



Alexandru Ioan Cuza University of IAȘI  
Faculty of Geography and Geology



**XVIII-th edition**

**International Conference**

# **Present Environment and Sustainable Development**

*Commemorative edition*

*Prof. em. Liviu APOSTOL PhD, UAIC*

**9-10 June, Iași**

**Envirogis Association**

**Alexandru Ioan Cuza University of IAȘI**

**Faculty of Geography and Geology**

**Department of Geography**



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University "Alexandru Ioan Cuza" Iași



Faculty of Geography and Geology  
Department of Geography  
Environmental Geography Group



Envirogis NGO

## Partners



National Environmental Guard - Iași Branch



State University of Moldova, Republic of Moldova



The Institute of Ecology and Geography of the Academy of  
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Environment Protection Agency, Iași



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Romsilva - Regia Națională a Pădurilor



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Prof. univ. **Mihail LUCA** PhD, "Gheorghe Asachi" Technical University of Iasi, Romania

Assoc. prof. **Petru BACAL** PhD, Institute of Ecology and Geography, Ministry of Education and Research, Chișinău, Republic of Moldova



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## Programme

### Friday – 9 June 2023

#### 8: 00 – 9: 20 - Participants registration

Alexandru Ioan Cuza University of Iași, B wing, 3rd floor at Faculty of Geography and Geology, Geography Department

#### 9: 30 – 10:25 – Official opening:

Prof. univ. **Corneliu IAȚU** PhD, Vice-rector for Strategy, Institutional Development and Personnel, UAIC

**Bogdan COJOCARU** Iasi County Prefect

**Andrei Rudolf CORLAN** General Commissiner Environmental National Guard

**Bogdan Radu BĂLĂNIȘCU** State Secretary Ministry of Environment, Waters and Forests

**Gheorghe BACUȘCĂ** Chief commissioner Environmental National Guard Iasi

Prof. univ. **Adrian GROZAVU** PhD, Dean Faculty of Geography and Geology, UAIC

Assoc. prof. **Gheorghe JIGĂU** PhD, State University of Republic of Moldova

Assoc. prof. **Petru BACAL** PhD, Institute of Ecology and Geography, Ministry of Education and Research, Chișinău, Republic of Moldova

#### 10:30 – 11:50 – Plenary presentations

#### 12:00 – 13:00 – Lunch break

#### 15:30 – 16:00 – Coffe break

#### 13:00 – 18:00 – Thematic Presentations

#### 18:30 – 21:30 – Dinner

### Saturday – 10 June 2023

#### Field application:

#### Departure 8:15 Corp B UAIC

Iași – Podu Iloaiei – Târgu Neamț – Mănăstirea Secu – Mănăstirea Sihla –



Alexandru Ioan Cuza University of IAȘI  
Faculty of Geography and Geology



Rezervația de Zimbri de la Vânători Neamț – Lunch – Cetatea Neamțului  
Târpești – Iași



## Plenary Session

Ora: 10:10  
Sala B8

Chairman: Assoc. prof. ing. habil. Lilian NIACȘU

Authors	Affiliation	Title
1. Viorel PARASCHIV <sup>1</sup> Cristina-Georgiana VOICU <sup>2</sup>	<sup>1</sup> Liceul Tehnologic Economic de Turism Iași, România <sup>2</sup> Școala Gimnazială "Titu Maiorescu" Iași, România	<b>The professor emeritus dr. Liviu Apostol - the man, the geographer, the friend</b>
2. Gheorghe JIGĂU <sup>1</sup> Sergiu DOBROJAN <sup>1</sup> Galina DOBROJAN <sup>1</sup> Boris TURCHIN <sup>1</sup> Aurelia CRIVOI <sup>1</sup> Iurie BACALOV <sup>1</sup> Valentin GABER <sup>1</sup>	<sup>1</sup> State University from Moldova, Chișinău, Republic of Moldova	<b>The health of arable chernozem soils through the prism of the "biogeocenotic functions of the soil" concept</b>
3. Alexandru-Ionuț PETRIȘOR <sup>1,2,3,4</sup> Oana Ramona ILOVAN <sup>5</sup>	<sup>1</sup> Doctoral School of Urban Planning, "Ion Mincu" University of Architecture and Urbanism <sup>2</sup> Department of Architecture, Faculty of Architecture and Urban Planning, Technical University of Moldova, Chisinau, Moldova <sup>3</sup> National Institute for Research and Development in Constructions, Urbanism and Sustainable Spatial Development URBAN-INCERC <sup>4</sup> National Research Institute for Research and Development in Tourism <sup>5</sup> Faculty of Geography, Babeș-Bolyai University	<b>Are science metrics beneficial to sustainability? A standpoint of disciplines with a societal impact</b>
4. Octavian GROZĂ <sup>1</sup>	<sup>1</sup> Faculty of Geography and Geology, "Alexandru Ioan Cuza" University of Iași, Romania	<b>Anthropocene: future environment and sustainable development</b>
5. Remus PRĂVĂLIE <sup>1</sup> Cristian-Valeriu PATRICHE <sup>2</sup> Mihai NICULIȚĂ <sup>3</sup> Bogdan ROȘCA <sup>2</sup> Georgeta BANDOC <sup>1</sup>	<sup>1</sup> University of Bucharest, Faculty of Geography, Bucharest, Romania <sup>2</sup> Romanian Academy, Iași Division, Geography Department, 8 Carol I str., 700505, Iași, Romania <sup>3</sup> Faculty of Geography and Geology, "Alexandru Ioan Cuza" University of Iași, Iași, Romania	<b>Global assessment of soil organic carbon changes during 2001-2015</b>



