

## **Yizhaq Makovsky - Curriculum Vitae**

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Head, Applied Marine Exploration Laboratory,  
Dr. Moses Strauss Department of Marine Geosciences &  
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### **RESEARCH INTERESTS**

Active seafloor processes - potential geohazards and resources:

- Recent submarine mass transport – sliding and turbidity channels
- Seafloor gas, seepage and hydrates and their associated phenomena
- The working and impacts of environmental change
- The Messinian Salt, evolution and mechanisms

Multi-attribute 2D & 3D seismic methods in offshore exploration and development:

- Depth migration processing & analysis
- AVO processing & analysis
- Reservoir characterization
- Coherency & Spectral decomposition

Very high resolution acoustic profiling & imaging:

- Full phase sonar
- Shallow water imaging
- VHR multi-channel seismic
- Diffraction imaging
- Target characterization
- Synthetic Aperture Sonar (SAS) imaging

Crustal structure and evolution of the Levant Basin

## **EDUCATION:**

- 1987-1990 B.Sc. in Geophysics and Planetary Sciences, Tel-Aviv University, Israel.
- 1990-1997 Ph.D. in Geophysics; advisor Simon L. Klemperer. Stanford University, CA, USA.
- 1997-1998 Post-doctoral training; European Commission TMR URO network. PI Prof. Andres Perez-Estaun. CSIC-IJA, Barcelona, Spain.

## **ACADEMIC RANKS**

- 1997- 1998 **Post-doctoral research** scientist; European Commission TMR URO network; PI Andres Perez-Estaun; CSIC-IJA, Barcelona, Spain.
- 2002-2007 **Honorary academic research** and students' guidance in environmental, exploration, crustal, and geotechnical geophysics using seismic, acoustic, ground penetrating radar, and potential methods. Tel Aviv University, Geophysical Institute of Israel, Hebrew University, and Weizmann Institute of Science, Israel. Participant in Ethiopia Afar Lithospheric Experiment (EAGLE) international project.
- 2007 **Adjunct Research Associate**, Interuniversity Institute of Marine Sciences in Eilat, Eilat, Israel, and Rcanati Institute of Marine Studies, University of Haifa, Haifa, Israel.
- 2007-present **Senior Lecturer**, The Dr. Moses Strauss Department of Marine Geosciences, Leon H. Charney School of Marine Sciences, University of Haifa, Haifa, Israel.
- 2008-2010 **Department chair**, The Dr. Moses Strauss Department of Marine Geosciences, Leon H. Charney School of Marine Sciences (CSMS), University of Haifa, Haifa, Israel.
- 2011-present **Head of Applied Marine Exploration Laboratory**, Leon H. Charney School of Marine Sciences (CSMS), University of Haifa, Haifa, Israel.
- 2011-present **External Lecturer**, Grand Technion Energy Program, Technion – Israel Institute of Technology, Haifa, Israel.
- 2014-present **Joint faculty appointment**, Hatter Department of Marine Technologies (in establishment), Leon H. Charney School of Marine Sciences, University of Haifa, Haifa, Israel.

## **PROFESSIONAL POSITIONS AND EXPERIENCE**

- 1992-1997 **Managed the wide-angle seismic component** of INDEPTH-1 (1992 three-month field season) and INDEPTH-2 (1994 six-month field season) in southern Tibet. Responsible for planning, field teams management, data analysis, and reporting. Participant in Wilkes Basin geophysical transect (1992-3 three months field operation) in west Antarctica.

- 1998-1999 **Manager of Paradigm quality assurance department.** Also investigation of particular imaging issues.
- 2000-2007 **Paradigm: senior consulting geophysicist** performing worldwide on-site service, technology transfer, support, and quality assurance. Specialized on use and development of Paradigm Epos product suite. Carried out time processing, 2D and 3D velocity analysis and PreSDM, AVO, reservoir characterization, and time-depth conversion projects for Exxon-Mobile, Total, PetroBrass, EcoPetrol, Isramco, PDVSA, TPAO, and others; in Canada, France, Angola, China, Venezuela, Colombia, US, UK, Turkey, and more. Also carried on-site training for Paradigm and clients in India, Canada, China, Angola, Israel, Mexico, Brazil, and more. Produced internal reports and developed methodologies that can not be detailed due to confidentiality.
- 2008-present **Geophysical consulting and services** to commercial and public exploration and production (E&P) and infrastructure development projects, mostly in Israel. Lead, conducted and participated in processing and analysis projects with EDT, Noble Energy, Oceana, Ocean Sciences, Ratio Oil, Afek and Adira Energy.
- 2008-present **Cruise leader** on several marine research and commercial expeditions including seismic acquisition and remotely operated vehicle operations with CSMS, IOLR, IFE and EDT.
- 2010-2013 **Member of an internal committee** on development of the Israel's academic infrastructure related with the offshore gas and oil industry, Israel Academy of Science and Humanities.
- 2011-present **Technical manager, science coordinator and core committee member,** University of Haifa led ten-institute consortium Mediterranean Sea Research Center of Israel (MERC).

## MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

American Geophysical Union (AGU) – since 1991

Society of Exploration Geophysicists (SEG) – since 1999

Geological Society of Israel – since 2002

American Association of Petroleum Geologists (AAPG) – since 2012

Israel Association of Aquatic Sciences (IAAS) – since 2008

## TEACHING

### Courses

Name of Course	Type of Course Lecture/Seminar/Workshop	Degree
<i>Geophysical methods in research of the marine environment</i>	Department of Marine Geosciences, University of Haifa.	M.Sc. / Ph.D.
<i>Analysis and processing of seismic data.</i>	Department of Marine Geosciences, University of Haifa.	M.Sc. / Ph.D.

<i>Workshops in seismic processing.</i>	Semesterial workshop courses. Department of Marine Geosciences, University of Haifa.	M.Sc. / Ph.D.
<i>Workshops on seismic processing and interpretation in the Paradigm environment.</i>	Concentrated 1-2 days courses for the Department and external faculty, students and other professionals.	M.Sc. / Ph.D. / professionals
<i>An introduction to oil and gas geophysics</i>	Natural Gas & Petroleum Engineering program, Technion.	M.E.

### **Supervision of Graduate Students**

Students graduated:

<b>Name of Student</b>	<b>Title of Thesis</b>	<b>Degree</b>	<b>Department and co-advisors</b>	<b>Graduation date</b>
Boaz Gatteno	<i>Quantitative electromagnetic mapping of soil composition and archaeological remains in agricultural areas: Mapping the eastern Roman circus of Caesarea.</i>	M.Sc.	Department of Geophysics and Planetary Sciences, Tel Aviv University.	Cum laude 2006
Gal Hartman	<i>The structure of the transition zone from deep to shallow basins along a transform fault: the northern Gulf of Eilat Aqaba case example</i>	Ph.D.	Department of Geophysics and Planetary Sciences, Tel Aviv University; Co-advisor with Z. Ben-Avraham and G. Tibor	2012
Isaak Elhanaty	<i>High Resolution seismic characterization of shallow gas bearing sediments, North Western Sea of Galilee, Israel</i>	M.Sc.	Department of Marine Geosciences, University of Haifa	2014
Yaniv Marig	<i>A New Look at the Tectonic Evolution of the Palmahim Disturbance</i>	M.Sc.	Department of Geological and Environmental Sciences, Ben-Gurion University; Co-advisor with Shimon Feinstein and Yuval Ben Gai.	2015
Assaf Tsabar	<i>Monitoring the dynamics of the hydrological system in Mineral Beach sinkholes, Dead Sea.</i>	M.Sc.	Department of Marine Geosciences, University of Haifa; Co-advisors E. Shalev	2015

			and A. Sagy, Geological Survey of Israel.	
Omri Gadol	<i>Submarine slides: shaping of the continental slope offshore Israel</i>	M.Sc.	Department of Marine Geosciences, University of Haifa	2015
Murad Safadi	<i>Long lasting continued activity of buried mass transport deposits in the southeast Levant margins</i>	M.Sc.	Department of Marine Geosciences, University of Haifa	2015
Oded Ezra	<i>Topology and formation settings of deep water carbonates at the boundaries of the Palmahim Disturbance, offshore Israel</i>	M.Sc.	Department of Marine Geosciences, University of Haifa	2017

Students in progress:

