

# 3<sup>rd</sup> Cooperation Workshop – Agenda

*Joint Research and Education Program*

**“Palestinian-German Science Bridge PGSB”**

*Forschungszentrum Jülich GmbH & Palestine Academy for Science and Technology*

*25 – 29 June 2018, Jülich*

*The main goal of the workshop is to form new and strengthen existing cooperations, and in particular to meet thesis candidates and co-supervisors from the 3<sup>rd</sup> Call for Thesis Project Requests, to strengthen a joint research and education, and in particular to arrange mutual meetings between faculty members of Palestinian universities interested in establishing a long-term cooperation with researchers in Jülich. Reporting of successful cooperations will also be highlighted in this program.*

**Date: Sunday, 24 June – arrival**  
*Airport pick-up arranged through advanced request*

**Date: Monday, 25 June – Opening remarks and progress reports**  
**Venue: ZB Hörsaal, FZ Jülich**

**08:00**      ***Bus from hotel to Forschungszentrum Jülich, ZB***

**10:00**      ***Formal opening and welcome addresses***

**Forschungszentrum Jülich GmbH (FZJ)**

*Prof. Dr.-Ing. Harald Bolt, Member of the Board of Directors of Forschungszentrum Jülich*

**Federal Ministry of Education and Research (BMBF)**

*Frithjof A. Maennel, Deputy Director-General, International Cooperation in Education and Research  
Julie Klein, Deputy Head of Division (212) – Cooperation with Developing Countries, Africa and the Middle East*

**Palestine Academy for Science and Technology (PALAST)**

*Prof. Marwan Awartani, President of Palestine Academy for Science and Technology  
Prof. Rana Samara, Dean of Graduate Studies and Scientific Research, Palestine Technical University Kadoorie (PTUK)*

**Palestinian-German Science Bridge (PGSB)**

*Prof. Dr. Ghaleb Natour, Director, Central Institute of Engineering, Electronics and Analytics (ZEA-1)  
Forschungszentrum Jülich GmbH (FZJ)*

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**10:40**      **Cooperation Reports**

**Beam Position monitors for Storage Rings**

*Falastine Abu Saif, Prof. Hans Stroehler (FZJ, IKP-2) and Prof. Salman M. Salman (Al-Quds University)*

**10:55**

**Neutron and synchrotron radiation measurements on materials for magnetocoloric cooling**

*Nour Maraytta, Dr. Karen Friese (FZJ JCNS-2) and Prof. Salman M. Salman. (Al-Quds University)*

**11:10**

**Group photo and coffee break**

**Cooperation reports, cont'd**

**11:45**

**Features extraction in resting state brain activity based on new machine learning methods**

*Asma Sbaih, Dr. Jürgen Dammers (FZJ INM-4) and Dr. Ahmad Hasasneh (Palestine Ahliya University)*

**12:00**

**Human-based architectural design of buildings**

*Ghadeer Derbas, Dr. Mohcine Chraibi (FZJ, IAS-7) and Prof. Sameer Abu-Eisheh (An-Najah National University)*

**12:15**

**Sustainable power solution from monolithic integrated PV-battery**

*Mohammed Jaber, Dr. Tsvetelina Merdzhanova (FZJ, IEK-5) and Dr. Tamer Khatib (An-Najah National University)*

**12:30**

**Simulations of Charged Nanoparticles at Lipid-Bilayer Membranes**

*Sameh Othman, Dr. Thorsten Auth, Prof. Gerhard Gompper (FZJ, ICS-2) and Dr. Abdallah Sayyed-Ahmad (Birzeit University)*

**12:45**

**Exploring algae fertilization potential by measuring algae exudation in water and soil**

*Dr. Christina Schreiber, Dr. Ladislav Nedbal (FZJ, IBG-2), Prof. Radwan Barakat (Hebron University) and Dr. Rami Arafeh (Palestine Polytechnic University)*

**13:00**

**Lunch**

**Cooperation reports, cont'd**

**14:30**

**New concepts for private mobility in Palestine – Economic incentives and fiscal consequences**

*Abdelnaser Dwaikat, Dr. Wilhelm Kuckshinrichs (FZJ, IEK-STE) and Prof. Sameer Abu-Eisheh (An-Najah National University)*

