

R E S U M E

1. Personal Details

Date of Birth: October, 1964, Romania

Marital Status: Married, two children

Permanent Home Address: Moshav Sde Itzhak, Israel

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Personal webpage:

2. Academic Degrees

1999: Ph.D., Mech. Engineering, Technion, Israel Institute of Technology, Prof. Itzhak Etsion

1995: M.Sc., Mech. Engineering, Technion, Israel Institute of Technology, Prof. Itzhak Etsion

1987: B.Sc., Mech. Engineering, Technion, Israel Institute of Technology

3. Academic Appointments

<i>Year</i>	<i>Name of Institution and Department</i>	<i>Rank/Position</i>
2023 - date	Technion, Israel Institute of Technology, Faculty of Mechanical Engineering	Associate Professor
2022 – 2023	University of Haifa research authority	Member of steering committee (elected)
2014 – 2023	University of Haifa, The Hatter Department of Marine Technologies	Head of Department
2014 – 2023	University of Haifa, The Hatter Department of Marine Technologies	Associate Professor (Specialist)
2005 – 2023	Technion, Israel Institute of Technology, Faculty of Mechanical Engineering	Adjunct Senior Teaching Fellow

4. Professional Experience

<i>Dates</i>	<i>Activity</i>
2012 - 2023	Owner and CEO of GALIM, Marine Engineering, Design & Consultancy. GALIM provides a comprehensive range of mechanical engineering and cutting-edge design services to the naval, marine, offshore, and industrial sectors. GALIM services focus on Naval Architecture & Marine Engineering, Concept Design & Technical Solutions, Mechanical Engineering and Consultancy Services.
2005 - 2015	Head of the Naval Architecture & Marine Engineering cell, The Association of Engineers and Architects in Israel
2007 - 2010	Head of Naval Architecture and Marine Engineering (NA&ME) Department (Captain Navy – "Aluf-Mishne"), Israeli Navy Headquarters, Israeli Navy. Responsible for the design, development and retrofit in the Naval Architecture and Marine Engineering aspects for the new and existing Navy's marine platforms. Conduct and instruct a team of 70 Mechanical Engineers and Naval Architects.
2005 - 2007	Head of the Naval Architecture Branch (Commander Navy – "Sgan-Aluf"), Israeli Navy Headquarters, Israeli Navy. Lead the design, development and analysis of the Naval Architecture aspects for the new and existing Navy's marine platforms. Conduct and instruct a team of 30 mechanical engineers and naval architects.
2002 - 2005	Head of the Marine Engineering Branch (Commander Navy – "Sgan-Aluf"), Israeli Navy Headquarters, Israeli Navy. Lead the design and development of propulsion and other mechanical systems for new and existing Navy surface vessels and submarines. Conduct and instruct a team of 20 mechanical engineers.
2000 - 2002	Head of the Engineering Squadron (Commander Navy – "Sgan-Aluf"), Israeli Navy Shipyard, Israeli Navy. Development of maintenance concepts and design of retrofits for mechanical and hydraulic systems. Analysis of failures in diesel engines and other mechanical equipment. Responsible of the shipyard's technical design office, metallurgical laboratory and workshops.
1999 - 2000	Head of the mechanical workshop (Lieutenant Commander Navy – "Rav-Seren"), Israeli Navy Shipyard, Israeli Navy. Development of maintenance procedures and troubleshooting of complicated failures in Navy's vessels mechanical systems. In charge of 100 employees, technicians and engineers.
1995 - 1997	Head of the mechanical systems department (Lieutenant Commander Navy – "Rav-Seren"), Marine Engineering Branch, Israeli Navy Headquarters, Israeli Navy. Group leader responsible for the design of mechanical components and retrofits for propulsion and auxiliary systems installed onboard the Israeli Navy surface vessels.
1991 - 1995	Chief marine engineer (Lieutenant Commander Navy – "Rav-Seren") for the SA'AR5 corvette technical team at Ingalls Shipbuilding Inc., MS, U.S.A. Development of propulsion elements and control algorithms for the corvette's propulsion system, part

	of the team for the design of the propulsion, auxiliary and damage control systems, responsible for the analysis of sea trials experiments and ship performance tests.
1987 - 1991	Design engineer (Lieutenant Navy – "Seren"), Marine Engineering Branch, Israeli Navy Headquarters, Israeli Navy. Design of mechanical elements and power systems for new and existing Navy vessels.

