

SUNDAY | OCTOBER 14, 2018

18:00 - 21:00

Welcome Event
 Hosted by Israel NewTech, National Water & Energy Program
 The event will give you a chance to meet Israel Water-High-Tech firms
<http://israelnewtech.gov.il/English/Pages/default.aspx>

MONDAY | OCTOBER 15, 2018

Main Hall - GWRI Auditorium

08:00 - 09:00

Registration + Welcome Coffee

09:00 - 09:15

Eran Freidler and Amit Gross - Welcome Note

09:15 - 10:00

Jan Vymazal
 Historical development of subsurface flow constructed wetland technology for wastewater treatment

10:00 - 10:45

Mariska Ronteltap
 Resource Oriented Sanitation - the sanitation of the future

10:45 - 11:00

Coffee Break

Main Hall - GWRI Auditorium

Hall A - Room 407

Hall B - Room 406

M1A - Nutrient removal
Session head - Moshe Herzberg

M1B - Environmental microbiology
Session head - Malka Halpern

MWC - International Standardization of Small WW treatment systems
Session head - Norbert Weissenbacher

11:00 - 12:40

Dobbeleers T. - Evaluation Of The Nitrification-denitrification BNR Granular Sludge Process: Economics Versus Sustainability

Bunce J. - The Environmental And Public Health Impacts Of Decentralized Wastewater Treatment Systems In The UK

Weissenbacher N. - Introduction

Kappa S. - Recovery Of Phosphate From Sludge Reject Water By Applying Chemically Modified Zeolite

Sharaby Y. - Legionella pneumophila populations dynamics in a small drinking-water system in Israel

Doll C. & Abdhulla Z. - ISO Standardisation - approach and recent developments

Pedrouso A. - Autotrophic Nitrogen Removal At Mainstream Conditions In An ELAN® Pilot Plant

Bar Or I. - Environmental Surveillance Searching For Epidemics: From Polio To Hepatitis A

Weissenbacher N. - EN 12566 Series - experiences, recent revisions

Wu G. - Color And Nitrogen Removal From Synthetic Dye Wastewater In An Integrated Hydrolysis/acidification And Anoxic/aerobic Process

Linden K. - UV LEDs For Small Systems: A Revolution In Robust And Effective Disinfection?

Ben Ari Y. - The framework for small wastewater treatment in Isreal - relevance of standards

Malamis S. - Nitrogen removal via nitrite from reject water produced after dewatering of thermally hydrolysed and digested sludge

Sukenik A. - Removal Of Cyanobacteria And Cyanotoxins From Lake Water By Composites Of Bentonite With Micelles Of Organic Cation

Schneider M. - Standardisation in Switzerland - national wastewater treatment guideline

12:40 - 14:00

Lunch Break

Main Hall - GWRI Auditorium

Opening Session

14:00 - 15:20

Attiya H. Executive Vice President for Academic Affairs, Technion, Israel
Rabinovitch O. Dean, Faculty of Civil and Environmental Engineering Technion, Israel
Distel O. Director – Israel NewTech, National Sustainable Energy & Water Program, Ministry of Economy & Industry
Shaham G. Director-general of the Israel Water Authority
Thanikal J.V. Head of the IWA SWWS special group and Associate Dean and Director – School of Construction, RICS School of Built Environment Amity University, India
Adin R. Chairman and President of Israel Water Association (IsWA)

Main Hall - GWRI Auditorium

Hall A - Room 407

Hall B - Room 406

M2A – Bioreactors

Session head - Simos Malamis

M2B - Resource oriented sanitation

Session head - Mariska Ronteltap

M2C - Nutrient removal

Session head - Paula L. Paulo

15:20 - 16:40

Shechter R. - Comparative Analysis Of Local Reuse Efficiency Using Membrane Aerated Biofilm Reactors (MABR)

Wielemaker R. - Identifying And Mapping Urban Nutrient Hotspots

Groenveld T. - Waste To Resource: Optimizing Nitrogen Use Efficiency In An Integrated Aquaculture Agriculture System

