



4th Cooperation Workshop - Agenda

Joint Research and Education Program

“Palestinian-German Science Bridge PGSB”

Forschungszentrum Jülich GmbH & Palestine Academy for Science and Technology

6-11 April 2019

**Palestine Red Crescent Society, main Building, Al Bireh- Ramallah
In conjunction with Al Aqsa University, Gaza via videoconference**

The main goal of the workshop is to form new and strengthen existing cooperation, to meet thesis candidates and co-supervisors from the 4th Call for Thesis Project Requests, to discuss plans and perspectives for follow-up activities, and in particular to arrange mutual meetings between faculty members of Palestinian universities interested in establishing long-term cooperations with researchers in Jülich.

Saturday, 6 April · Arrival

Date: Sunday, 7 April – Formal opening and plenary program
Hall: Ground floor

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| 08:00-08:30 | Transfer from Hotel |
| 08:30-09:00 | Registration |
| 09:00-10:30 | Formal opening and welcome addresses-Moderator: Dr. Samer Jarrar |
| 09:00-09:10 | Palestine Academy for Science and Technology, Prof. Marwan Awartani |
| 09:10-09:20 | Ministry of Education and Higher Education (MoEHE), H. E. Dr. Sabri Saidam |
| 09:20-09:30 | German Federal Ministry of Education and Research (BMBF), Dr. Katharina Gatzsche |
| 09:30-09:40 | Forschungszentrum Jülich GmbH, Prof. Dr. -Ing. Wolfgang Marquardt |
| 09:40-09:50 | PGSB achievements and outlook, Dr. Cate Morgan, Prof. Dr. Ghaleb Natour |
| 09:50-10:15 | Awarding of Certificates for completed MSc projects |
| 10:15-10:30 | Group picture |
| 11:00-11:30 | Coffee break |
| 11:00-12:30 | Success Stories and Cooperation Highlights – Moderator: Dr. Rana Samara |
| 11:00-11:20 | Jürgen Dammers, Irene Neuner, Christoph Lerche, Ahmad Hasasneh , Hussein AlMasri, Abdul-Rahman Sawalma, Ahlam Issa, Nibal Khudeish: The Palestinian German Neuroscience Project – Aims and Perspectives |
| 11:20-11:40 | Karen Friese , Salman Salman, Andrzej Grzechnik, Jörg Voigt, Nour Maraytta, Sabreen Hammouda, Asma Qdemat, Kinan Al-Namourah, Mohammad Maswada, Emanuel Kentzinger, Manuel Angst: Palestinian-German cooperation at Jülich Centre for Neutron Science: the role of neutron, synchrotron and high field experiments |
| 11:40-12:00 | Christina Kuchendorf, Silvia Schrey, Sharaf AlTardeh The PalGer COMPASSES cooperation - nutrient transfer to Palestinian barley cultivars under difficult soil conditions |

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| 12:00-12:15 | Mohammed Herzallah Thomas Brückel Arnd Kuhn Heba Fatafta (ICS-6 and BZU), Abdallah Sayyed-Ahmad (BZU), Birgit Strodel (ICS-6 and HHU Düsseldorf): Unraveling the interactions between Alzheimer's peptide and lipid membranes |
| 12:15-12:30 | Open discussion |
| 12:30-13:30 | Lunch |
| 13:30-16:30 | <i>Management meeting / High level meeting (ministry representative, university presidents, chairman of Jülich board, directors etc.)- Moderated by Prof. Marwan Awartani and Prof. Ghaleb Natour</i> |
| 13:30-14:00 | Short introduction of participants |
| 14:00-16:30 | <ul style="list-style-type: none"> • Dr. Samer Jarrar Results of Project Evaluation, • Prof. Dr.-Ing. Wolfgang Marquardt: The “Jülich Model” and JARA as special examples for structured cooperation between a national research centre and universities • Alexandra Rosenbach, Helmholtz Association of German Research Centers HGF: The internationalization strategy and funding instruments for international cooperation of the Helmholtz Association of German Research Centers • Dr. Ali Abdelhamid, An Najah University, An Najah University's experience with PhD programs in Palestine • Dr. Andro Kacharava, Experience with first SMART Labs of the Georgian-German Science Bridge • moderated discussion |
| 16:30 | Transfer to hotel |
| 18:00-20:00 | <i>Cultural & Entertainment Evening at Ramallah City Hall</i> |

