



UNIVERSITATEA  
1 DECEMBRIE 1918  
DIN ALBA IULIA



CONSILIUL JUDETEAN ALBA



TU Clausthal



Alexander von  
**HUMBOLDT**  
STIFTUNG

**“Sustenabilitate pentru Oameni - Oameni pentru Sustenabilitate”**

**= Lansarea Hub-ului de Actiune pentru Durabilitate Locala =**

**“Nachhaltigkeit für Menschheit - Menschheit für Nachhaltigkeit”**

**= Starten des Handlungshubs für Lokale Nachhaltigkeit =**

**“Sustainability for Humanity - Humanity for Sustainability”**

**= Launching the Local Sustainability Action Hub =**



**Alba Iulia, Romania, June 11<sup>th</sup> – 14<sup>th</sup>, 2025**

**“1 Decembrie 1918” University of Alba Iulia, Romania**

## **Conference Agenda**

### **"1 Decembrie 1918" University of Alba Iulia, Romania**

**Wednesday, June 11<sup>th</sup>: Arrival, welcome, first meeting of Humboldtian participants**

**Place: Auditorium of "1 Decembrie 1918" University of Alba Iulia, Romania**

All day	Participants arrival and registration
14:00	<p><b>Opening of the International Humboldtian Launching Conference – Auditorium of "1 Decembrie 1918" University of Alba Iulia, Romania</b></p> <p>Welcoming address by Prof. dr. eng. Ildiko Tulbure, "1 Decembrie 1918" University of Alba Iulia, Humboldt Club Romania, Humboldt Club Transilvania, and Rotary Club Alba Iulia - Coordinator of the International Scientific Event</p> <p>Welcome address by the University Leadership, Prof. dr. Daniel Breaz, Rector of "1 Decembrie 1918" University of Alba Iulia, Romania</p> <p>Welcome Address by Mrs. Kerstin Jahn, Consul of the Consulate of the Federal Republic of Germany/Mr. Sven Kunert, Vice Consul of the Consulate of the Federal Republic of Germany</p> <p>Welcome address by Prof. dr. eng. Sorin Radu, Rector of the University of Petrosani/ Prof. dr. eng. Maria Lazar, ViceRector of the University of Petrosani, Romania/ Prof.dr.eng. Dan Codrut Petrilean, ViceRector of the University of Petrosani</p> <p>Greetings by Prof. dr. eng. Björn Ludwig, Clausthal University of Technology, Clausthal-Zellerfeld, Germany and Successfactory Leadership, Grünwald, Germany</p> <p>Welcome address by Prof. dr. Ruxandra Cosma, Humboldt Club Romania and University of Bucharest, Romania</p> <p>Welcome address by Prof. dr. Corina Rotar, Dean of the Faculty of Informatics and Engineering, "1 Decembrie 1918" University of Alba Iulia, Romania</p>
14:30	<p><b>Alexander von Humboldt – Personality for Science Advance</b></p> <p>Prof. Alexandru Mironov – Senior Editor of the Journal "Știință&amp;Tehnică"/"Science&amp;Technology", Bucharest, Romania</p>
15:00	<p><b>Alexander von Humboldt Foundation – Supporting Science Advance</b></p> <p>Prof. dr. Ruxandra Cosma – Humboldt Club Romania and University of Bucharest, Romania</p>
<b>Workshop 1: Sustainability for Humanity</b>	
15:30	<p><b>Humboldtian scientists have the Word - Lab Talk (1)</b></p> <p>Prof. dr. Marian Jaskula, Societas Humboldtiana Polonorum and Jagiellonian University in Kraków, Poland</p> <p><b>The Usefulness of Nanoporous Oxide Layers in Modern Surgery</b></p>
15:50	<p>Prof. dr. Marwan Mousa, Jordanian Club of von Humboldt Fellows and Jadara University, Jordan</p> <p><b>Characterization and Analysis of Field Electron Emission from Copper Tips</b></p>

