Name Date

**Ofira Ayalon April 2021**

**CURRICULUM VITAE**

**1. Personal Details**

Name: Ofira Ayalon
Electronic Address: aofira@gmail.com

**2. Higher Education**

##### Undergraduate and Graduate Studies

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| **Degree** | **Name of Institution****and Department** | **Period of Study** |
| B.Sc | Faculty of Food Engineering, Technion, Haifa | 1980-1984 |
| M.Sc | Faculty of Agricultural Engineering, Technion, Haifa | 1990-1994 |
| Ph. D | Faculty of Agricultural Engineering, Technion, Haifa | 1995-2000 |

##### Post-Doctoral Studies

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| **Name of Host** | **Name of Institution, Department / Lab** | **Period of Study** |
| Prof. Willy Verstraete | Lab. Microbial Ecology and Technology Faculty Agriculture & Applied Biological Sciences, Ghent University, Belgium | June 2003-September 2003 |

**3. Academic Ranks and Tenure in Institutes of Higher Education**

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| **Dates**  | **Name of Institution and Department** | **Rank/Position** |
| **10/2001- 10/2007** | The Department of Natural Resources and Environmental Management, The Faculty of Social Sciences, University of Haifa. | **Lecturer** |
| **6/2006-** **9/ 2006** | Research associate with Prof. C. J. Andrews, Director, Program in Urban Planning and Policy Development, Rutgers University, NJ: "Sustainable energy targets for New Jersey". | **Summer Sabbatical** |
| **10/2007- 12/2010** | The Department of Natural Resources and Environmental Management, Graduate school of Management, University of Haifa. | **Senior Lecturer (Specialist Track)** (75%) |
| **1/2011- present** | The Department of Natural Resources and Environmental Management, Faculty of Management, University of Haifa. | **Associate Professor (Specialist Track)**  |
| **6/2012- 10/2012**  | Visiting professor with Prof. R. Cossu, Head of the Environmental Engineering School. University of Padova, Italy | **Summer Sabbatical** |
| **1/2018** | The Department of Natural Resources and Environmental Management, Faculty of Management, University of Haifa. | **Full Professor (Specialist Track)** |
| **4/2019-10/2019** | Visiting professor with Prof. Carlos MataixDirector, [Centro de Innovación en Tecnología para el Desarrollo Humano – itdUPM, Madrid, Spain.](http://www.itd.upm.es/) | **0.5 Sabbatical** |

**4. Offices in University Academic Administration**

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| **Years** | **Name of Institution and Department** | **Role** |
| **2004-2008** | Faculty of Social Sciences, University of Haifa | Member of Teaching Committee |
| **2005- 2010** | The **Department of Natural Resources & Environmental Management**, University of Haifa | Deputy head |
| **2008** | The **Department of Natural Resources & Environmental Management,** University of Haifa | Initiator of the "Energy Policy and Management" program.  |
| **2009-present** | "Energy Policy and Management" program at the **Department of Natural Resources & Environmental Management**, University of Haifa | Head of program |
| **2008- present** | Green campus steering committee- University of Haifa  | Member of steering committee  |
| **2010- 2019** | Natural Resource and Environmental Research Center (NRERC), University of Haifa | Director |
| **2014- 2018** | Department of Natural Resources & Environmental Management, University of Haifa  | Head |
| **2016-** | [Haifa Research Center for Maritime Strategy](http://www.google.co.il/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&cad=rja&uact=8&ved=0ahUKEwiuvOyU9dTNAhUCLhoKHakIDGsQFggnMAE&url=http%3A%2F%2Fpoli.haifa.ac.il%2F~hms%2Findex.php%2Fen%2F&usg=AFQjCNEMG6Nm735mKOYJOjQrCH6-GVR6eQ&sig2=GWnHk3YBvdAyyZlyf4EZvg)  | Advisory Board |
| **2017** | Member of the University Senate, University of Haifa |  |
| **2017-** | Member of the University Graduate Studies committee, University of Haifa  |  |

**5. Scholarly Positions and Activities Outside the University**

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| **Years** | **Professional and Academic Consultancy & Management** |
| 1996- 2002 | **Consultant to the Ministry of the Environment on** **Solid Waste Management and Policy**My role as a consultant included conducting studies, cost-benefit analyses of alternative policies, publishing policy papers and policy recommendations.  |
| 1996-2001 | **Coordinator and Project Manager of Waste Source-Separation Pilot Projects in Tivon and Tirat Carmel (Israel)**Coordination of the projects, funded by LIFE 3rd Countries, included* Consulting the mayors and the respective director generals of the municipalities of Tivon and Tirat Carmel regarding decisions on the implementation of source separation.
* Managing the campaigns including coverage in the media, door-to-door canvassing and public hearings.
* Quality control of these projects.
 |
| 2002– present | **Head of Environment and Energy Cluster at the Samuel Neaman Institute (SNI)**.The reports and summaries submitted after extensive research, serve as a basis for decisions made by the Ministries of Finance, National Infrastructure and Environmental Protection, as well as other relevant government and non-government organizations. The findings of many of these studies, which have served decision makers in formulating new laws and policies, are summed up below. 1. **Setting National Environmental Priorities**

 **A series of publications on main environmental concerns in Israel**Actively raising public awareness of important environmental issues in order to promote a balanced consideration of these issues and to facilitate rational decision-making.Several position papers on a variety of topics pertain to the environment. These papers serve as the basis for positions and decisions made by governmental Ministries and agencies as well as other public agencies. They raise new issues and serve to change the environmental agenda in Israel. The topics discussed in these papers are then studied and cited by governmental organizations and by non-governmental organizations (NGOs).A very clear advantage of this activity is that it serves as a bridge connecting scientists and other professionals to the public, raises awareness of the practical and political problems that need to be solved in order to maintain the quality of the environment in specific communities and in the country as a whole.1. **Agriculture and the Environment**
2. **Agriculture as a Producer of Public Goods**

As a graduate of the Faculty of Agricultural Engineering, I conducted many innovative and pioneering studies assessing the positive contribution of agriculture not only to the Israeli economy but also to Israeli society. Agriculture has many negative influences on the environment, such as soil and water pollution as a result of excessive fertilization, the massive use of pesticides, and an increase in soil erosion. On the other hand, in addition to its function in producing food and fibers, agriculture also has various external positive effects. It has an aesthetic impact on the environment since it generates green open spaces; its social value is inherent in the fact that it facilitates the contact between man and the land; the ecological effects of agriculture include increased water infiltration, the absorption of CO2, and the fact that it provides an outlet for organic waste and recycled water.1. **Mariculture**

A policy document [H58], which provides guidelines for objectives, strategies, and tools for long-term planning, spatial deployment, and sustainable development to the Ministry of Agriculture and the planning authority of Israel (Ministry of Finance). The report includes mapping desirable areas for mariculture in the Mediterranean and supporting logistic sites on the shore, taking into consideration the plans, needs, and intentions of other interested stakeholders concerning these areas. The findings of this study have been incorporated into national policy documents in the field of agriculture and in policy documents on marine planning.1. **Agro-Technologies**

 The reputation that the State of Israel has acquired over the years in the agricultural industry (desalination, drip irrigation, advanced agricultural technologies) served as motivation for a novel paper [H64], which presents the major trends affecting the technologies of the agricultural industry around the world and sheds light on the opportunities and obstacles faced by entrepreneurs, investors, and industrialists in Israel. In addition, I outlined the unique features and the relative advantage of the Israeli agricultural industry.(See items H10, H12, H17, H58, H64).1. **Analyzing Business Opportunities in Environmental Technologies**

In this study, I analyzed the policy lessons arising from Israel's successful efforts to initiate, guide, and accelerate the process of environmental technological innovation. The study, which was submitted to the Ministry of Environmental Protection, the Ministry of National Infrastructure, and the Ministry of Economy and Industry, identifies the basic principles of shaping policy that eventually promoted these technologies to be implemented in Israel and marketed both in developed and in developing countries. These studies laid the foundations for the National Sustainable Energy and Water Program (Ministry of Economy and Industry).(See items D12, H9, H14, H18, H24, H64).1. **Reducing Transportation-Related Air Pollution**

A policy paper, submitted to the Dan Region Association of Towns for Environment and Wastewater, included recommendations to the association and its member authorities for a short-term operational plan at the local level to reduce transportation-related air pollution.In another study, an analysis of the external benefits of the Carmel Tunnels was conducted. In view of the results of this study, as of January 2016, Carmel Tunnel fares were reduced for trucks in order to encourage trucks to keep off the roads in heavily populated areas. (See items H16, H60, H75).1. **Policy Recommendations on Waste Management in Israel**

Shaping Israel’s waste management policy- 1. **The Landfill Levy**. The levy, effective since the year 2007, is a direct implementation of my research-based recommendation to include externalities associated with landfills in the cost of waste management. An assessment regarding the effectiveness of the tax was submitted to the Ministry of Environmental Protection (MOEP) [H65]. One recommendation in this assessment was to raise the level and type of landfill levies to be adopted in Israel. In addition, the recommendations include supplemental policies, such as promoting biodegradable regulations and banning organics from landfills; increased supervision of dumping and levying heavy fines on perpetrators; the supervision of the transfer of waste to landfills according to suggested categories; diverting revenues from the levy to support technologies and providing economic incentives to local authorities in separation activities, education, and advocacy. The MOEP adopted the general recommendation to be dynamic and sensitive to market failures and to adapt to developments in the field of domestic waste.
2. **The Packaging Law.**  This law is a result of working in close cooperation with all stakeholders, such as the relevant Ministries (The Ministry of Finance, The Ministry of Interior, and the Ministry of Industry, Trade and Labor), various manufacturers’ associations, the Federation of Israeli Chamber of Commerce, the Israel Antitrust Authority, local authorities, and NGOs.