5. Research Interest

My research focus encompasses the propulsion and maneuvering of marine platforms, the utilization of water-lubricated tribological components, as well as the design and development of mechanical components intended for deployment in the challenging marine environment.

6. Teaching Experience

<i>Year</i>	<i>Course Title</i>	<i>Role</i>	<i>Level</i>	<i>Institution</i>
2019 – date	Underwater Marine Vehicles (400420)	Main teacher	Graduate	School of Marine Sciences, University of Haifa
2018 – date	Fundamentals in Underwater Engineering (400419)	Main teacher	Graduate	School of Marine Sciences, University of Haifa
2010 – date	Hydrodynamic Lubrication (03610)	Main teacher	Graduate	Faculty of Mechanical Engineering, Technion
2007 - 2010	Mechanical Engineering Design 1 (034015)	Main teacher	Undergraduate	Faculty of Mechanical Engineering, Technion
2005 – date	Mechanical Engineering Design 2 (034016)	Main teacher	Undergraduate	Faculty of Mechanical Engineering, Technion

7. University Activities

<i>Years</i>	<i>Activity</i>
2018 – date	MSc exam committees at the Technion Israel institute of technology
2018 – date	MSc exam committees at the University of Haifa
2020 – date	MSc exam committees at the Ben-Gurion University

2020 – date	PhD exam committees at the Technion Israel institute of technology
2020 – date	PhD exam committees at the University of Haifa
2021 – date	PhD exam committees at the Ben-Gurion University

8. Public Professional Activities

a. Reviewing for Refereed Journal

<i>Years</i>	<i>Journal</i>
2019 – date	International Journal of Marine Engineers (IJME), Q2
2019 – date	Mechanics and Machine Theory, Q1
2019 – date	Journal of Engineering Tribology, Q2
2016 – date	Ocean Engineering, Q1
2018 – date	Tribology International, Q1

b. Evaluation for Academic Positions & Promotion Committees

<i>Years</i>	
2021	Promotion to Assistant Professor (YT), Tel-Aviv University
2021	Potential candidate review (ML), SEHM center in GTIIT, Technion International School

c. Reviewing for Funding Agencies

<i>Years</i>	<i>Agency</i>
2021	ABC (Agricultural, Biological and Cognitive) Robotics Initiative

9. Membership in Professional Associations

<i>Years</i>	<i>Association</i>
2022 – date	Member, the American Society of Mechanical Engineers (ASME)
2005 - date	Member, the Association of Engineers and Architects in Israel
2000 - date	Member, Israel Society for Tribology

10. Fellowships, Awards and Honors

<i>Years</i>	<i>Name of Award</i>	<i>Purpose of Award or Achievement</i>	<i>Source</i>
2020	Flores, P. Reviewer acknowledgments and awards	Recognition awards for distinction of reviewing in 2019	Mechanism and Machine Theory Journal
2018	Teaching excellence award	Teaching excellence	Technion – Center for Promotion of Learning and Teaching
2016	Teaching excellence award	Teaching excellence	Technion – Center for Promotion of Learning and Teaching
2015	Teaching excellence award	Teaching excellence	Technion – Center for Promotion of Learning and Teaching