<b>Name of Student</b>	<b>Title of Thesis</b>	<b>Degree</b>	<b>Department and co-advisors</b>
Ziv Tyber	<i>Methane hydrate stability and potential reserves in the Levant basin</i>	M.Sc.	Department of Marine Geosciences, University of Haifa
Liad Bar-Zvi	<i>Geomechanical characterization of marine sediments: an updated tool for studying submarine slides on the continental slope of Israel</i>	M.Sc.	Department of Marine Geosciences, University of Haifa
Ravit Ben-Naim	<i>Petrophysical properties of shallow marine sediments offshore Haifa Bay, Northern Israel with implication on fluid flow inhibition</i>	M.Sc.	Department of Marine Geosciences, University of Haifa; Co-advisor with Nicolas Waldmann
Matan Elad	<i>Time constraints and sedimentary structures of recent submarine landslides on the continental slope of Israel: a tool for hazard assessments in an active landslides province</i>	M.Sc.	Department of Marine Geosciences, University of Haifa; Co-advisor: Revital Bukman
Mor Arnon	<i>Geomorphological insights into the evolution of the Israeli continental shelf since the Pleistocene</i>	M.Sc.	Department of Marine Geosciences, University of Haifa; Co-advisor with Nicolas Waldmann
Inbal Lifshitz	<i>The Kinematics of the Dor Disturbance</i>	M.Sc.	Department of Marine Geosciences, University of Haifa
Nadav Bronshtein	<i>Gravity study of the Moho boundary beneath the northern Dead Sea Transform</i>	M.Sc.	Department of Marine Geosciences, University of Haifa; Co-advisor with Uri tenBrink
Yaniv Alter	<i>CT scanning of seafloor sediments</i>	M.Sc.	Department of Marine

	<i>(preliminary title)</i>		Geosciences, University of Haifa
Gal Goldshtein	<i>Seismo-electric geophysical target detection (preliminary title)</i>	M.Sc.	Department of Marine Geosciences, University of Haifa
Jie Liu	<i>Miocene evolution of the deep Levant Basin (preliminary title)</i>	M.Sc.	Department of Marine Geosciences, University of Haifa
Shiwei Wang	<i>Velocity structure of the Levant middle crust (preliminary title)</i>	M.Sc.	Department of Marine Geosciences, University of Haifa
Omri Gadol	<i>Very high resolution multichannel profiling sub-marine slides (preliminary title)</i>	Ph.D.	Department of Marine Technologies, University of Haifa

### **Supervision of post-doctoral trainees**

<b>Name of trainee</b>	<b>Primary research topic</b>	<b>Period</b>	<b>Department</b>
Devrim Tezcan	<i>Recent tectonics in the Sea of Marmara</i>	2009-2012	Department of Marine Geosciences, University of Haifa
Ari Meilijson	<i>The Messinian Salinity Crisis from new commercial drill hole sampling</i>	2014-2016	Department of Marine Technologies, University of Haifa
Erika Barison	<i>The Messinian Salt in the Alegro-Balearic basin – SALTFLU project</i>	2016	Department of Marine Geosciences, University of Haifa

## **PUBLICATIONS**

### **Articles in Refereed Journals**

#### Published

1. Zhao, W., K.D. Nelson, and project **INDEPTH team**, (1993) Deep seismic reflection evidence for continental underthrusting beneath southern Tibet, *Nature*, 366, 557-559 (**Y. Makovsky** appears on the affixed list of INDEPTH team).
2. **Makovsky, Y.**, S.L. Klemperer, L. Huang, D. Lu, and project INDEPTH team, (1996) Structural elements of the southern Tethyan Himalaya crust from wide-angle seismic data, *Tectonics*, 15, 5, 997-1005.
3. Nelson, K. D., W. Zhao, L. D. Brown, J. Kuo, J. Che, X. Liu, S. L. Klemperer, **Y. Makovsky**, R. Meissner, J. Mechie, R. Kind, F. Wenzel, J. Ni, J. Nabelek, L. Chen, T. Handong, W. Wu, A. G. Jones, J. Booker, M. Unsworth, W. S. F. Kidd, M. Hauck, D. Alsdorf, A. Ross, M. Cogan, C. Wu, E. Sandvol, and M. Edwards, (1996) Partially molten middle crust beneath southern Tibet: synthesis of project INDEPTH results, *Science*, 274, 1684-1688.
4. **Makovsky, Y.**, S. L. Klemperer, L. Ratschbacher, L. D. Brown, M. Li, W. Zhao, and F. Mung, (1996) INDEPTH wide-angle profiling in southern Tibet: magma beneath the Tibetan rift system, *Science*, 274, 1690-1691.

