# The Eight International Conference
# *"Dynamics of Systems on the Nanoscale"*
# and
# the Third Annual Conference of the COST Action
# *"Multiscale Irradiation and Chemistry Driven Processes and Related Technologies"*

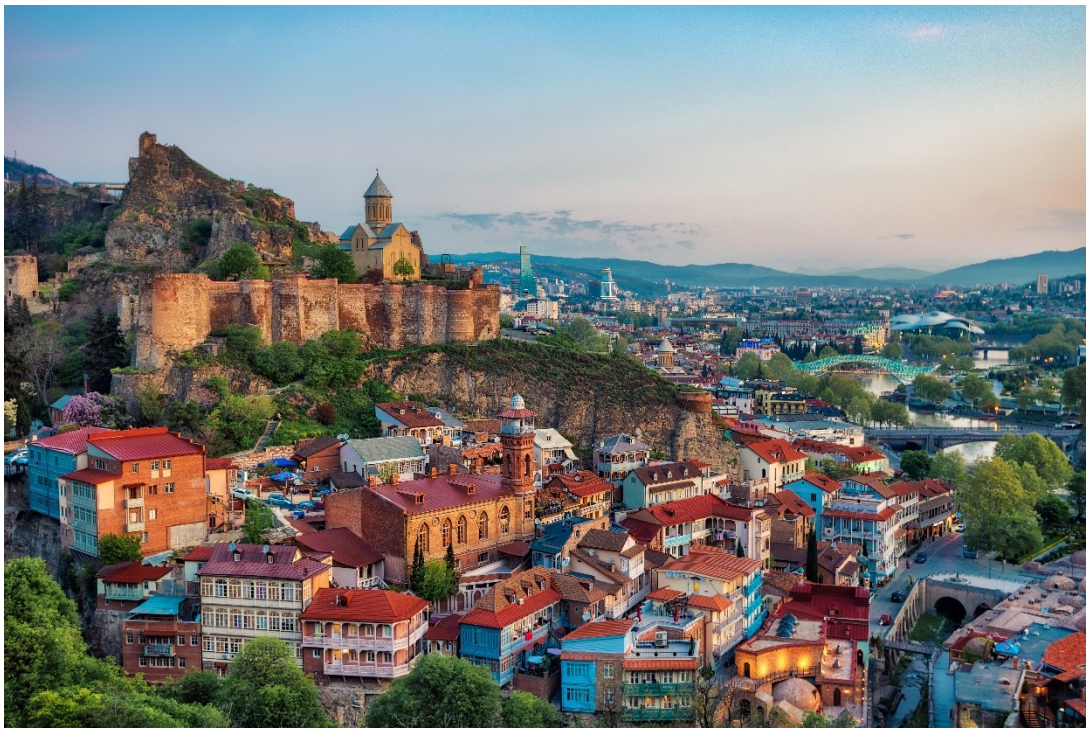
DYSON

COST Action CA20129
MultIChem

cost
EUROPEAN COOPERATION IN SCIENCE & TECHNOLOGY

## DySoN-MultIChem 2024

Tbilisi, Georgia
April 08-12, 2024



## Second Announcement

## Scope

The Eight International Conference "Dynamics of Systems on the Nanoscale" (DySoN) and the 3rd Annual Conference of the COST Action CA20129 "Multiscale Irradiation and Chemistry Driven Processes and Related Technologies" (MultIChem) will be organized jointly under the title "DySoN-MultIChem 2024 Conference".

The DySoN-MultIChem 2024 Conference will take place on **April 08-12, 2024** in Tbilisi, Georgia. It is co-organized by Tbilisi State University (Tbilisi, Georgia) and the MBN Research Center (Frankfurt am Main, Germany).

DySoN is an interdisciplinary conference series covering a broad range of topics related to the Dynamics of Systems on the Nanoscale. The DySoN conference series was launched in 2010, and seven DySoN conferences have been held so far. The DySoN conferences promote the growth and exchange of interdisciplinary scientific information on the structure formation and dynamics of animate and inanimate matter on the nanometer scale. There are many examples of complex many-body systems of micro- and nanometer scale size exhibiting unique features, properties, and functions. These systems may have very different nature and origins, e.g. atomic and molecular clusters, nanostructures, ensembles of nanoparticles, nanomaterials, biomolecules, biomolecular and mesoscopic systems. A detailed understanding of the structure and dynamics of these systems on the nanoscale is a difficult and fundamental task, the solution of which is necessary for nano- and biotechnologies, materials science and medicine.

