German-Israeli Cooperation in Water Technology Research
Status Conference 2019
September 24 - 25, 2019, Dresden

Registration
Please register at:
ptka.kit.edu/status-conference-2019-
german-israeli-cooperation-in-water-technology-
research-2277.html
Deadline: September 13, 2019
Participation is free of charge.

Conference Venue
Hotel Pullman Dresden Newa
Prager Strasse 2c
01069 Dresden, Germany
Phone: +49 (0) 35148140
accorhotels.com/gb/hotel-1577-pullman-
dresden-newa/index.shtml
A block of hotel rooms has been reserved for conference attendees at a special discount rate (89 € per night, subject to availability). Room reservations can be made via the registration website.

Young Scientists
Young scientists can apply for the Young Scientist Exchange Program (YSEP). YSEP is an open call for young scientists for a training period in Israel or Germany for up to 6 months, but no less than 1 month. Funding will be provided to cover all necessary expenses of the applicant's visit abroad. For further information please refer to:
ptka.kit.edu/bekanntmachungen-1733.html
cogeril.de

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The German-Israeli Cooperation in Water Technology Research

The bilateral cooperation in water technology was established already in 1974. Since then, more than 150 projects with Israeli and German partners have led to trusted relations between Israeli and German researchers.

The objectives of the German-Israeli Water Technology Cooperation Program are:

- To improve the water situation in Israel, its direct neighbourhood and/or Germany
- To facilitate access to new markets for Israeli and German enterprises in the water and environmental sector
- To support and strengthen bilateral and multilateral cooperation in the water sector as well as facilitate cooperation between science and industry

Focal themes of the 2019 status conference are:

- Aquifer management, groundwater recharge and remediation
- Organic micro-pollutants and pathogens
- Wastewater: recycling, reduction and reuse
- Brine production of desalination processes
- Sustainable Urban Water Management
- Water technologies to reduce agricultural water demand
- Novel sensors and data management for water resources systems

Innovative water technology solutions from Germany and Israel are well recognized around the globe. Israeli exports in the area of water technology are rapidly growing with more than 300 companies and more than 100 start-ups engaged today. And its direct neighbourhood and/or Germany

In future, even stronger efforts are required to respond to the growing pressure on the global water resources. Vital ecosystems have vanished or are at risk. Efficient water technology and its appropriate use are key to reach the Sustainable Development Goal 6 (Ensure availability and sustainable management of water and sanitation for all) of the United Nations. The German-Israeli water technology research cooperation aims to contribute to the SDGs by securing the required innovation.

Further information on the German-Israeli cooperation is available at cogeril.de.

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**Program**

**Monday, September 23, 2019**

Arrival at Hotel Pullman Newa Dresden, Individual Meetings

**Tuesday, September 24, 2019**

09:00 Welcome Notes  
Dr. C. Alecke (BMBF, Bonn)  
M. Ben Sasson (MOST, Jerusalem)

**Session 1: Project Groups 2019 and 2018**

09:15 Wastewater Reuse by High Recovery Feedseeded NF and ISDS (EfflueNF)  
Dr. O. Nir (Ben Gurion University, Sde Boker)  
Prof. M. Wessling (RWTH Aachen)

09:45 Laser-Induced Graphene Spacers for Low Energy Desalination (LIG-Feedspacer)  
Dr. C. Arnusch (Ben Gurion University, Sde Boker)  
Prof. Dr. A. Rosenhahn (Ruhr-Universität, Bochum)

10:15 Optimized Nanofiltration for Tertiary Desalination (TertNF)  
Prof. V. Freger (Technion, Haifa)  
Prof. M. Ulbricht (University of Duisburg-Essen)

10:45 Coffee Break and Posters

11:15 Root and Rhizosphere Hydraulic Properties (Rhizosphere)  
Dr. N. Schwartz (Hebrew University of Jerusalem)  
Prof. A. Carminati (University of Bayreuth)

11:45 Introductory Presentations of 5 New Projects Starting in 2019

12:35 Lunch

**Session 2: Project Group 2017**

13:45 Improved Degradation and Enhanced Infiltration Rates in SAT by Hydraulic Manipulation (SATPlanner)  
Prof. N. Weisbrod (Ben Gurion University, Sde Boker)  
Prof. A. Furman (Technion, Haifa)

14:15 Development of a Textile Reinforced Pipe System with Integrated Monitoring Function (SmartPipe)  
Dr. Y. Goldfeld (Technion, Haifa)  
Prof. T. Gries (RWTH Aachen)

14:45 Nanomembranes for Cost-Effective Hybrid Desalination-Filtration of Wastewater (NFCDI)  
Prof. D. Aurbach (Bar-Ilan University, Ramat-Gan)  
N. Wutke (Max Planck Institute for Polymer Research, München)

15:15 Coffee Break and Posters

16:00 Excursion Historic City Center

19:00 Conference Dinner in Historic City Center

**Wednesday, September 25, 2019**

**Session 3: Project Groups 2017 and 2016**

09:00 Closing the Urban Water Loop – Integrated Urban Water and Wastewater Management for Increased Sustainability (CLUWal)  
Prof. E. Friedler (Technion, Haifa)  
Dr. M. Schütze (ifak, Magdeburg)

09:30 Industrial Wastewater and Reuse Process with Near Complete Recovery of Effluent, Nutrients and Energy (AnMBRA)  
Prof. R. Bernstein (Ben Gurion University, Sde Boker)  
Dr. L. Thomsen (Jacobs University Bremen)

10:00 Aquifer Recharge as Sustainable Storage Solution for Desalinated Water (MAR-DSW)  
Prof. A. Bernstein (Ben Gurion University, Sde Boker)  
Prof. C. Schüth (Universität Darmstadt)

10:30 Coffee Break and Posters

11:00 Tracking Effects of Environmental Organic Micro-Pollutants in the Subsurface (TRES)  
Prof. S. Belkin (Hebrew University of Jerusalem)  
Dr. S. Buchinger (Federal Institute of Hydrology (BfG), Koblenz)

11:30 Optimization of Biological Degradation of Emerging Micropollutants and Pathogen Removal in Lowcost Subsurface Treatment Units Based on Novel Chemical and Biological Indicators (OPTI)  
Dr. J. Jadoun (The Galilee Society, Shefa Amr)  
Dr. T. Ternes (Federal Institute of Hydrology (BfG), Koblenz)

12:00 Removal of Inorganic Contaminants from Aqueous Solutions by Novel Hybrid Adsorption/Filtration Processes (AdsFilt)  
Prof. R. Semiat (Technion, Haifa)  
Prof. M. Jekel (TU Berlin)

12:30 Closing Words

12:40 Lunch

13:40 Excursion to Wastewater Treatment Plant Dresden Kaditz

16:10 End of Excursion at Hotel Pullman Dresden Newa