Xiao W. - Investigation Of Characteristics Of Activated Sludge In Integrated Fixed-film Activated Sludge (IFAS) Reactor In Presence Of Nanobubbles

Katayama V.T. - Nutrient Recovery From Blackwater By Integration Of Decentralized Membrane-based Treatment With Hydroponic Urban Farming

Aizenberg K. - TAYA Technology For Decentralized Wastewater Treatment

Singh N. - Assessment Of An Integrated Fixed-Film Activated Sludge Reactor Treating Sewage Under Various Operational Conditions In India

Moerland M.J. - Recovery Of Hygienically Safe Nutrients From Black Water Through Hyper-thermophilic Anaerobic Digestion

Ben Zvi Y. - Nitrate Removal From Contaminated Drinking Water Wells

Friedman L. - Simultaneous Nitrogen And Phosphorous Removal In An Energy Efficient MABR Without Internal Circulation

Yahav Spitzer R. - Hydrothermal Carbonization Of Human Excreta - Characterization And Potential Uses

Sasson G. - Biological NO₃- Elimination From Reverse Osmosis Brackish Water Concentrate

16:40 - 16:55

Coffee Break

	Main Hall - GWRI Auditorium	Hall A - Room 407
	M3A - Microorganisms in wastewater <i>Session head - Zeev Ronen</i>	M3B - Decentralized wastewater treatment systems <i>Session head - Terry Lucke</i>
16:55 - 18:35	Champagne P. - The Role Of Algae In The Removal And Inactivation Of Pathogenic Indicator Organisms In Wastewater Stabilization Pond Systems	Brown N. - Sustainable Water And Wastewater Treatment In Rural Scotland Using Arvia's Nyex™ Treatment Process
	Henderson M.B. - Passive Hybrid Adsorption And Biological Treatment Systems For Removal Of Nitrogen And E. Coli From Wastewater	Khurelbaatar G. - Comparison Of Wastewater Treatment Scenarios For Two Semi-arid Settlements In Jordan And Oman.
	Silva G.H.R. - Human Pathogen Removal And Nutrient Recovery From Black Water By Microalgae In A Flat Panel Photobioreactor	Lew B. - Nutrient Removal From Intermittent Micro-aerobic UASB Reactor Treating Sewage
	Herrmann I. - Microorganisms In Sand Filters For On-site Wastewater Treatment	Di Maria F. - A Methodological Approach For Comparing Different Management Systems Of Effluents: The Italian And Israeli Case Studies
	Ronen Z. - Can Recirculate Vertical Flow Constructed Wetland Remove Antibiotic Resistance Bacteria From Greywater?	Schneider M.Y. - Identifying The Performance Of On-site Wastewater Treatment Plants
18:35 - 19:20	SWWS MEETING	ROS MEETING

TUESDAY | OCTOBER 16, 2018

	Main Hall - GWRI Auditorium	Hall A - Room 407
08:45 - 09:00	Good Morning Coffee	
09:00 - 10:40	T1A - Resource oriented sanitation <i>Session head - Mariska Ronteltap</i>	T1B - Water resource management <i>Session head - Martin Anda</i>
	Abdullah S.Z. - Accelerating Innovation Of Community-Scaled Resource-Oriented Faecal Sludge Treatment Through International Standards	Ho G. - Emerging Sustainable Water And Sanitation In Developing Countries
	Lück A. - Enabling Decision-makers To Implement Resource-orientated Sanitation Systems. Definition Of A Set Of Criteria To Evaluate Projects In South Africa And Germany	Espírito Santo L. - Water System Management In Guinea-Bissau - Bafatá Case Study
	Schuetze M. - Simulation And Visualization Of Material Flows In Sanitation Systems For Streamlined Sustainability Assessment	Wirth M. - Drivers Of Municipal Water Supply And Demand: Examining Their Impact On Energy Intensity In Water Utilities In Countries In Africa
	Wolf M. - Constellation Analysis As Methodology For Implementing Resource-Oriented Sanitation In Rural Germany	Peterson L. - Life Cycle Assessment And Life Cycle Costing Of Stormwater Management Scenarios
	Fra-Vázquez A. - Volatile Fatty Acids Production From Cooked Mussel Processing Wastewater At Low PH	Avidar O. - The many facets of sustainability as demonstrated in the water sector in Kosoro village Kenya
10:40 - 10:55	Coffee Break	
	Main Hall - GWRI Auditorium	
10:55 - 11:40	Yoram Cohen Treatment of Impaired Groundwater in Small Remote Communities	
11:40 - 12:40	Posters Presentations - Speed Session	
12:40 - 14:00	Lunch Break + Posters Session + Competition	
14:00 - 14:45	Isam Sabbah Anaerobic treatment in the context of circular economy	