16:10	<p>Acad. dr. Anatolie Sidorenko, Humboldt Club Moldova and Technical University of Moldova, Chisinau, Moldova</p> <p><b>Superconducting brain like computer – artificial neural network</b></p>
16:30	<p>Prof. dr. Mohamed Ellouze, Alexander von Humboldt - Maghreb Alumni Association and University of Sfax, Tunisia</p> <p><b>Environmental Applications of Magnetism and Magnetocaloric in Perovskite</b></p>
16:50	<p>Prof. dr. Gordana Jovanović, Humboldt Club Serbia and University of Belgrade, Serbia</p> <p><b>Psychological Foundations of Sustainability</b></p> <p>Presentations and discussions</p>
17:10	Coffee Break
<b>Workshop 2: Sustainability for Humanity</b>	
	<p><b>Humboldtian scientists have the <a href="#">Word - Lab Talk (2)</a></b></p>
17:40	<p>Prof. dr. Yaseen Ahmad Al Soud, Jordanian Club of von Humboldt Fellows and Al al-Bayt University, Mafrqa, Jordan</p> <p><b>4-Nitroimidazoles-Piperazines: Synthetic Approaches and Pharmacological Importance</b></p>
18:00	<p>Prof. dr. Adam Łukaszewicz, Societas Humboldtiana Polonorum and University of Warsaw, Poland</p> <p><b>Archeology Change the Image of the Past – and May Influence our Future</b></p>
18:20	<p>Prof. dr. Ahmad Al Ajlouni, Jordanian Club of von Humboldt Fellows and Jordan University of Science and Technology, Irbid, Jordan</p> <p><b>Green Chemistry with Catalytic Oxygen Transfer</b></p>
18:40	<p>Prof. dr. Dan Dumitrascu, Humboldt Club Transilvania and “Iuliu Hatieganu” University of Medicine and Pharmacy, Cluj-Napoca, Romania</p> <p><b>Green Gastroenterology</b></p> <p>Presentations and discussions</p>
19:30	<p><b>Get-together-activity with Welcome Dinner</b></p> <p><b>Restaurant of Transilvania Hotel, Iulia Maniu Place 11, Alba Iulia</b></p>

**Thursday, June 12<sup>th</sup>: Welcome, meeting of Humboldtian participants**

**Place: Auditorium of "1 Decembrie 1918" University of Alba Iulia, Romania**

08:55	<b>Introduction of the day's Agenda aims – Auditorium of "1 Decembrie 1918" University of Alba Iulia, Romania</b> Prof. dr. eng. Ildiko Tulbure Details regarding today's Conference Agenda
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### **Workshop 3: Sustainability for Humanity**

	<b>Humboldtian scientists have the Word - Lab Talk (3)</b>
09:00	Prof. dr. Majda Sekkal-Rahal, Alexander von Humboldt - Maghreb Alumni Association and University of Djillali Liabes of Sidi bel Abbès, Algeria <b>Interpretation of Donor-Acceptor Arrangements through Orbital Contributions to Intermolecular Energy</b>
09:20	Prof. dr. Ashraf Abadi, German University in Cairo, Egypt <b>Sustainable Drug Discovery Through Computational Power</b>
09:40	Dr. Monika Śmiełowska, Prof. dr. Bogusław Buszweński, Kuyavian-Pomeranian Science and Technology Centre of Prof. Jan Czocharński, Toruń, Poland <b>Volatile Biomarkers in Cancer: Towards Sustainable Health in Modern Civilization</b>
10:00	Prof. dr. eng. Ioana Ionel, Humboldt Club Romania and Politehnica University of Timisoara, Romania <b>Air Quality Determination: Measurement vs. Simulation</b>
10:20	Prof. dr. Ioan Bucur, Humboldt Club Transilvania and Babes-Bolyai University, Cluj-Napoca, Romania <b>Learning from present to understand the past: benthic ulvophycean calcareous algae</b> Presentations and discussions
10:40	Coffee Break

### **Workshop 4: Sustainability for Humanity**

	<b>Humboldtian scientists have the Word - Lab Talk (4)</b>
11:00	Prof. dr. Eugen Sava, Humboldt Club Moldova and National Museum of History of Moldova, Chisinau, Moldova <b>The National Museum of History of Moldova and its Cultural-Scientific Collaboration with German Institutions</b>
11:20	Prof. dr. Valentin Mirceski, Humboldt and DAAD Club-Macedonia and "Ss Cyril and Methodius" University in Skopje, Republic of Macedonia <b>Perspectives on Electrochemistry and Electroanalysis using Novel Electrochemical Techniques</b>
11:40	Prof. dr. Ioan Ardelean, Humboldt Club Transilvania and Technical University of Cluj-Napoca, Romania <b>NMR Relaxometry Study of 3D Printable Mortars</b>