# Session 1

## Atmospheric Environment and Climate Change

Time: 13:00 – 18:00

Class: 627

**Chairman:** Assoc. prof. Lucian SFÎCĂ; Lect. Remus PRĂVĂLIE; Asist. Marina IOSUB

1. Lucian SFÎCĂ <sup>1</sup> Pavel ICHIM <sup>1</sup>	<sup>1</sup> Faculty of Geography and Geology, “Alexandru Ioan Cuza” University of Iași, Iași, Romania	<b>Contribuția Prof. Univ. Dr. Em. Liviu Apostol la dezvoltarea climatologiei în România</b>
2. Laura Elena PETRESCU <sup>1</sup> Nicoleta IONAC <sup>1</sup> Raul-Gabriel ILEA <sup>1</sup>	<sup>1</sup> University of Bucharest, Faculty of Geography, Bucharest, Romania	<b>Quantitative assessment of summer air-temperature extremes on the mountain tops of the Romanian Carpathians during 1990-2020</b> <i>Online presentation</i>
3. Loredana-Elena HAVRIS <sup>1</sup>	<sup>1</sup> Institute of Geography, Romanian Academy, Bucharest, Romania	<b>Analysis of the exposure of Prahova’s Corridor to heat waves by parameters of frequency, duration, and intensity in the context of climate change</b> <i>Online presentation</i>
4. Aurel-Dănuț AXINTE <sup>1</sup> Emil SIRBU <sup>1</sup> Doru-Dorian POPESCU <sup>1</sup>	<sup>1</sup> S.C. INTERVENTII ACTIVE IN ATMOSFERA S.A., Bucharest, Romania	<b>The National Hail Suppression and Precipitation Enhancement System in the context of climate change</b>
5. Daniel FLOREA <sup>1</sup> Aurel – Dănuț AXINTE <sup>1</sup> Dragoș Andrei SÎRBU <sup>1</sup> Eduard POPESCU <sup>1</sup> Emil SIRBU <sup>1</sup>	<sup>1</sup> S.C. INTERVENTII ACTIVE IN ATMOSFERA S.A., Bucharest, Romania	<b>Preliminary conclusions over the small-scale experiment for rain enhancement using unmanned light helium balloons</b>
6. Nicolae ILIE <sup>1</sup> Daniel FLOREA <sup>2</sup> Dragoș Andrei SÎRBU <sup>1</sup> Eduard POPESCU <sup>1</sup>	<sup>1</sup> S.C. INTERVENTII ACTIVE IN ATMOSFERA S.A., Bucharest, Romania <sup>2</sup> UCCG Moldova 1 - Iasi within S.C. INTERVENTII ACTIVE IN ATMOSFERA S.A., Bucharest, Romania	<b>Using light, unamened helium balloons for rain enhancement</b>
7. Andreea BETERINGHE <sup>1,2</sup> Adrian IRAȘOC <sup>1,3</sup> Nicoleta IONAC <sup>4</sup> Nicolae ILIE <sup>2</sup> Dragoș Andrei SÎRBU <sup>2</sup> Eduard POPESCU <sup>2</sup>	<sup>1</sup> University of Bucharest, Faculty of Geography, Doctoral School “Simion Mehedinți” - Nature and Sustainable Development <sup>2</sup> S.C. INTERVENTII ACTIVE IN ATMOSFERA S.A., Bucharest, Romania <sup>3</sup> National Meteorological Administration, Bucharest, Romania <sup>4</sup> University of Bucharest, Faculty of Geography, Bucharest, Romania	<b>The relevance of Air-Instability Indices in assessing the thermoconvective phenomena within the operation area of the “Traian Vuia” Airport in Timișoara, on 10 July 2021</b>
8. Daniel-Robert MANTA <sup>1</sup>	<sup>1</sup> Universitatea Babeș-Bolyai, Cluj-	<b>O retrospectivă a evenimentelor de</b>





Napoca, Romania		vânt convectiv sever din ultimii 20 de ani
9. Dumitru MIHĂILĂ <sup>1</sup> Alin PRISĂCARIU <sup>1</sup> Petruț-Ionel BISTRICEAN <sup>1</sup> Lucian SFÎCĂ <sup>2</sup> Vasilică Dănuț HORODNIC <sup>1</sup> Vlad-Alexandru AMIHĂESEI <sup>3,4</sup> Ștefănel-Claudiu CREȚU <sup>3,5</sup>	<sup>1</sup> Departamentul de Geografie, Facultatea de Istorie și Geografie a Universității Ștefan cel Mare Suceava, România <sup>2</sup> Department of Geography and Geology, Alexandru Ioan Cuza University of Iași, Romania <sup>3</sup> Doctoral School of Geosciences, Alexandru Ioan Cuza University of Iași, Romania <sup>4</sup> National Meteorological Administration, Bucharest, Romania <sup>5</sup> S.C. INTERVENTII ACTIVE IN ATMOSFERA S.A., Bucharest, Romania	<b>Variabilitatea și distribuția temperaturii aerului în timpul verii în aglomerația metropolitană Suceava-NE-tul României. Causalități și consecințe bioclimatice</b>
10. Raul-Gabriel ILEA <sup>1</sup> Nicoleta IONAC <sup>1</sup> Laura-Elena PETRESCU <sup>2</sup> Alexandru DUMITRESCU <sup>2</sup> Giorgiana LÜFTNER <sup>2</sup>	<sup>1</sup> University of Bucharest, Faculty of Geography, Bucharest, Romania <sup>2</sup> National Meteorological Administration, Bucharest, Romania	<b>The economic capitalization of the impact of minimum air-temperatures on energy consumption. Case study: Bucharest-Băneasa</b>
11. Alina NISTOR <sup>1</sup> Bogdan NISTOR <sup>2</sup> Dumitru MIHĂILĂ <sup>1</sup> Petruț-Ionel BISTRICEAN <sup>1</sup>	<sup>1</sup> Departamentul de Geografie, Facultatea de Istorie și Geografie a Universității Ștefan cel Mare Suceava, România <sup>2</sup> Școala Gimnazială Nr. 4 Suceava, România	<b>Biometeorological consequences deriving from the spatiality and temporality of ITU between the thresholds of 66-79 units and over 80 units in Moldova</b>
12. Ștefănel-Claudiu CREȚU <sup>1,2</sup> Lucian SFÎCĂ <sup>3</sup> Vlad-Alexandru AMIHĂESEI <sup>3,4</sup> Iuliana-Gabriela BREABĂN <sup>1,3</sup> Pavel ICHIM <sup>3</sup> Dragoș Andrei SÎRBU <sup>2</sup> Eduard POPESCU <sup>2</sup>	<sup>1</sup> Doctoral School of Geosciences, Department of Geography, Faculty of Geography and Geology, Alexandru Ioan Cuza University of Iași, Romania <sup>2</sup> S.C. INTERVENTII ACTIVE IN ATMOSFERA S.A., Bucharest, Romania <sup>3</sup> Faculty of Geography and Geology, "Alexandru Ioan Cuza" University of Iași, Iași, Romania <sup>4</sup> National Meteorological Administration, Romania	<b>Analysis of Thermal Patterns Using Landsat Series Thermal Imagery: Spatial Clusters of Hot and Cold Spots in Urban Environments of North-Eastern Romania</b>
13. Lucian SFÎCĂ <sup>1</sup> Vlad-Alexandru AMIHĂESEI <sup>2,3</sup> Pavel ICHIM <sup>1</sup> Adrian IRAȘOC <sup>3,4</sup> Robert HRIȚAC <sup>2</sup> Alexandru DUMITRESCU <sup>3</sup>	<sup>1</sup> Department of Geography and Geology, Alexandru Ioan Cuza University of Iași, Romania <sup>2</sup> Doctoral School of Geosciences, Alexandru Ioan Cuza University of Iași <sup>3</sup> National Meteorological Administration, Bucharest, Romania <sup>4</sup> Doctoral School "Simion Mehedinți – Nature and Sustainable Development", University of Bucharest, Bucharest.	<b>Daily gridded data set for air temperature and relative humidity derived from independent in situ measurements in Iasi city from 2013 to 2022</b>



