Friday 1 November 2019		10:30 - 14:00	Practical Session (8)		Practical Session (19)
r iliday I Novel	11DE1 2017	10.50 11.00	Design and Simulation of PV Systems Using		Permeability Measurement by Crossflow
09:00 - 17:00	ARRIVAL OF PARTICIPANTS AND		Polysun Software (G1)		Filtration Cell (G3)
07.00 17.00	TRANSPORTATION TO THE HOTEL		Practical Session (9)		
	TRANSFORMATION TO THE HOTEL		Efficiency of Solar Thermal Collectors (G2)	14:00 - 15:00	LUNCH
17:00 - 18:00	LAB TOUR, FAYOUM UNIVERSITY		Practical Session (10)	21.00 25.00	
27.00 20.00	Late room, random on ventaria		Efficiency of Photovoltaic Thermal Collectors	11:00 - 14:00	Practical Session (20)
Saturday 2 No	vember 2019		(PVT) (G3)		Wastewater Treatment by Molybdenum
	ental and Smart Technology Group Faculty of		(/ (/		Disulfide Nanomaterials (G1)
	University, Egypt	14:00 - 15:00	LUNCH BREAK		Practical Session (21)
					Oil-in-Water Emulsion Separation by Polymeric
09:00 - 10:15	Lecture (1):	15:00 - 17:00	Practical Session (11)		Membranes (G2)
	Introduction to Solar Energy		Chemical Oxygen Demand Measurement (G1)		Practical Session (22)
	Prof. Dr. Mohammad Mobin Shaikh, <i>IIT Indore</i> ,		Practical Session (12)		Oil-in-Water Emulsion Separation by Polymeric
	India		UV-Vis Spectroscopy Measurement (G2)		Foams (G3)
			Practical Session (13)		
10:15 - 10:30	COFFEE BREAK		Zetasizer Measurement (G3)	19:00	DINNER
			• •		
10:30 - 14:00	Practical Session (1)	19:00	DINNER	5-7 November 2	
	Water Station (G1)			International Workshop	
	Practical Session (2)	Monday 4 Nov			terials and Water-Energy Nexus
	Pyranometer (G2)		ental and Smart Technology Group Faculty of	Venue: Academy	of Scientific Research & Technology (ASRT), Cairo,
	Practical Session (3)	Science, Fayoum	University, Egypt	Egypt	
	Solar Pathfinder (G3)				
		09:00 - 10:15	Lecture (3):	Friday 8 Nove	
14:00 - 15:00	LUNCH BREAK		Introduction to Membrane Science and		aterials Laboratory, American University in Cairo,
			Technology	Cairo, Egypt	
15:00 - 17:00	Practical Session (4)		Prof. Dr. Mathias Ulbricht, University of Duisburg-		
	Efficiency of Solar Cells Module (G2)		Essen, Germany	14:00 - 15:30	Lecture (3):
	Efficiency of Solar Cells Module (G2) Practical Session (5)		Essen, Germany Prof. Dr. Yasuhiko Hayashi, Okayama University,	14:00 - 15:30	Solar Fuel Production
	Practical Session (5) Efficiency of Solar Cells Module (G2)			14:00 - 15:30	Solar Fuel Production Prof. Dr. Nageh Allam, AUC, Egypt & AGYA
	Practical Session (5) Efficiency of Solar Cells Module (G2) Practical Session (6)		Prof. Dr. Yasuhiko Hayashi, <i>Okayama University, Japan</i>	14:00 - 15:30	Solar Fuel Production
	Practical Session (5) Efficiency of Solar Cells Module (G2)	10:15 - 10:30	Prof. Dr. Yasuhiko Hayashi, Okayama University,		Solar Fuel Production Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member
	Practical Session (5) Efficiency of Solar Cells Module (G2) Practical Session (6) Two-Axis Solar Tracking System (G3)		Prof. Dr. Yasuhiko Hayashi, <i>Okayama University, Japan</i> I COFFEE BREAK	14:00 - 15:30 15:30 - 17:00	Solar Fuel Production Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member Lecture (4):
▼ Sunday 3 Nove	Practical Session (5) Efficiency of Solar Cells Module (G2) Practical Session (6) Two-Axis Solar Tracking System (G3) ember 2019	10:15 - 10:30 10:30 - 11:00	Prof. Dr. Yasuhiko Hayashi, Okayama University, Japan I COFFEE BREAK Practical Session (14)		Solar Fuel Production Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member Lecture (4): Energy Storage Devices
Venue: Environm	Practical Session (5) Efficiency of Solar Cells Module (G2) Practical Session (6) Two-Axis Solar Tracking System (G3) Ember 2019 ental and Smart Technology Group Faculty of		Prof. Dr. Yasuhiko Hayashi, Okayama University, Japan I COFFEE BREAK Practical Session (14) Synthesis of Anisotropic PES Membranes (G1)		Solar Fuel Production Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member Lecture (4): Energy Storage Devices Prof. Dr. Nageh Allam, AUC, Egypt & AGYA
Venue: Environm	Practical Session (5) Efficiency of Solar Cells Module (G2) Practical Session (6) Two-Axis Solar Tracking System (G3) ember 2019		Prof. Dr. Yasuhiko Hayashi, Okayama University, Japan I COFFEE BREAK Practical Session (14) Synthesis of Anisotropic PES Membranes (G1) Practical Session (15)		Solar Fuel Production Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member Lecture (4): Energy Storage Devices
Venue: Environm Science, Fayoum	Practical Session (5) Efficiency of Solar Cells Module (G2) Practical Session (6) Two-Axis Solar Tracking System (G3) ember 2019 ental and Smart Technology Group Faculty of University, Egypt		Prof. Dr. Yasuhiko Hayashi, Okayama University, Japan I COFFEE BREAK Practical Session (14) Synthesis of Anisotropic PES Membranes (G1) Practical Session (15) Synthesis of Isotropic PES Membranes (G2)	15:30 - 17:00	Solar Fuel Production Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member Lecture (4): Energy Storage Devices Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member
Venue: Environm	Practical Session (5) Efficiency of Solar Cells Module (G2) Practical Session (6) Two-Axis Solar Tracking System (G3) Ember 2019 ental and Smart Technology Group Faculty of University, Egypt Practical Session (7)		Prof. Dr. Yasuhiko Hayashi, Okayama University, Japan I COFFEE BREAK Practical Session (14) Synthesis of Anisotropic PES Membranes (G1) Practical Session (15) Synthesis of Isotropic PES Membranes (G2) Practical Session (16)		Solar Fuel Production Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member Lecture (4): Energy Storage Devices Prof. Dr. Nageh Allam, AUC, Egypt & AGYA
