

Uri Schattner - Curriculum Vitae

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Date of birth: 10 November 1973, Israel

Education

Postdoc Geological survey of Israel, in two projects related to the Dead Sea fault (DSF): (1) *high resolution identification of the deformation and fault pattern of the central DSF, in northern Israel*; and (2) *Segmentation and slip partitioning along plate-bounding strike-slip faults: evolution of the DSF (2005-2006)*

A second postdoc in Tel Aviv University dealing with the *offshore extension of the Carmel fault and its structural relations with the western Galilee and southern Lebanon fault systems (2005-2006)*

Ph. D. Department of Geophysics and Planetary Sciences, Tel-Aviv University, Israel.
Advisors: Prof. Zvi Ben-Avraham (Tel-Aviv University) and Dr. Christian Hübscher (Hamburg University).

Dissertation: "Offshore Extension of the Carmel Structure and its Role in the Tectonic Setting of the Levant Basin", in the field of Tectonophysics. (2002-2005)

M.Sc. Department of Geophysics and Planetary Sciences, Tel-Aviv University, Israel.
Advisors: Dr. Shimon Wdowinski (Tel-Aviv University) and Dr. Daniel Wachs (Geological Survey of Israel).

Dissertation: "Geodetic monitoring of surface deformation along the western shores of the Dead Sea using GPS and InSAR observations", in the field of Applied Geodesy. Completed with distinction, 1998 – 2001.

B.Sc. Institute of Earth Sciences and Institute of Life Sciences, Hebrew University of Jerusalem, Israel (Geology and Biology, 1995 - 1998)

Employment and professional experience

2004-2005 **International Geological Correlation Program (IGCP)** - Scientific coordinator of the Minerva Dead Sea research center at the Tel-Aviv University.

Geological Survey of Israel - Member of a working group that studies the lithosphere structure prior to the activity along the Dead Sea fault plate boundary.

- 2004 **The Israel Journal of Earth Sciences** - Assistant editor, special issue on the geology and geophysics of the Sea of Galilee.
- Interdisciplinary workshop on “Continental Rifting, Human Dispersals and Natural Hazards”**- Assistant in preparing and organizing the workshop, held in Heidelberg on July 15-18, 2004.
- 2002 **R\V METEOR cruise** - Planning and participation in the R\V METEOR cruise, leg 52\2, in the Eastern Mediterranean basin, as part of the seismic reflection acquisition team
- 1999 - 2001 **Geological Survey of Israel** - Fellow and geologist
- 1997 - 1998 **Geomorphology Lab** - Research assistant at the Geomorphology Lab of Prof. Yehuda Enzel, Institute of Earth Sciences, the Hebrew University in Jerusalem

Teaching

- **Tel Aviv University, teaching assistant** - In the courses:
 - Structural geology
 - Geology of Israel
 - Gas Hydrate
 - The dynamic earth
 - Geotectonics
- **Society for the Protection of Nature in Israel** – Lecturer and Instructor of guides in the fields of geology, biology, climate and oceanography, including field trips.
- **Eilat Field School** - Guide of youth in field trips in the Negev desert, in the range of ages from kindergarten to high-school.

Awards and scholarships

- 2004 **Alix de Rothschild fund** - Award of excellence
- 2004 **Rephael Katzman fund** - Award of excellence
- 2003 **Dan Leventhal fund** - Award of excellence
- 2002 Award of excellence, Department of Geophysics and Planetary Sciences, Tel-Aviv University
- 2002-2005 Doctoral scholarship, Department of Geophysics and Planetary Sciences, Tel-Aviv University

- 1999 Award of excellence, Department of Geophysics and Planetary Sciences, Tel-Aviv University
- 1998-1999 Masters scholarship, the Geological Survey of Israel

Skills

- **GPS (Real Time Kinematics and post processed), EDM** - Data acquisition and processing
- **InSAR** – Processing and interpretation
- **Seismic reflection** – Data acquisition of marine and land data, processing and interpretation of data with the software packages of Landmark © and Openworks ©
- **Seismic Navigation System (SNS)** - Data acquisition and processing
- **Graphics software** - Working experience with Photoshop, Illustrator and Freehand
- **Office tools** - Working experience with Power point, word, Excel.
- **Mapping tools** – Working experience with Surfer

Languages

Hebrew – Mother tongue

English – High level

French – Medium level

Activities

- Volunteer in “Etgarim” organization for the blind
- Member of the Israeli Geological Society
- Researcher in the Minerva Dead Sea Research Center

