ninulescu Valerica, Silvian Fara, Craciunescu Dan
11.	Seasonal variability of fluorescence dissolved organic matter in peri- urban rivers	The 9th International Electronic Conference on Water Sciences (ECWS-9), Elvetia, Elvetia, 11/11/2025	Elfrida M. Carstea, Simona I. Dontu, Cristina L. Popa, D. Tenciu
12.	Temporal and spatial evaluation of pollutants in urban runoff	The 9th International Electronic Conference on Water Sciences (ECWS-9), Elvetia, Elvetia, 11/11/2025	Simona I. Dontu, Cristina L. Popa, Elfrida M. Carstea, M. Tautan
13.	Evaluation of microplastics abundance in a peri-urban river	The 9th International Electronic Conference on Water Sciences (ECWS-9), Elvetia, Elvetia, 11/11/2025	Cristina L. Popa, Simona I. Dontu, Maria Rapa, Elfrida Carstea
14.	Ecological impact of reducing sugars extraction technology from microalgae: Assessing resource scarcity	Agriculture and Food - current and future challenges, AGRIFA, Romania, online, 24/10/2025	E. Kovacs, M.A. Resz, E. Neag, L. Senila, C. Roman
15.	From algae to fuel: Transesterification methods for microalgal biodiesel production	Agriculture and Food - current and future challenges, AGRIFA, Romania, online, 24/10/2025	E. Kovacs, L. Senila, C. Roman
16.	The artMAP LIF system: a custom in-house laser- induced fluorescence scanning device for the study of cultural heritage surfaces	Lasers in the Conservation of Artworks (LACONA 14), Romania, Bucuresti, 09/09/2025	I.M. Cortea, L. Ghervase, L. Angheluță, T. Savu
17.	Building FAIR data services: recent developments of the INFRA-ART Spectral Library	Lasers in the Conservation of Artworks (LACONA 14), Romania, Bucuresti, 09/09/2025	I.M. Cortea
18.	Revealing the original iconostasis of St. George wooden church from Ionești (Arad county- Romania). A non-invasive study based on complementary spectroscopic techniques	Lasers in the Conservation of Artworks (LACONA 14), Romania, Bucuresti, 09/09/2025	L.C. Ratoiu, M. Dinu, L. Ghervase, I.M. Cortea, A. Ignuța
19.	The use of optoelectronic techniques for the investigation of medieval weapons	Lasers in the Conservation of Artworks (LACONA 14), Romania, Bucuresti, 09/09/2025	L. Ghervase, M. Dinu, S. Oța, L.M. Angheluță, I.M. Cortea

20.	Documentation of easel paintings – case study of two 19th-century paintings by unknown author	Lasers in the Conservation of Artworks (LACONA 14), Romania, Bucuresti, 09/09/2025	L. Ghervase, A. Rauca, L. Ratoiu, I.M. Cortea, V. Drăguț
21.	Characterization of historical façades with multimodal imaging techniques	Lasers in the Conservation of Artworks (LACONA 14), Romania, Bucuresti, 09/09/2025	A.M. Pătrașcu, L.M. Angheluță, L.C. Ratoiu
22.	From FAIR Data to Educational Impact: A Digital Resource Advancing Heritage Science Research and Learning	The 12th ACM Celebration of Women in Computing (womENCourage 2025) - Computer Science: A Catalyst for Educational Change, Romania, Brasov, 17/09/2025	I.M. Cortea
23.	Metadata That Matters: An RDA-Inspired Approach to FAIR Datasets	Research Data Alliance 25th Plenary within the International Data Week (IDW2025), Australia, Brisbane, 13/10/2025	I.M. Cortea, L. Angheluță, A. Chiroșca
24.	Advancing Semantic Interoperability in Heritage Science: The FAIRMap4ART Project and the INFRA-ART Spectral Library	RDA in Europe Annual Summit - Weaving the RDA Tapestry: From Community Insights to Collective Action, Franta, Paris, 18/11/2025	Ioana Cortea
25.	Aplicarea experimentală a fotogrammetriei și imprimării 3D în conservarea unui vas arheologic	Expoziția națională de postere științifice "Conservare-Restaurare-Investigații", 50 de ani de restaurare științifică, Romania, Bucuresti, 04/09/2025	M. Dediu, A. Pătrașcu, V. Cristea, I.I. Zahariade
