

SCIENTIFIC AGENDA

ANSO – Romanian Academy, Institute of Physical Chemistry “Ilie Murgulescu” – Serbian Academy of Sciences and Arts

Conference on Green Energy and Environmental Resilience

An International Forum for Sustainable Ecosystem Solutions

ANSO – RA – SASA

DAY 1 — 23 September

Strategic Foundations for Sustainability

TIME	SPEAKER	CONTRIBUTION TITLE
<i>08:30 – 09:00 — Registration</i>		
09:00–09:20	Opening Ceremony	<i>Welcome Speeches</i> Acad. Marius Andruh Acad. Zoran Popović Dr. Ioan Balint Representative of Embassy of the People's Republic of China in Romania - <i>tbc</i>
OPENING SESSION — POLICY FRAMEWORKS AND INTERNATIONAL COOPERATION PANEL DISCUSSIONS <i>Chair: Acad. Zoran Popović</i>		
09:20–9:45	Prof. K-I. Aika <i>National Institute of Technology (KOSEN), Numazu College</i>	Implementation of green hydrogen and ammonia society, importance of international cooperation.
9:45–10:10	Prof. Andrei Jitianu <i>Lehman College, City University of New York</i>	<i>TBD</i>
<i>10:10 – 10:20 — Coffee Break</i>		
SESSION 1: MATERIALS SCIENCES, GREEN TECHNOLOGIES AND SUSTAINABLE ENERGY CONVERSION — PART 1 <i>Chair: Prof. K-I. Aika</i>		
10:20–10:45	Prof. A. Kudo <i>Tokyo University of Science, Research Institute for Science and Technology (RIST), Carbon Value Research Center</i>	Design of Particulate Photocatalyst for Water Splitting and CO ₂ Reduction aiming at Carbon Neutrality
10:45–11:10	Prof. Y. Izumi <i>Chiba University</i>	Charge Separation and/or Hot Spots: Efficient CO ₂ Photoreduction as a Sustainable Solution

TIME	SPEAKER	CONTRIBUTION TITLE
11:10–11:35	Dr. Taketoshi Minato <i>Institute for Molecular Science, National Institutes of Natural Sciences</i>	Reaction Mechanism of Energy Conversion Based on Electrode Fluorination and Defluorination Revealed by in-situ Scanning Probe Microscopy
11:35–12:00	Prof. J. Ryu <i>Chiba University, Graduate School of Engineering</i>	Development of energy-saving materials for realizing a sustainable society
12:00–12:25	Prof. K. Inazu <i>National Institute of Technology (KOSEN), Numazu College</i>	<i>TBD</i>
<i>12:25 – 12:40 — Q&A session — moderated by Prof. K-I. Aika</i>		
12:40 – 13:30 — Lunch Break		
<i>13:30 – 15:00 — Poster Session 1 — continuous exhibition (ROMPHYSICHEM 18th) & Networking Break</i>		
SESSION 1: MATERIALS SCIENCES, GREEN TECHNOLOGIES AND SUSTAINABLE ENERGY CONVERSION — PART 2 <i>Chair: Dr. T. Minato</i>		
13:30–13:55	A. Endo <i>Shin-Etsu Chemical Co., Ltd.</i>	Environmentally Friendly Silicone for a Carbon-Neutral and Energy-Efficient Society
13:55–14:20	Prof. D. Nicolau <i>Department of Bioengineering, McGill University</i>	Energetic supremacy of biocomputing
14:20–14:45	Futa Shigemoto <i>National Institute of Technology (KOSEN), Numazu College</i>	Efficient CO ₂ Photoreduction Using Layered Perovskites and Modified SiO ₂ as a Sustainable Solution
<i>14:45 – 15:00 — Q&A session — moderated by Dr. T. Minato</i>		
SESSION 2: PANEL — REGIONAL INITIATIVES FOR ENVIRONMENT PRESERVATION AND SUSTAINABILITY: CASE STUDIES FROM THE DANUBE–CARPATHIAN REGION		
15:00–15:30	Regional Cooperation for Environmental Preservation and Sustainability in the Danube-Carpathian Region	<i>Focus: shared environmental pressures, cross-border ecosystem management, sustainable local development, scalable case studies, nature-based restoration, circular bioeconomy, pollution reduction, community engagement, evidence-based policy, and long-term financing and governance.</i>
<i>15:30 – 15:40 — Wrap-up of the Day</i>		
19:00 — Gala Dinner — for high-level networking		