12:00	<p>Dr. Ioana Pintilie, Dr. Silviu Polosan, PhD Fellow Andrei Tomulescu, Humboldt Club Romania and National Institute of Materials Physics, Bucharest, Romania</p> <p><b>Emerging materials for renewable and sustainable energy. Powering the circular economy using thin films solar cells</b></p>
12:20	<p>Prof. dr. Bianca Bican, Humboldt Club Transilvania and Babes-Bolyai University, Cluj-Napoca, Romania</p> <p><b>Sustainability Concept from a Humanities Perspective - Case Study of Cluj-Napoca</b></p> <p>Presentations and round table debates, Sharing new project ideas for future cooperation</p>
13:00	Lunch
15:00	<p><b>Keynote Speech - Auditorium of "1 Decembrie 1918" University of Alba Iulia, Romania</b></p> <p><b>Introduction of the Keynote Speaker</b></p> <p>Prof. Alexandru Mironov – Senior Editor of the Journal “Știință&amp;Tehnică”/“Science&amp;Technology”, Bucharest, Romania</p> <p><b>Feasibility and Defiance of Sustainable Lunar Activities</b></p> <p>Cosmonaut dr. eng. Dumitru-Dorin Prunariu, Cosmonaut Dumitru-Dorin Prunariu Foundation, Bucharest, Romania and Association of Space Explorers, ASE – Europe, Illkirch - Graffenstaden, France</p> <p>Presentations and discussions</p>
16:30	Coffee break
17:00	Walking to Principilor Palais in Alba Iulia
18:00	<p><b>Official Ceremony – Principilor Palais, Dietei Hall, Alba Iulia</b></p> <p>Short Explaining Introduction from the side of the City Hall in Alba Iulia</p> <p>Greetings by the Leadership of "1 Decembrie 1918" University of Alba Iulia, Romania</p> <p>Greetings by Mr. Nicolae Albu, Prefect of the Alba County, Romania</p> <p>Greetings by Mr. Ioan Dumitrel, President of the Alba County Council, Romania</p> <p>Greetings by Prof. dr. Corina Rotar, Dean of the Faculty of Informatics and Engineering, "1 Decembrie 1918" University of Alba Iulia</p> <p>Welcoming by Mr. Gabriel Pleșa, Mayor of the city of Alba Iulia and Rotary Club Alba Iulia, Romania</p>
18:15	<p><b>Acknowledging Outstanding Achievements for Human Sustainability of</b></p> <p><b>Dr. eng. cosmonaut Dumitru-Dorin Prunariu</b></p> <p>Mr. Gabriel Pleșa, Mayor of the city of Alba Iulia, Romania</p> <ul style="list-style-type: none"> <li>- Laudatio by Prof. Alexandru Mironov – Senior Editor of the Journal “Știință&amp;Tehnică”/“Science&amp;Technology”, Bucharest, Romania</li> </ul> <p>Ceremony of Awarding the Honorary Citizenship of Alba Iulia, the Unification City of Romania</p>
18:30	<b>Local Cultural Event</b>
19:00	<p><b>Get-together-activity with Official Dinner</b></p> <p><b>Carolina Heritage, Unirii-Str. 11, Alba Iulia</b></p>

**Friday, June 13<sup>th</sup>: Humboldtian Hosts and Humboldtian Supporters, as well as Young Researchers have the Word**