## Session 2

### Risks assessment Water quality and management

Hour: 13:00 – 18:00

Class: 629

**Chairman:** Assoc. prof. Petru BACAL; Prof. univ. Mihail LUCA; Asist. Andrei ENEA

1. Gheorghe JIGĂU <sup>1</sup> Iurie BACALOV <sup>1</sup> Aurelia CRIVOI <sup>1</sup> Elena CHIRIȚA <sup>1</sup> Elena DRUȚA <sup>1</sup> Sergiu DOBROJAN <sup>1</sup> Galina DOBROJAN <sup>1</sup>	<sup>1</sup> State University from Moldova, Chișinău, Republic of Moldova	<b>The impact of noise pollution on the environment and the health of the human population</b>
2. Mihail LUCA <sup>1</sup> Alexandru Lucian LUCA <sup>2</sup> Petru-Daniel BRĂNIANU <sup>1</sup>	<sup>1</sup> Technical University “Gheorghe Asachi” of Iasi, Romania <sup>2</sup> Polias-Instal Company of Iasi, Romania	<b>Considerations regarding the flow of water through granular layers</b>
3. Ionuț-Petronel ROMANESCU <sup>1</sup> Mihail LUCA <sup>1</sup> Petru-Daniel BRĂNIANU <sup>1</sup>	<sup>1</sup> Technical University “Gheorghe Asachi” of Iasi, Romania	<b>Considerations regarding the current minor bed concept in watercourses</b>
4. Vasiliță ISTRATE <sup>1</sup> Dragoș Andrei SÎRBU <sup>1</sup> Serghei EREMEICO <sup>1</sup> Ionuț-Lucian LAZĂR <sup>1</sup> Sorin DOBIRCIANU <sup>1</sup>	<sup>1</sup> S.C. INTERVENTII ACTIVE IN ATMOSFERA S.A., Bucharest, Romania	<b>Influence of glaciogenic seeding on the radar characteristics of hail clouds</b>
5. Anca Maria CHIRILA <sup>1</sup> Florin Constantin MIHAI <sup>2</sup> Adrian GROZAVU <sup>1</sup>	<sup>1</sup> Faculty of Geography and Geology, “Alexandru Ioan Cuza” University of Iași, Iași, Romania <sup>2</sup> CERNESIM center, Interdisciplinary Research Institute, Alexandru Ioan Cuza University of Iași, Romania	<b>The Role of Hydrological Factors in the Mobilization and Accumulation of Plastic Waste</b>
6. Iolanda-Veronica GANEA <sup>1,2</sup> Alexandrina NAN <sup>2</sup> Calin BACIU <sup>1</sup>	<sup>1</sup> Faculty of Environmental Science and Engineering, “Babeș-Bolyai” University, Cluj-Napoca, Romania <sup>2</sup> National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania	<b>Eco-friendly chitosan-based copolymer for toxic heavy metals removal from mining wastewaters</b> <i>Online presentation</i>
7. Petru BACAL <sup>1</sup> Maria PRISĂCARI <sup>2</sup> Veronica RĂILEAN <sup>1</sup> Veronica SAVIN <sup>2</sup>	<sup>1</sup> Institute of Ecology and Geography, Moldavian State University, Chisinau, Republic of Moldova	<b>Probleme și măsuri prioritare în dezvoltarea sistemelor publice de aprovizionare cu apă și canalizare din Regiunea de Dezoltare Nord a</b>



	Daniela BURDUJA <sup>1</sup>	<sup>2</sup> North Development Regional Agency, Bălți, Republic of Moldova	<b>Republicii Moldova</b>
8.	Lilian NIACȘU <sup>1</sup> Ionuț-Costel CODRU <sup>1,2</sup> Andrei ENEA <sup>1</sup>	<sup>1</sup> Faculty of Geography and Geology, "Alexandru Ioan Cuza" University of Iași, Iași, Romania <sup>2</sup> Alexandru Ioan Cuza" University of Iași, Research Center with Integrated Techniques for Atmospheric Aerosol Investigation in Romania, RECENT AIR, Laboratory of interdisciplinary research in geochemistry of rural areas, Environmental Quality Monitoring Station for Geographic Research, 707290 Madarjac, Iași, Romania;	<b>Towards an up-to-date gully inventory from Moldavian Plateau of Eastern Romania</b>
9.	Marina IOSUB <sup>1</sup>	<sup>1</sup> Faculty of Geography and Geology, "Alexandru Ioan Cuza" University of Iași, Iași, Romania	<b>Environmental hazards posed by Târnicioara tailing dam</b>
10.	Oana-Elena CHELARIU <sup>1</sup> Corneliu IAȚU <sup>1</sup> Ionuț MINEA <sup>1</sup>	<sup>1</sup> Faculty of Geography and Geology, "Alexandru Ioan Cuza" University of Iași, Iași, Romania	<b>Social vulnerability to natural hazards in North-East Region of Romania</b>
11.	Vasile JITARIU <sup>1</sup> Adrian URSU <sup>1</sup> Lilian NIACȘU <sup>1</sup>	<sup>1</sup> Faculty of Geography and Geology, "Alexandru Ioan Cuza" University of Iași, Iași, Romania	<b>Risks and phenological variations in apple yields as the temperature warms. Falticeni orchards (Northeast Romania) as a case study</b>
12.	Ana JELEAPOV <sup>1</sup>	<sup>1</sup> Institute of Ecology and Geography, Moldova State University, Chișinău, Republic of Moldova	<b>Mapping the dams built on the rivers of the North Development Region of the Republic of Moldova</b> <i>Online presentation</i>
13.	Petronela SPIRIDON-URSU <sup>1</sup> Adrian URSU <sup>1</sup> Iuliana-Gabriela BREABĂN <sup>1</sup>	<sup>1</sup> Faculty of Geography and Geology, "Alexandru Ioan Cuza" University of Iași, Iași, Romania	<b>Geopolitical changes and their influence on heritage sites. Case study Moldova</b>



