



PADUCO



2019 Leaving no one behind

**PADUCO: Palestinian-Dutch Academic Cooperation on Water**  
**Internal Symposium, 25-26 March 2019,**  
**Law Annex, Birzeit University, Palestine**  
**Program – Final Version**

**25 March 2019**

<b>08:30-09:00</b>	<b>Registration</b>
<b>09:00-09:30</b>	<p><b>Opening Session:</b>  <i>Chairman: Prof. Rashed Al-Sa'ed, Director IEWS, Birzeit University</i>  <i>Prof. Asem Khalil, Vice President for Community Affairs, Birzeit University</i>  <i>Mrs. Floor Nuiten, Deputy Head of Mission, NRO</i>  <i>Dr. Gül Özerol, University of Twente</i>  <i>Eng. Hazem Kittaneh, Director General of Technical Affairs, Palestinian Water Authority</i>  <i>Eng. Issam Nofal, Director General, Agricultural Water &amp; Irrigation, Ministry of Agriculture</i>  <i>Dr. Issa Mousa, Director General, EQA</i></p>
<b>09:30-09:50</b>	<p><b>Keynote Presentation</b>  <b>PADUCO: Past, Present, and Future</b>  <i>Maher Abu-Madi (BZU), Gül Özerol (UT), and Subha Ghannam (NRO)</i></p>
<b>09:50-11:30</b>	<p><b>Session 1: Groundwater Hydrology</b>  <i>Chair: Nidal Mahmoud</i></p>
<b>09:55-10:05</b>	<p><b>GIS Mapping of ground water wells and land use study of the Eocene aquifer zone in Palestine</b>  <i>Nabil Joulani and Nidal Abu Rajab</i></p>
<b>10:05-10:15</b>	<p><b>Hydrological assessment and modelling of the Eocene aquifer based on scarce data, Palestine</b>  <i>Muath Abu Sadah; Mohammad N. Almasri, and Nabil AL-Joulani</i></p>
<b>10:15-10:25</b>	<p><b>Development of optimal pumping strategies for sustainable utilization of Eocene aquifer in West Bank, Palestine</b>  <i>Tanvir Ahmed, Andreja Jonoski, Muath Abu Sadah, and Mohammad Almasri</i></p>
<b>10:25-10:35</b>	<p><b>On-ground N- loading and groundwater Nitrate contamination in the Eocene aquifer, Palestine</b>  <i>Tariq Judeh, Mohammad Almasri, Sameer Shadeed, Nabil Joulani, and Nidal Abu Rajab</i></p>
<b>10:35-10:45</b>	<p><b>Socio-economic Environmental Impact of Spring water in Natuv Catchment / West Bank</b>  <i>Anwar Atta and Marwan Ghanem</i></p>
<b>10:45-11:55</b>	<p><b>Monitoring and Evaluation of Chemical Contamination of Drinking Water from Roof- Top Plastic Storage Tanks in Palestine</b>  <i>Hassan Sawalha, Maher Al-Jabari, Sabreen Hasani, Madleen Dababseh and Razan Al-Sharabati</i></p>
<b>10:55-11:20</b>	<b>Discussion</b>
<b>11:20-11:40</b>	<b>Coffee Break</b>

<b>11:40-13:30</b>	<b>Session 2: Agricultural Water Management</b> <i>Chair: Amer Marei</i>
<b>11:45-11:55</b>	<b>GIS-based water poverty and rainwater harvesting suitability mapping for domestic and agricultural uses in the West Bank, Palestine</b> <i>Sameer Shadeed, Tariq Judeh, and Mohammad Almasri</i>
<b>11:55-12:05</b>	<b>Introducing Feasible and Sustainable Hydro-agriculture Systems to Benefit Poor People in Urban Palestinian Areas</b> <i>Daoud Abusafieh, Munif Doudin, Mahmoud Rahil, Nader Hrimat, Bouke Kappers, and Suhyb Salama</i>
<b>12:05-12:15</b>	<b>Application of irrigation requirement and scheduling of Date Palm trees in the Lower Jordan Valley/West Bank, Palestine</b> <i>Amer Marei</i>
<b>12:15-12:25</b>	<b>Inter-basin -transfer of water in the Lower Jordan Valley to sustain the Date Palm tree sector /Palestine</b> <i>Ben Sonneveld</i>
<b>12:25-12:35</b>	<b>Cross-cutting theme: Improving gender mainstreaming in PADUCO research projects</b> <i>Hanadi Badar, Marwan Ghanem, Gül Özerol, and Vincenzo Paladino</i>
<b>12:35-13:00</b>	<b>Discussion</b>
<b>13:00-14:30</b>	<b>Lunch</b>
<b>14:30-16:45</b>	<b>Session 3: Project Group Meetings</b> Round table discussion for 15 PADUCO projects
<b>17:00</b>	Transport to Ramallah
<b>18:00-20:00</b>	<b>Dinner (Invitation only)</b>