26.	ISIIE - brevet Procedeu de indepartare a consolidantilor si a depunerilor organice de pe suprafata picturilor murale folosind esteraze bacteriene imobilizate in gel pe baza de polizaharide	International Salon of Invention and Innovative Entrepreneurship, Moldova, Chisinau, 06/06/2025	I.Gomoiu, R. Ruginescu, S. Neagu, R. Cojoc, M. Enache, L. Ghervase, R. Radvan
27.	ISIIE - Echipament hibrid pentru caracterizarea stratigrafica la nivel elemental si molecular a obiectelor de patrimoniu	International Salon of Invention and Innovative Entrepreneurship, Moldova, Chisinau, 06/06/2025	M. Dinu, I.M. Cortea, L. Ghervase, R. Radvan
28.	ISIIE - Intelligent Advanced Photonics Tools for Remote and/or on-site Monitoring of Cultural Heritage Monuments and Artefacts – iPhotoCULT	International Salon of Invention and Innovative Entrepreneurship, Moldova, Chisinau, 06/06/2025	M. Dinu, R. Radvan, M. Stancu
29.	ICE-USV - Procedeu de	The IXth International Fair of	I.Gomoiu, R. Ruginescu, S.

	indepartare a consolidantilor si a depunerilor organice de pe suprafata picturilor murale folosind esteraze bacteriene imobilizate in gel pe baza de polizaharide	Innovation and Creative Education for Youth , Romania, Suceava, 23/05/2025	Neagu, R. Cojoc, M. Enache, L. Ghervase, R. Radvan
30.	ICE-USV - Echipament hibrid pentru caracterizarea stratigrafica la nivel elemental si molecular a obiectelor de patrimoniu	The IXth International Fair of Innovation and Creative Education for Youth , Romania, Suceava, 25/05/2025	M. Dinu, I.M. Cortea, L. Ghervase , R. Radvan
31.	ICE-USV - Intelligent Advanced Photonics Tools for Remote and/or on-site Monitoring of Cultural Heritage Monuments and Artefacts – iPhotoCULT	The IXth International Fair of Innovation and Creative Education for Youth , Romania, Suceava, 23/05/2025	M. Dinu, R. Radvan, M. Stancu
32.	Advancing Thin Film Morphology Control: A Novel Solvent Vapor Annealing Approach for P4T4F-HD:Y12 Blend Films	8th International Conference “Emerging Technologies in Materials Engineering, EmergeMAT 2025 , Romania, online, 07/10/2025	O. Todor-Boer, T. Blaga, I. Botiz, C. Roman
33.	Evaluation of soil mineralization efficiency using microwave-assisted aqua regia and four-acid mixture	Agriculture and Food - current and future challenges, AGRIFA, Romania, online, 24/10/2025	S. B. Angyus, M. Senila, A. I. Torok, E. A. Levei, C. Tanaselia, O. Cadar
34.	Effects of minimal tillage with cover crops on soil quality and yield of tomato and pepper crops	Agriculture and Food - current and future challenges, AGRIFA, Romania, online, 24/10/2025	L.Dordai, M. Roman
35.	Assessment of potentially toxic elements in agricultural and forest soils: role of land use and human impact	Agriculture and Food - current and future challenges, AGRIFA, Romania, online, 24/10/2025	A. Moldovan, I.-C. Mirea, A. I. Torok, M. L. Tirla, E. A. Levei, O. T. Moldovan
36.	Natural soil amendments – Impact on the uptake of toxic elements in arugula (Eruca sativa) and lettuce (Lactuca sativa)	Agriculture and Food - current and future challenges, AGRIFA, Romania, online, 24/10/2025	O. Cadar, E. Kovacs, M. Senila, C. Tanaselia, A. I. Torok, M. Roman, V. Fierro
37.	Metal content in Prunus spinosa fruits collected from different locations in Cluj County, Romania	Agriculture and Food - current and future challenges, AGRIFA, Romania, online, 24/10/2025	V. Babalau-Fuss, A. Becze, M. Roman, B. Socaciu