Although mesoscopic, nano- and biomolecular systems differ in their nature and origin, a number of fundamental problems are common to all of them: What are the underlying principles of self-organization and self-assembly of matter at the micro- and nanoscale? Are these principles classical or quantum? How does function emerge at the nano- and mesoscale in systems of different origins? What criteria govern the stability of these systems? How do their properties change as a function of size and composition? How are their properties altered by their environment? Seeking answers to these questions is at the core of the interdisciplinary field of Meso-Bio-Nano (MBN) Science that lies at the intersection of physics, chemistry and biology.

The scope of the MultIChem COST Action is linked to some of the topical areas of the DySoN conference series. Annual MultIChem conferences bring together experts from physics, chemistry, biology, and nanoscience, specializing in the theoretical, multiscale computational modeling and experimental studies of irradiation-driven chemistry processes involving complex molecular systems exposed to radiation.

The DySoN-MultIChem 2024 Conference will cover experimental, theoretical and applied aspects of all the topics mentioned above. Particular attention will be devoted to dynamical phenomena and many-body effects taking place in various MBN systems on the nanoscale. They include problems of structure formation; fusion and fission; collision and fragmentation; surfaces and interfaces; collective electron excitations; reactivity; nanoscale phase and morphological transitions; irradiation-driven transformations of complex molecular systems and biodamage, channeling phenomena, and many more. The utilization of advanced computational techniques and high-performance computing for studying the aforementioned phenomena and effects will also be discussed. Links of the DySoN and MultIChem topics to novel and emerging technologies will be an important focus of the conference.

## Topical Areas of DySoN & MultIChem:

- Structure and dynamics of molecules, clusters and nanoparticles
- Cluster and biomolecular ensembles, composite systems
- Clustering, self-organization, phase and morphological transitions on the nanoscale
- Nanostructured materials, surfaces and interfaces
- Reactivity and nanocatalysis
- Electron and spin transport in molecular systems
- Collision and radiation processes, fusion, fission, fragmentation
- Radiation-induced chemistry
- Irradiation-driven transformations, damage and fabrication of MesoBioNano systems
- Propagation of particles through media
- Biomedical and technological applications of radiation
- Related technologies: novel light sources, controlled nanofabrication, functionalized materials, nanocatalysis etc.

## Important Dates

| | |
|---|---|
| Distribution of the first announcement | November 01, 2023 |
| Distribution of the second announcement | February 15, 2024 |
| Distribution of the final announcement | March 20, 2024 |
| Deadline for early-bird registration | March 01, 2024 |
| Deadline for abstract submission | March 01, 2024 |

## DySoN-MultIChem 2024 Program

### *Monday, April 08 (DySoN-related sessions)*

| | |
|---|---|
| $09^{30} – 11^{15}$ | Participants registration |
| $11^{15} – 11^{30}$ | **DySoN-MultIChem 2024 Opening** |
| $11^{30} – 13^{00}$ | **Morning session I: Dynamics of systems on the nanoscale** |
| $13^{00} – 14^{30}$ | Lunch |
| $14^{30} – 16^{00}$ | **Afternoon session I: Structure and dynamics of molecules, clusters and nanoparticles** |
| $16^{00} – 16^{30}$ | Coffee break |
| $16^{30} – 18^{00}$ | **Afternoon session II: Nanostructured materials, surfaces and interfaces** |
| $19^{00} – 21^{00}$ | Welcome reception |

### *Tuesday, April 09 (DySoN-related sessions)*

| | |
|---|---|
| $09^{30} – 11^{00}$ | **Morning session I: Reactivity and nanocatalysis** |
| $11^{00} – 11^{30}$ | Coffee break |
| $11^{30} – 13^{00}$ | **Morning session II: Irradiation-driven transformations, damage and fabrication of MesoBioNano systems** |
| $13^{00} – 14^{30}$ | Lunch |
| $14^{30} – 16^{00}$ | **Afternoon session I: Design and practical realization of novel gamma-ray crystal-based light sources** |
| $16^{00} – 16^{30}$ | Coffee break |
| $16^{30} – 18^{00}$ | **Poster session** |