Venue: Environm Science, Fayoum	Practical Session (5) Efficiency of Solar Cells Module (G2) Practical Session (6) Two-Axis Solar Tracking System (G3) ember 2019 ental and Smart Technology Group Faculty of University, Egypt Practical Session (7) Efficiency Measurement of a Solar Thermal		Prof. Dr. Yasuhiko Hayashi, Okayama University, Japan I COFFEE BREAK Practical Session (14) Synthesis of Anisotropic PES Membranes (G1) Practical Session (15) Synthesis of Isotropic PES Membranes (G2) Practical Session (16) Permeability Measurement by Deadend	15:30 - 17:00 17:00- 17:30	Solar Fuel Production Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member Lecture (4): Energy Storage Devices Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member LCOFFEE BREAK
Venue: Environm Science, Fayoum	Practical Session (5) Efficiency of Solar Cells Module (G2) Practical Session (6) Two-Axis Solar Tracking System (G3) Ember 2019 ental and Smart Technology Group Faculty of University, Egypt Practical Session (7)		Prof. Dr. Yasuhiko Hayashi, Okayama University, Japan I COFFEE BREAK Practical Session (14) Synthesis of Anisotropic PES Membranes (G1) Practical Session (15) Synthesis of Isotropic PES Membranes (G2) Practical Session (16)	15:30 - 17:00	Solar Fuel Production Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member Lecture (4): Energy Storage Devices Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member I COFFEE BREAK Lecture (5):
Venue: Environm Science, Fayoum 09:00 – 10:15	Practical Session (5) Efficiency of Solar Cells Module (G2) Practical Session (6) Two-Axis Solar Tracking System (G3) Ember 2019 ental and Smart Technology Group Faculty of University, Egypt Practical Session (7) Efficiency Measurement of a Solar Thermal Systems	10:30 - 11:00	Prof. Dr. Yasuhiko Hayashi, Okayama University, Japan I COFFEE BREAK Practical Session (14) Synthesis of Anisotropic PES Membranes (G1) Practical Session (15) Synthesis of Isotropic PES Membranes (G2) Practical Session (16) Permeability Measurement by Deadend Filtration Cell (G3)	15:30 - 17:00 17:00- 17:30	Solar Fuel Production Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member Lecture (4): Energy Storage Devices Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member I COFFEE BREAK Lecture (5): Water Desalination
Venue: Environm Science, Fayoum	Practical Session (5) Efficiency of Solar Cells Module (G2) Practical Session (6) Two-Axis Solar Tracking System (G3) ember 2019 ental and Smart Technology Group Faculty of University, Egypt Practical Session (7) Efficiency Measurement of a Solar Thermal		Prof. Dr. Yasuhiko Hayashi, Okayama University, Japan I COFFEE BREAK Practical Session (14) Synthesis of Anisotropic PES Membranes (G1) Practical Session (15) Synthesis of Isotropic PES Membranes (G2) Practical Session (16) Permeability Measurement by Deadend Filtration Cell (G3) Practical Session (17)	15:30 - 17:00 17:00- 17:30	Solar Fuel Production Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member Lecture (4): Energy Storage Devices Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member I COFFEE BREAK Lecture (5): Water Desalination Prof. Dr. Nageh Allam, AUC, Egypt & AGYA
Venue: Environm Science, Fayoum 09:00 – 10:15	Practical Session (5) Efficiency of Solar Cells Module (G2) Practical Session (6) Two-Axis Solar Tracking System (G3) Ember 2019 ental and Smart Technology Group Faculty of University, Egypt Practical Session (7) Efficiency Measurement of a Solar Thermal Systems	10:30 - 11:00	Prof. Dr. Yasuhiko Hayashi, Okayama University, Japan I COFFEE BREAK Practical Session (14) Synthesis of Anisotropic PES Membranes (G1) Practical Session (15) Synthesis of Isotropic PES Membranes (G2) Practical Session (16) Permeability Measurement by Deadend Filtration Cell (G3) Practical Session (17) Pore Size Measurement (G1)	15:30 - 17:00 17:00- 17:30	Solar Fuel Production Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member Lecture (4): Energy Storage Devices Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member I COFFEE BREAK Lecture (5): Water Desalination
Venue: Environm Science, Fayoum 09:00 – 10:15	Practical Session (5) Efficiency of Solar Cells Module (G2) Practical Session (6) Two-Axis Solar Tracking System (G3) Ember 2019 ental and Smart Technology Group Faculty of University, Egypt Practical Session (7) Efficiency Measurement of a Solar Thermal Systems	10:30 - 11:00	Prof. Dr. Yasuhiko Hayashi, Okayama University, Japan I COFFEE BREAK Practical Session (14) Synthesis of Anisotropic PES Membranes (G1) Practical Session (15) Synthesis of Isotropic PES Membranes (G2) Practical Session (16) Permeability Measurement by Deadend Filtration Cell (G3) Practical Session (17) Pore Size Measurement (G1) Practical Session (18)	15:30 - 17:00 17:00 - 17:30 17:30 - 19:00	Solar Fuel Production Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member Lecture (4): Energy Storage Devices Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member I COFFEE BREAK Lecture (5): Water Desalination Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member
Venue: Environm Science, Fayoum 09:00 – 10:15	Practical Session (5) Efficiency of Solar Cells Module (G2) Practical Session (6) Two-Axis Solar Tracking System (G3) Ember 2019 ental and Smart Technology Group Faculty of University, Egypt Practical Session (7) Efficiency Measurement of a Solar Thermal Systems	10:30 - 11:00	Prof. Dr. Yasuhiko Hayashi, Okayama University, Japan I COFFEE BREAK Practical Session (14) Synthesis of Anisotropic PES Membranes (G1) Practical Session (15) Synthesis of Isotropic PES Membranes (G2) Practical Session (16) Permeability Measurement by Deadend Filtration Cell (G3) Practical Session (17) Pore Size Measurement (G1)	15:30 - 17:00 17:00- 17:30	Solar Fuel Production Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member Lecture (4): Energy Storage Devices Prof. Dr. Nageh Allam, AUC, Egypt & AGYA Member I COFFEE BREAK Lecture (5): Water Desalination Prof. Dr. Nageh Allam, AUC, Egypt & AGYA