5. ten Brink, U.S., R.I. Hackney, S. Bannister, T.A. Stern, and **Y. Makovsky**, (1997) Uplift of the Transantarctic mountains and the bedrock beneath the East Antarctic ice sheet, *Journal of Geophysical Research*, 102 (B12), 27,603-27,621.
6. Alsdorf, D., **Y. Makovsky**, Z. Wenjin, L.D. Brown, K.D. Nelson, S.L. Klemperer, M. Hauck, A. Ross, M. Cogan, M. Clark, J. Che, and J. Kuo, (1998) INDEPTH (International Deep Profiling of Tibet and the Himalaya) multi-channel seismic reflection data: Description and availability, *Journal of Geophysical Research*, 103 (B11), 26,993-26,999.
7. Alsdorf, D., L.D. Brown, K.D. Nelson, **Y. Makovsky**, S.L. Klemperer, and W. Zhao, (1998) Crustal deformation of the Lhasa terrain, Tibet Plateau from INDEPTH (International Deep Profiling of Tibet and the Himalaya) seismic reflection profiles, *Tectonics*, 17 (4), 501-519.
8. **Makovsky, Y.**, and S.L. Klemperer, (1999) Measuring the seismic properties of Tibetan bright-spots: Evidence for free aqueous fluids in the Tibetan middle crust, *Journal of Geophysical Research*, 104 (B5), 10,795-10,825.
9. **Makovsky, Y.**, S.L. Klemperer, L. Ratschbacher, and D. Alsdorf, (1999) Mid-crustal reflector truncating the India-Asia suture from INDEPTH wide-angle seismic profiling in southern Tibet?, *Tectonics*, 18 (5), 793-808.
10. **Makovsky, Y.**, A. Wunch, R. Ariely, Y. Shaked, A. Rivlin, A. Shemesh, Z. Ben-Avraham, A. Agnon, (2008) Quaternary transform kinematics constrained by sequence stratigraphy and submerged coastline features: The Gulf of Aqaba, *Earth and Planetary Science Letters*, 271, 109-122.
11. Zhao, W., L. Brown, Z. Wu, S.L. Klemperer, D. Shi, J. Mechie, H. Su, F. Tilmann, M. Karplus, **Y. Makovsky**, (2008) Seismology near the NE Edge of the Tibetan Plateau, *EOS Transactions, AGU*, 89 (48), 487.
12. Schattner U., Lazar M., Tibor G., Ben-Avraham Z., and **Makovsky Y.**, (2010) Filling up the shelf – a sedimentary response to the last post-glacial sea rise, *Marine Geology*, 278, 165–176.
13. Coleman, D.F., J.A. Austin Jr, Z. Ben-Avraham, **Y. Makovsky** and Tchernov D., (2012) Seafloor pockmarks, deepwater corals, and cold seeps along the continental margin of Israel, In Bell, K.L.C., K. Elliott, C. Martinez, and S.A. Fuller (eds.) *New Frontiers in Ocean Exploration: The E/V Nautilus and NOAA Ship Okeanos Explorer 2011 Field Season*, *Oceanography*, 25(1), supplement, p. 41-44.
14. Katsman, R., I. Ostrovsky, **Y. Makovsky** (2013) Methane bubble growth in fine-grained muddy aquatic sediment: Insight from modelling, *Earth and Planetary Science Letters*, 377–378, 336–346.
15. S.L. Klemperer, B.M. Kennedy, S.R. Sastry, **Y. Makovsky**, T. Harinarayana, M.L. Leech (2013) Mantle fluids in the Karakoram fault: Helium isotope evidence, *Earth and Planetary Science Letters*, 366, 59–70
16. Rubin-Blum, M., G. Antler, A.V. Turchyn, R. Tsadok, B.N. Goodman-Tchernov, E. Shemesh, J.A. Austin Jr., D.F. Coleman, **Y. Makovsky**, O. Sivan, D. Tchernov (2014) Hydrocarbon-related microbial processes in the deep sediments of the Eastern Mediterranean Levantine Basin, *FEMS Microbiology Ecology*, 87(3), 780-796, DOI: 10.1111/1574-6941.12264.