## Session 3

### Environmental Policy Sustainable Development

Hour: 13:00 – 18:00

Class: 658

**Chairman:** Assoc. prof. Alexandru-Ionuț PETRIȘOR; Lect. Alexandru BĂNICĂ; Asist. Oana-Elena CHELARIU

- |  |  |   |
|--|--|---|
| 1. Alexandru-Ionuț PETRIȘOR <sup>1,2,3,4</sup><br>Olga HAREA <sup>5</sup><br>Antonio-Valentin TACHE <sup>3</sup><br>Angela MUNTEANU <sup>2</sup><br>Oana-Cătălina POPESCU <sup>3,4</sup><br>Diana ANDRONOVICI <sup>2</sup><br>Liliana Elza PETRIȘOR <sup>6</sup>                                   | <sup>1</sup> Doctoral School of Urban Planning, "Ion Mincu" University of Architecture and Urbanism<br><sup>2</sup> Department of Architecture, Faculty of Architecture and Urban Planning, Technical University of Moldova, Chisinau, Moldova<br><sup>3</sup> National Institute for Research and Development in Constructions, Urbanism and Sustainable Spatial Development URBAN-INCERC<br><sup>4</sup> National Research Institute for Research and Development in Tourism<br><sup>5</sup> Faculty of Architecture and Urban Planning, Technical University of Moldova, Chisinau, Moldova<br><sup>6</sup> Retired architect and independent researcher, Bucharest, Romania | <b>Deciphering green infrastructure patterns in Eastern Europe: focus on Bucharest, Romania and Chisinau, Republic of Moldova</b> |
| 2. Gabriel-Ovidiu VĂNĂU <sup>1,2</sup><br>Mihăiță-Iulian NICULAE <sup>1,2</sup><br>Iulia-Viorica MIU <sup>2</sup><br>Cristiana-Maria PIOARCĂ-CIOCĂNEA <sup>2</sup><br>Lavinia-Corina PÎNDARU <sup>2</sup><br>Ana-Maria POPA <sup>2</sup>   | <sup>1</sup> Department of Regional Geography and Environment, Faculty of Geography, University of Bucharest, Bucharest, Romania<br><sup>2</sup> Centre of Environmental Research and Impact Studies, University of Bucharest, Bucharest, Romania  | <b>Social and economic indicators analysis in Romanian protected areas</b>  |
| 3. Lavinia Corina PÎNDARU <sup>1</sup><br>Laurențiu ROZYLOWICZ <sup>1</sup><br>Iulian Mihăiță NICULAE <sup>1</sup><br>Gabriel VÎNȚU <sup>1</sup><br>Iulia Viorica MIU <sup>1</sup><br>Andreea NIȚĂ <sup>1</sup><br>Cristiana Maria PIOARCĂ-CIOCĂNEA <sup>1</sup><br>Steluța MANOLACHE <sup>1</sup> | <sup>1</sup> Centre for Environmental Research and Impact Studies, University of Bucharest, Bucharest, Romania   | <b>Understanding the evolution of EU environmental policy using the Institutional Grammar Tool</b>                                |
| 4. Alexandru BĂNICĂ <sup>1</sup>   | <sup>1</sup> Faculty of Geography and Geology,   | <b>The Recovery and Resilience Facility a</b>   |



	"Alexandru Ioan Cuza" University of Iași, Iași, Romania	<b>tool for boosting Green Transition in EU?</b>
5. Mihaela TIMOFTI <sup>1</sup> Cătălina ITICESCU <sup>1</sup> Mădălina CALMUC <sup>1</sup> Valentina-Andreea CĂLMUC <sup>1</sup> Ira SIMIONOV <sup>1</sup> Nina LAZĂR <sup>1</sup> Alina ANTACHE <sup>1</sup> Miruna CODREANU <sup>1</sup>	<sup>1</sup> Faculty of Sciences and Environment, REXDAN Research Infrastructure, Dunărea de Jos University of Galați, Galați, Romania	<b>Environmental monitoring of navigable sector of the Danube River in REXDAN Research Infrastructure</b>
6. Alexandru-Ionuț PETRIȘOR <sup>1,2,3,4</sup> Antonio-Valentin TACHE <sup>3</sup> Oana-Cătălina POPESCU <sup>3,4</sup>	<sup>1</sup> Doctoral School of Urban Planning, "Ion Mincu" University of Architecture and Urbanism <sup>2</sup> Department of Architecture, Faculty of Architecture and Urban Planning, Technical University of Moldova, Chisinau, Moldova <sup>3</sup> National Institute for Research and Development in Constructions, Urbanism and Sustainable Spatial Development URBAN-INCERC <sup>4</sup> National Research Institute for Research and Development in Tourism	<b>IT solution for evaluating the blue-green infrastructure of Bucharest Metropolitan Area</b>
7. Cristian-Manuel FOȘALĂU <sup>1</sup> Alexandru BĂNICĂ <sup>1</sup> Lucian ROȘU <sup>1</sup>	<sup>1</sup> Faculty of Geography and Geology, "Alexandru Ioan Cuza" University of Iași, Iași, Romania	<b>15-minute cities in relation to urban sustainability. Evidence from Iasi municipality</b>
8. Andrei BĂBĂȚ <sup>1</sup> Mirela MAZILU <sup>2</sup> Ionuț-Adrian DRĂGULEASA <sup>1</sup> Amalia NIȚĂ <sup>2</sup> Mihaela GRIGORE <sup>1</sup>	<sup>1</sup> Doctoral School of Science, Faculty of Sciences, Geography Department, University of Craiova <sup>2</sup> Geography Department, Faculty of Sciences, University of Craiova	<b>Risk and Sustainable tourism resilience in the Post Crisis and COVID-19 pandemic period</b> <i>Online presentation</i>
9. Radu DIMITRIU <sup>1</sup>	<sup>1</sup> Faculty of Geography and Geology, "Alexandru Ioan Cuza" University of Iași, Iași, Romania	<b>A geographical X-ray on the structural particularities of the deceased population</b>
10. Mihai BULAI <sup>1</sup>	<sup>1</sup> Faculty of Geography and Geology, "Alexandru Ioan Cuza" University of Iași, Iași, Romania	<b>Can Destination Management Organizations become the main drivers of sustainable tourism development in Romania?</b>
11. Iuliana TUDOSE (POP) <sup>1</sup>	<sup>1</sup> Doctoral School of Economics and Business Administration, Alexandru Ioan Cuza University of Iași, Romania	<b>Smart Tourism and Sustainable Development: The European Union Experience</b> <i>Online presentation</i>
12. Ivan MOROZ <sup>1</sup>	<sup>1</sup> Institute of Ecology and Geography, Moldova State University, Chișinău, the Republic of Moldova	<b>Recommendations for improving the state of tourism resources in the Northern Development Region of the Republic of Moldova</b> <i>Online presentation</i>