38.	Raman spectroscopy for	Agriculture and Food - current and	L. Senila, A. Becze, D.

	detecting olive oil adulteration	future challenges, AGRIFA, Romania, online, 24/10/2025	Simedru, E. M. Kovacs, D. Sevim, A. Mumcu, M. Hakan, M. Kerem
39.	Moss bags as bioindicators of urban air pollution	Agriculture and Food - current and future challenges, AGRIFA, Romania, online, 24/10/2025	L. Levei, O. Todor-Boer, E. Kovacs, M. Roman, L. Dordai, I. Torok, C. Tanaselia
40.	Analytical characterization and evaluation of extractive waste	Agriculture and Food - current and future challenges, AGRIFA, Romania, online, 24/10/2025	E. A. Levei, E. Kovacs, C. Tanaselia, A. Moldovan, B. S. Angyus, M. de Lurdes Dinis, R. Sousa, M. Petranikova, I. Mahti, J. Kulczycka, N. Generowicz-Caba, M. Manka, D. Kasperek, D.-A. Scurtu
41.	Rotor Savonius cu geometrie variabila /Variable geometry Savonius rotor	innoCENTA-International Exhibition of Innovation and Technological Transfer 2025, Romania, Timisoara, 06/11/2025	Alexandru-Polifron Chirita, Ionas Catalin Dumitrescu, Radu-Iulian Radoi, Ana-Maria Carla Popescu
42.	Optimization of Cu-SiC <sub>x</sub> N <sub>y</sub> multilayer structures for enhanced low emissivity performance	21st International Conference on Plasma Physics and Applications, Romania, Bucuresti, 03/09/2025	I. Pana, A.C. Parau, M. Dinu, L.R. Constantin, A.E. Kiss, C. Vitelaru
43.	Investigation of NiCrC <sub>x</sub> nanostructured coatings obtained by Thermionic vacuum arc, for industrial applications	21st International Conference on Plasma Physics and Applications, Romania, Bucuresti, 04/09/2025	C. Vitelaru, M. Dinu, A.C. Parau, I. Pana, L. R. Constantin, C. Porosnicu, A. Anghel, C. P. Lungu, A. Sobetkii, V. Capatina
44.	Substrate bias effects on the structural and electrical properties of epitaxial VN/MgO(001) thin films	8th International Conference On Emerging Technologies In Materials Engineering, 06-07 October 2025, Romania, Bucuresti, 07/10/2025	N. C. Zoita, A. E. Kiss, A. C. Parau
45.	Synthesis method of composite powder materials with a (CoCrNiVCu) high-entropy alloy -HEA matrix reinforced with carbide ceramic particles for plasma spraying and the resulting powders- A00052/15.02.2024	The IXth International Fair of Innovation and Creative Education for Youth (ICE-USV), Romania, SUCEAVA, 23/05/2025	N.C. Zoita. C.E.A. Grigorescu. M. Dinu. A.M. Iordache. A.C. Parau. A.E. Kiss. L.R. Constantin
46.	Synthesis method of composite powder materials with a (CoCrNiVCu) high-entropy alloy -HEA matrix reinforced with carbide	International Salon of Invention and Innovative Entrepreneurship, Chisinau, Moldova, CHISINAU, 23/05/2025	N.C. Zoita. C.E.A. Grigorescu. M. Dinu. A.M. Iordache. A.C. Parau. A.E. Kiss. L.R. Constantin

	ceramic particles for plasma spraying and the resulting powders.		