11. Graduate Students

<i>Name of Student</i>	<i>Name of Additional Supervisors</i>	<i>Title of Thesis</i>	<i>Degree</i>	<i>Year of Graduation</i>	<i>Student's Achievements</i>
MSc Students					
Avishai Dov	Yuri Kligerman	On the influence of operational parameters on the performance of a water lubricated journal bearing	M.Sc. (<i>Technion</i>)	2017	
Allaka Himabindu		Motion Assessment of a Planing Craft in Seaway	M.Sc.	2017	summa cum laude
Ivgeni Gutnik		On the modification of the SPARUS II AUV for close range imaging survey platform	M.Sc.	2018	
Gil Maor		Development of a vectored thruster for AUV applications	M.Sc.	In progress	

Shani Heletz	Renata Klein Jacob Bortman (BGU)	Vibration Analysis of a Hydrodynamic Bearing	M.Sc. (BGU)	2020	
Yuri Katz		On the development of a small-size autonomous Lagrangian float to identify, follow and ultimately study Internal Waves	M.Sc.	2022	summa cum laude
Sharon Parver		Improving LARS operation for small AUVs in high seaway	M.Sc.	2022	
Tamar Yahav		Oceanic camera array	M.Sc.	Pending	
Hadas Cohen		Mitigation of heave accelerations in planing crafts	M.Sc.	2023 (estimated)	
Gregory Klein	Roman Goltsberg (Refael)	Pressure Field in a Water Lubricated Polymer Bearing	Preliminary research Track	Pending	
Eyal Dopleit	Nitai Dremer (Technion)	Dynamics of a T shaped Unmanned Underwater Vehicle	M.Sc. (Technion)	2024 (estimated)	
Tom Danan	Nitai Dremer (Technion)	TBD	M.Sc. (Technion)	2024 (estimated)	
Ph.D. Students					
Allaka Himabindu		Autonomous Operation of a Planing Craft in Seaway	Ph.D.	2022	
Ivgeni Gutnik		Robust launch and recovery operation of a small size AUV in sea way applying a deployable docking station concept	Ph.D.	2023 (estimated)	

Post-Doctoral Fellows					
Parsad Patil	Itzik Klein (UH)			Starting Oct. 2023	

12. Research Grants

a. Grants Awarded

<i>Role in Research</i>	<i>Other Researchers (Name & Role)</i>	<i>Title</i>	<i>Funded by (C= Competitive Fund)</i>	<i>Amount</i>	<i>Years</i>
lead-PI	Roman Goltsberg, co-PI	Numerical and Experimental Study of the Frictional Regimes in a Hydrodynamic Water Lubricated Bearing	Rafael Advanced Defense Systems (C)	59,130 NIS	2022 - 2023
lead-PI	Tali Treibitz, co-PI	Research in Components and Marine Systems	IMOD	214,600 NIS	2022 - 2023
lead-PI	Roman Goltsberg, co-PI	Numerical and Experimental Study of the Frictional Regimes in a Hydrodynamic Water Lubricated Bearing	Rafael Advanced Defense Systems (C)	100,000 NIS	2021 - 2022
PI	Maor Farid, Oleg Gendelman	Mitigation of vertical acceleration in planing crafts for enhanced operationability using hybrid passive energy absorbers	Peter Munk Research Institute (C)	46,241 NIS	2021 - 2022

co-PI	Roe Diamant, Aya Lazar	IW hunter: Smart drifter to record spatial evidence of internal waves	Ministry of Science, Technology and Space (C)	849,570 NIS	2020 - 2023
co-PI	Tali Treibitz, lead-PI Guy Gilboa, co-PI	3D Optical Obstacle Avoidance for Autonomous Underwater Vehicles in Complex Environments	Ministry of Science, Technology and Space (C)	700,000/2,100,000 NIS	2019-2021
lead-PI	Tali Treibitz, co-PI	Docking and LARS operation for small AUVs in high seaway	IMOD	300,000 NIS	2017-2019
PI		Health monitoring of a water lubricated hydrodynamic bearing	IMOD	110,000 NIS	2018-2019
lead-PI	Tali Treibitz, co-PI	Autonomy of planing crafts in seaway	IMOD	300,000 NIS	2016-2018
co-PI	Tali Treibitz, lead-PI Sagi Filin, co-PI	Our Eyes Beneath The Sea – a Holistic AUV Based Framework for Visual Seafloor Surveys	Ministry of Science, Technology and Space (C)	1,000,000/2,400,000 NIS	2016-2018