## Session 4

### Biodiversity monitoring Soil Quality

Hour: 13:00 – 18:00

Class: 664

**Chairman:** Assoc. prof. Gheorghe JIGĂU; Assoc.prof. Adrian URSU, Asist. Vasile JITARIU

1.	Virat JOLLI <sup>1</sup>	<sup>1</sup> Biodiversity and Environmental Sustainability (BEST), New Delhi, India	<b>Analysis of shorebirds of North India</b> <i>Online presentation</i>
2.	Svetlana BACAL <sup>1</sup> Galina BUȘMACHIU <sup>1</sup> Oana Paula POPA <sup>2</sup>	<sup>1</sup> Institute of Zoology, USM, str. Academiei 1, 2028 Chișinău, Republic of Moldova <sup>2</sup> “Grigore Antipa” National Museum of Natural History, Kiseleff no. 1, 011341, Bucharest Romania	<b>New Saproxylc beetle species (Coleoptera: Staphylinidae) from Republic of Moldova revealed by DNA barcoding and morfological analysis</b>
3.	Nicoleta-Nona ARDELEANU <sup>1</sup> Iuliana-Gabriela BREABĂN <sup>1</sup>	<sup>1</sup> Faculty of Geography and Geology, “Alexandru Ioan Cuza” University of Iași, Iași, Romania	<b>Evaluating the impact of natural and anthropogenic pressures and threats on ROSCI0434 Siretul Mijlociu (Romania): A comparative analysis</b>
4.	Virat JOLLI <sup>1</sup>	<sup>1</sup> Biodiversity and Environmental Sustainability (BEST), New Delhi, India	<b>Monitoring of Birds and Butterflies in Himalayas through Citizen Science</b> <i>Online presentation</i>
5.	Svetlana BACAL <sup>1</sup> Galina BUȘMACHIU <sup>1</sup>	<sup>1</sup> Institute of Zoology, USM, str. Academiei 1, 2028 Chișinău, Republic of Moldova	<b>Three new species of beetles (insecta: coleoptera) associated with dead wood from the Republic of Moldova</b>
6.	Gheorghe JIGĂU <sup>1</sup> Sergiu DOBROJAN <sup>1</sup> Galina DOBROJAN <sup>1</sup> Boris TURCHIN <sup>1</sup> Elena CHIRIȚA <sup>1</sup> Adriana DRUȚA <sup>1</sup>	<sup>1</sup> State University from Moldova, Chișinău, Republic of Moldova	<b>The functions of cyano-fixing bacteria in the context of soil health</b>
7.	Veronika HRYTSKU <sup>1</sup> Yuliia HRYTSKU-ANDRIESH <sup>2</sup> Zhanna DERII <sup>3</sup> Rodika TIMISH <sup>4</sup>	<sup>1</sup> Chernivtsi Regional Center of Ecological and Naturalistic Youth, Chernivtsi, Ukraine <sup>2</sup> PhD in economics, vice-governor Chernivtsi regional state administration <sup>3</sup> Chernihiv Polytechnic National University Chernihiv, Ukraine <sup>4</sup> Consultant, Municipal institution “City Center for Professional Development of Pedagogical Workers” Chernivtsi City Council	<b>Soil contamination due to military events and the future of organic production in Ukraine</b>
8.	Codrin LACATUSU <sup>1</sup>	<sup>1</sup> “Gheorghe Asachi” Technical	<b>Some characteristics of the movement</b>