Date: Monday, 8 April *Progress reports and new project plans*
Hall: Ground floor (Hall 1, Hall 2, Hall 3)

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| 08:00-08:30 | Transfer from Hotel |
| | <i>New cooperation opportunities</i> |
| 08:35-09:00 | Dr. Kamal Alaraj , Vice Chairman, Jordan Atomic Energy Commission, Jordan, Introduction to SESAME Collaboration Dr. Giorgio Paolucci , Scientific Director, SESAME Jordan, Presentation of SESAME |
| 09:00-09:15 | Ghaleb Natour (ZEA-1), Harald Glückler (ZEA-1): Challenges in the development of scientific devices and equipment |
| 09:15-09:30 | Hans Ströher (IKP-2): Research opportunities in Particle and Nuclear Physics |
| 09:30-09:45 | Bernd Neumaier (INM-5): Research opportunities in Nuclear Chemistry |
| 09:45-10:00 | Coffee break |
| | <i>Progress reports of ongoing cooperation projects</i> |
| | <i>Hall 1: Technical Sciences</i> Chair: Prof. Dr. Thomas Brückel , Co-Chair: Dr. Muayad Abu Saa |
| 10:00-10:15 | Occupant behavior integration into building design process and performance simulation Mohcine Chraibi (IAS-7), Sameer Abu-Eisheh (ANU), Ghadeer Derbas (IAS-7) |
| 10:15-10:30 | Experimental investigation of gender influence on the fundamental diagram for pedestrian dynamics Rudina Subaih, Mohammed Maree (AAUP), Mohcine Chraibi (IAS-7) |
| 10:30-10:45 | Effect of the anisotropical material behavior of LiCoO ₂ on the stress state of Lithium ion battery cathodes Robert Mücke (IEK-1), Ashraf Hadoush (PTUK), Fadi Shaheen (IEK-1) |
| 10:45-11:00 | Raman Spectroscopy analysis of silicon precursor layers for liquid phase crystallized solar cells Uwe Rau (IEK-5), Othman Zalloum (PPU), Suheir Nofal (IEK-5, PPU) |
| 11:00-11:15 | A Rogowski-type Beam-position Monitor for JEDI at COSY Hans Ströher (IKP-2), Falastine Abusaif (IKP-2) |
| 11:15-11:30 | Hyperfine fields of magnetic adatoms on MgO/Ag (001) Sufyan Shehada (IAS-1/PGI-1), Manuel dos Santos Dias (IAS-1/PGI-1), Filipe Souza Mendes Guimaraes (IAS-1/PGI-1), Samir Lounis (IAS-1/PGI-1), Muayad Abusaa (AAUP) |
| 11:30-11:45 | Magnetization and magnetocaloric effect in MnFe ₄ Si ₃ Nour Maraytta (JCNS-2/PGI-4), Vladimir Hutanu (RWTH), Yurii Skourskii (Helmholtz- Zentrum Dresden-Rossendorf), Jörg Voigt (JCNS-2/PGI-4), Karen Friesse (JCNS-2/PGI-4), Markus G. Herrmann (JCNS-2/PGI-4), Jörg Persson (JCNS-2/PGI-4), Salman Salman (AQU), Thomas Brückel (JCNS-2/PGI-4) |
| 11:45-12:00 | Lu ₂ Fe ₃ O ₇ : a quest for ferroelectricity by charge order Sabreen Hammouda (JCNS-2/PGI-4), Manuel Angst (JCNS-2/PGI-4) |
| | <i>Hall 2: Plant and Geosciences</i> Chair: Dr. Ladislav Nedbal , Co-Chair: Prof. Shehdah Jodeh |
| 10:00-10:15 | Towards establishing pilot algae turf scrubber to treat waste wafer effluents: lessons learned from the 2018 PGSB workshop in Hebron Rami Arafah (PPU), Loay Alshawamreh (IBG-2), Steven Calahan (IBG-2), Christina Kuchendorf (IBG-2), Silvia Schrey (IBG-2), Ladislav Nedbal (IBG-2) |
| 10:15-10:30 | Parent materials, red colors and weathering intensities of soils in Palestine and Jordan Bernhard Lucke (FAU Erlangen), Roland Bol (IBG-3), Mutaz Qutob (AQU), Mahmoud Zaid (IBG-3) |
| 10:30-10:45 | The effectiveness of modified light expanded clay for the removal of nitrate and phosphate from groundwater when integrated within constructed wetlands systems Roland Bol (IBG-3), Mohannad Jazzar (HU), Rawan Mlih (IBG-3) |