**Place: Auditorium of "1 Decembrie 1918" University of Alba Iulia, Romania**

8:55	<b>Introduction of the day's Agenda aims – Auditorium of "1 Decembrie 1918" University of Alba Iulia, Romania</b> Prof. dr. eng. Ildiko Tulbure Details regarding today's Conference Agenda
<b>Workshop 5: Humanity for Sustainability</b>	
9:00	<b>Humboldtian Hosts have the Word - Lab Talk (5)</b> Prof. dr. eng. Björn Ludwig, Humboldt – Host, Successfactory Leadership, Grünwald, Germany and Clausthal University of Technology, Clausthal-Zellerfeld, Germany <b>Success factors contribution odds to Human Sustainability</b>
9:30	Prof. dr. eng. Winfried Ruß, Humboldt – Host, Technical University of München, University of Applied Sciences, Weißenstephan-Triesdorf, Germany <b>Decarbonisation and Supply Security for Industrial Production based on Modularization and Integration of Renewable Energies</b> Presentations and discussions
10:00	Coffee break
<b>Workshop 6: Humanity for Sustainability</b>	
10:30	<b>Humboldtian Supporters have the Word - Lab Talk (6)</b> Prof. dr. eng. Sorin Radu, Rector of the University of Petrosani/Prof. dr. eng. Maria Lazar, ViceRector of the University of Petrosani, Romania/Prof.dr.eng. Dan Codrut Petrilean, ViceRector of the University of Petrosani
11:00	<b>Eureca-Pro Alliance – An Opportunity to Sustainable Education and Development</b> Prof. dr. Issam Trrad, Dean, Jadara University, Jordan <b>Enhanced Field Electron Emission from Carbon Fiber Emitters using Epoxy Resin 478 Coating</b>
11:30	Prof. Alexandru Mironov – Senior Editor of the Journal “Știință&Tehnică”/“Science&Technology”, Bucharest, Romania <b>Sustainability of Technology-Driven Society</b>
11:50	Prof. dr. Teodora Popescu, “1 Decembrie 1918” University of Alba Iulia, Romania <b>Linguistics Share for assuring Human Sustainability</b>
12:10	Prof. dr. eng. Cristian Dragomirescu, National University of Science and Technology POLITEHNICA Bucharest, Romania <b>Bionics – Potential Tool for Finding and Implementing Methods for Sustainable Development?</b>
12:25	Assoc. Prof. dr. Simion Mihon, National Agency of Fiscal Administration, Romania and “1 Decembrie 1918” University of Alba Iulia, Romania/Prof. dr. eng. Ildiko Tulbure <b>Fiscal Policy Share for Getting Sustainability</b>

12:40	<p>Prof. dr. Andreea Begov, “1 Decembrie 1918” University of Alba Iulia, Romania</p> <p><b>Shaping Sustainable Cities by Considering Green Real Estate</b></p> <p>Presentations and discussions</p>
13:00	Lunch
<b>Workshop 7: Humanity for Sustainability</b>	
	<p>Potential Future Humboldt Fellows have the Word – <a href="#">Session for young researchers (1)</a> – Auditorium of “1 Decembrie 1918” University of Alba Iulia, Romania</p>
14:30	<p>Mgr. Natalia Kulikova, Jagiellonian University in Kraków, Poland</p> <p><b>Ancient Sources of Modern Pharmacognosy</b></p>
14:40	<p>PhD Fellow eng. Dan Marius Mustata, Politehnica University of Timisoara, Romania</p> <p><b>Pulse of the Urban Jungle: Noise in Residential Areas near High-Traffic Roads</b></p>
14:50	<p>MA Student eng. Karam Al Qalawi, “1 Decembrie 1918” University of Alba Iulia, Romania</p> <p><b>Applying Potential of Renewable Energy Resources in Jordan</b></p>
15:00	<p>PhD Fellow Dermina Danciu, Babes-Bolyai University of Cluj-Napoca, Romania</p> <p><b>Impact of GDPR on Digital Sustainability: Protecting Personal Data in the Green Technology Era</b></p>
15:10	<p>Dr. Jafar M. Al Ja'afreh, Jadara University, Jordan</p> <p><b>Use of Physical Techniques to purify polluted Water</b></p>
15:20	<p>PhD Fellow eng. Marius Berca, Oltenia Energy Complex, Tg. Jiu, Romania</p> <p><b>Assuring Sustainability by Approaching Usage Odds of Energy Resources</b></p>
15:30	<p>Lect. dr. eng. Alexandra Dregheci, “1 Decembrie 1918” University of Alba Iulia, Romania</p> <p><b>The Role of Geodetic Monitoring in Achieving Sustainability</b></p>
15:40	<p>MA Student eng. Maria Ciobanu, “1 Decembrie 1918” University of Alba Iulia, Romania</p> <p><b>Environmental Impact Mitigation Possibilities by Applying Renewable Energy Resources</b></p> <p>Discussions</p>
16:00	Coffee break