17. Hartman, G., Z. Ben-Avraham, G. Tibor, T.M. Niemi, A. Al-Zoubi, R. A. Sade, J. K. Hall, E. Akawi, A. Abueladas, R. Al-Ruzouq, **Y. Makovsky** (2014) Distinct relict fringing reefs in the northern shelf of the Gulf of Elat/Aqaba: markers of Quaternary eustatic and climatic episodes, *Sedimentology*, doi: 10.1111/sed.12179.
18. Hartman, G., T.M. Niemi, G. Tibor, Z. Ben-Avraham, R. A. Al-Zoubi, **Y. Makovsky**, E. Akawi, A. Abueladas, R. Al-Ruzouq (2014) Quaternary tectonic evolution of the northern Gulf of Aqaba/Elat along the Dead Sea Transform, *Journal of Geophysical Research*, 119, doi:10.1002/2013JB010879.
19. Gvirtzman, Z., M. Reshef, O. Buch-Leviatan, G. Groves-Gidney, Z. Karcz, **Y. Makovsky**, Z. Ben-Avraham, (2015) Bathymetry of the Levant basin: interaction of salt-tectonics and surficial mass movements, *Marine Geology*, 390, 25-39.
20. Eruteya, O. E., N. Waldmann, D. Schalev, **Y. Makovsky** and Z. Ben-Avraham, (2015) Intra- to Post-Messinian deep-water gas piping in the Levant Basin, SE Mediterranean, *Marine and Petroleum Geology*, 66 (1), 246-261.
21. Sela-Adler, M., B. Herut, I. Bar-Or, G. Antler, E. Eliani-Russak, E. Levy, **Y. Makovsky**, O. Sivan, (2015) Geochemical evidence for biogenic methane production and consumption in shallow sediments of the SE Mediterranean shelf (Israel), *Continental Shelf Research*, 101, 117-124.
22. Sagy, Y., Z. Gvirtzman, M. Reshef and **Y. Makovsky**, (2015) The Enigma of the Jonah high in the Middle of the Levant Basin and its Significance to the History of Rifting, *Tectonophysics*, 665, 186-198.
23. Shtienberg, G., J. Dix, N. Waldmann, **Y. Makovsky**, A. Golan, D. Sivan, (2016) Late-Pleistocene evolution of the continental shelf of central Israel, a case study from Hadera, *Geomorphology*, 261, 200–211.
24. Safadi, M., A. Meilijson, **Y. Makovsky**, (2017) Long lasting continued activity of buried mass transport deposits in the southeast Levant margin, *Tectonics*, (*published online*).

#### **Chapters in Books (refereed)**

1. Eruteya, O. E., M. Safadi, N. Waldmann, **Y. Makovsky** and Z. Ben-Avraham, (2015) Seismic geomorphology of the Israel Slump Complex in the central Levant Basin, in *Lamarche G. et al., Submarine Mass Movements and Their Consequences, 7th international symposium, Advances in Natural and Technological Hazards Research*, 41, 39-47.

#### **Conference Extended Abstracts**

1. **Makovsky, Y.**, A. Canning, E. Ragoza, and A. Guchter, (1999) Removing Acquisition footprints in 3D pre-stack migration – an example, *Extended Abstract Book, EAGE 61 Conference and Technical Exhibition*, 6-05.
2. Katsman, R., I. Ostrovsky, **Y. Makovsky**, (2013) Finite element modeling of buoyancy-driven methane bubble growth in muddy aquatic sediment, In *J.S. Papadakis, L. Bjorno (eds.) The 1st International Conference and Exhibition on Underwater Acoustics*, pp. 1653-1558.