Invited lectures

- 2003 – "Tectonic development of the Levant margin", at the department of Maritime Civilizations, Haifa University
- 2005 – "The Carmel Structure – its Role in the Tectonic Setting and Geohazards of the eastern Mediterranean", at the NGU – Geological Survey of Norway, Trondheim
- 2006 – "Tectonic landmarks in the development of the northern Levant margin", at the Gerry Friedman's seminar on the Eastern Mediterranean, The Institute of Earth Sciences, The Hebrew University of Jerusalem

Other lectures given (2002-2006)

1. The fate of Oceanic Plateaus at Subduction Zones
2. Paleooceanographic Studies in the South Atlantic
3. Triple triple-junction in the eastern Mediterranean
4. The pre-Cretaceous history of the Levant basin and its margins
5. Studying B S R using OBH, SCS and AVO
6. Gas Hydrate Related Features on the Mid-Norwegian Continental Margin
7. Development of parallel rifts across the northeastern African plate during the Oligocene-Miocene times
8. Tectonic isolation of the Levant basin offshore Galilee-Lebanon - Effects of the Dead Sea fault plate boundary on the Levant continental margin, eastern Mediterranean
9. Dead Sea fault and plate tectonics
10. Introduction to climatology
11. Overview of the southern Negev desert – geology, climate, oceanography, botany, zoology, archaeology and history
12. Geodetic monitoring of surface deformation along the western shores of the Dead Sea using GPS and InSAR observations

Publications

1. Ginzburg A., Reshef M., Ben-Avraham Z. and **Schattner U.** The style of transverse faulting in the Dead Sea basin from seismic reflection data: The Amazyahu fault. In preparation.
2. Lazar M., Ben-Avraham Z. and **Schattner U.**, Formation of sequential basin along a strike slip fault – geophysical observations from the Dead Sea basin: Tectonophysics, in press.
3. **Schattner U.**, Ben-Avraham Z., Lazar M. and Hübscher C., Tectonic isolation of the Levant basin offshore Galilee-Lebanon - Effects of the Dead Sea fault plate boundary on the Levant continental margin, eastern Mediterranean: Journal of Structural Geology, in press.
4. Ben-Avraham, Z., **Schattner, U.**, Hall, J.K., Ben-Gai, Y., Neev, D., Reshef, M., and Lazar, M., Segmentation of the Levant continental margin, eastern Mediterranean: Tectonics, in press.
5. **Schattner U.**, Ben-Avraham Z., Reshef M., Bar-Am G. and Lazar M., Oligocene-Miocene formation of the Haifa basin: Qishon-Sirhan rifting coeval with the Red Sea-Suez rift system: Tectonophysics, in press.

6. Ben-Avraham, Z., Lazar, M., **Schattner, U.** and Marco S., 2005. The Dead Sea Fault and its effect on civilization. In: F. Wenzel (ed.), *Lecture Notes in Earth Sciences: Perspectives in Modern Seismology*, Springer Verlag Heidelberg, v. 105, p. 147-170.
7. Baer, G., **Schattner, U.**, Wachs, D., Sandwell, D., Wdowinski, S., Friedman, S., 2002. The lowest place on Earth is subsiding – An InSAR (interferometric synthetic aperture radar) perspective, *Geological Society of America Bulletin*, v. 114, no. 1, p. 12-23.

Professional Reports

1. **Schattner U.**, Ben-Avraham Z., Reshef M., Bar-Am G. and Lazar M. 2005. Development of parallel rifts across the northeastern Afro-Arabian plate, MDSRC-2005/5, Minerva Dead Sea Research Center, Tel Aviv University, Tel Aviv, 11 p.
2. **Schattner U.**, Ben-Avraham Z., Lazar M. and Hübscher, C., 2005. Tectonic isolation of the Levant basin offshore Galilee-Lebanon - Effects of the Dead Sea fault plate boundary on the Levant continental margin, eastern Mediterranean, MDSRC-2005/3, Minerva Dead Sea Research Center, Tel Aviv University, Tel Aviv, 26 p.
3. **Schattner, U.**, 2003. Geodetic monitoring of surface deformation along the western shores of the Dead Sea using GPS and InSAR observations: Jerusalem, Geological Survey of Israel Report No. GSI/28/03.
4. Wachs, D., Yeichieli, Y., Shtivelman, V., Baer, G., Raz, E., Rybakov, M., and **Schattner, U.**, 2000. Formation of sinkholes along the Dead Sea shores, Summary of findings from the first stage of research: Jerusalem, Geological Survey of Israel Report No. GSI/41/2000.
5. Baer, G., **Schattner, U.**, Wachs, D., Sandwell, D., Wdowinski, S., Friedman, S., 2000. The lowest place on Earth is subsiding – INSAR perspective: Jerusalem, Geological Survey of Israel Report No. GSI/36/2000.