	Filipov FEODOR <sup>2</sup> Cezar Doru RADU <sup>1</sup>	University, Iasi, Romania <sup>2</sup> Iasi University of Life Sciences (IULS)	<b>of soil water in the Haplic Stagic Luvisols estimated after degradation of some copper alloy coins</b>
9.	Halyna KOVBINKA <sup>1</sup> Vitalii PRYSAKAR <sup>1</sup> Iryna DOBYNDA <sup>1</sup>	<sup>1</sup> Yuriy Fedkovych Chernivtsi National University	<b>Peculiarities of accumulation of pollutants in plants of roadside strips of Chernivtsi Region</b> <i>Online presentation</i>
10.	Sergiu DOBROJAN <sup>1</sup> Gheorghe JIGĂU <sup>1</sup> Galina DOBROJAN <sup>1</sup>	<sup>1</sup> State University from Moldova, Chișinău, Republic of Moldova	<b>Nitrogen fixing Cyanobacteria - regulators of Nitrogen content</b>
11.	Emanuela PĂDURARU <sup>1</sup> Diana Elena IACOB <sup>1</sup> Roxana JIJIE <sup>2</sup> Mircea NICOARĂ <sup>1,3</sup>	<sup>1</sup> Doctoral School of Geosciences, Faculty of Geography and Geology, Alexandru Ioan Cuza University of Iasi, Iasi, Romania <sup>2</sup> Research Center on Advanced Materials and Technologies, Department of Exact and Natural Sciences, Institute of Interdisciplinary Research, Alexandru Ioan Cuza University of Iasi, Iasi, Romania <sup>3</sup> Department of Biology, Faculty of Biology, Alexandru Ioan Cuza University of Iasi, Iasi, Romania	<b>Unveiling the Potential of Zebrafish as an Animal Model for Neurodegenerative Diseases: Exploring the Impact of Toxic Metals</b> <i>Online presentation</i>
12.	Aurelian-Nicolae ROMAN <sup>1</sup> Emese CSIKI <sup>2</sup>	<sup>1</sup> Faculty of Geography and Geology, "Alexandru Ioan Cuza" University of Iași, Iași, Romania <sup>2</sup> Segito Maria Catholic High School, Miercurea Ciuc	<b>Reefs of Guadeloupe between climate change and overexploitation for tourism development: the struggles of an ecosystem</b>



# Poster Session

Hour: 10:00 – 18:00

Department of Geography Hall

**Chairman:** Assoc. prof. Iuliana-Gabriela BREABĂN; Res. Diana-Elena BOBRIC; Laboratory technician Alexandra-Petronela STOLERIU

## 1. Biodiversity monitoring, Environment Protection

1.	Elena GRIGORE <sup>1</sup> Dana Maria CONSTANTIN (OPREA) <sup>1</sup> Florina TATU <sup>1</sup>	<sup>1</sup> Faculty of Geography, University of Bucharest, Bucharest, Romania	<b>Effective equivalent temperature index specific to the Eastern Romanian Plain. Case study: Spatial distribution and identification of bioclimatic risk areas</b>
2.	Florentina SANDU <sup>1</sup> Irina IRIMIA <sup>2</sup> Anișoara STRATU <sup>2</sup>	<sup>1</sup> National College "Mihai Eminescu", Iași, Romania <sup>2</sup> Faculty of Biology, Alexandru Ioan Cuza University of Iasi, Iasi, Romania	<b>Plant species important for pollinating insects. Case study: Băiceni locality (Botoșani county)</b>
3.	Oleg CHIHAI <sup>1</sup> Dumitru ERHAN <sup>1</sup> Ștefan RUSU <sup>1</sup> Nina TĂLĂMBUȚĂ <sup>2</sup> Maria ZAMORNEA <sup>1</sup> Galina MELNIC <sup>1</sup>	<sup>1</sup> Institute of Zoology of Academy of Sciences of Moldova, Chisinau, Republic of Moldova <sup>2</sup> Free International University of Moldova	<b>Umbelicen - prophylaxis method of parasite immunodeficiency in bovine</b>
4.	Daniela RĂDUCU <sup>1</sup> Anca Rovena LĂCĂTUȘU <sup>1</sup> Carmen-Irina CALCIU <sup>1</sup> Carmen-Alina GHERGHINA <sup>1</sup> Alexandrina MANEA <sup>1</sup> Olga VIZITIU <sup>1</sup>	National Research and Development Institute for Soil Science, Agrochemistry, and Environment (RISSA-Bucharest), Bucharest, Romania	<b>Biota functionality in providing ecosystem services in a highly sensitive mountain soil environment</b>
5.	Vasilica VASILE <sup>1</sup> Alina DIMA <sup>1</sup> Mihaela ION <sup>1</sup>	<sup>1</sup> INCD URBAN-INCERC, Bucharest, Romania	<b>Monitoring of the pollution level in educational buildings</b>
6.	Veronika HRYTSKU <sup>1</sup> Yuliia HRYTSKU-ANDRIESH <sup>2</sup> Zhanna DERII <sup>3</sup> Rodika TIMISH <sup>4</sup>	<sup>1</sup> Chernivtsi Regional Center of Ecological and Naturalistic Youth, Chernivtsi, Ukraine <sup>2</sup> PhD in economics, vice-governor Chernivtsi regional state administration <sup>3</sup> Chernihiv Polytechnic National University Chernihiv, Ukraine <sup>4</sup> Consultant, Municipal institution "City Center for Professional Development of Pedagogical Workers" Chernivtsi City Council	<b>Problems of environmental education in Ukraine and prospects for its development</b>
7.	Daniel-Eduard	<sup>1</sup> Dunarea de Jos University of Galati,	<b>The influence of meteorological</b>





CONSTANTIN <sup>1</sup> Mirela VOICULESCU <sup>1</sup> Lucian GEORGESCU <sup>1</sup> Adrian ROȘU <sup>1</sup> Cătălina ITICESCU <sup>1</sup>	Romania	parameters in the diurnal and seasonal variation of atmospheric micro- and nanoparticles
8. Cristina GÂRLEA <sup>1</sup> Cornelia MARIN <sup>1</sup> Carmelia DRAGOMIR-BĂLĂNICĂ <sup>2</sup>	<sup>1</sup> Colegiul Național al ANANP București - România <sup>2</sup> Universitatea Dunarea de Jos	Typical phenomena generated by gentrification