	Main Hall - GWRI Auditorium	Hall A - Room 407	Hall B - Room 406
	T2A - Solids management <i>Session head - Isam Sabbah</i>	T2B - Constructed wetland systems <i>Session head - Jan Vymazal</i>	TWC1 Technical and institutional advances of rainwater/stormwater harvesting systems <i>Session head - Matthew Burns</i>
14:45 - 16:25	Li L. - Dynamic Membrane For Particle Removal With Large Pore Size Mesh In Wastewater Treatment	Larriva J. - Assessment Of Chemical Oxygen Demand (COD) Fractions Removal In Horizontal Subsurface Flow Constructed Wetlands In Ecuador	Burns M.J. - Opening note
	Kraytsberg A. - A Development Of Forward Osmosis Desalination Technique	Lucke T. - Quantifying Nutrient Uptake By Constructed Floating Wetland Plants Used To Treat Urban Stormwater Runoff	Mrowiec M. - Potentials of rainwater harvesting and utilization in educational buildings
	Körgmaa V. - Factors Affecting SVI In Small Scale WWTPs	Zhao Y. - Constructed Wetland For Phenolic Wastewater Treatment: Realizing Its Potential Application In Decentralized Industrial Effluent	Burns M.J. - The Benefits Of Using Real-time Control Technology In The Operation Of Small Rainwater Harvesting Systems
	Halfi E. - Development Of An Oscillation-based Technology For The Removal Of Colloids From Water	Gerchman Y. - Making Constructed Wetlands More Economical Viable By Use Of Sugar Cane As A Water Treatment Plant	Fornarelli R. - Enabling localised and decentralised residential water use through a water credit-debit system
	Posmanik R. - Hydrothermal Treatment Of Waste Activated Sludge And Food Waste: A Circular Economy Approach To Improve Resource Recovery In Wastewater Treatment Plant	Hnátková T. - Integrated Water Management In Small Agricultural Catchments - Multifunctional Constructed Wetland System	
16:25 - 16:40	Coffee Break		