### **Other Scientific and Technical Publications**

1. **Makovsky, Y.** , and B. Pinshau , (1982) Cerastes Vipera - a snake of wondering sands (in Hebrew), *Teva vaAretz*, 24, (6), 250-253.
2. **Makovsky, Y.** , (1995) Ground penetrating radar measurements, in U.S. ten Brink and S. Bannister , *EAST93 - geophysical traverse from the Transantarctic mountains to the Wilkes basin, east Antarctica, A joint U.S. - N.Z. Science project, U.S. Geological Survrvey Open File Report 95-225*, p. A3.1-A3.5.
3. Ben-Gai, Y., U. Frieslander, M. Reznikov, **Y. Makovsky**, M. Rybakov, L. Fleischer, Y. Rotstein, and R. Hofstetter, (2002) The deep structure and stratigraphy of Central Israel, *Geophysical Institute of Israel Report 825/171/02*.
4. **Makovsky, Y.**, A. Agnon, R. Ariely, Z. Ben-Avraham, A. Shemesh, C. Zion, A. R. Sade, (2005) Mapping the active morphotectonic system in the head of Eilat Gulf using existing acoustic data – 2004 end of year report, *Israel Ministry of Infrastructure report ES-22-2004* .
5. **Makovsky, Y.** and A. Collyer-Todd, 2007, GeoDepth 3D Training Manual-Section One, Paradigm, pp. 175.
6. **Makovsky, Y.** and A. Collyer-Todd, 2007, GeoDepth 3D Training Manual -Section Two, Paradigm, pp. 196.
7. **Makovsky, Y.** and A. Collyer-Todd, 2007, GeoDepth 3D Training Manual -Section Three, Paradigm, pp. 182.
8. **Makovsky, Y.** and A. Collyer-Todd, 2007, GeoDepth 3D Training Manual -Instructor's Guide, Paradigm, pp. 28.
9. **Makovsky, Y.**, I. Elhanaty, (2009) Application of advanced very-high-resolution multi-channel seismic reflection technology to the estimation of recent activity of the Carmel fault, and its associated submarine hydrologic system: a feasibility test, *Israel Ministry of Infrastructure report ES-49-2009*, pp. 8.
10. **Makovsky, Y.**, (2010) Oceana - Noble Energy gas pipe alternative routes survey: Sub-bottom profile data processing and interpretation report, pp. 20.
11. **Makovsky, Y.**, I. Elhanaty D. Tezcan, (2011) Application of advanced very-high-resolution multi-channel seismic reflection technology to the estimation of recent activity of the Carmel fault, and its associated submarine hydrologic system: a feasibility test, *Israel Ministry of National Infrastructures Earth Science Research Administration, Report ES-49-2009*, pp. 8.
12. **Makovsky, Y.**, (2011) Adira Energy: Profiles 94-310, 94-320 - processing report, pp. 60.
13. **Makovsky, Y.**, (2011) Adira Energy Gabriella Yitzhak Licenses: Profile IS-1004 - AVO processing report, pp. 50.
14. **Makovsky, Y.**, (2011) Adira Energy Gabriella Yitzhak Licenses: Profile IS\_1004 Depth Migration Project - processing report, pp. 28.
15. **Makovsky, Y.**, (2011) Adira Energy Gabriella Yitzhak Licenses: Profile IS-2035 – Depth Migration report, pp. 8.
16. **Makovsky, Y.**, (2011) EDT-Zukim Hof Carmel project 2011 – sub-bottom profiling report, pp. 6.