47.	Cerere de brevet: A00052/15.02.2024- Synthesis method of composite powder materials with a (CoCrNiVCu) high-entropy alloy -HEA matrix reinforced with carbide ceramic particles for plasma spraying and the resulting powders	"TRAIAN VUIA" International Exhibition Of Inventions And Innovations Timisoara, Romania, Timisoara, 03/10/2025	N.C. Zoita. C.E.A. Grigorescu. M. Dinu. A.M. Iordache. A.C. Parau. A.E. Kiss. L.R. Constantin.
48.	Multilayer structures based on thin layers copper and silicon carbides, nitrides, and carbonitrides, with high transparency and heat-reflecting properties	International Exhibition of Inventions and Innovative Entrepreneurship, Chisinau, Moldova, CHISINAU, 23/05/2025	Catalin Vitelar, Iulian Pana, Anca Constantina Parau, Mihaela Dinu, Alina Dragomir, Emil Adrian Kiss, Lidia Ruxandra Constantin
49.	Compositional gradient structures for protective coatings of cutting tools used in the woodworking industry	International Exhibition of Inventions and Innovative Entrepreneurship, Chisinau, Moldova, CHISINAU, 23/05/2025	Alina Dragomir, Catalin Vitelar, Mihaela Dinu, Iulian Pana, Anca C. Parau, Lidia R.Constantin, Diana M.Vranceanu
50.	Compositional gradient structures for protective coatings of cutting tools used in the woodworking industry- A/00646/30.10.2024	The IXth International Fair of Innovation and Creative Education for Youth (ICE-USV) SUCEAVA, ROMANIA, Romania, SUCEAVA, 23/05/2025	Alina Dragomir, Catalin Vitelar, Mihaela Dinu, Iulian Pana, Anca C. Parau, Lidia R.Constantin, Diana M.Vranceanu
51.	Multilayer structures based on thin layers copper and silicon carbides, nitrides, and carbonitrides, with high transparency and heat-reflecting properties- A00477/14.08.2024	The IXth International Fair of Innovation and Creative Education for Youth (ICE-USV) SUCEAVA, ROMANIA, Romania, SUCEAVA, 23/05/2025	Catalin Vitelar, Iulian Pana, Anca Constantina Parau, Mihaela Dinu, Alina Dragomir, Emil Adrian Kiss, Lidia Ruxandra Constantin
52.	Cerere de brevet A/00646/30.10.2024- Compositional gradient structures for protective coatings of cutting tools used in the woodworking industry	"TRAIAN VUIA" International Exhibition Of Inventions And Innovations Timisoara, Romania, Timisoara, 02/10/2025	Alina Dragomir, Catalin Vitelar, Mihaela Dinu, Iulian Pana, Anca C. Parau, Lidia R.Constantin, Diana M.Vranceanu
53.	Technologies for the deposition of thin carbon-based protective layers on complex parts that include	TRAIAN VUIA" International Exhibition Of Inventions And Innovations Timisoara, Romania, Timisoara, 03/10/2025	Catalin Vitelar, Alina Vladescu, Catalin Dumitrescu Arcadie Sobetkii, Alaa Abou Harb,

	cavity geometries for hydraulic pumps		Mohammed Alqasim Alsabti, Alexandru Anghel, Cornel Staicu, Corneliu-Constantin Porosnicu
54.	Compositional gradient structures for protective coatings of cutting tools used in the woodworking industry- A/00646/30.10.2024	E U R O I N V E N T 17th European Exhibition of Creativity and Innovation Iasi, Romania, Romania, Iasi, 08/05/2025	Alina Dragomir, Catalin Vitelaru, Mihaela Dinu, Iulian Pana, Anca C. Parau, Lidia R.Constantin, Diana M.Vranceanu
55.	Electro-hydraulic unit with mixed control	The 14th International Symposium on Advanced Topics in Electrical Engineering, Romania, Bucuresti, 10/10/2025	Robert Blejan, Marian Blejan, Carmen-Anca Safta
