



ISRAEL SCIENCE FOUNDATION



# Dead Sea Deep Drilling Project

**DSDDP**

**Ein Gedi 1<sup>st</sup> workshop**

**8-12 November 2014**





## Saturday November 8

Hotel in Jerusalem for those from overseas

## Sunday November 9

Travel by bus to Kibbutz Ein Gedi

(8:30 depart from Givat Ram, 9:00 am depart from hotel)

Stop at Beit- HaArava (Ze'elim/Lisan/Samra sections)

**12:00** Lunch at the Ein Gedi Guest House

**Note: Lectures will be up to 30 minutes, including time for questions.**

**Afternoon session: 14:00-18:00 pm**

**Opening**

**Zvi Ben-Avraham:** The DSDDP project

### Stratigraphy and chronology

**Steve Goldstein:** Overview of the scientific activities in the DSDDP

**Hiroiyuki Kitagawa:** Radiocarbon chronology of the DSDDP core

**Adi Torfstein:** Dead Sea drawdown and monsoonal impacts in the Levant during the last interglacial

**Boaz Lazar:** Dating of Neogene salts by  $^{10}\text{Be}$  – the age of the Sedom Fm.

**Coffee Break**

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## Hydrology and Geophysics

**Nadav Lensky:** The active salt delta in the Dead Sea

**Bar Orian:** The ICDP Cores and the Dead Sea Heat Flow

**Lisa Coaniz:** Petrophysical interpretation of the Dead Sea Basin Pleistocene sedimentary successions

**Group discussion**

*Dinner 19:00-20:00*

**Welcome party 20:30**

## Monday November 10

**Breakfast**

**Morning session: 8:00-13:00**

### Sedimentology

**Marcus Schwab:** Lithology and microfacies analyses of the Dead Sea deep basin core 5017-1

**Ina Neugebauer:** Potential of micro-facies analyses of the Dead Sea sediments

**Elitsa Hadzhiivanova:** Sedimentological insights into depositional events in the Dead Sea Basin

*Coffee break*

### Dead Sea brines

**Yael Kiro:** Extreme aridities revealed by halite deposits in the Dead Sea basin during the late Quaternary

**Daniel Artizegui:** Quantitative estimation of water/air temperature during the Late Glacial and the Holocene in the Dead Sea Basin using the maximum homogenization temperature of halite fluid inclusions

**Elan Levy:** The Dead Sea hydrological system during the past 200 kyr from conservative elements in DSDDP porewaters

**Adi Torfstein:** A 200 kyr record of coupled  $\delta^{34}\text{S}$  and  $\delta^{18}\text{O}(\text{SO}_4)$  in the hyper saline Dead Sea"

**Group discussion**

***Lunch break: 13:00-14:00***

**Afternoon session 14:00-18:00**

### **Dust and fine particles and climate**

**Yigal Erel:** What can we learn from contemporary dust storms about the dust stored in the Dead Sea archive?

**Daniel Palchan:** Synoptic conditions during MIS5e from high-resolution study of Nd and Sr isotopes of fine detritus in the core

**Yehouda Enzel:** Similar cycles in modern climate and in last interglacial Dead Sea laminated halite sequences

**Yochanan Kushnir:** Models of Levant paleo-climate

**Group discussion**

***Dinner 19:00-20:00***

**20:00 Group discussion led by Yossi Yechieli and Ittai Gavrieli:** Constraints on possible Dead Sea desiccation- what can we learn from the core?

**Followed by drinks**



## Tuesday November 11

### Breakfast & Check-out

Morning session: 8:30-13:00

### Biomarkers and Pollen

**Jessica Tierny:** Preliminary biomarker results from the Dead Sea Deep Drilling Core

**Camille Thomas:** The Dead Sea subsurface biosphere and its influence on the sedimentary record

**Thomas Litt:** Climate of the Dead Sea region during the Holocene

**Andrea Miebach:** Palynology of the Last Glacial from the Dead Sea deep core

**Chunzhu Chen:** Palynology of the Last Interglacial (based on long Dead Sea cores)

### *Coffee break*

### Paleoseismic and Paleomagnetic research

**Emi Ito:** Mineral magnetic properties of Dead Sea sediment and aeolian dust

**Yael Ebert:** Dead Sea sediments as a recorder of the geomagnetic field

**Amotz Agnon:** Lake level extrema and rates of seismicity: an enigmatic correlation between outcrop data sets

**Elisa Kagan:** Mass movement deposits double the Lisan Fm. at the depocenter

### Group discussion

Lunch break: 13:00-14:00

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### **Roundtable summary session (14:00-15:00):**

- Publications
- The shallow (Ein Gedi) site: perspectives
- Future planned studies

**Return by bus to Jerusalem, arriving by 18:00**

Hotel in Jerusalem

### **Wednesday November 12**

Morning: **10-11 am**

Seminar at the Institute of Earth Sciences, The Hebrew University

Room 109

**Daniel Aritzegui**

Investigating the subsurface biosphere in lacustrine systems

**Visit to the Israel Museum - optional**

*Afternoon 18:00-19:30 pm*

**Israel Academy of Sciences**

**Open Public seminar on the Dead Sea deep drilling project**

**Reception**

**Talks in Hebrew by:**

**Zvi Ben-Avraham**

**Mordechai Stein**

**Yochanan Kushnir**

*Hotel in Jerusalem for those from overseas*