### *Wednesday, April 10 (MultIChem-related sessions)*

| | |
|---|---|
| $09^{30} – 11^{00}$ | **Morning session I: Collision and radiation processes with biomolecular systems** |
| $11^{00} – 11^{30}$ | Coffee break |
| $11^{30} – 13^{00}$ | **Morning session II: Irradiation-driven transformations of molecular systems** |
| $13^{00} – 14^{30}$ | Lunch |
| $15^{00} – 17^{30}$ | Guided tour through Tbilisi historical center |

### *Thursday, April 11 (MultIChem-related sessions)*

| | |
|---|---|
| $09^{30} – 11^{00}$ | **Morning session I: Radiation-induced chemistry** |
| $11^{00} – 11^{30}$ | Coffee break |
| $11^{30} – 13^{00}$ | **Morning session II: Dynamics and chemistry of molecules in the interstellar medium** |
| $13^{00} – 14^{30}$ | Lunch |
| $14^{30} – 16^{00}$ | **Afternoon session I: Dynamical processes involving metal nanoparticles** |
| $16^{00} – 16^{30}$ | Coffee break |

| | |
|---|---|
| $16^{30} – 18^{00}$ | **Afternoon session II: Irradiation-driven transformations of condensed matter systems** |
| $19^{30} – 22^{00}$ | Conference dinner |

### *Friday, April 12 (MultIChem-related sessions)*

| | |
|---|---|
| $09^{30} – 11^{00}$ | **Morning session I: Biomedical and technological applications of radiation** |
| $11^{00} – 11^{30}$ | Coffee break |
| $11^{30} – 13^{00}$ | **Morning session II: Irradiation-driven transformations of biological systems** |
| $13^{00} – 13^{15}$ | **DySoN-MultIChem 2023 Closing** |
| $13^{15} – 15^{00}$ | Lunch |
| $15^{00} – 16^{30}$ | **MultIChem Management Committee Meeting** |

### *Saturday, April 13 – Conference excursion to Mtskheta*

A ½-day excursion for conference participants to the ancient city of Mtskheta, a UNESCO World Heritage Site, is planned for Saturday, April 13. Further information about the excursion is given below in the *"Social Program"* section.

## Confirmed Speakers

**Mariam Abuladze**, Kutaisi International University, Georgia
*Comparison of Geant4 and MatRAD software tools for radiation therapy*

**Richard Amos**, Translational Proton Therapy Physics, University College London, United Kingdom
*Ultra-high dose rate ion-beam therapy: Understanding the FLASH effect*

**Rebekah Attard-Trevisan**, University of Kent, Canterbury, United Kingdom
*Soft X-ray absorption spectroscopy to interpret the effects of lanthanide doping in lithium iron phosphate*

**Gérard Baldacchino**, Université Paris-Saclay, CEA, Gif-sur-Yvette, France
*Fluorescence quenching versus fluorescent probe damage in protons Bragg peak analyzed by in line TCSPC measurements*

**Florent Calvo**, University Joseph Fourier, Grenoble, France
*The early steps of alkali ionization in helium nanodroplets: insight from atomistic theory*

**Nicola Canale**, Istituto Nazionale di Fisica Nucleare, Ferrara, Italy
*Investigation of the radiation emitted by ultra-relativistic electrons in oriented crystals for Crystal-Light-Sources*

**Laura Carlini**, CNR-Istituto di Struttura Della Materia, Monterotondo, Italy
*Peptide bond formation and degradation in dipeptide*

**Archil Chirakadze**, Tbilisi State University, Tbilisi, Georgia
*Enhancing the biological effectiveness and safety of particle therapy by means of the adjunct combined therapeutic modalities*

**Matthew Dickers**, University of Kent, Canterbury, United Kingdom
*Atomistic modelling of channelling and radiation processes in doped silicon and diamond crystals*

**Samy El-Shall**, Virginia Commonwealth University, Richmond, USA
*Formation of complex organics in space by ion-molecule and intracluster reactions*

**Martin Falk**, Institute of Biophysics, Czech Academy of Sciences, Brno, Czech Republic
*Local and global post-irradiation changes in chromatin architecture at DSB sites and in the entire nucleus and their significance for DSB repair and genome stability*

**Felipe Fantuzzi**, University of Kent, Canterbury, United Kingdom
*Predicting accurate absorption spectra of organic semiconductor thin films*

**David Field**, Aarhus University, Denmark
*Electric fields in water ice*

**Luca Gerhards**, Carl von Ossietzky University Oldenburg, Germany
*Spin chemistry in multiscale problems – Pushing the limits of system size*

