

Conference Day 1 – 30th November 2021

13:00 - 13:20 ***Conference Registration***

13:20 - 13:55 ***Welcome and Introduction¹***

- Representative of MoE
- Prof. Mustafa Babanli, Rector of ASOIU
- HE Zacharie Gross, Ambassador of France to Azerbaijan
- Prof. Michel Deneken, President of Unistra

- Prof. Latafat Gardashova, Vice-rector for Scientific Affairs of ASOIU
- Prof. Philippe Turek, Unistra, Head of Research Dept. UFAZ

14:00 - 15:00** ***Online Opening Session***

- **Jean-Marie Lehn**, Nobel Prize in Chemistry, University of Strasbourg, Institute for Advanced Study, Steps Towards Life: Chemistry!

15:00 - 15:20 ***Coffee break***

15:30 - 18:35 ***Parallel Sessions in Chemistry, Earth Sciences and Computer Science***

Moderators: Dunya Babanli, Elshan Abdullayev, Ulviyya Abdulkarimova

	CHEMISTRY (Moderator Dunya Babanli)
15:30 - 16:15** KL* 1	Khashayar Saleh , Professor of Chemical Engineering, Université de Technologie de Compiègne, TIMR laboratory (CNRS EA 4297), France, <i>Chemical reaction engineering at the heart of clean cars</i>
16:15 - 16:50 Guest 1	Ulviyya Hasanova , Scientific Researcher, ASOIU, <i>Supramolecular Nanoensembles: Preparations and Application</i>
16:50 - 17:10	Coffee Break
17:10 - 17:45** Guest 2	Christophe Serra , Professor of Chemical Engineering, Institut Charles Sadron (CNRS UPR 22), Unistra, <i>Microfluidic routes to the production of controlled-feature polymeric microcarriers for drug delivery</i>
17:45 - 18:10 JR*1	Javid Abdurahim ¹ (PhD at Unistra), Ane Larrea ² , Victor Sebastian ² , Christophe A. Serra ¹ , Madeline Vauthier ^{1*} ¹ Université de Strasbourg, CNRS, Institut Charles Sadron UPR 22, F-67000 Strasbourg, France; ² University of Saragossa, INA, Campus Río Ebro, S-50018 Saragossa, Spain, <i>Nanoemulsions for biomedical applications: drug-loaded size-controlled biodegradable polymeric nanoparticles</i>
18:10 – 18:35 JR 2	Leyla Vazirova , Department of Chemistry and Technology of Inorganic Substances of the ASOIU, <i>Synthesis of nanostructures on the basis of diazacrown ether (mc) and magnetite nanoparticles loaded by cephalosporin antibiotics</i>

	EARTH SCIENCES (Moderator Elshan Abdullayev)
15:30 - 16:15 KL*1	Suzanne Leroy , Honorary Research Fellow, Aix-Marseille Université-LAMPEA (France) and University of Liverpool (UK), <i>The Caspian Sea through time, a sea that remains mysterious</i>
16:15 - 16:50 Guest 1	Elkhan Isgandarov , Assistant Professor, ASOIU, <i>Transformation of Gravimagnetic Anomalies</i>
16:50 - 17:10	Coffee break
17:10 – 17:45 Guest 2	Mathieu Schuster , Senior Researcher, CNRS, Earth & Environment Institute of Strasbourg, <i>The future of lakes: from reconstructing ancient lakes in the geological record to forecasting the evolution of large inland waterbodies of the world</i>
17:45 - 18:10 JR* 1	Maleyka Aghayeva , Assistant Professor, Geological Prospecting Faculty, ASOIU, <i>Correlation of horizons and mapping of faults of Naftalan field based on seismic attribute analysis</i>
18:10 - 18:35 JR 2	Clara Jodry , Associate Professor of Geophysics, UFAZ, <i>Use of Electrical Resistivity Tomography to characterize fluid pathways on the Saribokha mud volcano, Azerbaijan</i>

	COMPUTER SCIENCE
15:30 - 16:15** KL* 1	Paul Bourgine, President, UNESCO UniTwin Complex Systems Digital Campus, <i>What is the Roadmap of Complex Systems Studies?</i>
16:15 - 16:50 Guest 1	Latafat Gardashova, Vice-Rector for Scientific Affairs, ASOIU, <i>Artificial intelligence and information processing in decision making problems</i>
16:50 - 17:10	Coffee break
17:10 - 17:45 Guest 2	Anne Jeannin-Girardon, Pierre Collet , Professor of Computer Science, ICUBE lab. (CNRS, UMR 7357), UNISTRA, <i>An ALLIANCE between ontological and legislative AI systems for the development of controllable Autonomous, Explainable and Ethical AI systems</i>
17:45 - 18:10** JR* 1	Vugar Mirzakhonov, ASOIU, <i>Value of Fuzzy Logic for Data Mining and Machine Learning: A Case Study</i>
18:10 - 18:35 JR* 2	Samer El Zant, Assistant Professor and the Pedagogical Responsible of the Computer Science Department, UFAZ, <i>Google matrix analysis of Twitter network</i>

