

GGSB2022 – Kutaisi and Tbilisi

Sunday, September 11 (KIU, Kutaisi)

Arrival, Campus Tour & Welcome Reception at KIU

[19:00 – 21:00]

Monday, September 12 (KIU, Kutaisi)

- GGSB Follow-Up -

Opening Session: Welcome & Opening Addresses [Convener: Alexander Tevzadze]

[11:00 – 11:30]

Alexander Tevzadze (Rector KIU)

Mikheil Chkhenkeli (Minister of Education and Science of Georgia)

Sebastian Schmidt (Scientific Director HZDR)

Ghaleb Natour (Director ZEA-1, FZJ), Thomas Stöhlker (Deputy Science Director, GSI; Director HIJ)

Gebhard Reul (Head DAAD Regional Office Tbilisi) [tbc]

Session 1: Georgian-German Science Bridge (GGSB) [Convener: Mikheil Chkhenkeli]

[11:30 – 13:00]

- Hans Ströher Georgian-German Science Bridge (GGSB): Retrospective
- N. Jon Shah Georgian-German Science Bridge (GGSB): Prospective GGSB-PLUS
- Sebastian Schmidt New German Partner: Helmholtzzentrum Dresden-Rossendorf (HZDR)
- Thomas Stöhlker New German Partner: GSI Helmholtzzentrum für Schwerionenforschung
- Possible New German University Partners: Example Jena University
- Achim Stahl Possible New German University Partners: Example RWTH Aachen Univ.
- Tamar Lominadze Consortium of the Georgian Universities: Example GTU
- Zaza Metreveli Consortium of the Georgian Universities: Example AUG

Lunch break [13:00 – 14:00]

Session 2: Guiding Ideas: Scientific & Societal Challenges [Convener: Hans Ströher]

[14:00 – 16:00]

- Jim Ritman Fundamental Science
- Andreas Wahner Climate Change
- N. Jon Shah Biomedical Imaging
- Wolfgang Enghardt Proton Therapy Dresden
- Hanno Scharr High Performance Computing OR Machine Learning

Coffee break [16:00 – 16:30]

KIU International Advisory Board Meeting (internal)

[16:00 – 17:30]

In parallel: Poster Session for Students [Convener: Ramaz Botchorishvili]

- Opportunities for students in frame of GGSB:
Eva Portius (FZJ), Ghosh Pradeep (GSI), Sandra Hamann (HZDR) [tbc]

Dinner (Restaurant *Chateau Gelati*)

[19:00 – 21:00]

GGSB2022 – Kutaisi and Tbilisi

Tuesday, September 13 (KIU, Kutaisi)

– GGSB Strategic Focus –

Plenary Session 3: GGSB-PLUS [Convener: NN]

[9:30 – 11:00]

- N. Jon Shah Biomedical Imaging Modalities in GGSB-PLUS
- Bernd Neumaier Medical Diagnostics: Radiotracers
- Nugzar Kalandarishvili Medical Treatment: Radiotherapy [tbc]
- Maia Topeshashvili Medical Treatment: Radiology [tbc]

Coffee break [11:00 – 11:30]

Plenary Session 4: GGSB Future (I) [Convener: NN]

[11:30 – 13:00]

- Vakhtang Tsagareli Hadron Therapy Center (HTC): Implementation & Status
- Revaz Shanidze Hadron Therapy Center (HTC): Introduction
- Jürgen Fassbender Ion Beam Center @ HZDR – from basic science to industr. application
- Peter Kaever Controlling Advanced Experiments (part I)
- Gerald Wedel Controlling Advanced Experiments (part II)

Lunch break [13:00 – 14:30]

Plenary Outreach Session: Public Lecture

[45 min]

- Roberto Orecchia Hadron Therapy

Cultural program (Excursion including dinner in the city)

[17:00 – 21:00]

GGSB2022 – Kutaisi and Tbilisi

Wednesday, September 14 (KIU, Kutaisi)

Plenary Session 5: GGSB Future (II) - SMART|Labs [Convener: NN]

[10:00 – 12:00]

- N. Jon Shah/Ramaz B. SMART|Bioimaging_Lab: Imaging part
- B. Neumaier/Bezhan Ch. SMART|Bioimaging_Lab: Chemistry part [tbc]
- Hanno S./Ramaz B. SMART|Data_Lab: Machine Learning at KIU
- Christian Schmidt SMART|Detector_Lab at GSI [tbc]
- Stefan van Wassen SMART|Digital_Lab: Electronics part [tbc]
- Ghaleb Natour SMART|Tech_Lab: Engineering part [tbc]
- Hans Ströher Vision: Georgian Science and Technology Center (GSTC)