The study [H42] examines policy alternatives for the sustainable management of packaging waste in Israel. The study includes the definition of packaging types, weight estimation of packaging waste produced in Israel, a survey of packaging waste treatment methods in Europe and around the world, an examination of legislation alternatives and a recommendation for the regulation scheme to be preferred in the State of Israel. The study served as the basis for the packaging law.1. **Reduction of the Use of Plastic Shopping Bags in Israel**. The study [H32] included a comparison of the laws implemented in other countries and the possible implications of such laws to Israel.
2. **MOEP and Local Authorities.** Several additional studies were submitted to the MOEP and local authorities: Residential pneumatic refuse collection systems – a techno-economic analysis for municipalities [H56]; The feasibility of public-private partnerships (PPP) waste treatment facilities in Israel [H67]; -A formula for calculating a commercial waste fee [H68], production of energy from municipal waste [H77].

 (See items H27, H30, D13, H32, H42, H56, H65, H66, H67, H68, H77).1. **Energy Policy and Management**

Submission of various studies, assessments, and evaluations to the Ministry of Energy in order to establish a comprehensive energy policy in Israel. The main emphasis was on regulations to promote renewable energy and a research-based assessment of the amount of natural gas used in the market. I served as the environmental consultant of Israel’s Energy Master Plan. My recent field of research includes various aspects of fuel substitutes for transportation. These include natural gas to fuel, waste to fuel and electric transportation. These studies include not only the direct costs and benefits, but the external ones as well.(See items H19, H20, H22, H23, H25, H26, H28, H31, H33, H34, H36, H38, H39, H40, H41, H46, H47, H52, H55, H66, H69, H71, H72, H73, H74, H76, H77, H80). 1. **Climate Change**

Since 2009, leader and supervisor of the research and the research-derived policy within the scope of climate change, regarding both adaptation to climate change and mitigation of greenhouse gas (GHG) emissions.1. **Mitigation- Greenhouse Gases Emission Reduction**. In 2009, I headed a team of ten researchers and professionals who prepared the economic analysis of GHG reduction alternatives in Israel and suggested policy measures required to achieve the target of this plan. My team acted as an advisor and integrator for the Inter-Ministerial Committee for the Mitigation of GHGs, headed by Ministry of Finance Director General, Mr. Haim Shani. The committee was appointed by Government Resolution no. 1504 dated March 2010.
2. **Israeli Voluntary GHG Registry**. Since 2010 I'm the director of this scheme. More than 60 organizations and companies from all sectors participate in the registry by agreeing to report their GHG emissions. The project includes the preparation and adjustment of reporting manuals and operational protocols, providing technical assistance to the reporting bodies, conducting workshops, and publishing an annual summary.
3. **Adaptation to Climate Change.** In accordance with a decision made by the Israeli Government (No. 474, June 2009), in March 2011, the Ministry of Environmental Protection established a knowledge hub, the Israeli Climate Change Information Center (ICCIC). Served as the Director of the center and established the center’s website (iccic.org.il). The mission of the ICCIC is to review existing knowledge and scientific research regarding adaptation to climate change, identify research gaps, and define the risks and consequences of climate change in various sectors, such as water and green building. Based on the findings, the ICCIC formulated a national policy for adaptation. Furthermore, the ICCIC integrates Israel's knowledge and technologies as a basis for implementation and marketing purposes both locally and abroad.

 (see items H41, H42, H44, H46-49, H51-52, H54, H59, H66) |
| 2007-present | **Initiator and consultant of Green Campus Project**Initiator of the project at the Technion and at the University of HaifaCurrently, a member of the University of Haifa’s Green Campus steering committee and the Ministry of Environmental Protection advisory committee.  |
| 2009- 2012  | **Academic Advisory Board** of Industrial Cooperation Authority (ICA), Ministry of Industry Trade and Labor; I serve as a consultant regarding the environment. |
|  2011- present | **Consultant** (volunteer) to the Environmental Public Committee of *Emun Hatzibur-* a NGO.  |
| 2012 - 2013 | **Advisory Board** of the Green Globus Trophy, which is awarded by Life & Environment, the Israeli Union of Environmental NGOs |
|  2015- present | **Appointed Horizon 2020** **National Expert** (EU research framework) in the field of climate action, resource efficiency, and raw materials (Environment).My role is to assess drafts of research topics suggested by the EU and to suggest changes or adjustments that would better reflect the specific research capabilities of Israeli researchers.  |
| 2015- present | **Cooperative Agreement** stablished with Jiangsu (China). Modern Low-carbon Technology Institute: "Carbon Emission Evaluation System of MSW Treatment" |
|  2015 | **Member of the panel of judges** for the final presentations of innovation projects by student teams of the 2015 spring I-Podia class on Principles and Practices of Global Innovation. |
|   | **National Focal Expert for CTCN** [the operational arm of the UNFCCC Technology Mechanism, hosted by the UN Environment Program (UNEP) and the UN Industrial Development Organization (UNIDO)]. CTCN promotes the accelerated transfer of environmentally sound technologies for low carbon and climate resilient development at the request of developing countries. |
|  2016- present | **Advisory Board Member** of the International Sea Control HoldingsThis private company specializes in the development of marine technology ventures in mariculture in the open sea. |
|  2016- present | **International Advisory Board of the** [Global Biosphere Institute](http://biosfera.org.br/en/about-us/)The institute develops programs, studies, projects, and surveys to promote environmental preservation and the responsible use of environmental resources, as well as sustainability. My contribution to this organization is in sharing my expertise in the fields of waste management and renewable energy.  |
| 2016- present | **Member of the Board of Directors**[, Research Center on Maritime Strategy](http://marsci.haifa.ac.il/en/research/research-centers-and-partners/center-for-maritime-strategy), University of Haifa |
| 2016- 2017 | **Mentor** of Haifa [CityTechLab](https://www.linkedin.com/company/13214230?trk=prof-exp-company-name)**,** responsible for integrating a novel waste management project, including the business plan and beta-site implementation |
| 2018- | **Foundation team-** The Israeli Society for the Study of Corporate Responsibility and Sustainability in business |
| 2018- | **Expert Peer Reviewer** for Italian Scientific Evaluation- REPRISERegistered as a foreign independent scientific expert |
| 2018 | **Scientific Peer Reviewer** for Chilean Antarctic Institute (INACH) |
| 2018- | **Member of the Board of Directors,** [The Max Stern Yezreel Valley College, Israel](https://www.yvc.ac.il/en/academic-studies/undergraduate-studies/economics-and-management/) |
| 2019 | **Scientific Peer Reviewer** for NWA-ORC, the Dutch National Research Agenda (NWA).  |
| 2020 | **Judge** at Tadmor Levy “From Linear to Circular: Green Innovation”-start-up competition aimed to boost sustainable, green entrepreneurship from AgriTech and CleanTech across EnergyTech, FoodTech, PropTech and WaterTech. |
| **Years** | **Membership in Professional Societies** |
| 1994-present | International Expert Group (IEG) for Life Cycle Assessment (LCA) of Integrated Waste Management. IEG is a group of leading environmental experts with an interest in using LCA techniques to inform waste management decision-making. The IEG holds biannual workshop-style meetings to share international knowledge in research and to promote research activities. The meetings consist of presentations on life cycle modeling, LCA case studies for municipalities and specific waste streams, as well as pioneering research on decision-making and interpretation. Technical matters and issues of consistency of approach are also addressed during meetings by means of the members’ knowledge and research activities and by suggestions made by guest experts invited to meetings. |
| 1995- present | IAEE- Italian Association of Energy Economists; IWWG- International Waste Working Group;  ISWA- [The International Solid Waste Association](http://www.google.co.il/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwjR0cL4ne_UAhVImbQKHTlZBQUQFgglMAA&url=http%3A%2F%2Fwww.iswa.org%2F&usg=AFQjCNFNF_G2XCcMabATgcahSZWUcMV0XA) |
| 2001- present | Israel Society for Ecology and Environmental Quality Sciences (ISEEQS). |
| 2010- 2016 | Board Member of ISEEQS |
| 2016- present | Member of ISEEQS Audit Committee |
| 2011- present | Technical Committee of the Standards Institution of Israel Product Certification Scheme - products having environmental aspects |
| 2014- present | Energy committee of ICC Israel (International Chamber of Commerce. |
| 2018- | The Israeli Society for the Study of Corporate Responsibility and Sustainability in business |
| Years | **Editorial Assignments** |
| 2014- present | Associate Editor, *Journal of Solid Waste Technology and Management*  |
| 2016- 2019 | Associate Editor, *Waste Management* (the leading scientific journal in the field of waste management (2016 Impact Factor: =4.03; IF5=4.669) |
| 2019-2020 | Editor of Special Issue "Meeting Sustainable Development Goals by Reducing Food Loss". *Sustainability* (2019 IF=2.592) |
| **Years** | **Reviewing for Refereed Journal** |
| 2002*-*present | *Ecological Economics; Environmental Science & Technology**Environmental Management**Waste Management**Waste Management & Research**Packaging Technology and Science* |
| 2011- present | *Energy & Environment* |
| 2012-present | *Environment, Development and Sustainability* |
| 2013-present | *International Journal of Environmental Science and Technology**European Journal of Marketing**Resources, Conservation & Recycling* |
| 2014-present | *Reviews in Chemical Engineering**International Journal of Innovation and Sustainable Development (IJISD)* |
| 2016-present | *Sustainability* |
| 2017-present | *Energy Efficiency* |
| 2020-present | *American Journal of Environmental Protection**, Cleaner Environmental Systems* |
| 2021- | *Socio-Economic Planning Sciences* |