**Franco Gianturco**, University of Innsbruck, Austria
*Reactions and dynamics of molecular ions in cold traps and in interstellar environments*

**Marc Benjamin Hahn & Dorothea Hallier**, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany
*In-situ monitoring of chemical and structural changes at single-stranded DNA binding proteins during x-ray exposure*

**Julius Jellinek**, Argonne National Laboratory, USA
*Universality in size-driven evolution towards bulk polarizability of metals*

**Tamaz Kereselidze**, Tbilisi State University, Tbilisi, Georgia
*Interband optical transitions in ellipsoidal-shaped nanoparticles*

**Shiv Khanna**, Virginia Commonwealth University, Richmond, USA
*Superatomic shell closings in metal-chalcogenide clusters and stabilization of magnetic clusters through dual sub-shell closings*

**Gergő Lakatos**, Institute for Nuclear Research (Atomki), Debrecen, Hungary
*Astrochemistry of calcium-carbonate – role of low energy ion-implantation*

**Werner Lauth**, Institute of Nuclear Physics, University of Mainz, Germany
*Channeling experiments at the Mainz Microtron MAMI*

**Franck Lepine**, Institut Lumière Matière, Université Lyon 1, France
*Dynamics in complex biomolecular ions induced by XUV Attosecond pulse excitation*

**Christoph Lienau**, Carl von Ossietzky University Oldenburg, Germany
*Symmetry and Solvation: The fascinating role of vibrations for charge transfer dynamics in quadrupolar dyes*

**Aleksandr Lushchik**, Institute of Physics, University of Tartu, Tartu, Estonia
*Accumulation and thermal annealing of radiation-induced point defects in functional metal oxides*

**Telma Marques**, Instituto Superior Técnico, Bobadela, Portugal
*Impact of the coating on hydroxyl radical production by gold nanoparticles*

**Katarina Marušić**, Ruđer Bošković Institute, Zagreb, Croatia
*Enhancing self-assembled monolayers on metals through radiation-induced intermolecular crosslinking*

**Nigel Mason**, University of Kent, Canterbury, United Kingdom
*Multiscale Chemistry in the extreme - Chemistry across the Universe*

**Duncan Mifsud**, Institute for Nuclear Research (Atomki), Debrecen, Hungary
*Sulphur radiation chemistry in solar system and interstellar environments: New results from the laboratory*

**Leon Mishnaevsky Jr.**, Technical University of Denmark, Roskilde, Denmark
*Ultraviolet radiation and thermal curing of adhesives: Improvement of efficiency of repair and quality of wind turbine blades*

**Mustafa Muradov**, Baku State University, Baku, Azerbaijan
*Exploring gamma radiation effects on graphene oxide/polyvinyl alcohol nanocomposites*

**Pamir Nag**, J. Heyrovský Institute of Physical Chemistry, Prague, Czech Republic
*Probing electron-induced chemistry in liquid micro-jets*

**Andy Nisbet**, Department of Medical Physics & Biomedical Engineering, University College London, United Kingdom
*Nano-dosimetry applications in radiotherapy*

**Nektarios Papadogiannis**, Hellenic Mediterranean University, Heraklion, Greece
*Ultrafast photoacoustic phenomena in metal/silicon multilayer materials and their application in dynamic acoustic crystalline undulators*

**Anatoli Popov**, Institute of Solid State Physics, University of Latvia, Riga, Latvia
*Radiation effects in insulators and recent progress on radiation effects research*

**Jean-Christophe Poully**, Université de Caen Normandie, Caen, France
*Cartilage upon ionizing radiation: from molecular processes to biological effects*

**Leo Sala**, J. Heyrovský Institute of Physical Chemistry, Prague, Czech Republic
*Ion beam processing of DNA nanostructures*

**Robin Schürmann**, Physikalisch-Technische Bundesanstalt (PTB), Berlin, Germany
*Metrology for complex nanoparticles by synchrotron-based X-ray scattering*

**Cécile Sicard-Roselli**, Institut de Chimie Physique, University Paris Saclay, France
*Lanthanide-based nanoparticles for radiation dosimetry*

**Petr Slavíček**, University of Chemistry and Technology, Prague, Czech Republic
*Electrons in water: Birth, transport and reactivity*

**Andrey Solov'yov**, MBN Research Center, Frankfurt am Main, Germany
*Multiscale computational modelling of condensed matter systems exposed to radiation*