## 2. G.I.S and Remote Sensing in Environmental Studies

9. Alin MIHU-PINTILIE <sup>1</sup> Iulia DUMITRACHE <sup>1</sup>	<sup>1</sup> Institute of Interdisciplinary Research, Department of Exact and Natural Sciences, "Alexandru Ioan Cuza" University of Iași, Romania	Exploring the sea fish resources along the Scythia Minors coastline using GIS: A preliminary inventory through ancient literary sources
10. Ioan-Corneliu MARȚINCU <sup>1</sup> Anca ZABORILĂ <sup>x1</sup> I.E. TODIRICĂ <sup>1</sup> Paula STOICA <sup>1</sup> Catrinel-Raluca GIURMA-HANDLEY <sup>1</sup>	<sup>1</sup> Faculty of Hydrotechnical Engineering, Geodesy and Environmental Engineering	Evaluation of heat island effect through remote sensing methods
11. Paula STOICA <sup>1</sup> Anca ZABORILĂ <sup>x1</sup> Catrinel-Raluca GIURMA-HANDLEY <sup>1</sup> Ioan-Corneliu MARȚINCU <sup>1</sup> Marius TELIȘCĂ <sup>x1</sup>	<sup>1</sup> "Gheorghe Asachi" Technical University, Iasi, Romania	Employing ArcGIS Model Builder to automate the process of watershed delineation
12. Iuliana-Gabriela BREABĂN <sup>1,2,3</sup> Alexandra-Petronela STOLERIU <sup>1,2</sup> Andreea-Florina STOLERIU <sup>3</sup> Diana-Elena BOBRIC <sup>1,2,3</sup> Adrian-George ISTRATE <sup>3,4</sup>	<sup>1</sup> Faculty of Geography and Geology, "Alexandru Ioan Cuza" University of Iași, Iași, Romania <sup>2</sup> Institute of Interdisciplinary Research - ICI-UAIC, CERNESIM Department <sup>3</sup> Doctoral School of Geosciences, Department of Geography, Faculty of Geography and Geology, Alexandru Ioan Cuza University of Iasi, Romania <sup>4</sup> RNP Romsilva Putna Vrancea Natural Park Administration, Vrancea, Romania	Current trends and future directions on Environmental Remote Sensing
13. Mihai-Alexandru CHIȚEA <sup>1</sup> Mărioara RUSU <sup>1</sup>	<sup>1</sup> Institutul de Economie Agrară, București, Romania	Sustainable agricultural practices and contract farming - evidence from dairy farms in Dornelor Basin - Suceava County
14. Robert HRIȚAC <sup>1,2</sup> Pavel ICHIM <sup>1</sup> Lucian SFÎCĂ <sup>1</sup> Ionuț MINEA <sup>1</sup>	<sup>1</sup> Department of Geography and Geology, Alexandru Ioan Cuza University of Iași, Romania <sup>2</sup> Doctoral School of Geosciences,	Medium term climate conditions in central Moldovia at Madarjac reaseach station (2013-2022)



**3. Monitoring and Protected Areas**

<p>15. Cornelia-Florentina DOBRESCU<sup>1</sup> Eugeniu BRAGUTA<sup>2</sup> Olga HAREA<sup>2</sup></p>	<p><sup>1</sup>NIRD URBAN-INCERC; Bucharest, Romania, Assoc. Prof, Faculty of Engineering and Agronomy in Braila, "Dunărea de Jos" University of Galati, Romania <sup>2</sup>Faculty of Architecture and Urban Planing, Techical University of Moldova, Chisinau, Republic of Moldova</p>	<p><b>The design and implementation of eco-sustainable technical solutions by recovery on industrial by-products in geotechnical engineering applications</b></p>
<p>16. Ionuț Emilian TODIRICĂ<sup>1</sup> Raluca MITROI<sup>1</sup> Anca ZABORILĂ<sup>1</sup> Marius TELIȘCĂ<sup>1</sup></p>	<p><sup>1</sup>"Gheorghe Asachi" Technical University, Iasi, Romania</p>	<p><b>Influence of varying base demands on water age in a water distribution system</b></p>
<p>17. Cristian-Alin BARBACARIU<sup>1</sup> Lenuța DIRVARIU<sup>1</sup> Marian BURDUCEA<sup>1</sup> Eugen OPREA<sup>1</sup> Răzvan Ștefan BOIANGIU<sup>2</sup> Gabriela DUMITRU<sup>2</sup> Elena TODIRASCU-CIORNEA<sup>2</sup></p>	<p><sup>1</sup>Research and Development Station for Aquaculture and Aquatic Ecology, "Alexandru Ioan Cuza" University, Carol I, 20A, 700505 Iasi, Romania <sup>2</sup>Faculty of Biology, "Alexandru Ioan Cuza" University, Carol I, 20A, 700505 Iasi, Romania</p>	<p><b>The effect of including barley grass juice in the diet of common carp cultivated in Recirculating Aquaculture System</b></p>
<p>18. Andreea-Silvia POPA<sup>1</sup> Marius TELIȘCĂ<sup>1</sup> Alexandru-Ion PASCARIU<sup>1</sup> Mihai DIMA<sup>1</sup> Anca ZABORILĂ<sup>1</sup></p>	<p><sup>1</sup>Technical University "Gheorghe Asachi" of Iasi, Romania</p>	<p><b>Study regarding the interdependence between the terrestrial ecosystems and the underground water corps</b> <i>Online presentation</i></p>
<p>19. Aurelia HULUBA<sup>1</sup></p>	<p><sup>1</sup>Inspector Superior Urbanism, Primaria Chitila, Ilfov, Romania</p>	<p><b>Managementul proiectelor de investitii care genereaza energie din surse regenerabile - un ghid in domeniul dezvoltarii teritoriale</b></p>
<p>20. Oana Mihaela STOLERIU<sup>1</sup> Bogdan Constantin IBĂNESCU<sup>2</sup></p>	<p><sup>1</sup>Faculty of Geography and Geology, "Alexandru Ioan Cuza" University of Iași, Iași, Romania <sup>2</sup>Centrul de Studii Europene, UAIC, Iasi, Romania</p>	<p><b>The place of natural spiritual attractions in the spiritual tourism typology. Beyond the promotional cliches.</b></p>
<p>21. Ana-Maria ANASTASIEI<sup>1</sup> Lilian NIACȘU<sup>1</sup></p>	<p><sup>1</sup>Faculty of Geography and Geology, "Alexandru Ioan Cuza" University of Iași, Iași, Romania</p>	<p><b>Exploring the Geotourism-Building Materials Nexus: A Path Towards Sustainable Development in Iași City, Romania</b></p>
<p>22. Tatiana BUNDUC<sup>1</sup> Iurii BEJAN<sup>1</sup></p>	<p><sup>1</sup>Institute of Ecology and Geography, Moldavian State University, Chisinau,</p>	<p><b>Analys of ecological security based on PSR model in the Republic of Moldova</b></p>