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| **Years** | **Reviewing for Books** |
| 2010 | "Sustainable Systems and Energy Management" at the Regional Level: Comparative Approaches" Editor: Dr. Marco Tortora. University of Florence, Italy |
| **Years** | **Reviewing for Fund Agencies and Scientific Programs** |
| 2009 | * Israeli Ministry of Science
* Israeli French High Council for Scientific and Technological Research
* Networks Program in the fields of environment and Energy
* China- Israel scientific research cooperation, 2009-2011
 |
|  2012  | * Research products in the framework of the Italian Evaluation of Research Quality exercise (VQR 2004-2010)
* Ministry of Science & Technology Israel - Infrastructure program 2012-2013
 |
|  2014  | * The Israel Science Foundation (ISF)
* The Ministry of Environmental Protection (MOEP), Chief Scientist office
* New approaches in statistic methodologies of computing Greenhouse gases (GHG) emissions by Israel Central Bureau of Statistics
 |
|  2015 | * Germany- Israel Foundation (GIF)
 |
|  2018 | * HaMaarag - Israel’s National Nature Assessment Program
 |
| **Years** | **Membership in Scientific Committees of Conferences** |
| 2009- present | Involved in scientific committees of various international conferences dealing with sustainability, energy management and policy [see 6b II] |
|  2015- present | Member of scientific committees and leader of energy policy in ECOS (Efficiency, Cost, Optimization, Simulation and Environmental Impact) international conferences [see 6b I]  |
|  2016- present | Member of Scientific Committee of the International Conference on Solid Waste (ICSW) Technology and Management [see 6b I] |
|  2017 | The 7th International Conference on Solid Waste Management (Hyderabad, India) |
| **Years** | **Contribution to the Community** |
| 2005-present | A member of the Scientific Committee of MADATEC – Israel National Museum of Science, Technology & Space**.** |
| 2007- present  | Annual lectures to school students- BASHAAR project |
| 2018- | Senate member- The Max Stern Yezreel Valley College, Israel |

**6a. Participation in Scholarly Conferences**

**I. *Recent* International Conferences- Held Abroad**

In case of multiple presenters, the name of presenter is underlined

# my student

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| **Date** | **Name of Conference**  | **Place of Conference** | **Subject of Lecture/ Discussion** | **Role** |
| 16-19, July, 2013 | 26th International Conference -ECOS, 2013. On Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems | Guilin, China | GHG Emissions Reporting in Israel: Means to Manage Energy Use (with Miriam Lev-On, Perry Lev-On) | Oral presentationSee items D20, H20 F8 |
| Israel's Electricity Market Sustainability Indices(with #T. Goldrath, Y. Parag, M. Shechter) | Poster presentationSee item F9 |
| 18 – 19, July, 2013 | 5th International Conference on Climate: Impacts and Responses | Port-Louis, Mauritius | Adaptation to Climate Change- Israel and Eastern Mediterranean (with M. Shechter, R. Palatnik, A. Davidovitch) | Oral presentationSee items H48, H49, H51 |
| 10-11, September 2013 | A&WMA - Climate Change Impacts, Policy, and Regulation Conference | Hyatt Dulles, Herndon, VA, USA | GHG Emission Mitigation Plan for the State of Israel: Strategies, Incentives & Reporting(with M. Lev-On, Perry Lev-On) | Oral presentation F7 |
| 18-20, November,2013 | Global Food Security Challenges – European Research approaches | Müncheberg, Germany, Leibniz Centre for Agricultural Landscape Research (ZALF) | Assessing the Impact of Climate Change on Agriculture and a Water Economy with a Diverse Mix of Water Types (with Z. Baum, R. Palatnik, M. Shechter) | Oral presentation |
| 27, June-1, July, 2014 | Western Economic Association International 89th Annual Conference | Denver, USA | Assessing the Impact of Climate Change On Agriculture and A Water Economy With A Diverse Mix Of Water Types - The Israeli Case Study (with R. Palatnik, M. Shechter) | Oral presentation |

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|  28, June – 2, July,2014 | 5th World Congress of Environmental and Resource Economists | Istanbul, Turkey | The Implications of Climate Change Phenomenon on the Insurance Industry and the Israeli Economy(with #A. Davidovitch, M. Shechter, R. Palatnik) | Oral presentationSee item F11 |
|  8-10, October, 2014 | Conference on Environment and Natural Resources Management in Developing and Transition Economies | Clermont-Ferrand, France | Weather Insurance: Economic Adaptation to Climate Change in Israel(with #A. Davidovitch, M. Shechter, R. Palatnik) | Oral presentationSee item H54 |
|  28-31, October, 2014 | 14th IAEE European Energy Conference Sustainable Energy Policy and Strategies for Europe | Rome, Italy | On the Link Between Using Low Carbon Fuels and Energy Efficiency Improvements for Attaining GHG Emission Reduction Goals(with M. Lev-On, P. Lev-on) | Oral presentation |
|  13-15,  July, 2015 | German- Israeli Roundtable and Panel | Berlin, Germany | Global Challenges, Regional Solutions: Climate Change | **Keynote Speaker** |
|  31 August – 4 September, 2015 | 11th ESERA conference: Science Education Research: Engaging Learners for a Sustainable Future | Helsinki Finland | Effect of Green-School Certification on Pupils’ Environmental Literacy and Adoption of Sustainability by Schools(with Goldman, D., #Weiss, B., Baum, D.) | Oral presentation |
|  9-10, September, 2015 | A&WMA Conference: Addressing Climate Change: Emerging Policies, Strategies, and Technological Solutions  | Oak Brook, Illinois, USA | On the Road to the Climate Change Summit in Paris 2015: Intended National GHG Emissions Reduction(with P. Lev-On, M Lev-On) | Oral presentation |
| 27 September- 2 October, 2015 | SDEWES 2015 - The 10th Conference on Sustainable Development of Energy, Water and Environment Systems | Dubrovnik, Croatia | An Economical-Environmental Assessment of Wind Power Generation in Israel(with #O. Raviv, R. Palatnik) | Oral presentationSee item D1 |
| 11-14,October, 2015 | 2nd international conference on Global Food Security 2015 | Cornell University, Ithaca, NY, USA | Agricultural Produce Surplus Management- Means to Sustainability (with T. Eshet, #Y. Licht) | Oral presentation |
| 7-10,December, 2015 | 21st Conference of the Parties (COP 21) to the United Nations Framework Convention on Climate Change | Paris, France | **Member of the Israeli Governmental delegation** |
| 21-22,April, 2016  | TI / ERC conference Combating Climate Change: Lessons from Macroeconomics, Political Economy, and Public Finance  | Tinbergen Institute Amsterdam, The Netherlands | An Assessment of the Impact of Climate Change on the Insurance Market: Global and Local Analyses (with #A. Davidovitch, M. Shechter, R. Palatnik) | Oral Presentation |
|  2-4, June, 2016 | Middle East Central Asia Conference for Sustainable Aquaculture | Izmir, Turkey | Sustainable Governance of Offshore Aquaculture in Israel (with L. Kroeger, D. Tchernov) | Oral Presentation |
|  9-11, June, 2016  | AERE Summer Conference  | Beaver Run, BreckenridgeColorado, USA  | An Assessment of the Impact of Climate Change on the Insurance Market: Global and Local Analyses (with #A. Davidovitch, M. Shechter, R. Palatnik) | Oral Presentation |
|  5-7, September, 2016 | Food security 2016 | Beijing, China | Lost and found- A preliminary assessment of food waste in Israel (with T. Eshet, #E. Elimelech) | Oral Presentation |
| 19-21, September, 2016 | International Solid Waste Association (ISWA) world congress | Novi Sad, Serbia | Agriculture produce surplus management- reduction of waste, means to sustainability and food security (with T. Eshet) | Oral Presentation |
| 14-17 November, 2016 | 6th International Symposium on Energy from Biomass and Waste | Venice, Italy | The power of logistics: a regional optimization model for waste-to-energy generation using agricultural vegetative residuals(with O. Raviv, D. Broitman, I. Kan) | Oral Presentationand chair of session Environ-metal & economic drivers in WM |
| 19-22, March, 2017 | The 32nd International Conference on Solid Waste Technology and Management | Philadelphia, PA, USA | Don’t Waste a Bite - On the Link between Hunger and Waste Management | **Keynote Speaker** |
|  22-25, April, 2017 | Administrative Symposium: How Effective is Education for Sustainable Development at School? Findings from Recent Studies Across Europe. 2017 NARST Annual International Conference “Glocalization & Sustainability of Science Education Research & Practice” | San Antonio Texas | The influence of ‘Green-school certification’ on pupils’ environmental literacy and adoption of sustainability by schools (with Goldman, D., Baum, D., #Weiss, B.) | Oral Presentation |
| 22- 23, May, 2017 | [5th International Symposium on Environment & Energy Finance Issues (ISEFI-2017)](http://isefi.sciencesconf.org/) | IPAG BUSINESS SCHOOL – Paris, France | Economic and risk aspects of climate change implications on the insurance sector(with A. Davidovitch, M. Shechter, R. Palatnik) | Oral Presentation |
| 21-24, June, 2017 | 5th International ConferenceOn Sustainable Solid Waste Management | Athens, Greece | Reduction of waste, means to sustainability via economical management of agriculture producesurplus, in Israel. (with T. Eshet) | Oral Presentation |
| Households' Food Waste Composition – Evidence from a Field Survey. (with #E. Elimelech, E. Ert) | Oral Presentation |
| Absorbing shocks: Designing an agriculture vegetative waste management system resilient to final product price fluctuations(with D. Broitman, O. Raviv, I. Kan) | Oral Presentation |
| 26-30, June, 2017 | World Aquaculture 2017 | Cape Town, South Africa | Sustainable Governance of Offshore Aquaculture in Israel(with # L.A. Kroeger, D. Tchernov) | Oral Presentation |
| 11-12,September, 2017 | 28th Meeting of the International Expert Group (IEG) on LCA for waste management | Milan, Italy | Developments in waste management/ LCA in Israel | Oral Presentation(Joined by webinar) |
| 10-11, October, 2017 | 2017 AWMA Climate Change Conference  | Arlington, Virginia, USA | What is Measured is Managed: Lessons Learned from the Operation of the Israeli Voluntary Greenhouse Gas Registry Since 2010(with P. Lev-on, M. Lev-On) | Oral Presentation |
| 15-17, December, 2017