Lunch break [12:30 – 14:00]

Wednesday (afternoon, 15:00 – 18:00), September 14, 2022

Transfer from Kutaisi to Tbilisi (hotel Orion)

GGSB2022 – Kutaisi and Tbilisi

Thursday, September 15 (TSU, Tbilisi)

– GGSB at Georgian Partner Universities –

Plenary Session 6: Existing and Future SMART|Labs [Convener: NN] [9:30 – 11:00]

- Welcome addresses: Nino Okribelashvili (Vice Rector of TSU)
NN (German Embassy in Tbilisi) [tbc]
Thomas Stöhlker (Director of Helmholtz Institute Jena) [tbc]
- David Mchedlishvili SMART|EDM_Lab: Science Case – Search for EDMs and DM
- Otari Javakhishvili Contributions to the SMART|EDM_Lab
- Dachi Okropiridze Contributions to the SMART|Detector_Lab (at GSI)
- Giorgi Jibuti SMART|AtmoSim_Lab: Science Case – Atmospheric Chemistry
- Iulia Gensch Contributions to the SMART|AtmoSim_Lab

Coffee break [11:00 – 11:30]

- N. Jon Shah SMART|Biolmaging_Lab: Science Case – Medical Diagnostics
- Bernd Neumaier SMART|Biolmaging_Lab: Science Case – Radiotracers
- Heike Endepols SMART|Biolmaging_Lab: Small animal PET imaging (Univ. Cologne)
- David Arutinov SMART|Digital_Lab: Background – Technology for Research
- Harald Glueckler SMART|Tech_Lab: Background – Technology for Research
- Christian Schmidt SMART|Detector_Lab: Contributions to GSI/FAIR Projects
- Hanno Scharr SMART|Data_Lab: Background – Machine Learning

Lunch break [13:00 – 14:30]

Plenary Session 7: Student Activities at SMART|Labs [Convener: Andro Kacharava]

[14:30 – 16:00]

- Ninea Anasovi Contribution to the SMART|EDM_Lab
- Lia Karadurmus Contribution to the SMART|AtmoSim_Lab
- Nana Khundadze Contribution to the SMART|AtmoSim_Lab
- Otari Gokhadze Contribution to the SMART|Biolmaging_Lab
- Tamar Khatisashvili Contribution to the SMART|Biolmaging_Lab
- Natia Beriashvili Contribution to the SMART|Biolmaging_Lab
- Tamar Khechiashvili Experience as a Medical Physicist at the *National Center of Surgery*

Visit of National Center of Surgery in Tbilisi (Tamar Khechiashvili) [16:00 – 17:00]

Visit of Institute of Morphology TSU in Tbilisi (Dimitri Kordzaia) [17:00 – 18:00]

Dinner (Restaurant *Paemani Veraze*) [19:30 – 21:30]

GGSB2022 – Kutaisi and Tbilisi

Friday, September 16 (TSU, Tbilisi)

- School Part: Student Presentations -

Plenary Session 8: (about 25) Student Presentations

[9:30 – 11:00]

Introduction:

- Ghosh Pradeep *GET_INVolved Program at GSI*
- Eva Portius *3rd QUALI-Start-Up Lectures (planned in 2023) at FZJ*

Convener: Zaza Metreveli (AUG, Mechanical and Electrical Engineering)

- Engineering (AUG): Nika Putkaradze, ...
- Physics (TSU): Revaz Beradze, Medea Abramishvili

Coffee break [11:00 – 11:30]

Convener: Bezhan Chankvetadze (TSU, Chemistry)

[11:30 – 13:00]

- Chemistry -I (TSU): NN students ...
- Chemistry – II (TSU) NN students ...

Lunch break [13:00 – 14:30]

Convener: Dimitri Kordzaia (TSU, Medical Faculty)

[14:30 – 16:00]

- Merab Chanturia, Alexander Kordadze, Tornike Gogolauri, Nodar Khvedelidze (et al.,)

Convener: Mikheil Chikhradze (GTU, Engineering physics department)

- Nini Kvintradze, Ana Palavandishvili, Mariam Ghvaladze

Coffee break [16:00 – 16:30]

- Summary GGSB2022 -

Plenary Session 9: Next Steps

[16:30 – 17:30]

- Hans Ströher/Andro Kacharava Conclusions and Outlook