56.	E-Tongue like sensor for food safety (FOODESENSE) – PD87/2020	International Exhibition of Inventions and Innovative Entrepreneurship, June 6-7, 2025, Chisinau, Republic of Moldova, Moldova, Chisinau, 06/06/2025	A.M. Iordache, V. Barna, Ș. Caramizoiu, A. M. Raduta, B.I. Bită, S. M. Iordache
57.	Ultrasensitive gas sensor array for greenhouse environment assessment (GreHSen) – PED393/02.11.2020	International Exhibition of Inventions and Innovative Entrepreneurship, June 6-7, 2025, Chisinau, Republic of Moldova, Moldova, Chisinau, 06/06/2025	S.-M. Iordache, A.-M. Iordache, V. Barna, S. Caramizoiu, A.-M. Raduta, B. I. Bită,
58.	Retrieval of the aerosol optical and microphysical properties derived from GRASPPac	ELC 2025, Polonia, Varsovia, 12/09/2025	Mariana Adam, Jeni Georgeta Vasilescu
59.	Remote sensing monitoring of the climate change and anthropogenic impacts on periurban forest phenology	5 Annual Meeting, Mediterranean Geosciences Union (MedGU), Grecia, Atena, 12/11/2025	Dan Savastru, M. Zoran, R. Radvan, M. Tautan, D. Tenciu, Al. Stanciu
60.	Urban Built Environment Impact on Summer Extreme Heat across two Romanian cities	5 Annual Meeting, Mediterranean Geosciences Union (MedGU), Grecia, Atena, 12/11/2025	M. Zoran, R. Radvan, Dan Savastru, M. Tautan, D. Tenciu, Al. Stanciu
61.	Spatiotemporal changes of Bucharest urban green analysis through time-series satellite data	Conferinta RSCy2025 "Earth Observation Applications and Services in the Eastern Mediterranean, Middle East, and North Africa (EMMENA): Earth Observation Business Opportunities", Cipru, Paphos, 17/03/2025	Dan Savastru, M. Zoran
62.	Assessment of climate change impacts on Carpathian Mountains	Conferinta RSCy2025 "Earth Observation Applications and Services in the Eastern	273. M. Zoran, Dan Savastru, M. Tautan, D. Tenciu, A. Stanciu

	Forest vegetation through time-series satellite imagery	Mediterranean, Middle East, and North Africa (EMMENA): Earth Observation Business Opportunities", Cipru, Paphos, 17/03/2025	
63.	Quality Assurance of the Ground-based Aerosol High Power Lidar Measurements in the framework of the ATMO-ACCESS pilot for EarthCARE	2nd ESA-JAXA EarthCARE In-Orbit Validation Workshop, Italia, Frascati, 17/03/2025	Livio Belegante, Ancuta Gabriela Ciocan, Alexandru Marius Dandocsi, Doina Nicoleta Nicolae, Victor Andrei Nicolae
64.	Design and Implementation of a Near-Field Telescope for ACTRIS Lidar Systems Compliant with NF Performance Criteria	European Lidar Conference 2025 , Polonia, Varsovia, 10/09/2025	Livio Belegante, Ancuta Gabriela Ciocan, Doina Nicoleta Nicolae, Cristian Marian Radu
65.	INVESTIGATION OF LOW-VISIBILITY ATMOSPHERIC EVENTS AT RADO- BUCHAREST, AN ACTRIS FACILITY	International Conference on Nucleation and Atmospheric Aerosols, Austria, Viena, 24/08/2025	Toanca Florica
66.	Extractive waste valorization and integration into construction materials	EUIndTech2025, Polonia, Krakow, 03/06/2025	E.A. Levei, M. de Lurdes Dinis, C. Vila, A. Futuro, R. Sousa, M. Paz Saez-Perez, J.A. Duran-Suarez, A.H. Tkaczyk, C.O. Kilcan, J. Torop, M. Petranikova, I. Mathi, E. Gulcan, S. Oprea, J.Kulczycka