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 | The 7th International Conference on Solid Waste Management | Hyderabad, India | 1. Preliminary comparison among recycling rates for developed and developing countries: The case of India, Israel, Italy and USA(with F. Di Maria, R. L. Mersky, S. Daskal, S. K. Ghosh)  |  |
| 2. The State of Municipal Solid Waste (MSW) Management in Israel (with #S. Daskal) |
| 11-14, March, 2018 | The 33rd International Conference on Solid Waste Technology and Management | Annapolis, MD (Washington, DC),USA | Circular Economy in India, Italy & Israel.S. Kumar Ghosh, F. Di Maria, O. Ayalon | Oral Presentation |
| 21-23, May, 2018 | SUM 20184th Symposium on Urban Mining and Circular Economy | Bergamo, Italy | The role of regulation in closing the municipal solid waste loop.# S. Daskal, O. Ayalon, M. Shechter  | Oral PresentationSee item F18 |
| Different Approaches for Bio-Waste Management by Anaerobic Digestion: An Italian and Israeli Comparison.F. Di Maria, O. Ayalon, S. Daskal  | Oral PresentationSee item F17 |
| 11-12, October, 2018 | The International Forum on Ecological Civilization and the Second International Forum on Silk Road Development | Chongming Island, Shanghai, China | TheNeed Promotes Innovation & Development of Environmental Technologies.  | Invited Speaker-Oral Presentation |
| 13-14, May 2019 | World Congress on Recycling | Valencia, Spain | Does the Extended Producer Responsibility Ensure Recycling Rates- The Case of the Packaging Law in Israel | Oral Presentation |
| 3–8 June 2019 | European Committee for Energy Efficient Economics (eceee)- Summer Study  | Belambra Presqu'île de Giens, France | Peak Shaving from the middle out Y. Parag, T. Zohar, O. Ayalon |  |
| 6-7 June 2019  | International Conference on New Pathways for Community Energy and Storage | Groningen, The Netherlands | The role of middle actors in the transition to a low carbon society. T. Zohar, Y. Parag, O. Ayalon | Oral Presentation |
| 26-29, June 2019 | 24th Annual Conferenceof the European Associationof Environmental and Resource Economists | Manchester, UK | 30 Shades of Grey and Green of the Israeli electricity market.  | Oral Presentation |
|  3-12,December, 2019 | 25th Conference of the Parties (COP 25) to the United Nations Framework Convention on Climate Change | Madrid, Spain | **Member of the Israeli Governmental delegation** |

**II. *Recent* International Conferences- Held in Israel**

| **Date** | **Name of Conference**  | **Place of Conference** | **Subject of Lecture/ Discussion** | **Role** |
| --- | --- | --- | --- | --- |
| 22-23, February, 2012 | The Eilat-Eilot Forum for Renewable Energy Policy | Eilat | How to Improve the Chances for Success of Innovations by Funding the Crossing of "Valley of Death" | Session Leader and Oral presentation |
|  1-2, April,2012 | GLOWA, Tel Aviv Univ., IPCRIScience and the response to climate change in Israel | Tel Aviv | Adaptation Research and Long- Term Implications | Oral presentationSee items H48, H49, H51 |
|  26-28, October, 2015 | The 14th World Wind Energy Conference | Jerusalem | An Economical-Environmental Assessment of Wind Power Generation in Israel (with #O. Raviv, R. Palatnik) | Oral presentationSee item D1 |
|  20-21,June, 2016 | The Batsheva de Rothschild Workshop on Climate Changes and their Effect on Agriculture, Economics and the Environment | Ein Zurim | Agro-tech and Climate Change - New Opportunities | Oral presentationSee item H64 |
|  20-21, June, 2018 | 46th Annual conference of the Society for Ecology and Environmental Quality Sciences(ISEEQS) | Weizmann Institute of Science, Rehovot | Adaptation to Climate Change | Coordinator and Chair of Session  |
| 14, September, 2020 | Advanced information Technology for Water and Agricultural Management: From the models to the fields | Virtual |  | Coordinator and Chair of conference |