**Cauê Souza**, University of Kent, Canterbury, United Kingdom
*Multiscale simulation of photo-assisted chemical vapour deposition*

**Tamar Stein**, The Hebrew University of Jerusalem, Israel
*Molecular complexity in the interstellar medium*

**Petra Tegeder**, Physikalisch-Chemisches Institut, Heidelberg University, Germany
*Electronic properties of interfaces with n-heteropolycyclic molecules*

**Hidetsugu Tsuchida**, Kyoto University, Japan
*Damage process of nucleotide molecules in the Bragg peak region of multi-ion radiotherapy*

**Davide Valzani**, University of Padova, Italy
*Advances in germanium gamma undulator realization through pulsed laser melting technique*

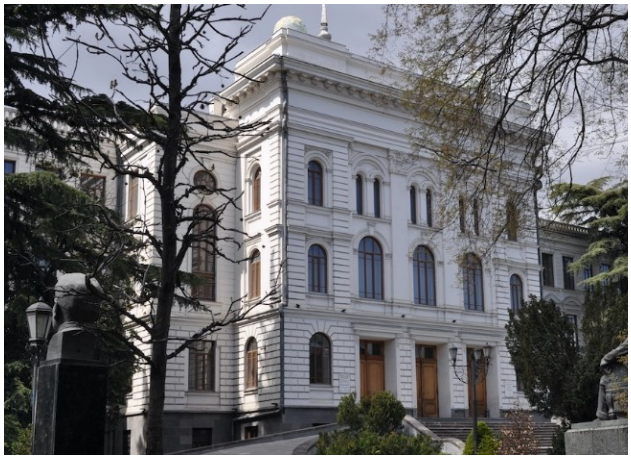
**Peter van Luijk**, The University Medical Center Groningen, Groningen, Netherlands
*Improving precision of Stem Cell Sparing Radiotherapy using a systems biology modelling approach*

**Alexey Verkhovtsev**, MBN Research Center, Frankfurt am Main, Germany
*Exploration of irradiation-induced processes in molecular systems by means of irradiation-driven molecular dynamics*

**Matija Zlatar**, Department of Chemistry, University of Belgrade, Serbia
*Insight into the excited state dynamics of transition metal complexes*

## Conference Venue

The Conference will be held at Tbilisi State University (TSU), the oldest university in Georgia and the Caucasus region. The venue will be the main building of TSU (see the photo to the right) located at Ilia Chavchavadze Avenue 1.



Tbilisi is one of the leading tourist destinations in the region, offering exquisite cityscapes; a mix of local Georgian, Byzantine, Neoclassical, Art Nouveau, Middle Eastern, and Soviet architecture; national museums and galleries; cultural attractions; historical landmarks; and exceptional, traditional Georgian cuisine along with a wide range of international restaurants. The city is well-known as a melting pot of cultures and a diverse metropolis with a palette of attractions.

## Registration

The **early-bird** participation fee for the DySoN-MultIChem 2024 conference is **400 €** for regular participants and **350 €** for undergraduate and PhD students. After the early-bird registration deadline of **March 01, 2024** the conference fee will amount **500 €** for regular participants and **400 €** for undergraduate and PhD students.

| | Early-bird fee (before March 01, 2024) | Late fee (after March 01, 2024) |
|---|---|---|
| **Regular participants** | 400 € | 500 € |
| **PhD students** | 350 € | 400 € |

The registration fee includes coffee breaks, lunches, the conference reception, guided tour, and the conference dinner.

A separate fee of about 20-30 EUR will be collected from participants willing to attend the excursion to Mtskheta on April 13. The exact fee will be provided with the final conference announcement. Please sign up for the conference excursion during the registration.

There will be a separate fee for accompanying persons, which will cover the conference reception and the conference dinner (40 EUR per person), and also lunches upon request (25 EUR per person per lunch). Please contact the conference organizers (dyson.conference@gmail.com) for further information regarding accompanying persons.

The payment to the order of "DySoN-MultIChem 2024" can be made **by bank transfer** to

| | |
|---|---|
| Bank Account Name: | MBN Research Center gGmbH |
| Bank Name: | Deutsche Bank |
| Branch Address: | Hauptstr. 561462 Koenigstein Germany |
| IBAN: | DE15500700240137588000 |
| BIC: | DEUTDEDBFRA |

Please quote your **NAME** and **DySoN-MultIChem** on the transfer. Please ensure there are NO charges to us. If you need an invoice for the payment or want to pay with a credit card, please send a short email to dyson.conference@gmail.com.

