

 Renewable Energy as a Catalyst for Regional Development Arava Institute for Environmental Studies November 18th - December 7th 2018		 Arava Institute מכון הערבה מעמד ואדי ערביה
Date / Time	Session	Lecturers
Sunday November 18: International Arrivals		
	Arriving participants stay at Prima City Hotel, Tel Aviv	
	Abby to greet and assist	
	Dinner in Tel Aviv	
Monday November 19: Welcome in Tel Aviv and Travel to Haifa		
8:00 AM	Breakfast and check out of rooms	
9:30 AM	Introductory presentation by Dr. Tareq Abu Hamed, Dr. Shmuel Brenner and the MASHAV team	
10:30 AM	Lecture: The Life Cycle Approach to Environmental Issues	Dr. Shmuel Brenner
12:00 PM	Lunch at Prima City Hotel	
1:00 PM	Travel to Beit Yanai	
2:00 PM	Visit Seakura Sea for Life Eco-pools	
3:30 PM	Travel to Home Biogas	
4:00 PM	Visit Home Biogas facility	
5:30 PM	Drive to Haifa	
6:30 PM	Dinner at Georgia restaurant	
7:30 PM	Check into Beit Shalom hotel	
8:00 PM	Lecture: Introduction to Renewable Energy, part one	Dr. Tareq Abu Hamed
Tuesday November 20: Haifa area, wind farms and travel to the Negev		
7:30 AM	Breakfast at the hotel	
8:30 AM	Check out of rooms, load bus, walk to start of Baha'i Gardens tour	
8:45 AM	Baha'i Gardens Panorama Tour	
10:00 AM	Bus back to Beth Shalom Hotel	
10:30 AM	Lecture: Introduction to Renewable Energy, part two	Dr. Tareq Abu Hamed
12:00 PM	Bus leaves for Maaleh Gilboa	
1:00 PM	Lunch on the way at Humous Eliyahu	
2:30 PM	Visit Wind Farm Visitor Center Maale Gilboa	
3:30 PM	Travel to the Negev	
6:00 PM	Check into Mashabim Guest House	
7:00 PM	Dinner at the guest house	
8:00 PM	Ice breakers, logistics and getting to know each other	
Wednesday November 21: The Negev and arrival to the Arava Institute		
7:30 AM	Breakfast at the guest house	
8:30 AM	Check out and load bus	
9:00 AM	Visit Ashalim Solar Thermal Power Station in Israel's Negev desert	
11:00 AM	Travel to Sde Boker	
11:30 AM	Tour of Midreshet Ben Gurion Eco-campus Lecture: Introduction to Energy Efficiency	Prof. Isaac Meir
1:30 PM	Lunch at the Midreshet Ben Gurion field school	
2:30 PM	Travel to Kibbutz Ketura	
4:30 PM	Check into Ketura guest house	
6:00 PM	Dinner in the dining room	
7:00 PM	Welcome to Kibbutz Ketura - logistics	