18:35 - 20:00 **Evening snacks**

18:35 - 20:00 **Poster session*****

***JR** *Junior Lecturer*

***KL** *Keynote Lecturer*

****** *Online*

******* *A poster session or poster presentation is the presentation of research by an individual or group for a class or academic/professional conference. Participants who are willing to present their research in the form of posters can attend the Poster Session to be held on November 30, at 18:30-20:00*

Conference Day 2 – 1st December 2021

09:00 – 12:30

Parallel Sessions in Chemistry, Earth Sciences and Computer Science

Moderators: Maxime Florent, Clara Jodry, Samer El Zant

	CHEMISTRY
09:00 - 09:45 KL 2	Nazilya Salmanova , Associate Professor of Inorganic chemistry and Analytical chemistry, ASOIU, <i>Reactivity of fullerenes and carbon nanotubes in chain reactions of hydrocarbons and polymers oxidation</i>
09:45 - 10:20** Guest 3	Maurice Millet , Professor at Institut de Chimie et Procédés pour l’Energie, l’Environnement et la Santé (ICPEES), Unistra, <i>Speciation and origin of atmospheric particles</i>
10:20 - 10:50	Coffee break
10:50 - 11:25 Guest 4	Vagif Baghiyev , Professor at Chemistry and Technology of Inorganic Materials Department, ASOIU, <i>Ethanol conversion over binary cobalt oxide catalysts</i>
11:25 - 11:50 JR 3	Narmina Guliyeva , Assistant, ASOIU, <i>Synthesis and Transformation of Nitrogenous Polycarbonyl Compounds of Cyclohexane Series</i>
11:50 - 12:15 JR 4	Dunya Babanly , Local coordinator of Chemistry Department, UFAZ, <i>Novel advanced materials – topological insulators (TIs) for future spintronics and quantum computing</i>

	EARTH SCIENCES
09:00 - 09:45 KL 2	Gulam Babayev , Head of “Seismology, geomagnetism and petrophysics” Department, Geology & Geophysics Institute of ANAS, <i>Applying the elements of deterministic hazard assessment for the north-eastern part of Azerbaijan</i>
09:45 - 10:20 Guest 3	Cecile Robin , Associate Professor, Université de Rennes 1, <i>Signal Propagation in Source to Sink for the Future of Earth Resources and Energy</i>
10:20 - 10:50	Coffee break

10:50 - 11:25 Guest 4	Shalala Huseynova , Scientific Secretary, Oil and Gas Institute of ANAS, <i>Modelling of Petroleum Systems within the South Caspian Basin</i>
11:25 - 11:50 JR 3	Elshan Abdullayev , Geoscience Program Coordinator, UFAZ, <i>The role of clay minerals in the preservation of fossils in sedimentary rocks</i>
11:50 - 12:15 JR 4	Guilherme Bozetti , Associate Professor in Sedimentary and Field Geology, Unistra, <i>New insights into deep-lacustrine architectural elements; examples from the Upper Triassic Yanchang Formation, Ordos Basin.</i>

	COMPUTER SCIENCE
09:00 - 09:45 KL2	Ehsan Mousavi , Professor at Computer Engineering Department, Shahed University, <i>The Future of Computing is Distributed</i>
09:45 - 10:20** Guest 3	Christian Rolando , CNRS Distinguished Senior Scientist, University of Lille, <i>From mass spectrometry raw signal to results which make sense in proteomics, metabolomics and petroleomics. From deterministic algorithms to machine learning.</i>
10:20 - 10:50	Coffee break
10:50 - 11:25 Guest 4	Samir Guliyev , Associate Professor, ASOIU, <i>Building Efficient Optimization Software Packages with the Application of Parallel Computing</i>
11:25 - 11:50 JR 3	Ulviyya Abdulkarimova , Local Coordinator of the Mathematics team, UFAZ, <i>PARSEC: PARallel System for Evolutionary Computing</i>
11:50 - 12:15 JR 4	Shamil Ahmadov , Scientist at “ETAM” Science-Education Analytic Center, <i>Application of fuzzy logic in real life problem</i>
12:15 – 12:30	Closing Session

	Industrial Partnership Session / Chair Ph. Turek
13:30 - 13:50	Welcome & Coffee
13:50 - 14:00	Introduction by Prof. Philippe Turek, Head of UFAZ Research Department
14:00 - 15:10	University - Business Partnership for Research and Innovation: some testimonies about current and future R&D projects from local companies
15:10 - 15:40	Panel discussion – The solutions: how we can work together
15:40 - 16:00	Coffee break