Hall 3: Life Sciences and Neurosciences

Chair: **Prof. Dr. Bernd Neumaier**, Co-Chair: **Dr. Hussein Almasri**

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| 10:00-10:15 | Nanoparticle-membrane interaction: the effect of electric charge Thorsten Auth (ICS-2), Abdallah Sayyed-Ahmad (BZU), Sameh Othman (ICS-2, BZU) |
| 10:15-10:30 | Neuronal differentiation and network formation depending on mechanical signals and function Bernd Hoffmann (ICS-7), Feras Fayed Al Battah (AAUP), Samar Tarazi /ICS-7), Mahmoud Ardah (ICS-7, AAUP) |
| 10:30-10:45 | New pharmacological strategy for breaking the cellular membrane barriers and improving drug delivery efficiency Agnes Csiszar (ICS-7), Yousef Najajreh (AQU) |
| 10:45-11:00 | Development of a dedicated brain phantom for hybrid PET-MRI acquisition Simone Beer (INM-2), Ghaleb Natour (ZEA-1), Lotfi Talalwa (ZEA-1) |
| 11:00-11:15 | Trimodal imaging MR-PET-EEG Irene Neuner (INM-4), Abed Al-Naser Assi (AAUP), Hasan Sbairhat (INM-4) |
| 11:15-11:30 | Multimodal Data Integration Irene Neuner (INM-4), Mohammad Herzallah (AQU), Nibal Khudeish (INM-4) |
| 11:30-11:45 | Evaluation of a next-generation brain PET insert UHR MRI with an improved spatial resolution, axial field of view and sensitivity Ahlam Issa (INM-4), Christoph Lerche (INM-4), Husein AlMasri (AQU) |
| 11:45-12:00 | Deep learning in neuroimaging Jürgen Dammers (INM-4), Ahmad Hasasneh (PAU) |
| 12:30-13:30 | Lunch |
| 13:30-16:00 | Round table networking session/ EXPO |
| 16:30 | Transfer to Hotel |

Date: Tuesday 9 April – *Poster presentation and assessment for shortlisted applicants / Networking Day*

Hall: Roof 11th floor

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| 08:00-08:30 | Transfer from Hotel |
| 09:00-12:30 | <i>Poster presentation and assessment for shortlisted applicants</i> |
| 12:30-13:30 | Lunch |
| 13:30- 15:00 | <i>Continuation: Poster presentation and assessment for shortlisted applicants</i> |
| 15:00-16:30 | <i>Business meeting of the Advisory Committee and Steering Committee and Jülich Delegation on “PGSB and beyond – Plans and perspectives for follow-up activities</i> |
| 15:00-16:30 | Parallel session: <i>Networking Session for students and newly associated scientists</i> |
| 16:30 | Transfer to hotel |

Date: Wednesday, 10 April – *Evaluation of fellowship applications and acceptance decision - Culture Day - Networking Day*

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| 09:00-09:30 | Transfer from Hotel |
| 09:30-12:30 | <i>Evaluation of fellowship applications and decision on acceptance by the Advisory Committee</i> |
| 12:30-13:30 | Lunch <i>Networking Day</i> |

Date: Thursday, 11 April - Departure

Transfer from hotel to airport