Thursday November 22: Arava Institute - Wedding on Kibbutz!		
7:30 AM	Breakfast in the dining hall	
8:30 AM	Introductory short presentations by all MASHAV participants	Dr. Tareq Abu Hamed
10:30 AM	Coffee break	
10:45 AM	Continued introductory short presentations by all MASHAV participants	Dr. Tareq Abu Hamed
12:00 PM	Picnic lunch in the Pergola	
1:00 PM	Development Skills Workshop Part One: Theory, Practice, Methodology	Ms. Rina Kedem and Mr. Suleiman Halasah
4:00 PM	Tour of Kibbutz Ketura	Kibbutz member Mr. David Factor
	Free time	
	Wedding ceremony (for invited family and friends only)	
7:15 PM	Festive Dinner outside the dining hall	
8:15 PM	MASHAV has "toranut"! Help the community re-set the dining room after dinner	
10:00 PM	Laundry pick up	
Friday November 23: Arava Institute		
7:15 AM	Breakfast in the dining hall	
8:00 AM	Laundry drop off	
8:00 AM	Tour Ketura Solar 40 MW Field - bring closed shoes, hat and water	Mr. Yossi Abramowitz
9:30 AM	Coffee break outside the guest house lobby	
10:00 AM	Lecture: Energiya Global - Israeli Vision for a Solar World	Mr. Yossi Abramowitz
11:30 AM	Introduction to the Arava Institute	Rabbi Michael Cohen
12:30 PM	Lunch in the dining hall	
1:30 PM	Presentation: Intro to Judaism and Welcoming the Sabbath	Rabbi Michael Cohen
2:30 PM	Logistics with the MASHAV team	
4:00 PM	Guest house lobby closes for the Sabbath	
6:00 PM	Optional: Sabbath eve service in the synagogue	
7:00 PM	Communal Sabbath dinner in the dining hall - MASHAV seated with kibbutz members	
Saturday Nov 24: Shabbat Shalom!		
	Breakfast in your rooms (dining room closed)	
8:00 AM	Optional: Hike to the top of "Electricity Mountain" for a view of Ketura from above. Wear closed shoes and a hat, bring water.	
9:30-11:30 AM	Optional: Sabbath morning services in the synagogue	
12:00-1:00 PM	Lunch available in the dining hall	
4:00 PM	Tea time meet-n-greet with the current Arava Institute Students	
6:00-7:30 PM	Dinner available in the dining hall	
Sunday November 25: Arava Institute		
7:30 AM	Breakfast in the dining hall	
8:30 AM	Tour of Arava Institute Renewable Energy Park: Validation Center, Off-Grid Village, Campus Greywater System	Dr. Tareq Abu Hamed
12:30 PM	Lunch in the dining hall	
1:30-4:00 PM	Renewable Energy in Action: Lab and off-grid village including designing and building a solar RE system	Dr. Tareq Abu Hamed
	Break	
6:30 PM	Dinner in the dining hall	
7:30 PM	The Kibbutz as a Social Model / Economic Experiment. Practical Workshop: Kibbutz Values and Practice, together with Carmel MASHAV group	

Monday November 26: Arava Institute		
7:30 AM	Breakfast in the dining hall	
8:30 AM	Tour of Algatechnologies - bring hat, water and closed shoes. No photography allowed.	
10:00 AM	Lecture: Economics of Renewable Energy	Dr. Amit Mor
12:00 PM	Lunch in the dining hall	
1:00 PM	Lecture: Trends and Challenges in the International and Israeli Energy Sector	Dr. Amit Mor
4:00 PM	Work on International Culture Night - complimentary coffee and cake at the guest house lobby. Please bring your flight documents to confirm return flights.	
5:00-6:00 PM	Submit Culture Night materials	
6:30 PM	Dinner in the dining hall	
Tuesday November 27: Afternoon visit to Kibbutz Lotan		
7:30 AM	Breakfast in the dining hall	
8:30-11:30 AM	Development Skills Workshop Part Two: Communities of Practice	Ms. Rina Kedem and Mr. Suleiman Halasah
12:15 PM	Travel to Lotan	
12:30 PM	Lunch at the Lotan Tea House	
1:30 PM	Lotan Center for Creative Ecology – tour of energy-efficient construction	Alex Cicelsky
3:30 PM	Travel to Ketura	
	Time to work on Culture Night and/or Final Presentations	
6:30 PM	Dinner in the dining hall	
Wednesday November 28: Arava Institute		
7:30 AM	Breakfast in the dining hall	
9:00 AM	Departure for field trip - bring hats, closed shoes and water bottles	
9:15 AM	Kibbutz Yotvata: Commercial bio-gas installation	
10:00 AM	Visit: Better Place - battery switching station - what went wrong	Dr. Tareq Abu Hamed
10:30 AM	Travel to Elifaz	
11:00 AM	Kibbutz Elifaz: Wind energy and hot house technology	
12:30 PM	Lunch in the dining hall	
1:30 PM	Lecture: Life Cycle Analysis of PV systems	Mr. Suleiman Halasah
3:00 PM	Feedback from participants with the MASHAV team	
4:00 PM	Final opportunity to submit materials for culture night	
6:00 PM	Dinner in the dining hall	
7:30 PM	Evening program: MASHAV Culture Night – participants present their countries with music and songs. Community invited!!	
Thursday November 29: Arava Institute		
7:00 AM	Breakfast in the dining hall	
8:00 AM	Hands-On Biogas Workshop	Mr. Yair Teller
10:00 AM	Break	
10:15 AM	Hands-On Biogas Workshop	Mr. Yair Teller
12:30 PM	Lunch in the dining hall	
1:30 PM	Development Skills Workshop Part Three: Translating your experience	Mr. Suleiman Halasah and Ms. Rina Kedem
	Break	
6:00 PM	Laundry pick up	
6:30 PM	Dinner in the dining hall	
7:45 PM	Optional: Film Solar Taxi	