**III. *Recent* Local Conferences**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Role** | **Subject of Lecture/ Discussion/****Comments** | **Place**  | **Name of Conference** | **Date** |
| **Keynote** **speake**r and moderator  | The Israeli Policy for GHG Mitigation | Tel Aviv | Cleantech 2011. Policy and GHG mitigation. Energy Efficiency from Theory to Practice. |  5, July, 2011 |
| **Keynote speaker** and moderator  | Economic and Environmental Aspects of the Israeli Packaging Law | Tel Aviv | Cleantech 2011 The 3rd Recycling Conference |  6, July, 2011 |
| Oral presentation and session moderator  | Improve the Chances for Success of Technological Innovations by Funding the Crossing of the “Valley of Death” | Eilat | The Eilat-Eilot Forum for Renewable Energy and innovation in Energy |  22-23, February,2012  |
| Oral presentation | Innovation and Opportunities of Green Jobs | Tel Aviv | Green Growth and Green Jobs- Global Trends and the Israeli Case |  19, March, 2012 |
| Oral presentation | Trends and Opportunities in GHG Reporting  | Tel Aviv | Environmental Management Forum |  16, May, 2012 |
| Oral presentation | The Governmental Drivers for the Cleantech Industry | Haifa | The 1st Haifa Cleantech Conference |  16, October, 2012 |
| **Scientific and Organizing Committee**, Chair of Climate Change session. | Tel Aviv | 40th Annual conference of the ISEEQS |  16-18,October, 2012 |
| **Keynote Speaker** | 1)Adaptation to Climate Change: The Case of Israel(with M. Shechter, R. Palatnik, A. Davidovitch) |
| Oral presentation | 2) Reduction of Plastic Bags Use(with #S. Hefer, T. Eshet) |
| Oral presentation | 3) LCA of EASYBAT Approach to EV Charging (with B. Flicstein, A. Shtibelman) |
| Oral presentation | 4) Non-CO2 GHG Emissions Reductions- Global Overview & Implications for Israel (with M. Lev-On, P. Lev-On) |
| Oral presentation | 5) The Insurance Market in Light of Climatic Changes(with #A. Davidovitch M. Shechter, R. Palatnik) |
| Poster PresentationSee item D22 | 6) The Political Views of Students Exposed to Environmental Studies. (with D. Goldman, #S. Hacham, D. Baum) |
| Oral presentationSee item E9 | OECD Survey - Household Environmental Behavior Attitudes: Waste Generation, Recycling and Prevention (with M. Shechter, R. Palatnik and S. Brody) | Tel Aviv | Israel Economy Society Conference |  4, June, 2013 |
| Oral presentation | The Role of Academia in Environmental Studies | Tel Aviv | Business and Environment 2013 |  17, June, 2013 |
| Oral presentation | Environmental Taxation-The Case of MSW | Hiria, Tel Aviv | The 1st International Conference- Technological innovations in waste management |  9, September, 2013 |
| Oral presentation | Waste to Transport Fuel | Maale Ha-chamisha | Oil substitutes.MOEP and Prime Minister's office |  30, September, 2013 |
| **Scientific and Organizing Committee** | Rehovot | 41st Annual Conference of the ISEEQS |  7-9, October,2013 |
| Oralpresentation | 1) Corporate GHG Emissions Reporting- Means for Efficiency and Transparency(with M. Lev-On, P. Lev-On) |
| Oral presentationSee item E9 | 2) Waste Generation, Recycling and Prevention- Findings of OECD Survey - Household Environmental Behavior Attitudes (with M. Shechter, R. Palatnik and S. Brody) |
| Oral presentation*[****Awarded lecture, see B19]*** | 3) Green School Accreditation and its Effect on Sustainable Culture and Environmental Literacy(with #B. Weiss, D. Goldman, D. Baum) |
| Oral presentation | The Environmental Aspects of Natural Gas Use in Power Plants | Tel Aviv | Israel Energy & Business Convention 2013 |  19-20, November, 2013 |
| Oral presentation | The role of Academia in the Developing Energy Sector in Israel- Emphasis on Natural Gas Market  | Rupin, academic college | 4th Annual conference on future industries- Natural Gas for industrial prosperity |  9, July, 2014 |
| Oral Presentation | 1) An Innovative Approach for Dynamic-Active Electricity Demand Side Management for households in Smart Grids(with #Z. Baum, R. Palatnik, D. Elmakis) | Bar Ilan University | 42nd Annual conference of the ISEEQS |  16-18, September, 2014 |
| Oral Presentation***[Awarded lecture, see B21]***  | 2) The Effects of the Carmel Tunnels on Air Quality in the City of Haifa (with Y. Hashko, B. Flicstein) |
| Oral Presentation | 3) The Implications of Climate Change on the Insurance Industry and the Israeli Economy(with #A. Davidovitch, M. Shechter, R. Palatnik) |
| Oral Presentation and session chair | 4) Agriculture Surpluses in Israel(with T. Eshet, #Y. Licht) |
| Oral Presentation and session chair | 5) Waste-Derived Oil Substitutes(with D. Gabay, I. Liebes, G. Rosenthal) |
| Oral Presentation | Analysis of the Israeli Public's Attitudes Regarding Consumption and Energy Saving(with #T. Zohar, Y. Parag) | Tel Aviv University | 1st conference of the environment and the sociological society in Israel |  20, November 2014 |
| Oral Presentation | GHG Reduction Analysis and Verification(with M. Lev-On, P. Lev-On) | Peres Center, Tel Aviv | Israel-Germany Twinning project |  24, February2015 |
| Oral Presentation | Sustainable Development of Marine Aquaculture in Israel's Mediterranean Sea(with N. Moses) | Nir Etzion | The annual conference of fish growers in Israel |  10, March, 2015 |
| Oral Presentation | An Innovative Approach to Promote Implementation of Renewable Energy in a Smart Grid.(with #Z. Baum, R. Palatnik, D. Elmakis) | IDC, Herzelia | Characteristics of the "Prosumer"­ in the Future Energy Markets” |  11, March, 2015 |
| Oral Presentation | Knowledge Gaps in Climate Change Adaptation Research  | Jerusalem | Austria- Israel Workshop on Climate Change Adaptation Indicators |  24-26, March, 2015 |
| Oral Presentation | Sustainable waste management in Israel  | Airport City | Cleantech Summit, 2015 |  26, August, 2015 |
| Oral PresentationSee D23 | 1) Internalizing External Costs into the Cost of Energy - Analysis of Seven Planed Wind Farms in Israel (with #O. Raviv, R. Palatnik) | Jerusalem | 43rd Annual conference of the ISEEQS |  12-14,October,2015 |
| Oral Presentation | 2) Life Cycle Assessment of Waste Derived Oil Substitutes. (with I. Liebes, Kivun Ltd.) |
| Oral Presentation | Waste as a Resource | Acre | 3rd Annual conference on management and economics Western Galilee College |  24, November, 2015 |
| Poster | Sustainable Governance of Offshore Aquaculture in Israel(with #L. Kroeger, D. Tchernov) | University of Haifa | Deep Med. Laboratory Retreat |  15, December, 2015 |
| Oral Presentation | Who's Afraid of the Deposit Law? | Tel Aviv | Porter school of environmental studies.Tel Aviv University |  24, December, 2015 |
| Oral Presentation & Session Manager | The Shameful Third: How to Measure and How Change Consumer Behavior?(with # E. Elimelech) | IDC, Herzliya | How to feed 9 billion? |  25 February 2016 |
| Oral Presentation | Not by Bread Alone: the Reasons for Food Waste in Households (with #E. Elimelech) | Kibutzim Seminar, Tel Aviv | 16th Annual Conference of Environmental Education: What's the Point? Food, Sustainability and Education | 18, April 2016 |
| Chair of Panel | Food Waste: Barriers and Regulation What is Missing in Order to Create Effective Regulation? | Tel Aviv University  | Sustainable Food Systems.Manna Center Program for Food Safety & Security | 20 – 21, June 2016 |
| Panelist | The Role of Science in Decision Making | Tel Aviv University  | The 44th Annual conference of Science and Environment of the Israeli Society for Ecology and Environmental Science | 21-23, June 2016 |
| Oral presentationSee item H64 | 5 Years of the Voluntary GHG Reporting Scheme in Israel (with M. Lev-On, P. Lev-On) |
| Oral presentation | The role of academia in green building education | Tel Aviv | Academia- Industry link to promote green building | 27, October 2016 |
| Oral presentation and panelist | Waste management in local authorities | University of Haifa | Environment and Local Authorities | 20, December, 2016 |
| Oral presentation | A Novel Dynamic-Active Demand Response Method for application of a Smart Grid in Households(with #Z. Baum, R.R. Palatnik) | Tel Aviv University | The First Israeli Academic Smart Energy Conference | 24, May, 2017 |
| Oral presentation | Designing an agriculture vegetative waste management system under risk conditions.(with D. Broitman, I. Kan, O. Raviv) | Open UniversityRaanana | The 33rd conference of the Israel Economic Association | 7, June, 2017 |
| Oral presentation | RIA of the waste sector of Israel(with #S. Daskal, M. Shechter) |
| Oral presentation | 1) Wasted food- Evidence from the waste bin(with #E. Elimelech, E. Ert) | IDC, Herzelia | The 45th Annual conference of Science and Environment of the Israeli Society for Ecology and Environmental Science |  10-11, July, 2017 |
| Oral presentation | 2) The economic value of desalination(with Z. Baum, R. Palatnik) |
| Oral presentation | 3) RIA of the waste sector of Israel(with #S. Daskal, M. Shechter) |
| Oral presentation | 4) Evaluating Market Benefits of Transportation Tunnels—The Carmel Tunnels as a Case Study(with L. Shmueli, S. Freund Koren, M. Zarbiv Zion) |
| Oral presentation | 5) Agricultural vegetative residuals as a valuable resource(with O. Raviv, D. Broitman, I. Kan) |
| Oral presentation | 6) Does it worth to be green? A cost-benefit analysis of green schools in Israel(with R. Palatnik, A. Davidovitch, T. Trop) |
| Oral presentation | 7) Methane leaks from oil and gas infrastructure and best estimation techniques. (with M. Lev-On, P. Lev-On, M. Zerbiv Zion) |
| Oral presentation and panelist | (Non) adaptation of local authorities to climate change | Sapir Academic College | The Israel - Sderot Conference on Society |  6, March, 2018 |
| Oral presentation | Energy from Agricultural Waste | The Max Stern Yezreel Valley College | Bio Economy | 25, March, 2018 |
| Oral presentation | It costs us more- Cost/ Benefit Analysis of Waste Management#S. Daskal, O. Ayalon | Tel Aviv University- Tel Aviv | The 47th Annual conference of Science and Environment of the Israeli Society for Ecology and Environmental Science | 19-20, June, 2019 |
| Poster presentation | The willingness of the Israeli consumer to pay extra price for fruits and vegetables that are significantly reduced in pesticides. #O. Maoz, O. Ayalon, T. Eshet | Tel Aviv | Interactions Complex: Health and Environment | 19 December, 2019 |
| **Co-chair of the conference**+Oral Presentations  | 1. Economic value to outreach recycling activities. #R. Waldman, O. Ayalon, T. Eshet.2. Building personal resilience through contact with nature in the days of dealing with the Covud-19. O. Ayalon, K. Kaplan-Mintz | Virtual | The 48th Annual conference of Science and Environment of the Israeli Society for Ecology and Environmental Science | 12-13, October, 2020 |

**6b. *Recent* Organization of Scholarly Conferences**

**I. International Conferences**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Name of Conference**  | **Place of Conference** | **Role** |
|  25 – 29, September 2011 | The 6th Dubrovnik Conference on Sustainable Development of Energy, Water and Environment Systems | Dubrovnik, Croatia | **Member of Scientific Advisory Board** |
|  27, October, 2011 | CIGRE- Israel(CONFÉRENCE INTERNATIONALE DES GRANDS RESÉAUX ELECTRIQUES): Long-distance and Cross-border Electric Power System Interconnections: Strategic needs Sustainability, Environmental and Social Issues | Tel Aviv, Israel | **Organizing Committee** |
|  15-17, November,2011 | WATEC 2011. The 3rd International Water Technologies, Renewable Energy and Environment Conference | Tel Aviv, Israel | **Organizing Committee** |
|  16-19, July, 2013 | 26th International Conference -ECOS, 2013. On Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems | Guilin, China | **Organizing Committee &****Member of Scientific Advisory Board** |
|  22–27, September 2013 | The 8th Conference on Sustainable Development of Energy, Water and Environment Systems | Dubrovnik, Croatia | **Member of Scientific Advisory Board** |
|  March 30-April 2, 2014 | The 29th International Conference on Solid Waste Technology and Management | Philadelphia, PA U.S.A. | **Member of Scientific Advisory Board** |
|  29, June – 3, July, 2014 | 1st South East European Conference on Sustainable Development of Energy, Water and Environment Systems - SEE SDEWES   | Ohrid, Republic of Macedonia | **Member of Scientific Advisory Board** |
|  29 June ‐ 3 July, 2015 | 28th ECOS International conference  | Pau, France | **Member of Scientific Committee** |
|  19-23, June, 2016 | 29th ECOS International conference  | Portorož, Slovenia | **Member of Scientific Committee** |
|  20-21,June, 2016 | The Batsheva de Rothschild Workshop on Climate Changes and their Effect on Agriculture, Economics and the Environment | Ein Zurim, Israel | Agrotech and Climate Change - New Opportunities | **Organizing Committee** and oral presentationSee item H64 |
|  19-22, March, 2017 | The 32nd International Conference on Solid Waste Technology and Management | Philadelphia, PA, USA | Don’t Waste a Bite - On the Link between Hunger and Waste Management | **Keynote Speaker****& Member of Scientific Advisory Board** |
|  2- 6, July, 2017 | 30th ECOS International conference  | San Diego, California | **Member of Scientific Committee** |
|  11-14, March, 2018 | The 33rd International Conference on Solid Waste Technology and Management | Washington, DC, USA | **Member of Scientific Advisory Board** |
|  17 - 21, June, 2018 | 31st ECOS International conference  | Guimarães, Portugal | **Member of Scientific Committee** |
| 30 June- 4 July 2020- cancelled due to Covid 19 | 33rd ECOS International conference  | Osaka, Japan | **Member of Scientific Committee** |