## 26 March 2019

<b>09:00-10:50</b>	<b>Session 1: Industrial Wastewater Management</b> <i>Chair: Nabil Al-Joulani</i>
<b>09:05-09:15</b>	<b>Initial Results from applied integrated practices and technologies for sustainable management of agro-food industrial wastewater in Palestine</b> <i>Rashed Al-Sa'ed</i>
<b>09:15-09:25</b>	<b>Wastewater characterization and investigating cleaner production in leather tanneries in Palestine</b> <i>Maher Al-Jabari, Hassan Sawalha, Eldon Raj, Razan Alsharabaty, and Sawsan Sarsour</i>
<b>09:25-09:35</b>	<b>Characterization and treatment of wastewater from dairy industry in Palestine</b> <i>Hassan Sawalha, Maher Al-Jabari, Nareman Zahde, Dania Aburayyan, Marwa Jbour and Haneen Abufarah</i>
<b>09:35-09:45</b>	<b>Alleviation of environmental impact of wastewater from leather tanning industry</b> <i>Bayan Bsharat, Amer El Hamouz, and Abdelrahim Abu Safa</i>
<b>09:45-09:55</b>	<b>Technical feasibility of applying cleaner production practices in Palestinian leather tanning industries</b> <i>Munya Mas'oud, Abdelrahim AbuSafa, Amer Elhamouz</i>

<b>09:55-10:05</b>	<b><i>Bioremediation of olive mill wastewater (Zibar) and its possible use in agriculture</i></b> <i>Sajida Iwissat, Hikmat Hilal, Ahed Zyoud, Ibrahim Nassar, Mahmoud Rahil, Nabil Shahin, Ruba Abuamsha, Wim Voogt, Katarzyna Kujawa and Mazen Salman</i>
<b>10:05-10:15</b>	<b><i>Remediation of olive oil mill waste liquids (Zebar) into useful irrigation waters</i></b> <i>Ahed Zyoud, Hikmat Hilal, Ibrahim Nassar, Mazen Salman, Mahmoud Rahil, Nabil Shahin, Sajida Ewissat, and Ruba Abuamsha</i>
<b>10:15-10:25</b>	<b><i>Using sunlight for olive mill wastewater treatment in photo enhanced fenton process</i></b> <i>Nabil Shahin, Hikmat Hilal, Ahed Zyoud, Ibrahim Nassar, Mahmoud Rahil, Sajida Iwissat, Ruba Abuamsha, Wim Voogt Katarzyna Kujawa and Mazen Salman</i>
<b>10:25-10:35</b>	<b><i>Reuse of wastewater from the stone industry in production of cast stone</i></b> <i>Nabil Joulani and Riyadh Awad</i>
<b>10:35-11:00</b>	<b><i>Discussion</i></b>
<b>11:00-11:20</b>	<b><i>Coffee Break</i></b>
<b>11:20-13:00</b>	<b>Session 2: Water and Wastewater Treatment</b> <i>Chair: Hasan Abdel Fattah</i>
<b>11:25-11:35</b>	<b><i>Production of nutrient-rich and pathogen-free irrigation water from treated sewage for reuse, using Anaerobic Dynamic Membrane Bio-Reactors</i></b> <i>Nidal Mahmoud</i>
<b>11:35-11:45</b>	<b><i>Pre-Treatment of mixed agro-food industrial wastewaters using advanced chemical oxidation process</i></b> <i>Saja Younes and Rashed Al-Sa`ed</i>
<b>11:45-11:55</b>	<b><i>Quality control of wastewater treatment system with algal photo bioreactor using multivariate data analysis</i></b> <i>Tahseen Sayara, Peter van der Steen, Nawaf Abu-Khalaf, Jebrel HajSaleh, and Saed Khayat</i>
<b>11:55-12:05</b>	<b><i>Restoration of Wadi Zaimer using a pilot instream Phytoremediation system for the reduction of industrial pollution loads from Nablus West, Palestine</i></b> <i>Odai Attili and Rashed Al-Sa`ed</i>
<b>12:05-12:15</b>	<b><i>Brackish water desalination by capacitive electro-dialysis</i></b> <i>Rasem Hasan, Willem van Baak, Emad Khatibzadeh, Patrick Huntjens, J. Otto Kroesen, and Joris Voorhoeve</i>
<b>12:15-12:25</b>	<b><i>Enhance brackish water desalination processes in Gaza Strip: One step reverse osmosis</i></b> <i>Abdelmajeed Nassar</i>
<b>12:25-13:00</b>	<b><i>Discussion</i></b>
<b>13:00-14:30</b>	<b><i>Lunch</i></b>
<b>14:30-16:30</b>	<b><i>PADUCO CMT meeting as well as parallel meetings of PADUCO project teams</i></b>
<b>16:30-17:00</b>	<b><i>Closing</i></b>