

Event Programme



10th GEORGIAN – GERMAN SCHOOL AND WORKSHOP IN BASIC SCIENCE

GGSB 2024 Science Fest • The First 20 Years •

September 9 - 13, 2024

Mark achievements during the first **two decades** in science, education and cultural exchange

- **Status and future of GGSB**

9 - 10 September
at TSU and GTU, Tbilisi

- **Scientific workshop**

11 - 13 September
at KIU, Kutaisi

Topics:
Hadron Therapy
Medical Imaging
ML/AI in Science

**AUG, GTU,
ISU, KIU, TSU**

Joint
Research

Educational
Training

GGSB

Knowledge
Transfer

**FZJ, GSI,
HZDR,
RWTH**



Ivane Javakishvili Tbilisi State University (TSU)



Georgian Technical University (GTU)



Kutaisi International University (KIU)

<http://collaborations.fz-juelich.de/ikp/cgswhp>



Sunday, 8th September – Arrival in Tbilisi ca. 14:00

Cultural program: Tbilisi City Tour & Welcome Reception (at TSU garden 19:00) 17:00 – 21:00

Day 1: Monday, 9th September (TSU, foyer of acting hall)

– GGSB History, Status and Future –

Opening Session: Welcome & Opening Addresses (Chair: Erekle Astakhishvili (TSU)) 12:00 – 12:20

- Sebastian Schmidt (HZDR): Challenges and Vision 12:20 – 12:40
- Hans Ströher (FZJ): GGSB History & Status 12:40 – 13:00
- Jon Shah (FZJ): Moderated Discussion About the GGSB Future (Q&A) 13:00 – 13:40

Interviews/TV media/Photos/Coffee break/Snacks 13:40 – 14:30

Excursion & Dinner (Old capital Mtskheta & Winery “Mephis Kalaki”) 15:00 – 21:00

Day 2: Tuesday, 10th September (GTU, Nikoladze hall)

– GGSB and Beyond –

Opening Session: Welcome (Chairs: Tamar Lominadze (GTU); Hans Ströher (FZJ)) 11:30 – 11:50

- Mike Lamont (CERN): International Scientific Cooperation (example: CERN) 11:50 – 12:20
- James Ritman (GSI): International FAIR Project 12:20 – 12:40
- Arjan Vink (GSI): Establishing EU Strategy and Support for Science 12:40 – 13:00
- Paolo Lenisa (INFN): Particle Physics: EDM Search Project 13:00 – 13:20
- Andrew Webb (RWTH): Low Field MRI (talk will be online pre-recorded) 13:20 – 13:40
- Tamar Khechiashvili (GTU): SMART|Medical Imaging Training Lab 13:40 – 14:00

Interviews/TV media/Photos/Coffee break/Snacks 14:00 – 15:00

Public Lecture: Sebastian M. Schmidt: 15:00 – 15:45

- Solutions to Grand Challenges – Large-Scale Research and the HZDR

Cultural program (Concert: Folklore ensemble of GTU) 16:00 – 17:00

Bus transfer from GTU to Hotel Orion i 17:15 – 17:45

Dinner (Restaurant close to Hotel, Chavchavadze Ave.) 19:00 – 22:00

Day 3: Wednesday, 11th September – Bus transfer from Tbilisi to Kutaisi 11:00 – 14:30

Arrival/accommodation at KIU, City Tour, Welcome Reception (at KIU 19:00) 15:00 – 21:00

Day 4: Thursday, 12th September (KIU, acting hall)