Friday 8 November 2019

Venue: American University Cairo (AUC)

10:00 - 11:30 Lecture (6):

Hybrid Energy Systems

Dr. Philipp Blechinger, Reiner Lemoine Institute, Germany (via video conference) & AGYA Member

11:00 – 12:00 | COFFEE BREAK

12:00 - 13:30 Lecture (6):

Hybrid Energy Systems

Dr. Philipp Blechinger, Reiner Lemoine Institute, Germany (via video conference) & AGYA Member

13:30 – 14:30 LUNCH

14:30 – 17:00 Group Discussion

19:00 DINNER

Saturday 9 November 2019

Venue: Pyramisa Suites Hotel Cairo

09:00 - 11:30 Practical Session (23)

Hands on Training on Solar Fuel Production

Systems

11:30 – 12:00 | COFFEE BREAK

12:00 - 15:00 Practical Session (24)

Hands on Training on Energy Storage Systems

Dr. Mohamed Saber, Texas A&M University, USA

15:00 – 16:00 LUNCH

16:00 - 19:00 Practical Session (25)

Hands on Training on Capacitive Deionization

Systems

19:00 DINNER

Sunday 10 November 2019

ISCIENTIFIC EXCURSION WITH ALL STUDENTS AND TRAINERS

Workshop Organizers:

Ahmed Saad Goma Khalil

Fayoum University

Phillip Blechinger

Reiner Lemoine Institut

Training Venues:

Fayoum University

Tawfik Elhakim Street 1 63514 Al Fayyum, Egypt

American University Cairo

AUC Avenue, P.O. Box 74 New Cairo 11835, Egypt

▼ Conference Hotel:

Shakshouk Fayoum Hotel

Bouhairet Qaroun Roud Al Fayyum 63761 Egypt

Pyramisa Suites Hotel Cairo

60 Giza Street, Dokki Cairo, Egypt

Contact: aqya@bbaw.de

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Water-Energy Nexus: Concepts, Methodologies and Future Developments

2 - 10 November 2019

University, Fayoum, Egypt

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