b. Submission of Research Proposals – Not Funded

<i>Role in Research</i>	<i>Other Researchers (Name & Role)</i>	<i>Title</i>	<i>Funded by (C= Competitive Fund)</i>	<i>Years</i>
PI	Maor Farid, Oleg Gendelman	Mitigation of vertical acceleration in planing crafts for enhanced operationability using hybrid passive energy absorbers	Peter Munk Research Institute (C)	2022
lead-PI	Roman Goltsberg, co-PI	Enhancing the Operability of Water	Pazy Foundation	2021

		Lubricated Journal Bearings by Surface Texturing		
PI	Itzik Klein	SubMagNav – Electromagnetic guidance system for AUV navigation during terminal docking phase	Amazon Research Awards 2020 (C)	2020
lead-PI	Tali Treibitz, Thomas Vogeles, co-PI	OceanEye- optical smart system for the identification and recognition of terrain features, organisms, objects, and structures underwater	Ministry of Science, Technology and Space (C) with BMBF	2018-2020
co-PI	Morel Groper, PI Andreas Birk, co-PI	Structures and litoral sealife probe and inspection demonstrator	Ministry of Science, Technology and Space (C) with BMBF	2018-2020

13. Publications

a. Ph.D. Dissertation

- 1) Groper, M., 1999, "New Aspects of the Cavitation Phenomenon in a Submerged Journal Bearing", Ph.D. Thesis under the supervision of Professor I. Etsion at the Technion, Israel Institute of Technology, 125 pages

b. Refereed papers in professional journals

- 1) Etsion, I., and **Groper, M.**, 1994, " The Accuracy of Analytical Solutions for the Temperature Distribution in Mechanical Face Seals," *Proceedings of the 14th International Conference on Fluid Sealing*, Firenze, Italy, 6-8 April 1994, pp. 341-350.
- 2) **Groper, M.**, and I. Etsion. "The effect of shear flow and dissolved gas diffusion on the cavitation in a submerged journal bearing." *Journal of tribology* 123.3 (2001): 494-500.
- 3) **Groper, M.**, and I. Etsion. "Reverse flow as a possible mechanism for cavitation pressure build-up in a submerged journal bearing." *Journal of tribology* 124.2 (2002): 320-326.
- 4) Gzal, M., **Groper, M.**, Gendelman, O., 2017, "Analytical, experimental and finite element analysis of elliptical cross-section helical spring with small helix angle under static load," *International Journal of Mechanical Sciences*, 130 (2017), pp. 476-486.