<p>Viorica ANGHELUTA<sup>1</sup>          Vitalie SOCHIRCA<sup>2</sup>          Iradion JECHIU<sup>1</sup></p>	<p>Republic of Moldova  <sup>2</sup>Faculty of Biology and Geosciences,          Moldavian State University, Chisinau,          Republic of Moldova</p>	<p><b>Habitat selection of large mammals in          Natural Park Putna Vrancea</b></p>
<p>23. Adrian-George          ISTRATE<sup>1,2</sup>          Constantin ION<sup>3</sup>          Vasile JITARIU<sup>4</sup>          Iuliana-Gabriela          BREABĂN<sup>1,4,5</sup>          Ion MILITARU<sup>2</sup></p>	<p><sup>1</sup>Doctoral School of Geosciences,          Department of Geography, Faculty of          Geography and Geology, Alexandru          Ioan Cuza University of Iasi, Romania  <sup>2</sup>RNP Romsilva Putna Vrancea          Natural Park Administration,          Vrancea, Romania  <sup>3</sup>Faculty of Biology, University          "Alexandru Ioan Cuza" of Iasi  <sup>4</sup>Faculty of Geography and Geology,          "Alexandru Ioan Cuza" University of          Iași, Iași, Romania  <sup>5</sup>Institute of Interdisciplinary          Research - ICI-UAIC, CERNESIM          Department</p>	<p><b>Habitat selection of large mammals in          Natural Park Putna Vrancea</b></p>
<p><b>4. Natural and Anthropogenic Environmental Risks</b></p>		
<p>24. Nicolae BACIU<sup>1</sup>          Octavian Liviu          MUNTEAN<sup>1</sup>          Gheorghe ROȘIAN<sup>1</sup>          Viorel ARGHIUȘ<sup>1</sup>          Vlad MĂCICĂȘAN<sup>1</sup></p>	<p><sup>1</sup>Faculty of Environmental Science          and Engineering, Babeș-Bolyai          University, Cluj-Napoca, Romania</p>	<p><b>Cluj-Napoca Metropolitan Area -          regional attractiveness and          environmental constraints</b></p>
<p>25. Andra-Cosmina          ALBULESCU<sup>1</sup>          Daniela LARION<sup>2</sup></p>	<p><sup>1</sup>Tulnici Research Station, Faculty of          Geography and Geology, Alexandru          Ioan Cuza University of Iasi, Iasi,          Romania  <sup>2</sup>Faculty of Geography and Geology,          "Alexandru Ioan Cuza" University of          Iași, Iași, Romania</p>	<p><b>Open Source Data-Based Solutions for          Identifying Patterns of Urban          Earthquake Systemic Vulnerability in          High-Seismicity Areas</b></p>
<p>26. Alexandru BĂNICĂ<sup>1</sup>          Marinela ISTRATE<sup>1</sup>          Ionel MUNTELE<sup>1</sup>          Adrian GROZAVU<sup>1</sup></p>	<p><sup>1</sup>Faculty of Geography and Geology,          "Alexandru Ioan Cuza" University of          Iași, Iași, Romania</p>	<p><b>Increasing vulnerabilities in Romanian          cities: recent dynamics in urban sprawl          and landslides exposure</b></p>
<p>27. Petru BUNDUC<sup>1</sup>          Dorin LOZOVANU<sup>1</sup>          Mihail HACHI<sup>1</sup>          Vadim CUJBĂ<sup>1</sup></p>	<p><sup>1</sup>Institute of Ecology and Geography,          Moldova State University, Chișinău,          the Republic of Moldova</p>	<p><b>Considerations on the demographic          decline of the population in the North          Development Region, Republic of          Moldova</b></p>
<p>28. Maria Cristina          CIMPOEȘU<sup>1</sup>          Adrian GROZAVU<sup>1</sup></p>	<p><sup>1</sup>Faculty of Geography and Geology,          "Alexandru Ioan Cuza" University of          Iași, Iași, Romania</p>	<p><b>Risk factors with impact on tourism in          the Piatra-Neamț city</b></p>
<p>29. Ioan BALAN<sup>1</sup>          Raluca GIURMA-          HANDELY<sup>1</sup>          Loredana CRENGĂNIȘ<sup>1</sup>          Flavia</p>	<p><sup>1</sup>"Gheorghe Asachi" Technical          University of Iasi, Faculty of          Hydrotechnical Engineering, Geodesy          and Environmental Engineering,          Department of Hydroamelioration</p>	<p><b>Slope stability analysis of a dam. Case          study: Hâlceni reservoir, Iași County,          Romania</b></p>



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CORDUNEANU <sup>2</sup> Isabela Elena BALAN <sup>3</sup>	and Environment Protection <sup>2</sup> University of Life Sciences, Iasi, Romania <sup>3</sup> Water Basinal Administration Prut- Bârlad, Iasi, Romania	
30. Alexandru TOPOLNICEANU <sup>1</sup> Ioan BALAN <sup>1</sup> Denis TOPA <sup>2</sup> George UNGUREANU <sup>2</sup> Isabela Elena BALAN <sup>3</sup>	<sup>1</sup> "Gheorghe Asachi" Technical University of Iasi, Faculty of Hydrotechnical Engineering, Geodesy and Environmental Engineering, Department of Hydroamelioration and Environment Protection, Iasi, Romania <sup>2</sup> University of Life Sciences, Iasi, Romania <sup>3</sup> Water Basinal Administration Prut- Bârlad, Iasi, Romania	<b>Research on the infiltrations in a dry dam. Case study: Ciurea non - permanent accumulation, Iași county, Romania</b>
31. Alexandru-Ion PASCARIU <sup>1</sup> Marius TELISCA <sup>1</sup> Andreea-Silvia POPA <sup>1</sup> Mihai DIMA <sup>1</sup> Raluca MITROI <sup>1</sup>	<sup>1</sup> Technical University "Gheorghe Asachi" of Iasi, Romania	<b>The necessary parameters for the optimization of the advanced purification stage</b>
32. Viorel CĂLINESCU <sup>1</sup> Lucian GEORGESCU <sup>1</sup> Cătălina ITICESCU <sup>1</sup> Maria-Cătălina ȚOPA <sup>1</sup>	<sup>1</sup> Dunarea de Jos University of Galati, Romania	<b>The Waste Management System in Galati County and the impact on the environment</b>

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