67.	The potential of extractive waste in a circular economy framework	EUIndTech2025, Polonia, Krakow, 03/06/2025	E. Kovacs, M. de Lurdes Dinis, C. Vila, A. Futuro, R. Sousa, M. P. Saez-Perez, J. A. Duran-Suarez, A. H. Tkaczyk, C. O. Kilcan, J. Torop, M. Petranikova, I. Mathi, E. Gulcan, S. Oprea, J. Kulczycka, E. A. Levei
68.	Potential of wood-based activated carbon to mitigate toxic elements uptake in spinach for safe consumption	The 2nd International Online Conference on Toxics, Romania, online, 10/09/2025	O. Cadar, E. Kovacs, E. Levei, A.I. Torok, J. Castro Gutierrez, V. Fierro
69.	Acid versus alkaline modification of clinoptilolite-rich natural zeolites: A comparative aAcid versus alkaline	8th International conference on emerging technologies in materials engineering, EMERGEMAT, Romania, Ilfov, 07/10/2025	D. Scurtu, D. Simedru, S. Sahin, O. Cadar

	modification of clinoptilolite-rich natural zeolites: A comparative approach		
70.	Determination of Pb in table salt using diffusive gradients in thin-film technique for passive sampling prior GFAAS analysis	8th international conference on emerging technologies in materials engineering, EMERGEMAT, Romania, Ilfov, 07/10/2025	M. Senila, B.S. Angyus
71.	Polymer Inclusion Membrane for Passive Sampling of Zn(II) in water	The 2nd International Online Conference on Toxics, Romania, online, 10/09/2025	M. Senila, L. Senila, E. Kovacs
72.	Passive sampling for Cd determination in wastewaters using a new polymer inclusion membrane	15th International Conference PROCESSES IN ISOTOPES AND MOLECULES, PIM 2025, Romania, Cluj-Napoca, 17/09/2025	M. Senila, B.S. Angyus, L. Senila, E. Kovacs
73.	Wood-based activated carbon as a soil amendment to mitigate cadmium and chromium toxicity	V Workshop on Adsorption, Catalysis and Porous Materials, V-WACPM, Columbia, Bogota, 21/11/2025	J. Castro-Gutierrez, E. Kovacs, P. Gadonneix, A. Celzard, O. Cadar, V. Fierro
74.	Effects of nitrogen fertilization and irrigation regimes on biodiesel quality and emission performance of winter rapeseed	The 3rd International Online Conference on Agriculture, IOCAG, Romania, online, 23/10/2025	L.Dordai, M.Roman, A.Becze
75.	Development of pla-based membrane materials from lignocellulosic biomass for efficient separation processes	1st International Online Conference on Separations, Romania, online, 15/11/2025	L. Senila
76.	Responsible supply of REEs through environmental impact minimization: towards zero waste European mineral extraction	EUIndTech2025, Romania, Krakow, 03/06/2025	A. I. Torok, E. A. Levei, N. Gajendra, D. Yilmaz, M. C. Vila, M. L. Dinis, D. Avsar, A. Preveniou, A.M. Hansen, S. Bjørn Aaen, A. Mishra, P. Perumal, L. Ferrando-Climent
77.	Zeolites in Mining Wastewater Treatment: Adsorption of Toxic Elements	8th international conference on emerging technologies in materials engineering, EMERGEMAT, Romania, Ilfov, 07/10/2025	B. S. Angyus, A. I. Torok, E. A. Levei, C. Tanaselia, N. Gajendra, D. Avsar, M. C. Vila, M. L. Dinis, A. Mishra, P. Perumal, D. Yilmaz, L. Ferrando-Climent

78.	Extractive waste: a potential source of critical elements and construction materials	8th international conference on emerging technologies in materials engineering, EMERGEMAT, Romania, Ilfov, 07/10/2025	E. A. Levei, E. Kovacs, M. L. Dinis, C. Vila, A. Futuro, R. Sousa, M. P. Sáez-Pérez, J. A. Duran-Suarez, A. H. Tkaczyk, C. Özcan Kilcan, M. Petranikova, I. Mahti, E. Gülcan, S. Oprea, J. Kulczycka, D. Scurtu