**14:45**

**Simulating the aggregation of Alzheimer's amyloid-beta peptide**

*Dr. Bogdan Barz and Prof. Birgit Strodel (FZJ, ICS-6)*

**15:00**

**The effect of agriculture in soil genesis and formation in Battir Village (Bethlehem, Palestine)**

*Mahmoud Zaid, Prof. Roland Bol (FZJ, IBG-3) and Dr. Mutaz Qutob (Al-Quds University)*

**15:15**

**Raman spectroscopy of liquid phase crystallized solar cells**

*Dr. Maurice Nuys (FZJ, IEK-5) and Prof. Othman Zalloum (Palestine Polytechnic University)*

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- 15:30** Development of Durable Cathodes for All-Solid-State Lithium Ion Batteries  
*Fadi Shaheen, Dr. Robert Mücke (FZJ, IEK-1) and Prof. Salman M. Salman (Al-Quds University)*
- 15:45** High performance computer simulation of non-equilibrium spin-orbit physics at high frequencies  
*Hanan Hamamera, Prof. Samir Lounis (FZJ, IAS-1) and Prof. Salman M. Salman (Al-Quds University)*
- 16:00** 3-dimensional model systems for neuronal network formation and blood-brain barrier development  
*Dr. Bernd Hoffmann, Jella Abraham (FZJ, ICS-7) and Dr. Feras Al Battah (Arab American University - Jenin)*
- 16:15** Multimodal MEG, MRI and PET data fusion for early Alzheimer's disease diagnosis  
*Hasan Sbaihat, Prof. Irene Neuner (FZJ, INM-4) and Dr. Abd Al-Nasser Assi (Arab American University – Jenin)*
- 16:30** Mechanical Engineering Workshop  
*Prof. Ghaleb Natour and Dr. Harald Glückler (FZJ, ZEA-1)*
- 17:00** *Poster session*
- 18:00** *Transfer to hotel*
- 19:00** *Dinner in Jülich, Trattoria Rossini* [www.trattoria-rossini.com](http://www.trattoria-rossini.com)

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**Date:** **Tuesday, 26 June**  
**Working groups in institutes – Institute Tour for Steering Committee / Advisory Committee members**

**Venue:** **Scientific institutes throughout Jülich campus: Meeting Point: ZB Foyer**

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- 08:30** *Bus from hotel to Forschungszentrum Jülich, ZB*
- 09:00** *Meeting point with coffee, ZB Foyer*
- 10:00** *Distribution within institutes, Campus tour for Steering Committee*
- 17:00** *Bus from Forschungszentrum Jülich ZB to hotel*

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**Date:** Wednesday, 27 June – Working groups in institutes – Future cooperations  
**Venue:** Scientific institutes throughout Jülich campus: Meeting Point: ZB Foyer

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**08:30** *Bus from hotel to Forschungszentrum Jülich, ZB*  
**09:00** *Meeting point with coffee, ZB Foyer*  
**09:30** *Distribution within institutes*  
**13:00** *Business meeting hosted by the Advisory Committee and Steering Committee: PGSB and beyond – Plans and perspectives for follow-up activities (open to staff and faculty members)*  
**18:00** *Dinner at Seecasino, Room Hambach*  
**21:00** *Bus from Forschungszentrum Jülich to hotel*

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**Date:** Thursday, 28 June  
**Working groups in institutes – poster/interview session for thesis applications**  
**Venue:** Scientific institutes throughout Jülich campus, ZB

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**08:30** *Bus from hotel to Forschungszentrum Jülich, ZB*  
**09:00** *Meeting point with coffee, ZB Foyer*  
**09:30** *Distribution within institutes*  
**12:00** *Light Lunch at ZB*  
**13:30** *Setup for poster presentations*  
**14:00** *Poster Session – applicants – ZB Foyer*  
**18:00** *Bus from Forschungszentrum Jülich ZB to hotel*

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**Date:** Friday, 29 June – Advisory committee meeting and student meeting  
**Venue:** ZB Room 327, Student meeting ZB Room 338, Forschungszentrum Jülich

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**08:30** *Bus from hotel to Forschungszentrum Jülich*  
**09:00** *Advisory committee meeting (ZB 327) / Student meeting (ZB 338)*  
**12:00** *Lunch in Jülich Faculty Club*  
**14:00** *Bus from FZ Jülich to cultural program*  
**15:00** *Cultural Program and dinner at El Toro Steakhouse [el-toro-juelich.com](http://el-toro-juelich.com)*

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**Date:** Saturday, 30 June 2018 · Departure

**Transfer from hotel to airport arranged per advanced request**

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