- Scientific Workshop-

Plenary Session 1: Welcome Addresses (Chair: Vakhtang Tsagareli (KIU))	10:00 – 10:30
• Christian Richter (HZDR): Hadron Therapy	10:30 – 11:00
• Martin Wiesmann (RWTH): Medical Imaging	11:00 – 11:30
• Revaz Shanidze: HTC Project at KIU	11:30 – 12:00
Interviews/TV media/Photos/Coffee break/Snacks	12:00 – 12:45
Plenary Session 2: HTC Related Topics (Chair: Sebastian Schmidt (HZDR))	
• Alexandra Wronska (Cracow): Cracow Hadron Therapy Project	12:45 – 13:05
• Zara Bagdasarian (Varian): Advancing Precision Oncology	13:05 – 13:25
• Martin Kreller (HZDR): Radionuclide Production at HZDR	13:25 – 13:45
• Christoph Lerche (FZJ): PET and PET/MR in Neuroscience	13:45 – 14:05
• Natia Beriashvili (FZJ/GTU): Motion correction for BrainPET imaging	14:05 – 14:15
Lunch break	14:15 – 15:00
Plenary Session 3: Ongoing GGSB Projects (I) (Chair: Jon Shah (FZJ))	
• Jon Shah (FZJ): SMART Biomedical Imaging Lab at KIU	15:00 – 15:20
• Otari Gokhadze/Heike Endepols (FZJ/UniKoeln): PET Tracer Development	15:20 – 15:40
• Robert Wegener (FZJ): Air Quality in European Cities – The net4cities Project	15:40 – 16:00
• Giorgi Jibuti (TSU): Atmospheric Research at SMART AtmoSim_Lab	16:00 – 16:20
• Nana Khundadze (FZJ/TSU): Climate Research at FZJ & perspectives at TSU	16:20 – 16:40
Dinner (Restaurant “Argo”, Kutaisi)	19:00 – 22:00

Day 5: Friday, 13th September (KIU, acting hall)

- Scientific Workshop-

Plenary Session 4: Ongoing GGSB Projects (II) (Chair: Ramaz Botchorishvili (KIU))	
• Stefan Kesselheim (FZJ): High Performance Computing & Machine Learning	10:00 – 10:30
• Dimitri Iosebadze, Tsothe Mikadze, Lasha Shavgulidze (KIU students): Computational Modelling for Motion Canvas Pictures	10:30 – 11:00

• Fabian Theis (Helmholtz Institute of AI): AI for Science (via online video)	11:00 – 11:30
Coffee break	11:30 – 12:00
• Achim Stahl (RWTH): Einstein Telescope Project	12:00 – 12:20
• David Arutinov (FZJ): Electronics Developments at Jülich	12:20 – 12:40
• Giorgi Kakabadze (FZJ/AUG): Image Quality of Optical Systems	12:40 – 13:00
• Roland Bol (FZJ): Environmental Projects (Tereno and SoilCan Initiatives)	13:00 – 13:20
• Maia Batsatsashvili (FZJ/ISU): Environmental Research (recent results)	13:20 – 13:30
Lunch break	13:30 – 14:00
Plenary Session 5: Future Opportunities and Summary (Chair: Revaz Shanidze (KIU))	
• Yuri Litvinov (GSI): FAIR - The Universe in the Lab	14:00 – 14:20
• George Mamatsashvili (HZDR): Abastumani Observatory on MHD Instabilities	14:20 – 14:40
• George Dalakishvili (ISU): Study of Near Space Processes	14:40 – 15:00
• Dieter Grzonka (GSI/FZJ): HADES and CBM Experiment - Preparations at GSI	15:00 – 15:20
• Dachi Okropiridze (Bochum Uni): Recent Results from the CBM Activities	15:20 – 15:30
• David Lordkipanidze (Georgian National Museum): Can Biocultural Heritage Become a Competitive Advantage for Georgia?	15:30 – 15:50
• Jon Shah (FZJ): Summary of GGSB'24	15:50 – 16:00
Cultural program (Excursion to Vani Archaeological Museum)	16:30– 19:00
Dinner (Khareba Winery “Vartsikhe Krakhuna”)	19:30 – 22:00
Day 6: Saturday, 14th September – Bus transfer from Kutaisi to Tbilisi (Departure at 11:00)	