Abstracts

1. **Schattner U.**, Ben-Avraham Z., Lazar M. and Hübscher C., 2006. Tectonic isolation of the Levant basin offshore Galilee-Lebanon - Effects of the Dead Sea fault plate boundary on the Levant continental margin, eastern Mediterranean, Geological Society of Israel annual meeting, Bet-Shean, P. 107.
2. **Schattner U.**, Ben-Avraham Z., 2006. Transform origin of the northern levant continental margin, eastern Mediterranean, Geological Society of Israel annual meeting, Bet-Shean, P. 105.

3. **Schattner U.**, Ben-Avraham Z., Lazar M. and Hübscher C., 2005. Tectonic isolation of the Levant basin offshore Galilee-Lebanon - Effects of the Dead Sea fault plate boundary on the Levant continental margin, eastern Mediterranean. IGCP 521 "Black Sea-Mediterranean Corridor during last 30 ky: Sea level change and human adaptation", First Plenary Meeting, October 8-15, Istanbul, Turkey.
4. Ben-Avraham Z., Goren-Inbar N., Almogi-Labin A., Avni Y. and **Schattner U.**, 2005. The Dead Sea fault: structure, palaeoclimate and influence on mankind. IGCP 521 "Black Sea-Mediterranean Corridor during last 30 ky: Sea level change and human adaptation", First Plenary Meeting, October 8-15, Istanbul, Turkey.
5. **Schattner U.**, Ben-Avraham Z., Reshef M., Bar-Am G. and Lazar M., 2005. Evidence for parallel rifting across the Arabian plate, Geological Society of Israel annual meeting, Mashabim, P. 104.
6. Ben-Avraham Z., Goren-Inbar N., Almogi-Labin A., Avni Y. and **Schattner U.**, 2004. The Dead Sea Fault and Human Dispersal. International conference on the East African Rift system, Evolution, Resources & Environment. June 20- 24, 2004 Addis Ababa, Ethiopia.
7. Ben-Avraham Z., Hall J. K., **Schattner U.**, Ben-Gai Y., Neev D. & Reshef M., 2004. New seismic insights into the tectonic and sedimentary processes offshore northern Israel and southern Lebanon, 1st IAAS Symposium, Bar Ilan University, Israel.
8. Ben-Avraham Z., Hall J. K., **Schattner U.**, Ben-Gai Y., Neev D. & Reshef M., 2004. New seismic insights into the tectonic and sedimentary processes in the northeastern Levant, 5th International Symposium on Eastern Mediterranean Geology, Thessaloniki, Greece.
9. Ben-Avraham Z., Hall J. K., **Schattner U.**, Ben-Gai Y., Neev D. & Reshef M., 2004. New insights into the tectonic and sedimentary processes in the northeastern Levant, Geological Society of Israel annual meeting, Hagoshrim.
10. **Schattner, U.**, Ben-Avraham, Z., Hübscher, C., 2003. Offshore Extension of the Carmel Structure and its Role in the Tectonic Setting of the Levant Basin: initial results, Geological Society of Israel annual meeting, Ein Boqeq, p. 104.
11. Ben-Avraham, Z., Hübscher, C., **Schattner, U.**, Lazar, M., Hall, J. K. and the GEMME team, 2002. Marine geophysical study of the Carmel structure offshore – northern Israel: initial results, Geological Society of Israel annual meeting, Ma'agan, p. 12.
12. **Schattner, U.**, Ben-Avraham, Z., Hübscher, C., Lazar, M., Hall, J. K. and the GEMME team, 2002. Offshore Extension of the Carmel Fault - initial results from the RV METEOR

Cruise, The 14th workshop on the Study Mediterranean Continental Margins of Israel, Haifa, p. 28-30.

13. Baer, G., **Schattner, U.**, Wachs, D., Sandwell, D. and Wdowinski, S., 2001. Radar Interferometric mapping of land subsidence along the Dead Sea Shores, Israel and Jordan, IAG International Symposium on Recent Crustal Movements (SRCM), Helsinki, Finland, August 27-31,
14. **Schattner, U.**, Wdowinski S., Wachs, D., Baer, G., Wust-Bloch, H., 2001. Geodetic monitoring of surface deformation along the western Dead Sea shores and in sinkholes sites, using GPS and InSAR measurements, Geological Society of Israel annual meeting, Elat, p. 105.
15. Baer, G., **Schattner, U.**, Wachs, D., Sandwell, D., Wdowinski, S., 2001. The lowest place on Earth is subsiding – An INSAR perspective, Geological Society of Israel annual meeting, Elat, p. 9.
16. **Schattner, U.**, Wdowinski S., Wachs, D., Wust-Bloch, H., 2000. GPS geodetic monitoring of surface deformation caused by the development of sinkholes along the Dead Sea shores, preliminary results, Geological Society of Israel annual meeting, Ma'alot, p. 110.