



Acacias in the Arava – past, present and future

The Dead Sea-Arava Science Center, October 23-24th

Central Arava, Yair station, Weiber auditorium

Day 1 (October 23) – lectures:

09:00-09:30	Registration and welcome coffee
09:30-09:45	Welcome notes: Dr. Eyal Bloom, Head of the Central Arava Regional Council Dr. Hanan Ginat, The Dead Sea Arava Science Center Mr. Ami Uliel, (JNF-KKL)
	Session 1 – Physiology. Chair: Gidon Winters
09:50-10:10	Walter's two-layer hypothesis revisited – back to the roots! <u>D. Ward</u> , K. Wiegand, S. Getzin
10:10-10:30	A methodological approach to determine age and growth rate of ringless trees <u>Knut Krzywinski</u> , Gidske L. Andersen, Tomasz Goslar, Mary Gagen, Giles Young
10:30-10:50	<i>Acacia</i> ssp. and <i>Pistacia atlantica</i> in Israel: Carbon isotopes approach to study climate-induced changes <u>Valentina Caracuta</u> , Lior Regev, Michael Richards, Itshack Moshe, Gidon Winters, Elisabetta Boaretto
10:50-11:10	Indicators of water stress on three acacia species in the Arava valley, Israel Raphael Breit, <u>Ilan Stavi</u> , Elain Soloway, Elli Groner
11:10-11:30	Coffee break
	Session 2 – Ecology and genetics. Chair: Elli Groner
11:30-11:50	Traditional tending and use of <i>Acacia tortilis</i> : long-term effects up on population viability <u>Gidske L. Andersen</u> , Knut Krzywinski, Mohamed Talib, Ahmed Ebaid, Joseph J. Hobbs, Richard H. Pierce
11:50-12:10	Acacia trees: leave extracts contain anti-cancer (pro-apoptotic) activity <u>Zainab Tayeh</u> , Rivki Ofir



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Day 1 (October 23) – lectures (continued):

12:10-12:30	Genetic analysis of selected local acacia planted in suspects hybrids (<i>A. negevensis</i> X <i>A. raddiana</i>) for suitability to different habitats in the South Leonid Korol
12:30-12:50	Symbiosis and multi-trophic networks in the aid of Acacia's seed dispersal <u>Uri Shanas</u> and Guri Roth
12:50-13:10	Acacia trees: Key stone species for insectivorous bats in the Arava desert <u>Carmi Korine</u> , Talya D. Hackett and Marc W. Holderied
13:10-14:00	Lunch break Tour to the laboratories of the Dead Sea Arava Science Center
	Session 3 – Monitoring. Chair: Asaf Tsoar
14:00-14:20	Biomass, Leaf Area index and Productivity assessment in trees and forests: experiences, protocols, results <u>Giorgio Matteucci</u> , Ettore D'Andrea, Bruno De Cinti, Marco Bascietto
14:20-14:40	Acacia trees survey in the Arava valley – results and implications <u>Amir Perelberg</u> , Mimi Ron, Uri Ramon
14:40-15:00	Designing a long term monitoring protocol for acacia populations in the Arava <u>Elli Groner</u> , Gidon Winters , Hanan Ginat , Ilan Stavi , Benny Shalmon, Roey Talbi, Asaf Tsoar, Mimi Ron , Uri Ramon , Amir Perlberg , Naama Berg, Zohar Tsafon Sivan Issacson, Shimon Rachmilevitch
15:00-15:20	Preliminary analysis of long and short term spatial processes of Acacia population using a single near infra-red aerial photograph <u>Sivan Isaacson</u> , Dan J. Blumberg, Jhonathan E. Ephrath, Shimon Rachmilevitch
15:25-15:40	Following changes in Acacia physiology - The Gidorn Wadi as a case study Ina Ryvkin, Tali Rodkov, Eitan Barel, <u>Gidon Winters</u>
15:40-16:30	Open discussion on monitoring session
16:30-16:45	(Hebrew lecture) אמץ שיטה, פרוייקט חינוכי סביבתי בערבה התיכונה: תמונת מצב לאחר 5 שנים
18:00-20:00	Joint Supper



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Day 2 (October 24) – field monitoring

On the 24th of October we will demonstrate how to monitor the acacia. Recently a few bodies have agreed on a joint protocol. These include all part of the LTER, KKL-JNF and the Israeli National Parks Authority (INPA), and the Dead Sea Arava Science Center (ADSSC). We will demonstrate the monitoring and discuss pros and cons of the different methods. It is expected that during November the monitoring will start. Everyone is invited.

Starting time	Finishing time	Demonstrator	Topic
06:00	07:30	Oded Keynan	Visiting the Arabian Babblers research sites
8:00	9:00	Benny Shalom	old methods
9:00	9:30	Sivan Issacson	Problems with old methods
9:30	10:00	Roy talbi and Asaf soar	new improvements
10:00	10:30	Giorgio Matteucci	EXPEER parameters
10:30	11:00	Knut Krzywinski, Gidske L. Andersen	determining age and growth rates – field sampling
11:00	11:30		Open discussion
11:30	12:30	Elli Groner	the standard protocol
12:30	14:00		Lunch break
14:00	15:00	Sivan Issacson	NDVI
15:00	16:00	NaamaBerg	Other parameters
16:00	16:30		Open discussion
16:30			Departure