## Abstract Submission

Abstracts should be submitted electronically not later than **March 01, 2024**. Please send your abstracts to dyson.conference@gmail.com with the title "DySoN-MultIChem 2024 Abstract".

The length of the abstract should not exceed two pages. The abstract template with more detailed preparation guidelines is available for downloading here.

Please note that we accept files in the MS Word document (.docx) format.

## Travel Information

Tbilisi International Airport (TBS) is located about 18 kilometers southeast of Tbilisi city center. The airport is a hub for the national carrier Georgian Airways. The airport is served by approximately 30 airlines providing roughly 30 destinations to/from Tbilisi, including flights to Amsterdam, Athens, Barcelona, Beijing, Berlin, Brussels, Düsseldorf, Istanbul, London, Milan, Munich, Paris, Prague, Riga, Vienna, and Warsaw.

The Tbilisi city center can be reached from Tbilisi International Airport by a municipal bus or taxi. The taxi trip to the city center takes 20-30 minutes, depending on traffic. A trip from the airport to TSU or the area close to TSU with an airport taxi costs 60 Georgian lari (60 GEL / about 20 EUR). Most hotels in Tbilisi have a transportation service from/to the airport, for about the same price as an airport taxi.

Information on transportation from the airport can be found on the page:
https://www.tbilisiairport.com/en-EN/passenger-guide/to-from-the-airport

## Accommodation

There are several hotels within 10 minutes walking distance from the conference venue, particularly Hotel "Orion" (<5 min walk) and Hotel "Best Western Tbilisi City Center" (5-8 min walk).

There are many other hotels and apartments within walking distance of the conference venue and spread across the city. These lodging options can be booked e.g. via booking.com or airbnb.com.

The TSU main building (the conference venue) has good public transport (bus) connection to other parts of the city.

## Social Program

| Event | Date/time |
|---|---|
| Welcome reception | Monday, April 08, $19^{00} – 21^{00}$ |
| Guided city tour | Wednesday, April 10, $15^{00} – 17^{30}$ |
| Conference dinner | Thursday, April 11, $19^{30} – 22^{00}$ |
| Excursion to Mtskheta | Saturday, April 13, first half of the day |

The **welcome reception** will be organized in the large hall of TSU, on Monday, April 08, at $19^{00}$.

The **conference dinner** on April 11 will take place in a banquet hall at Tbilisi Funicular restaurant.

During the **guided tour** on April 10, the conference participants will have an opportunity to explore the historical center of Tbilisi, the old town, and its hidden gems and legends. The tour will start at 13th-century Metekhi Church overlooking the historical center of Tbilisi. The next step will be a cable car ride to the statue of "Mother of Georgia". From there, one can enjoy views of the city and walk down with shortcuts to the heart of the Sulfur Water bath houses district, explore Meidan Square and the underground market. If enough time is left, the tour will end at the oldest church in Tbilisi, 6th-century Anchiskhati Basilica, and beautiful pedestrian Shavteli Street.

A ½-day **conference excursion to the ancient city of Mtskheta** is planned for Saturday, April 13. Mtskheta is one of the oldest cities in Georgia. It is located approximately 20 km north of Tbilisi. Currently a small provincial capital, Mtskheta was a large fortified city for nearly a millennium until the 5th century AD and a significant economic and political center of the Kingdom of Iberia. Mtskheta was also the location where Christianity was proclaimed as the official religion of Georgia in the year 337. Up to now, it remains the headquarters of the Georgian Orthodox and Apostolic Church.

The favorable natural conditions, its strategic location at the intersection of trade routes, and its close relations with the Roman Empire, the Persian Empire, Syria, Palestine, and Byzantium generated and stimulated the development of Mtskheta and led to the integration of different cultural influences with local cultural traditions. After the 6th century AD, when the capital was transferred to Tbilisi, Mtskheta retained its leading role as one of the country's important cultural and spiritual centers.

Due to the historical significance of the town and its several outstanding churches and cultural monuments, the "Historical Monuments of Mtskheta"" became a UNESCO World Heritage Site in 1994.

## Reimbursement of the Travel Expenses

The MultIChem COST Action provides financial support to reimburse its members – participants of the conference – for their travel expenses. Detailed information about the COST reimbursement rules can be found in the Annotated Rules for COST Actions (see Sect. A1-3.1 "Travel reimbursement rules", pp. 83-90).