**II.  *Recent* Organization of Local Conferences**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Role** | **Subject of Lecture/ Discussion/****Comments** | **Place**  | **Name of Conference** | **Date** |
| **Organizing committee**And moderator of concluding session | Needs and Priorities in the Haifa Bay Development Towards a Balanced Prosperity | Technion, Haifa | SNI and The Kishon River authority |  7 February,2011 |
| **Scientific and Organizing committee**,Chair of plenary session | A Critical Review of the Israeli National Plan for Reduction of GHG  | Megiddo Regional council  | 39th Annual conference of the ISEEQS |  27-28, June, 2011 |
| Oral presentation | The Israeli National Plan for Reduction of GHG (with T. Goldrath) |
| **Organizing committee** and Oral presentation | Israel's Plan for GHG Reduction | University of Haifa | The 25th anniversary of NRERC. Day 1: The cost of climate change Day 2: EU Israel Cooperation on Climate Change |  1-2, November, 2011 |
| **Organizing committee**+ Oral presentation | Waste as an Energy Resource | Jerusalem | SPNI annual conference. "The Energy Challenges" |  7, November, 2011 |
| **Organizing Committee and Chair of the Conference** | Haifa | Corporate Social Responsibility- Life is Back to the Kishon River |  21, December,2011 |
| **Scientific and Organizing Committee**, Chair of Climate Change session. | Tel Aviv | 40th Annual conference of the ISEEQS |  16-18,October, 2012 |
| **Keynote Speaker** | 1)Adaptation to Climate change: The Case of Israel (with M. Shechter, R. Palatnik, #A. Davidovitch) |
| **Scientific and Organizing Committee** | University of Haifa | Modeling EU Agriculture with Climate Change Food Security- MACSUR Workshop |  1-3, March, 2013 |
| **Scientific and Organizing committee** | University of Haifa | Hit the Gas! The contribution of the natural gas to the economy, society and the environment |  21, May, 2013 |
| **Scientific and Organizing Committee** | Rehovot | 41st Annual Conference of the ISEEQS |  7-9, October,2013 |
| **Scientific and Organizing committee** | Haifa | Health and Environment.The 1st conference in memory of Dr. J. Krikon |  11, November, 2014 |
| **Scientific and Organizing committee** | University of Haifa | The NRERC annual conference |  9, February, 2015 |
| **Scientific and Organizing committee** | University of Haifa | Securing Food Using Non-Conventional Water Sources |  24, February,2015 |
| **Scientific and Organizing committee** | University of Haifa | The Natural Gas and the Israeli Society |  21, June, 2015 |
| **Scientific and Organizing Committee**,**Chair of Ministerial Session.****Keynote Speaker** | Adaptation Plans Worldwide | Bar Ilan University  | Adaptation to Climate Change. MOEP |  7, September, 2015 |
| **Chair and Scientific and Organizing committee** | Technion | The role of the academia in combating climate change | 26, February, 2020 |
| **Co-chair** **and Scientific and Organizing committee**  | Virtual | The 48th Annual conference of Science and Environment of the Israeli Society for Ecology and Environmental Science | 12-13, October, 2020 |

**7. *Recent* Invited Lectures**

|  |  |  |  |
| --- | --- | --- | --- |
| **Subject of Lecture** | **Place of Lecture** | **Name of Forum** | **Date** |
| The Growing Importance of the Global Green Manager  | **Kean University,****NJ USA** | MBA in Global Management Seminar: Contemporary Issues in Global Business | **5,** October, 2010 |
| Round Table discussion- Renewable energy forum | Tel Aviv, Israel | The Israel Business Conference 2011 | 12, November, 2011 |
| Round Table Discussion-The role of academia in Environmental Studies and Green Jobs Promotion | Tel Aviv, Israel | The Israel Business Conference 2013 | 17, June,2013 |
| On the Environmental Benefits of Converting Coal Fired Power Plants to Gas  | Tel Aviv, Israel | The 11th annual Energy & Business summit  | 19-20, November, 2013 |
| The Impact of Climate Change on Organizations and Their Supply Chain | Tel Aviv, Israel | The 20th National Quality Conference- Israel Society for Quality  | 18, November, 2014 |
| Keynote- Who Kills Wind Turbines? | Jerusalem, Israel | The 14th World Wind Energy Conference | 26-28, October, 2015 |
| Means to Reduce GHG and Regulation for Adaptation to Climate Change | Tel Aviv, Israel | Talkhouse -Climate Change and its Effects | 5, June 2016 |
| Corporates Environmental Management Systems | **School of Business Administration ECNU, Shanghai, China** | **Invited Course**  | 12-14 September, 2016 |

**8. *Recent* Colloquium Talks**

|  |  |  |  |
| --- | --- | --- | --- |
| **Subject of Lecture** | **Place of Lecture** | **Name of Forum** | **Date** |
| GHG Emission Mitigation Plan for the State of Israel: Strategies, Incentives and Reporting | [Weizmann Institute of Science](http://www.google.co.il/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0CBwQFjAA&url=http%3A%2F%2Fwww.weizmann.ac.il%2F&ei=q2GyVJziDsLuUKrZgvgO&usg=AFQjCNGKudgkg-XYsPlZqtw6UqzGMKL78w&sig2=rH4cI8Se91XADUncUCoWlg&bvm=bv.83339334,d.d24) | [Colloquium](http://www.google.co.il/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&cad=rja&uact=8&sqi=2&ved=0CC0QFjAB&url=http%3A%2F%2Fen.wikipedia.org%2Fwiki%2FColloquium&ei=u3pnVNPYIpLLaPiqgvAI&usg=AFQjCNGeBzphDY4Aw8UN4XWEF6I7ypN6_A) on Alternative Energy  |  14, December, 2014 |
| Challenges of Climate Change for Israel and the US | University of Haifa | University of Haifa, 43rd Board of Governors Session on Israel and North America  |  3, June, 2015 |
| Agro-technologies in light of climate change See H6 | Neve Yaar research station, Israel | Volcani Institute professional seminars |  31, January, 2017 |
| Don’t waste a bite - On the link between hunger and waste management Avoiding food waste- a means to achieve sustainability goals | **School of Public Economics & Administration****Shanghai University of Finance & Economics, China** | Special Seminar to students and faculty members |  27, September, 2017 |