17. Gvirtzman, Z., **Y. Makovsky**, Y. Sagy, (2011) Reprocessing and geological interpretation of old seismic lines in the Haifa Bay, *Geological Survey of Israel Report GSI/27/2011*, pp. 15.
18. Goldman, M., U. Kafri, **Y. Makovsky**, E. Levi (2012) Detection of saline groundwater bodies along the Be'er Sheva valley between the Dead Sea and the proximity of the Mediterranean Sea using geo-electric methods, *A report produced for: The Governmental Authority for Water and Sewage, State of Israel, Report no. CSMS-2012/DMG-01, Haifa*, pp. 84.
19. **Makovsky, Y.**, (2012) EDT-Zukim Bat-Yam project 2011 – sub-bottom profiling report, pp. 5.
20. **Makovsky, Y.**, (2013) Ocean-Science Israel Ports Haifa Bay Single Channel Imaging Project - Processing Report, pp. 4.
21. **Makovsky, Y.**, U. Schattner (2014) Geological seafloor elements on the continental shelf between Hertzlia and Hadera based on processing and interpretation of a high resolution seismic survey (in Hebrew), *A report prepared for the Emek Hefer Municipality, CSMS-2014/DMG-01, Haifa*, pp. 8.
22. **Makovsky, Y.**, (2014) Marteam Ltd. – Israel Ports – Israel Antiquities Authority: Haifa Port– Shallow Sub-bottom Reflection Project Final Report, *AMEL*, pp. 14.
23. **Makovsky, Y.** (2015) Ratio Oil: SaraMira Block Spectral Decomposition Project, Final report, *A report prepared for Ratio Oil, AMEL*, pp. 26.
24. **Makovsky, Y.** (2015) Marteam Ltd. – Israel Ports Hamifratz Port, Haifa - Preliminary Surveying Sub-bottom Profiling Component Final report, *AMEL*, pp. 22.
25. **Makovsky Y.**, G. Tibor, B. Herut, M. Kanari, O. Sivan, G. Antler, R. Bookman, B. Spiro, M. Safadi, O. Gadol, L. Bar-Zvi, M. Elad, A. Surdyaev (2016) Characterizing and timing the latest submarine slides offshore Israel – an essential basis for coastal and offshore development risk assessment - path B, *A final report submitted to the Ministry of Science Technology*, pp. 51.
26. Lotan, T., **Y. Makovsky** (2016) Repelling jellyfish flocks through active self-response to acoustic disturbance – a preliminary feasibility test, *A final report (in Hebrew) submitted to Electricity Company of Israel*, pp. 21.
27. **Makovsky, Y.** (2016) Ratio Oil – Edison – Israel Opportunity: Gal Spectral Decomposition Project Report, *AMEL*, pp. 19.
28. **Makovsky, Y.**, A. Rüggeberg, O. Bialik, A. Foubert, A. Almogi-Labin, Y. Alter, V. Bampas, D. Basso, E. Feenstra, R. Fentimen, O. Friedheim, E. Hall, O. Hazan, B. Herut, E. Kallergis, A. Karageorgis, A. Kolountzakis, L. Manousakis, M. Nikolaidis, F. Pantazoglou, E. Rahav, P. Renieris, N. Schleinkofer, G. Sisma Ventura, V. Stasnios, A. Weissman, and the EUROFLEETS2 SEMSEEP Participants, (2017) R/V AEGAE0 Cruise EUROFLEETS2 SEMSEEP, *EUROFLEETS2 Cruise Summary Report, Friburg, Switzerland*, pp. 62.

### Student's theses

- Gatteno, B. (2006) Quantitative electromagnetic mapping of soil composition and archaeological remains in agricultural areas: Mapping the eastern Roman circus of Caesarea, *M.Sc. Thesis (in Hebrew)*; Advisors: Z. Ben-Avraham, S. Marco, **Y. Makovsky**, Department of Geophysics and Planetary Sciences, Tel Aviv University, pp. 128.
- Hartman, G. (2012) Quaternary evolution of a transform basin: The northern Gulf of Eilat-Aqaba, *PH.D. Dissertation*; Advisors: Z. Ben-Avraham, G. Tibor, **Y. Makovsky**, Department of Geophysics and Planetary Sciences, Tel Aviv University, pp. 107.
- Elhanaty, I. (2014) High Resolution seismic characterization of shallow gas bearing sediments, North Western Sea of Galilee, Israel, *M.Sc. Thesis*; Advisor: **Y. Makovsky**, The Moses Strauss Department of Marine Geosciences, University of Haifa, pp. 110.
- Marig, Y. (2015) A New Look at the Tectonic Evolution of the Palmahim Disturbance, *M.Sc. Thesis (in Hebrew)*; Advisors: S. Feinstein, Y. Ben Gai, **Y. Makovsky**, Department of Geological and Environmental Sciences, Ben-Gurion University, pp. 122.
- Tsabar, A. (2015) Monitoring the dynamics of the hydrological system in Mineral Beach sinkholes, Dead Sea, *M.Sc. Thesis*; Advisors: **Y. Makovsky**, E. Shalev, A. Sagy, The Moses Strauss Department of Marine Geosciences, University of Haifa, pp. 110.
- Gadol, O. (2015) Submarine slides: shaping of the continental slope offshore Israel, *M.Sc. Thesis*; Advisor: **Y. Makovsky**, The Moses Strauss Department of Marine Geosciences, University of Haifa, pp. 97.
- Safadi, M. (2015) Long lasting continued activity of buried mass transport deposits in the southeast Levant margins, *M.Sc. Thesis*; Advisor: **Y. Makovsky**, The Moses Strauss Department of Marine Geosciences, University of Haifa, pp. 97.
- Ezra, O. (2017) Topology and formation settings of deep water carbonates at the boundaries of the Palmahim Disturbance, offshore Israel, *M.Sc. thesis*, Advisor: **Y. Makovsky**, The Moses Strauss Department of Marine Geosciences, University of Haifa, Haifa, Israel.

### **Conference Abstracts**

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