The number of participants to be reimbursed will be limited by the MultIChem budget allocated for this meeting. In order to be reimbursed, you must receive an official invitation through e-COST indicating that you are eligible for the reimbursement. After the meeting, you will be required to fill in your online travel reimbursement request (OTRR) through the link you will find in the invitation email.

When arranging your travel and accommodation, please consider the following rules (see the Annotated Rules for COST Actions for complete and detailed information):

- Any transport you take in your country (airplane, train, bus, car…) is reimbursed based on the supporting documents provided (tickets for flights, trains and buses; proof of distance for car travel, e.g. by Google maps). Taxi, car rental, fuel and parking expenses are not eligible.
- For the flight ticket: it must be a return and economy class ticket from the country of your primary affiliation (as registered in e-COST) to the country of the meeting.
- Your stay in Tbilisi should be covered under the flat-rate Daily Allowance (DA). The DA is intended to cover accommodation, meals and transport in the host country. No receipts will be required.
- The maximum DA rate that can be claimed is calculated according to the actual number of days you attend the meeting (max. 3 days of the MultIChem-related part of the conference), as confirmed by your signature on the official attendance list for each day of the meeting, plus one day.
- On travel days, the DA is based on departure and arrival times (see p. 85 of the Annotated Rules for COST Actions).

## Official Invitation and Visa

Conference participants are advised to check the passport and visa requirements for travel to Georgia well in advance. For invitation requests, please contact Professor Revaz Shanidze (Tbilisi State University); see the contact information below.

## DySoN-MultIChem 2024 International Advisory Committee

- Andrey V. Solov'yov (MBN Research Center, Frankfurt am Main, Germany) – **IAC Chair**
- Ilko Bald (University of Potsdam, Germany)
- Catherine Bréchignac (Laboratoire Aime Cotton, CNRS, Orsay, France)
- Michel Broyer (University of Lyon, France)
- Jean-Patrick Connerade (Imperial College London, London, UK)
- Martin Falk (Institute of Biophysics of the Czech Academy of Sciences, Brno, Czech Republic)
- Franco Gianturco (The University of Innsbruck, Austria)
- Vincenzo Guidi (University of Ferrara, Italy)
- Julius Jellinek (Argonne National Laboratory, Argonne, Illinois, USA)
- Shiv Khanna (Virginia Commonwealth University, Richmond, USA)
- Nigel Mason (University of Kent, Canterbury, UK)
- Harald Plank (Graz University of Technology, Graz, Austria)
- Kate Ricketts (University College London, UK)
- Thomas Schlathölter (University of Groningen, The Netherlands)
- Jefferson Shinpaugh (East Carolina University, Greenville, USA)
- Ilia Solov'yov (Carl von Ossietzky University, Oldenburg, Germany)

## Organizing Committee

- Andrey Solov'yov (MBN Research Center, Germany) – **Co-Chair**
- Revaz Shanidze (Tbilisi State University & Kutaisi International University, Georgia) – **Co-Chair**
- Zaal Machavariani (Tbilisi State University & Kutaisi International University, Georgia)
- Irina Solovyeva (MBN Research Center, Germany)
- Alexey Verkhovtsev (MBN Research Center, Germany)

## Contact Information

**Prof. Dr. Andrey V. Solov'yov**
DySoN-MultIChem 2024 Co-Chair
MBN Research Center gGmbH
Altenhöferallee 3
60438 Frankfurt am Main
Germany
Phone: +49 (0)69 34875600
E-mail: solovyov@mbnresearch.com
Website: www.mbnresearch.com

**Professor Revaz Shanidze**
DySoN-MultIChem 2024 Co-Chair
Faculty of Exact and Natural Sciences,
Tbilisi State University
I. Chavchavadze str. 1, Tbilisi, Georgia
and
Kutaisi International University
Youth Avenue 5/7, Kutaisi, Georgia
E-mail: revaz.shanidze@tsu.ge,
revaz.shanidze@kiu.edu.ge
Website: https://www.tsu.ge/en
https://www.kiu.edu.ge/

## DySoN Conference Web Page

Updated information on the DySoN-MultIChem 2024 conference is available at www.dyson-conference.org.

## DySoN-MultIChem 2024 Conference e-mail

dyson.conference@gmail.com