**9. Research Grants**

**a. Grants Awarded**

C= Competitive Grant

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Role in Research** | **Other Researchers** | **Topic** | **Funded by** | **Budget** | **Years** |
| Co-PI | Avnimelech Y. (Co-PI)  | Source Separation Demonstration Project in Kiriat Tivon | LIFE 3rd CountriesC | 400,000 NIS | 1998-2001 |
| CI | Katz A., Bentur A., Shechter M., Avnimelech Y. (PIs) | An Integrated Approach Towards the Reduction of Waste Production. | The Ministry of Science and TechnologyC | 150,000 NIS | 2000-2003 |
| Co-PI | SNI,Avnimelech Y. (Co-PI) | National Priorities in Environmental Policy | SNI | 150,000 NIS | 1999- 2009 |
| Co-PI | Galil N. (Co-PI), Hamer M. (Research Assist.) | On the Environmental and Economic Aspects of the Use of Waste Disposers | Ministry of EnvironmentC | 100,000 NIS | 2001-2003 |
| PI | Goren Y., Pareto Ltd (Co-PI) | The Global Environmental Market and Business Opportunities for Israel | Ministry of Environment and SNI | 120,000 NIS | 2003-2004 |
| Co-PI | Hirsch M., Grossman G., Schitzer A., )Co-PIs) | Air Conditioner Survey in Israel- Conservation Potential and Policy Measures | Ministry of Environment and SNI | 90,000 NIS | 2004 |
| CI | Avnimelech Y. (PI)Zaban H., Amdor L., (Research Assist.)  | Agriculture and the Environment | SNI and Sapir Foundation- Mifaal Hapais C | 125,000 NIS | 2000-2005 |
| PI | Assif LTD.Garb Y., Pareto Ltd. (Research Assist.) | Policy Towards Reducing Transportation-Related Air-Pollution in Dan Region | The Dan Association of Towns for Sewage and Environment  | 190,000 NIS | 2004-2005 |
| PI | Shechter M., Kivun Ltd (Co-PIs) | Introducing a Packaging Law in Israel – Potential and Possibilities for Application | ELA- The Recycling Corporation | 135,000 NIS | 2005 |
| Co-PI | Kan I. (Co-PI), Federman R. (Research Assist.) | Economic Analysis of Organic Wastes Disposal through Compostation: The Case of Israel | Ministry of EnvironmentC | 65,000 NIS | 2005 |
| PI | Elimelech E.(Research Assist.) | International Collaboration on Energy- Israel New Jersey Solar Energy Project | New Jersey Meadowland Commission (NJMC) and Rutgers University  | 4,000 US$ | 2006 |
| PI | Assif Strategies Ltd. (Research Assist.) | Between Technology Development and Public Transparency: Creating Tools for Public Discussion on Business Ventures and Technological Alternatives for Treating Solid Waste | Ministry of Environment and Nesher Cement Industries | 105,000 NIS | 2006-2007 |
| Co- PI | Avnimelech Y., Novik A. (Co-PIs) | Separation of Waste in Haifa- a Feasibility Study | Ministry of Environment and Haifa Municipality C | 80,000 NIS | 2006-2007 |
| Co-PI | Kan I. (Co-PI)Broitman D.Segev T. (Research Assist.) | Economic Modeling and LCA of MSW Management in Israel | Ministry of Environmental ProtectionC | 135,000 NIS | 2008-2009 |
| PI | Goldrath T., Nachmany M.Palatnik R., Kivun Ltd., Lev-On Group Ltd. (CIs) | Economic Analysis of GHG Reduction Alternatives in Israel and Policy Measures Required | Ministry of Environmental Protection & SNI | 600,000 NIS | 2009 |
| PI | Goldrath T., Nachmany M.,Lev-On Group Ltd. (CIs) | Development of a GHG Voluntary Registry Mechanism in Israel  | Ministry of Environmental ProtectionC | 300,000 NIS | 2009 |
| PI | Goldrath T., Nachmany M.,Kivun Ltd., (Research Assist.)Shechter M. (Co-PI) | Packaging Law in Israel- Policy Barriers and Measures | Ministry of Environmental ProtectionC | 100,000 NIS | 2009 |
| PI | 1. Ernst & Young (coordinator)2. Better Place (PI)3. Renault (PI)4. RWTH Aachen University (PI)5. KEMA Nederland BV (PI)6. Fraunhofer IPA (PI)7. Danish Technological Institute (PI)8. TÜV Rheinland (PI)9. Technische Universität Munchen (PI)And Flicstein B. (CI)Shtibelman A.(Research Assist.) | Generic Battery Prototype Integrated with Electric Vehicle Infrastructure and Utilities Interfaces | FP7- STREPC | 70,000 Euro | 2010-2013 |
|  PI, Director of ICCIC | Co-PIs:Schechter M., Kutiel H., Kliot N., Green M., Sterenberg M.,Capeluto G. | Establishment of Israeli Climate Change Information Center (ICCIC) | Ministry of Environmental ProtectionC | 2 Million NISAdditional 200,000 NIS were allocated in 2015 | 2011-2012 2015 |
|  Co-PI | Schechter M. Palatnik R.(Co-PIs)Davidovitch A. (Research Assist.) | Implications of Climate Change on the Insurance Industry and the Israeli Economy  | Ministry of Environmental ProtectionC | 183,000 NIS | 2011- June 2013 |
|  Co-PI | Schechter M., Palatnik R.(Co-PIs)Brody S.(Research Assist.) | Household Environmental Behaviour and Attitudes: Waste Generation, Recycling and Prevention | OECD | 36,000 Euro | 2011-2012 |
|  PI | Eshet T. (Researcher)Shtibelman A.(Research Assist.) | Cost- Benefit and Life Cycle Assessment of Plastic Waste in Israel | Ministry of Environmental ProtectionC | 50,000 NIS  | 2012 |
|  Co-PI | Shechter M., Palatnik R., Milgengreen, U., Kan I.(Co-PIs) | The FACCE- JPI Knowledge Hub”On a Detailed Climate Change Risk Assessment for EuropeanAgriculture and Food Security  | Ministry of Agriculture in cooperation with 17 EU partnersC | 990,000 NIS | 2012- 2015 |
|  Co-PI | Shechter M., Palatnik R., Shamir- Zemach S.(Co-PIs) | The Mediterranean Sea and the Israeli Society | Philanthropic Fund  | 1,420,000 NIS | 2013-2015 |
|  PI | Eshet T. (CI)Licht Y. (Research Assist.) | Agricultural Produce Surplus and Their MostEffective Utilization | Leket Israel | 70,000 NIS | 2014 |
|  Co-PI | Eshet T., (CI) Trop T., (CI) Tchernov D., (CI)Tandler A., (CI)Moses N. (CI) | Sustainable Development of Marine Aquaculture in Israel's Mediterranean Sea | Philanthropic Fund  | 305,000 NIS | 2014-2015 |
|  Co-PI | Kan I., Henkin Z. (Co-PIs) | Treatment and Reuse of Vegetative Agriculture Organic Wastes – EconomicAnalysis of Integrative Technologies | Center of Excellence- Ministry of AgricultureC | 690,000 NIS | 2014-2016 |
|  PI | Palatnik R. Trop T.(Co-PIs)Davidovitch A. (Research Assist.) | Financial and Economic Viability of Green Building in Educational Buildings, For the Consumer and the Israeli Economy | Ministry of Environmental ProtectionC | 198,260 NIS | 2015-2017 |
|  Co-PI | Porat R. (PI)E. Elimelech and T. Eshet (research assistants)  | Ministry of Agriculture Excellence Centre- Minimizing Food Loss along the Supply Chain  | Ministry of AgricultureC | 480,000 NIS | 2016-2018 |
|  Co-PI | Shechter M., Palatnik R., Shamir- Zemach S.(Co-PIs) | The Mediterranean Sea and the Israeli Society(Phase 2) | Philanthropic fund | 1,140,000 NIS | 2016-2017 |
|  PI | Lev-On M. (CI) | Assessment of Natural Gas Loss from the Well-to-Tank Value Chain of Natural Gas Based Transportation Fuels: CNG and Methanol | Ministry of Environmental ProtectionC | 158,000 NIS | 2017-2018 |
|  PI | Lev-On M., (CI) Madar D. (CI) | Comparative study of the feasibility of carbon dioxide capture in the production of natural gas-based transportation fuels | Ministry of Environmental ProtectionC | 100,000 NIS | 2017 |
|  PI | "EV- Consult" (consulting)Idan Liebes (CI) | Electric Vehicles Charging Infrastructure in Israel - Implementation Policy and Technical Guidelines | Ministry of National Infrastructure, Energy and WaterC | 350,000NIS | 2017 |
| Co-PI | Tali Tal, Keren Kaplan Mintz (Co-PIs) | Evaluation of the Ministry of Energy education program: "Energia BeRosh Acher" (Energy in a Different Spirit)  | Ministry of Energy  | 220,000 NIS | 2017-2018 |
| Co-PI | D. Madar, A. Wolfson | Assessment of R&D Activities, Infrastructure and Manpower in the Field of Environmental Protection in Israeli Industry and Academy  | Ministry of Science | 392,000 NIS | 2017-2018 |
|  Co- PI | Mashor Housh | Cyber-Security of Water Distribution Systems: Attacks’ Detection Algorithms and Policy Implications | The Center for Cyber, Law and Policy C | 40,000 NIS | 2018 |
|  PI | D. Mahalel, M. Lev On (CI) | Lessons Learned from Select Countries Policy Measures Including Market Incentives and Regulatory Tools to Reduce Air Pollution from the Transportation Sector | Ministry of Environmental ProtectionC | 100,000 NIS  | 2018 |
| Co-PI | Y. Gerchman,H. Mamman | Ozonation as pretreatment for ethanol as transportation fuel replacement – optimization and life cycle analysis | Ministry of Environmental ProtectionC | 519,225 NIS | 2019-2021 |
| PI | M. Lev On (CI) | Review of Air Quality Impact of Production, Processing, Storage, Transmission and Distribution of Natural Gas Based Transportation Fuels | Ministry of Environmental ProtectionC | 99,000 NIS | 2019 |
| Co-PI | T. Trop, T. Eshet, N. Shapira | The River Restoration Administration Activity Assessment | Philanthropic fund | 125,000 | 2019 |
| Co-PI | K. Kaplan- Mintz,T. Eshet | Ancillary Benefit Assessment of JNF Forests: Physical and Psychological Well-being, Cultural Services and Economic Aspects | JNF | 337,000 NIS | 2019-2020 |
| Co-PI | D. Broitman, M. Portman - Technion | Identification of optimal solutions for integrated runoff management in watersheds with diverse land uses and multiple stakeholders | Ministry of AgricultureC | 345,000 NIS | 2020-2022 |
| Co-PI | K. Kaplan-Mintz | Identifying factors that influence farmers' willingness to implement environmental practices on the Golan Heights | Ministry of ScienceC | 170,000 | 2020-2022 |
| PI | K. Kaplan-MintzTzipi Eshet | Building a personal resilience through contact with nature in the times of Corona | Ministry of ScienceC | 45,000 | 2020 |
| Co-PI | T. Katz-GerroK. Kaplan-Mintz | The effect of culture and religion on the dynamics of food waste in households | ISFC | 585,000 | 2020-2023 |

**10. Scholarships, Awards and Prizes**

2010. Excellence in Teaching. Special award of the Academic of Israel's Planning and Budgeting Committee of the Council for Higher Education.

 2017. The Iraj Zandi Award of the 32nd International Conference on solid waste Technology and Management, Philadelphia, USA. The award was in recognition of my contribution to the field of solid waste technology and management.