**Workshop 8: Humanity for Sustainability**

16:30	<p>Potential Future Humboldt Fellows have the Word – Session for young researchers (2) – Auditorium of "1 Decembrie 1918" University of Alba Iulia, Romania</p> <p>MA Student Adel Abuamr, Jadara University, Jordan</p> <p><b>Applying possibilities of Engineering for tackling diverse Impacts of Human Activities</b></p>
16:40	<p>PhD Fellow Amel Gouasmia, University of Sfax, Tunisia</p> <p><b>Structural, Electrical and Dielectric Study of the ZnO Nanoparticles dopped by Fe<sub>2</sub>SO<sub>4</sub></b></p>
16:50	<p>PhD Fellow eng. Andrei Tulbure, Technical University of Cluj-Napoca, Romania</p> <p><b>Reinforcement Learning based Financial Portofolio Optimization Agent</b></p>
17:00	<p>MA Phys. Saleh AlBashaish, Al-Ahliyya Amman University, Jordan</p> <p><b>Enhancing the Performance of Biodegradable Polymers with Carbon Nanotubes for Sustainable and Eco-friendly Battery Electrodes</b></p>
17:10	<p>MA Student eng. Eduard Eftenie, "1 Decembrie 1918" University of Alba Iulia, Romania</p> <p><b>Framework for Designing Sustainable Tourism Activities</b></p>
17:20	<p>MA Student Raul-Octav Munteanu-Bardan, "1 Decembrie 1918" University of Alba Iulia, Romania</p> <p><b>Application Odds of Artificial Intelligence in Environmental Engineering</b></p>
17:30	<p>BEng Student Marielena Maier, "1 Decembrie 1918" University of Alba Iulia, Romania</p> <p><b>Approaching Usage Odds of Solar Energy on Local Level</b></p>
17:40	<p>BEng Student Marius Cimpean, "1 Decembrie 1918" University of Alba Iulia, Romania</p> <p><b>Analysing and Assessing Wind Energy Potential on Regional Level</b></p> <p>Discussions</p>
17:50	<p><b>Launching the <i>Local Sustainability Action Hub, LSAH</i></b></p> <p>Prof. dr. eng. Ildiko Tulbure</p> <p><b>Presenting the Concept and Vision of the <i>Local Sustainability Action Hub, LSAH</i></b></p> <p>Dr. George Siarov/Prof. dr. eng. Ildiko Tulbure – SWS Scholarly Society, Vienna, Austria</p> <p><b>Earth and Planetary Insights</b></p> <p>Prof. dr. eng. Ildiko Tulbure and all conference participants</p> <p><b>Resume, assessment, outlook, future work</b></p> <ul style="list-style-type: none"> <li>- <b>Awarding best scientific contributions and presentations</b></li> </ul> <p><b>What's next?</b></p> <p>Debates about follow-up events, joint research work by cooperation and publishing activities</p>
19:00	<p><b>Get-together-activity with Farewell Dinner</b></p> <p><b>Restaurant of Transilvania Hotel, Iulia Maniu Place 11, Alba Iulia</b></p>



**Saturday, June 14<sup>th</sup>: Follow-Up Event**

**Place: Auditorium of "1 Decembrie 1918" University of Alba Iulia, Romania**

9:00	<b>Introduction of today's Follow-Up activity - Auditorium of "1 Decembrie 1918" University of Alba Iulia, Romania</b> Prof. dr. eng. Ildiko Tulbure Details regarding today's Follow-Up Event Agenda
9:10	<b>Get-together activity</b> Visiting the National History Museum and Principia Museum in Alba Iulia Presentations
13:00	<b>Follow-Up Event Closing Lunch</b> Restaurant of Transilvania Hotel, Iulia Maniu Place 11, Alba Iulia Outlook - Debating future activities

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**“1 Decembrie 1918” University of Alba Iulia**  
[www.uab.ro](http://www.uab.ro)



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<https://judetul-alba.ro/>



**City Hall of Alba Iulia**  
[www.apulum.ro](http://www.apulum.ro)



**Clausthal University of Technology**  
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