Friday November 30: Arava Institute		
7:30 AM	Breakfast in the dining hall	
8:00 AM	Laundry drop off	
8:30 AM	Lecture: "Just Do It" - Deployment of Energy and Development of an Energy Technology Sector - Definitions, Policies and Issues	Mr. Z'ev Gross
10:00 AM	Break	
10:30 AM	Development Skills Workshop: work on group projects	Mr. Suleiman Halasah and Ms. Rina Kedem
12:30 PM	Lunch in the dining hall	
1:30 AM	Entrepreneurship in the Desert	Mr. Marcel Debowy
6:30 PM	Optional: Sabbath eve service in the synagogue	
7:30 PM	Communal Sabbath dinner in the dining hall - sitting with students	
Saturday December 1: Shabbat Shalom!		
	Breakfast in your rooms (dining room closed)	
9:30 AM	Optional Sabbath services in the synagogue	
10:00-10:30 AM	Guest house lobby open for half hour, for assistance with room emergencies only	
10:00 AM	Shuttle bus to Eilat and beaches	
12:00-1:30 PM	Lunch available in the dining hall	
5:00 PM	Shuttle bus back from Eilat and beaches	
6:00-7:30 PM	Dinner available in the dining hall	
Sunday December 2: Finishing up and group presentation work time		
7:30 AM	Breakfast in the dining hall	
8:30 AM	Lecture: Renewable Energy from Bio-mass	Dr. Gabi Banet
	Break	
10:30 AM	Lecture: Large-Scale Bio-Gas	Mr. Yonatan Haran
12:30 PM	Lunch in the dining hall	
2:00 PM	Israeli Innovation in Off-grid Energy: an interactive session with Israeli entrepreneurs	Ms. Hagit Freund
4:30-6:00 PM	Tzedakah (Charity) fair in the Kibbutz pub - activities, drinks and a chance to donate to worthy causes	
6:30 PM	Dinner in the dining hall	
	First night of Hannukah	
Monday December 3: Arava Institute		
7:30 AM	Breakfast	
8:30-10:30 PM	Time to work on Final presentations	
11:00 AM	Lecture: Keeping the Doors Open - the Search for Funding	Ms. Abby Lutman and Ms. Diana Spinrad
1:00 PM	Lunch in the dining room	
3:00 PM	The History of Israel and Zionism	Rabbi Michael Cohen
4:00 PM	Information session on the rest of the program and departures	
6:30 PM	Dinner in the dining hall	
7:30 PM	Dress Rehearsal for Final Group Presentations - Each group meets with Tareq and Suleiman separately	
	Second night of Hannukah	

Tuesday December 4: Field trip and travel to Jerusalem		
7:30 AM	Breakfast in the dining hall	
8:15 AM	Leave Kibbutz Ketura	
9:30 AM	Visit the Vidor Center: A Window to Arava Agriculture	
10:30 AM	The Water-Food-Energy Nexus: Visit the Regional R&D Center and Greenhouses at Hatzeva	
12:00 PM	Leave for Dead Sea	
1:30 PM	Lunch and swim at Neve Midbar Beach, Dead Sea	
6:00 PM	Arrive at Beit Shmuel Guest House, Jerusalem	
7:00 PM	Dinner at Beit Shmuel	
	Third night of Hannukah	
Wednesday December 5: Final Ceremony - Jerusalem		
8:00 AM	Breakfast	
9:30 AM	MASHAV participants: Group Final Presentations	
11:00 AM	Closing ceremony and presentation of certificates with MASHAV and Consular representatives	
12:00 PM	Lunch at Beit Shmuel	
1:00 PM	Final Feedback session	
2:00 PM	Travel to Yad Vashem	
2:45 PM	Guided tour of Yad Vashem memorial	
5:00 PM	Return to Beit Shmuel	
7:00 PM	Dinner at Beit Shmuel	
	Fourth night of Hannukah	
Thursday December 6: Jerusalem Old City Tour		
8:00 AM	Guided tour of the Old City of Jerusalem	Tour guide Mr. Jared Goldfarb
1:00 PM	Group lunch in the Old City	
3:00 PM	Free time in the old and new city	
7:00 PM	Dinner at Beit Shmuel	
	Fifth night of Hannukah	
	Late night departures	
Friday December 7: Departures		
	Breakfast at Beit Shmuel	
	Departures	