- 5) Allaka Himabindu, and **Groper Morel**. "Validation and verification of a planing craft motion prediction model based on experiments conducted on full-size crafts operating in real sea." *Journal of Marine Science and Technology* 25.4 (2020): 1199-1216, DOI 10.1007/s00773-020-00709-6
- 6) Allaka Himabindu, Levy Asaf, Levy Deborah, Triebitz Tali, and **Groper Morel**. "A Real time speed modulation system to improve operational ability of autonomous planing craft in a seaway." *International Journal of Maritime Engineering* 162.A4 (2020). *awarded the Institution's Medal by Royal Institute of Naval Architecture (RINA)*
- 7) Avishai, Dov, and **Groper Morel**. "Experimental Investigation of Lubrication Regimes of a Water-Lubricated Bearing in the Propulsion Train of a Marine Vessel." *Journal of Tribology* 143, no. 4 (2021).
- 8) Allaka Himabindu, and **Groper Morel**. "Speed–wave height operational envelope for high-speed planing craft in seaways: theoretical vs. empirical methods." *Ship Technology Research* (2021): 1-10.
- 9) Gutnik, Y., Avni, A., Treibitz, T., & **Groper, M.** (2022). On the Adaptation of an AUV into a Dedicated Platform for Close Range Imaging Survey Missions. *Journal of Marine Science and Engineering*, 10(7), 974.
- 10) Wei, Shanshan, and **Morel Groper**. "Implementation of the Elrod algorithm in practical design of an axial lubricant supply groove in journal bearings." *Journal of Tribology* 144, no. 12 (2022): 121801.
- 11) Allaka, Himabindu, Maor Farid, and **Morel Groper**. "Mitigation of vertical motion in planing crafts for enhanced operationability in seaways using passive energy absorbers–A test of concept." *Ocean Engineering* 264 (2022): 112434.
- 12) Matania O, Heletz S, Klein R, **Groper M**, Bortman J. "Toward diagnostics of water-lubricated bearings of naval vessels by vibration analysis." *Structural Health Monitoring*. 2022;0(0). doi:10.1177/14759217221125064
- 13) Katz, Yuri, and **Morel Groper**. 2022. "On the Development of a Mid-Depth Lagrangian Float for Littoral Deployment" *Journal of Marine Science and Engineering* 10, no. 12: 2030. <https://doi.org/10.3390/jmse10122030>

c. Books

- 1) Klebanov, B., and **Groper, M.**, "Power mechanisms of Rotational and Cyclic Motion," CRC press, 2016, 550 pages. [relative contribution].

d. Refereed papers in conference proceedings

- 1) Himabindu Allaka, **Morel Groper**, "Motion analysis of a small unmanned planing craft in seaway", ISME 2017, The 11th International Symposium on Marine Engineering, Tokyo, Japan, October 2017
- 2) Himabindu Allaka, **Morel Groper**, "Motion analysis of a small unmanned planing craft in seaway", The Israeli Association for Aquatic Sciences, Israel, November 2017

- 3) Allaka, Himabindu, Deborah Levy, Tali Treibitz, and **Morel Groper**. "Vision-aided speed modulation system to enhance seaworthiness of autonomous planing crafts." In 2018 15th Workshop on Positioning, Navigation and Communications (WPNC), pp. 1-6. IEEE, 2018.
- 4) Farber Sharon, Allaka Himabindu, Itzik Klien, & **Groper Morel**. "Estimating sea state using a low cost buoy." 2018 IEEE International Conference on the Science of Electrical Engineering in Israel (ICSEE). IEEE, 2018.
- 5) Allaka Himabindu, Levy Asaf, Levy Deborah, Triebitz Tali, and **Groper Morel**. " An Autonomous Speed Setting System to Enhance Operation of Unmanned Planing Crafts in a Seaway. Proceedings of the 6th International Conference on Ship & Offshore Technology, RINA,2019.
- 6) Yuri Katz and **Morel Groper**. "On the Development of a Mid Depth Lagrangian Float for Littoral Deployments." Ocean Sciences Meeting, February 24 – March 4, 2022
- 7) Yevgeni Gutnik, Aviad Avni, Tali Treibitz and **Morel Groper**. "On the Adaptation of an Existing AUV into a Dedicated platform for Close Range Imaging Survey Missions." Ocean Sciences Meeting, February 24 – March 4, 2022
- 8) Yevgeni Gutnik, Nadav Cohen, Itzik Klein, Morel Groper. "AUV Close-range Localization and Guidance Employing an Electro magnetic Beacon" ut23, March 6 – 9, 2023
- 9) Ariel Weizman, **Morel Groper**, Itzik Klein. "On the Enhancement of an Ocean Glider Navigation System" ut23, March 6 – 9, 2023

e. Patents granted

- 1) "Window Tape Alarm Interlock Device", U.S. Patent No. 4,808,973, Feb. 28, 1989.

f. Significant professional projects

Here are some of the unclassified projects I've worked on over the **last 6 years**:

<i>Year</i>	<i>Subject</i>	<i>Customer</i>
2022	Assessment of vertical accelerations at indicated locations on Shaldag Mk.V IN	Israel Shipyards
2022	OPV45 underwater exhaust discharge simulation using computational fluid dynamics (CFD)	Israel Shipyards
2022	ISY Syncrolift drive bogey failure analysis	Israel Shipyards
2022	Dynamic simulation of the filling and emptying sequence of a naval drydock	AFCON Control and Automation Ltd
2021	Analysis of the installation of subsea pipelines	Europe Asia Pipeline Company Ltd.

2021	Fatigue analysis of a patch repair on a 16” fuel pipe	Europe Asia Pipeline Company Ltd.
2021	OPV45 Whirling Vibration Analysis	Israel Shipyards
2021	Failure analysis of BMP dock door at Israel Shipyards	Israel Shipyards
2020	Failure analysis of a marine breakaway coupling	Europe Asia Pipeline Company Ltd.
2020	Finite element analysis of an Extra launcher for shipboard installation	IMI Systems, Elbit
2019	Cracks in RESINEX Y-piece fitting	Europe Asia Pipeline Company Ltd
2019	Antenna pole and launcher foundation installed on a fast patrol craft – dynamic analysis	Israel Shipyards
2019	Failure analysis of a deep well vertical turbine open lineshaft column	EMS Mekorot Projects
2018	Time Dependent Thermal Analysis of EXTRA Container with Variable Side Walls & Top Radiation	IMI Systems, Elbit
2018	Failure Analysis Cracks in the Welds of PLIDCO Weld+End Couplings	Europe Asia Pipeline Company Ltd
2018	Tailoring shipboard vibrations following MIL-STD-810G, Method 528 and MIL-STD- 167-1A	IMI Systems, Elbit
2017	Modeling and simulation of the lauv autonomous underwater vehicle	Israel Air Industry (IAI)
2017	An aero thermal analysis of a container missile system using computational fluid dynamics (CFD)	IMI Systems, Elbit
2017	Strength and fatigue analysis of a water vertical shaft turbine submersible pump	EMS Mekorot Projects
2016	Calculation of the temperature field developing in the welding process of W+E pipe coupling	Europe Asia Pipeline Company Ltd
2016	Failure analysis of a flanged elbow in a SBM system	Europe Asia Pipeline Company Ltd
2016	Analysis of causes of engines overheating in a 32m planing patrol craft	Israel Shipyards
2016	Analysis of an underwater scoop employing computational fluid dynamics (CFD)	Israel Shipyards

2016	S72 – Shaft line whirling analysis	Israel Shipyards
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14. Conferences

a. Plenary, keynote or invited talks

<i>Date</i>	<i>Name of Conference</i>	<i>Place of Conference</i>	<i>Subject of Lecture</i>
May 12, 2023	Advanced Industrial Technology Summit	HKUST campus, Hong Kong	Novel Marine Technologies for Environmental Monitoring

b. Contributed talks and posters

<i>Date</i>	<i>Name of Conference</i>	<i>Place of Conference</i>	<i>Subject of Lecture</i>
September 28, 2023	Breaking the Surface 2023	Kumbor, Montenegro	Novel Marine Technologies to Enhance Sub Sea Operations
March 6, 2023	International Symposium on Underwater technology	Tokyo, Japan	1) AUV Close -Range Localization and Guidance Employing an Electro Magnetic beacon 2) On the Enhancement of an Ocean Glider Navigation System
September 24, 2022	Naval Architecture and Marine Engineering Annual Conference	Israel Navy, Haifa Base	A Mid-Depth Lagrangian Float designed to identify and assist in the study of internal waves
February 24, 2022	Ocean Sciences Meeting	Online	
February 24, 2022	Ocean Sciences Meeting	Online	On the Development of a Mid Depth Lagrangian Float for Littoral Deployment On the Adaptation of an Existing AUV into a Dedicated platform for Close Range Imaging Survey Missions
November 19, 2018	Geo Policy, Geo Strategy and	Haifa Research Center for	Current Challenges in AUVs Technology