	Main Hall - GWRI Auditorium	Hall A - Room 407	Hall B - Room 406
	T3A - Anaerobic digestion <i>Session head - Roy Posmanik</i>	T3B - Decentralized wastewater treatment systems <i>Session head - Karl Linden</i>	TWC2 - Technical and institutional advances of rainwater/stormwater harvesting systems <i>Session head - Matthew Burns</i>
16:40 - 18:20	Massalha N. - Mesophilic And Thermophilic Anaerobic Digestion Of Swine Wastewater Treatment: The Forcing Factors Affecting Toxicity	Menashe O. - SBP (Small Bioreactor Platform) Technology For Micro-pollutants Treatment	Friedler E. - Comparative Environmental Life Cycle Assessment Of Rainwater Harvesting And Air Conditioner Condensation Water Harvesting Under Various Conditions
	Cisneros J. - Assessing The Impact Of The Influent Distribution System On The Hydrodynamic Efficiency Of A UASB Reactor	Azerrad S. - Fate Of Micropollutants During Integrated Treatment Of Reverse Osmosis Brines	Schuetze M. - Closing The Urban Water Loop - A Modelling Framework To Assess Benefits Of Rainwater Harvesting To The Urban Water System
	Yanuka-Golub K. - An Electrode-assisted Anaerobic Digestion Process For The Production Of High Quality Biogas.	Hyun J.W. - Effect Of Micro Bubble Backwash For The Walnut Shell Media In Filtering Oil Contaminated Wastewater	Ho G. - Water Sustainable House: Water Auditing As A Tool For Assessment
	de Toledo R.A. - Improved Biogas Production From The Co-digestion Of Food Waste And Domestic Wastewater By Intermittent Feeding And Copper Supplementation	Paz Y. - Highly efficient method for oxidation of dissolved hydrogen sulfide in water, utilizing a combination of UV-C light and dissolved oxygen	Group Discussion
	Baransi Karkaby K. - Innovative Biological Biogas Upgrading Using High Rate In-situ Immobilized UASB Reactor	Champagne P. - Examining The Effect Of Water Chemistry And Climactic Factors On Algal Bloom Dynamics In A Decentralized Wastewater Treatment System	
	18:30 - 23:00	Transportation to Gala Dinner + Best Poster Award	

WEDNESDAY | OCTOBER 17, 2018

	Main Hall - GWRI Auditorium	Hall A - Room 407	Hall B - Room 406
08:45 - 09:00	Good Morning Coffee		
09:00 - 10:20	W1A - Decentralized wastewater treatment systems <i>Session head - Peter van der Steen</i> Kim Y. - Status Of Small-scale Sewage Treatment Plants In Korea And The Development Of New Monitoring System Based On The Microbial Metabolic Characteristics Doll C. - Water Hub @ NEST: Review And Challenges Of Source Separated Wastewater Management Dries J. - Small & Smart: Real Time Control Of The SBR Process For The Treatment Of Variable Wastewater Using Robust And Low-cost Online Sensors Shidlovsky Z. -An integrated photocatalytic-biological wastewater treatment approach utilizing an on-line control unit	W1B - Nature based systems <i>Session head - Adi Radian</i> Orlofsky E. - Nature Based Onsite Remediation Of Agro-industrial Wastewater For Irrigation Reuse Vymazal J. - Constructed Wetlands For Small Communities: 25 Years Of Experience From The Czech Republic Brenner A. - Development of a hybrid biofilter for stormwater treatment and groundwater remediation Gallagher P. - Comparison Of Green Roof Effluent With Vegetated Land Uses And Other Stormwater Control Measures	W1C – Greywater <i>Session head - Amit Gross</i> Aicher A. - Development Of A Living Wall System For Greywater Treatment Morandi C. - How Does Greywater Separation Impact The Operation Of Conventional Wastewater Treatment Plants? Paulo P. - A Method To Select Organic Micropollutants Potentially Present In Greywater For Integrated Risk Assessment Studies Aiming At Non-potable Reuse Maimon A. - Soil quality index following irrigation with greywater
	Michal Green Tailor made technologies for nitrate removal from polluted waters		
	Coffee Break		
	10:20 - 11:05		
11:05 - 11:20			

