

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



Contact

Project Management Agency Karlsruhe (PTKA)

Dr. Leif Wolf; Dr. Anne Gunkel

Karlsruhe Institute of Technology (KIT)

Hermann-von-Helmholtz-Platz 1

76344 Eggenstein-Leopoldshafen

Germany

Email: leif.wolf@kit.edu; anne.gunkel@kit.edu

Phone: +49 (0) 721 608-28224; -24481

Event Management

Christine Heinig

Email: christine.heinig@kit.edu

Phone: +49 (0) 721 608-26268

Published by

Bundesministerium für Bildung und Forschung / Federal Ministry of Education and Research (BMBF)

Division Resources, Circular Economy; Geosciences
53170 Bonn, Germany

May 2019

Photo credits

Cover: Adobe Stock / deaw59

p. 5: DML-ddpix.de-Kommerziell

Edited by

Project Management Agency Karlsruhe (PTKA), Karlsruhe

Layout

Project Management Agency Karlsruhe (PTKA), Karlsruhe

Printed by

Karlsruhe Institute of Technology (KIT), Karlsruhe

This publication of the Federal Ministry of Education and Research is available free of charge. It is not for sale and may not be used by political parties or groups for electoral campaigning.

bmbf.de



Federal Ministry of Education and Research



Ministry of Science & Technology

German-Israeli Cooperation in Water Technology Research

Status Conference 2019

September 24 - 25, 2019, Dresden



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 in water technology, Germany is among the top countries with the highest export market share worldwide, predicted to grow further.

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.

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 (EffluNF)**
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 (TREES)**
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**