	Maritime Technologies in the Indian Ocean & the Indo-Pacific Region	Maritime Policy & Strategy, University of Haifa, Haifa, Israel	
October 10, 2018	ICME 2018: The 35th Israeli Conference on Mechanical Engineering	Ben-Gurion University of the Negev	Experimental study of a water lubricated journal bearing
October 1, 2018	Breaking The Surface (BTS), Croatia, 2018	Biograd na Moru, Croatia	Advanced Maneuvering and Vision Algorithms for Surveys with the SPARUS II AUV
October 16, 2017	ISME 2017, The 11 th International Symposium on Marine Engineering	Tokyo, Japan	Motion Analysis of a Small Unmanned Planing Craft in a Seaway
June 18, 2017	MOST Conference, 2017	Tel-Aviv, Israel	Our Eyes Beneath The Sea – a Holistic AUV Based Framework for Visual Seafloor Surveys – the Platform
October 27, 2016	The 13 nd Conference of the Israeli Association of Aquatic Sciences (IAAS)	Herzliya, Israel	The importance of maneuver capability on the AUV ability to perform delicate survey missions.
December 15, 2015	The Annual Israeli Conference on Underwater Robotics	Israel Navy, Haifa, Israel	Seaworthiness challenge in the development of a small, unmanned planing craft
December 18, 2008	2 nd . Conference of Naval Architecture & Marine Engineering, The Association of Engineers and Architects in Israel	Haifa, Israel	Failure analysis of an Arneson Drive propeller shaft
Jan. 29, 2007	1 st . Conference of Naval Architecture & Marine Engineering, The Association of Engineers and Architects in Israel	Haifa, Israel	Comparison and performance analysis of two similar planing crafts equipped with different propulsion systems in the Israeli Navy service

Feb. 25, 2004	The 16th Conference of the Israeli Tribology Society	Holon, Israel	The Failure Analysis of a Fast Patrol Boat Propeller Shaft
June 14 -15, 2000	The 28th Israel Conference on Mechanical Engineering	Beer-Sheba, Israel	The Effect of Shear Flow and Dissolved Gas Diffusion on the Cavitation in a Submerged Journal Bearing
April 6 – 8, 1994	The 14th International Conference on Fluid Sealing	Firenze, Italy	The Accuracy of Analytical Solutions for the Temperature Distribution in Mechanical Face Seals

c. Participation in organizing conferences

<i>Date</i>	<i>Name of Conference</i>	<i>Place of Conference</i>	<i>Role</i>
July 15, 2023	Conference on Naval Architecture, Marine and Offshore Engineering	University of Haifa, Haifa, Israel	Conference Organizer
July 2, 2019	Conference on Naval Architecture, Marine and Offshore Engineering	University of Haifa, Haifa, Israel	Conference Organizer
December 11, 2018	Workshop on Marine Technologies - From Marine Archeology to Internet of Underwater Things	University of Haifa, Haifa, Israel	Workshop Organizer
November 23, 2016	The 34 th Israeli Conference on Mechanical Engineering	Technion, Israel Institute of Technology	Session Organizer
November 14, 2014	The Annual Israeli Conference on Underwater Robotics	University of Haifa, Haifa, Israel	Conference Organizer
July 15, 2010	3rd. Conference of Naval Architecture & Marine	Haifa, Israel	Conference Organizer

	Engineering, The Association of Engineers and Architects in Israel		
December 18, 2008	2nd. Conference of Naval Architecture & Marine Engineering, The Association of Engineers and Architects in Israel	Haifa, Israel	Conference Organizer
January 29, 2007	1st. Conference of Naval Architecture & Marine Engineering, The Association of Engineers and Architects in Israel	Haifa, Israel	Conference Organizer