79.	Moss bags as a biomonitoring tool for potentially toxic elements in urban agglomeration	XVI. Environmental Analytical and Technological Conference, KAT, Ungaria, Balatonszarszo, 07/10/2025	E. A. Levei, E. Kovacs, I.A. Torok, O. Todor-Boer, A. Moldovan, B.S. Angyus, L. Levei, F. Lenartz, M. Dury
80.	Bioconcentration potential of valuable elements from untreated mining wastewater using <i>Salvinia natans</i>	XVI. Environmental Analytical and Technological Conference, KAT, Ungaria, Balatonszarszo, 07/10/2025	A.I. Török, N. Gajendra, B. Angyus, R. Grønvold, D. Avsar, M.K. Pelkonen, M.L. Dinis, M.C. Vila, D. Yilmaz, C. Tanaselia, L. Ferrando-Climent, E.A. Levei
81.	Beta-Carotene and ascorbic acid Equivalent in Different Sweet Potato Varieties	Agriculture and Food - current and future challenges, AGRIFA, Romania, online , 24/10/2025	Oana Bogdana Greblă, Vanda Băbălușu
82.	Determination of heavy metals in <i>Sambucus nigra</i> and ground	Agriculture and Food - current and future challenges, AGRIFA, Romania, online , 24/10/2025	Imola –Noemi Nagy, Vanda Băbălușu
83.	Optimisation of protein extraction from coffee waste	7th International Conference on Food Science & Technology: Innovation and Sustainability challenges , Grecia, Atena, 08/11/2025	Anca Becze, Dorina Simedru, Socaciu Bianca
84.	Brokerage Events for Technology Transfer and Partner Identification in the AgriFood sector	Forum Tehnologic Oltenia Techfest , Romania, Targu Jiu, 06/11/2025	A.M. Ivan, C.M. Balgaradean, M.A. Cotiu
85.	Processing and valorization of natural zeolites for application as clarifying agents in brewing	Forum Tehnologic Oltenia Techfest , Romania, Targu Jiu, 06/11/2025	O. Cadar, M. Senila, I. Wagner, I Miu
86.	Spatial and temporal changes of major elements in surface water in Aries river catchment, Western Romania	The 9th International Electronic Conference on Water Sciences, Romania, online, 11/11/2025	A. Moldovan, M.A. Resz, M. Roman, C. Roman, V. Micle
87.	EU IP Mechanism for Agri-Food Sector	Agriculture and Food - current and future challenges, AGRIFA, Romania, online, 24/10/2025	M.A. Cotiu, C.M. Balgaradean, A.M. Ivan

88.	Predicting soil carbon dynamics through stoichiometric microbial metabolic network modelling	The International Society for Ecological Modelling Global Conference Kashiwanoha, Romania, online, 21/10/2025	M.H. Kovacs, E.D. Kovacs
89.	Spatial pattern prediction of soil microbiome based on microbial membranes modulation under present and future environmental conditions	The International Society for Ecological Modelling Global, Romania, online, 20/10/2025	E.D. Kovacs, M.H. Kovacs
90.	Structural and thermo-functional characterization of acorn starch from <i>Quercus rubra</i> and <i>Quercus robur</i>	The 24th International Conference Life Sciences for Sustainable Development, Romania, online, 26/09/2025	E. Radu, M. Aluas, T. Tamas, D. Simedru, M. Faieta, G. Dalessio, P. Pittia, C. Sutea, V. Muresan, T. Coldea, E. Mudura
91.	Impact of sourdough fermented with <i>Leuconostoc citreum</i> dsm5577 on the structural, physical and sensory quality of sugar- reduced muffins	The 24th International Conference Life Sciences for Sustainable Development, Romania, online, 26/09/2025	M.-F. Rosca, S. M. Man, M. S. Chis, C. R. Pop, A. Puscas, L. Stan, F. Ranga, D. Simedru, V. Muresan, A. Paucean