	Main Hall - GWRI Auditorium	Hall A - Room 407	Hall B - Room 406
11:20 - 13:00	W2A - International wastewater management experience <i>Session head - Asher Brenner</i>	W2B - Decentralized wastewater treatment systems <i>Session head - Manfred Schuetze</i>	W2C – Micropollutants <i>Session head - Yael Dubowski</i>
	Vidal B. - What Are The Drivers To Decentralize Wastewater Treatment Systems? -- A Swedish Perspective	Alvarado A. - Exploring The Cost-benefit Of The SWWS In The Rural Area Of Cuenca Ecuador	Kang H. - Possibility Of Soil Release Of Micro-Plastics In Sewage Sludge
	Karpuzcu M.E. - Management Of Wastewater In Rural Districts Of Istanbul Metropolitan Municipality	Lee K.J. - Energy Saving By Aeration-free Membrane Operation In Membrane Bioreactor And Durability Enhancement Of Hollow Fiber Membrane Modules	de Toledo R.A. - Enhanced Removal Of Plasticizer DEHP By Acinetobacter Sp. Immobilized On Scrap Tyr
	Shirakawa Y. - A Study On Septage Management Efficiency In Developing Countries And Japan	Zheng T. - Small Bioreactor System For The Treatment Of Rural Sewage Driven By Wind-solar Hybrid Power	Radian A. - Adsorption And Degradation Of Chlorotriazine Pesticides From Water By A Hydrophobic Bio-Silica Gel
	Van der Steen P. - Off-the-Grid Technology In The Kidron/Nar Valley	Paulo P.L. - Kinetics Of (co)digestion Of Blackwater And Kitchen Waste	Rendel P. - Photocatalytic Degradation Kinetics Of Caffeine
	TBD	Champagne P. - Monitoring Long-term Trends And Seasonal Variations In Treatment Performance Of A Small Wastewater Treatment System With Algal Bloom	Dubowski Y. - Removal of triclosan from treated wastewater by onsite V-UV/UV-C irradiation
13:00 - 14:15	Lunch Break		
14:15 - 15:00	Nadav Davidovich Water and Public Health Policy: Opportunities and Challenges in Integrating Ecohealth / One Health Perspectives		
15:00 - 15:30	Closing Session		
15:30 - 16:00	Farewell Coffee		

THURSDAY | OCTOBER 18, 2018

8:30 - 18:00

Field Trip
Hosted By Mekorot – Israel National Water Company
<http://www.mekorot.co.il/Heb/newsite/Pages/default.aspx>
 a detailed program of the Technical tour

Posters Presentations - All days

Presenter	Poster title
Fang T.	Removal And Fate Of Silver Nanoparticles In Simulated Constructed Wetlands
Kumokawa S.	Characteristics Of Domestic Wastewater And Estimation Of Population For Johkasou Of Buildings In Japan
Shi S.	Microbial Analysis Of A Biofilm Reactor Treating Domestic Sewage
Silva G.	Efficiency Of An UASB Reactor Treating Black Water At Different Organic Loads; A Pilot Scale Study
Iwano H.	Duckweed For Advanced Sewage Treatment And Bio-energy Production
Zhou H.	An Overview Of The Strategies For Enhancement Treatment Of Municipal/domestic Wastewater At Low Temperature
Finkel M.	Trapezoidal Bunds For Food Security For Pastoralists In Arid And Semi-arid Areas: A Case Study In Kenya
Datel J.	Pharmaceuticals In Small Streams Around The Drinking Water Reservoir Svihov Czech Republic
Osmanaj L.	Real Needs For Sanitation Development In Kosovan Rural Context
Fan C.	Adsorption Of Dimethyl Trisulfide From Little Water On A Low-cost Adsorbent: Thermally Activated Pine Cone
Segundo I.	Remediation Of A Leachate From An Industrial Hazardous Waste Landfill: A Big Challenge
Boutin C.	Household Raw Wastewater Emission: Quality Quantity And Load Of 10 Facilities.
Kochetov G.	Optimization Of Ferritisation Treatment For Nickel-containing Wastewater
Lao W.C.	Effects Of Major Environmental Parameters On Tyre Degradation By Bacillus Sp.
Malamis S.	HYDROUSA Project -- Recovering Water Materials And Energy From Non-conventional Water Sources Through Nature-based Technologies
Brezger M.	New Approach For Solar Powered Seawater Desalination For Small Villages On Remote Islands: Better Quality Drinking Water Reduced Dependency On Plastic Bottles And Local Business Growth
Shlomo I.	Application Of A Novel Oscillatory System For Removing Colloid Particles: Hydrodynamic Analysis And Optimization
Ze Zhu	Onsite anaerobic digestion of agro-waste
Pei Y. S.	Nitrogen Removal And Nitrifying Bacteria Characteristics In Constructed Wetland Receiving Cattle Farm Wastewater