2018. The Mifal Hapais ‘Michael Landau Prize’ for the Sciences and Research in the field of sustainability.

**a. Supervision of Graduate Students**

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| --- | --- | --- | --- | --- |
| **Student’s Name**  | **Co- supervisors** | **Title of Thesis / Dissertation**  |  **Date of Completion / in Progress**  | **Forum of Publication** |
| **M.A. Students** |
| 1) Gavish Iris | Prof. M. Shechter | Environmental and economic aspects of packaging law implementation | 2002 | Article published- See item H8 |
| 2) Michal Polansky | Prof. M. Shechter,Dr. D. Baum | Comparison of source separation schemes in Tivon and Misgav | 2002 |  |
| 3) Eyal Shani | Dr. N. Becker | Economic aspects in the reclamation of Hiria | 2003 | Article published - See item D8 |
| 4) Dafna Gan | Prof. M. Shechter,Prof. U. Marinov | Management and public conflicts associated with reduction of waste transferred from Hiria | 2003 |  |
| 5) Roy Federman | Dr. I. Kan | Economic Analysis of Organic-Wastes Disposal through Compostation: The Case of Israel | 2006 | -Oral presentation at ISWA conference 2006-Oral Presentation at The Israeli Society for Economy, 2006-Oral presentation at The Annual conference of the Chief Scientist, MOEP, 2007-Article published- See item D11 |
| 6) Adi Nativ | Prof. A. Haim, Dr. B. Flicstein | Implementation of ISO 14001 standards in Israel  | 2007 |  |
| 7) Efrat Elimelech | Dr. B. Flicstein | Management of hazardous waste in Israel- The case study of Haifa region | 2007 | -Oral presentation at the 36th Annual conf. of the ISEEQS.-Oral presentation at the 1st Intern. Conf. on Hazardous Waste Management, 2008- See Proceedings F5 -Article published- See item D15 |
| 8) Dani Broitman | Dr. I. Kan | Cost estimation of implementing a MSW source separation scheme  | 2008 | -Oral presentation at the 37th Annual conf. of the ISEEQS, 2009-Article published- See item D16 |
| 9) Lilach Inbar | Dr. Y. Steinhart | The role of innovation in consuming eco- friendly goods | 2010 |  |
| 10) Tal Segev | Dr. I. Kan | Economic modeling and LCA of MSW management in Israel | 2010 |  |
| 11) Areej Haj | Dr. S. Paz | The influence of traditional perceptions on environmental behavior. The case of compost issue at the Muslim domain | 2010 | -Article published- See item D17 |
| 12) Hila Puterman | Dr. Y. Steinhart | Consumers' preferences to green goods | 2010 | -Article published- See item 18 |
| 13) Shay Hacham | Dr. D. Goldman &Dr. D. Baum  | The political views of students exposed to environmental studies | 2012 | -Oral presentation at Environmental Education at Academic Institutions in Israel, Technion, 2012 -Poster presentation at 40th Annual Conference of the ISEEQS, 2012-Article published- See item D22  |
| 14) Hadas Yelenik | Dr. M. Yuval | Sustainability aspects of the home composting project in Beit-Hakerem, Jerusalem. From a local to a national project | 2013 |  |
|  15) Uri Ben Haim | Prof. Y. Hayuth | Perceptions of Haifa citizens concerning the Haifa Port | 2013 |  |
|  16) Shiri Hefer | Dr. T. Eshet | Analysis of alternatives to reduce plastics bags use | 2013  | Oral presentation at 40th Annual conference of the ISEEQS, 2012  |
|  17) Amos Shtibelman | Dr. T. Eshet | Cost- Benefit and Life Cycle assessment of plastic waste in Israel | 2013 | Oral presentation at 40th Annual conference of the ISEEQS, 2012 |
|  18) Iddo Grinberg | Dr. D. Lavee | Personal preferences in investing in green companies | 2013 |  |
|  19) Bell Weiss | Dr. D. Goldman &Dr. D. Baum  | Impact of school accreditation to 'green school' to adopt sustainable culture in the school and the development of students' environmental citizenship | 2013 |  -Oral presentation at41st Annual conference of the ISEEQS, 2013***The lecture was selected as the best presentation of the conference*** -Oral presentation at 11th ESERA conference, 2015-Oral presentation Administrative Symposium, Texas, 2017 |
|  20) Tal Zohar | Dr. Y. Parag | Israeli public opinion analysis on consumption and saving energy | 2014 |  |
|  21) Yitshak Hashko | Dr. B. Flicstein | The effects of the Carmel Tunnels on air quality in the city of Haifa | 2015 | -Oral presentation at42nd Annual conference of the ISEEQS.***The lecture was selected as the best presentation of the conference*** |
|  22) Orna Raviv | Dr. R. Palatnik | Economic- Environmental Assessment of Wind Turbines in Israel | 2015 | -Oral presentation at SDEWES 2015  -Oral presentation at43rd Annual conference of the ISEEQS, 2015 -Oral presentation at 14th World Wind Energy Conference, 2015. Article published- See item D23 |
|  23) Ohad Levi | Dr. K. Or-Chen | Environmental attitudes and their impact on the willingness to accept electricity smart grid  | 2015 |  |
|  24) Adi Chapal | Prof. A. Haim | Analysis of Reports of Emissions and Transfers to the Environnent in Israel (2012 & 2013) and Comparison to Germany (2012) using Pollutant Release and Transfer Register (PRTR) | 2016 | Oral presentation at Health & Environment.The 1st conference in memory of Dr. J. Krikon |
|  25) Yaarit Licht | Dr. T. Eshet | Agricultural Produce Surplus and their MostEffective Utilization | 2016 | -Oral presentation at42nd Annual conference of the ISEEQS, 2014-Oral presentation at 2nd international conference on Global Food Security, 2015 |
|  26) Idan Liebes | Dr. R. Palatnik | Economic Implications of Natural Gas Exports: A Case Study Analysis for Israel | 2016 | Oral presentation NRERC annual conference, 2015 |
|  27) Moshe Tsur  | Prof. M. Shechter | Cost benefit analysis of subsidies to renewable energy projects | 2016 |  |
|  28) Oded Agmon | Dr. R. Palatnik | Analyzing the Elasticity of Electricity Demand in the Israeli Industrial Sectors  | 2018 |  |
|  29) Ori Lutzki | Dr M. Housh | Vulnerability of energy systems to cyber attacks  | 2019 |  |
|  30) Omer Chotkowsky | Dr Orr Karrasin | Evaluation of UN climate change agreements | 2019 |  |
| 31) Oded Maoz | Dr Tzipi Eshet | Willingness of Israeli Public to pay for fruits and vegetables with reduced pesticide | 2020 | Poster presentation at EHF Annual Conference 2019Poster presentation 48th annual conference ISEES |
| 32) Almog Litman | Dr Keren Or Chen | The effect of expiry dates terminologyon consumer's behavior to reduce food waste | 2020 | Poster presentation 48th annual conference ISEES |
| 33) Odelia Schrire | Dr. Tzipi Eshet | Impact of creative project-based learning using media tools - photography and graphic design, on the environmental literacy characteristics of high school and college students | 2020 | Poster presentation 48th annual conference ISEES |
| 34) Pninit Kostika | Dr. Ruslana R., Platnik | Life cycle analysis and cost benefit analysis of vegetables and fruits in plastic packaging at the retail stage | In progress |  |

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| **Ph.D. Students** |
|  1) Tal Goldrath | Prof. M. Shechter | Sustainability Indices of Electricity Efficient Measures In Israel's Electricity Market | 2016 | -Poster presentation in Guilin, China 2013See Item F9(ECOS2013 makes no scientific quality distinction between oral and poster presentation)Article published- See item D23 |
|  2) Zvi Baum | Dr. D. Elmakis, Dr. R. Palatnik | A new approach for dynamic electricity demand side management for residential sector  | 2016 | -Oral presentation at 42nd Annual conference of the ISEEQS, 2014-Oral presentation at 'Characteristics of the "Prosumer"­ in the future energy markets', 2015 |
|  3) Ayelet Davidovitch | Prof. M. ShechterDr. R. Palatnik | The Implications of Climate Change on the Insurance Industry and the Israeli Economy | 2017 | -Oral presentation in 40th Annual conference of the ISEEQS, 2012-Oral presentation and session chair- 5th World Congress of Environmental and Resource Economists Istanbul, Turkey, 2014See item F11-Oral presentation at 42nd Annual conference of the ISEEQS, 2014-Oral presentation at Conference on Environment and Natural Resources Management in Developing and Transition Economies, Clermont-Ferrand, France, 2014 See item H54-Oral presentation in 42th Annual conference of the ISEEQS, 2014-Oral Presentation AERE Summer Conference, 2016 - Oral presentation ISEFI-2017- Paper Published D.II5 |
|  4) Efrat Elimelech | Dr. E. Ert | Households Food Waste: Quantification,Characterization and Drivers | 2020 | -Oral presentation at IDC Herzliya, 2016-Oral presentation- 16th Annual Conference of Environmental Education, 2016-Oral presentation- 5th Intnt. ConferenceOn Sustainable Solid Waste Management, Athens, Greece, 2017Oral presentation. The 45th annual conference of ISEEQS, 2017-3 papers published: D. I 28, 34, 35 |
|  5) Hala Abu-Kala | Prof. M. ShechterDr. R. Palatnik | Integrational Allocation of Perishable Natural Resources | 2020 |  |
|  6) Shira Daskal | Prof. M. Shechter | Regulation of the waste sector in Israel | 2018 | -Oral presentation. RIA of the waste sector of Israel. The 45th Annual conference of Science and Environment of the Israeli Society for Ecology and Environmental Science -Oral presentation. RIA of the waste sector of Israel. The 33rd conference of the Israel Economic Association- Oral presentation. MSW management in Israel. The 7th International Conference on Solid Waste Management, Hyderabad, India.Proceedings see F15, F16- Oral presentation.4th SUM conference, Bergamo, ItalyProceedings see F17, F18- Papers published: D. I 29, 33 |
|  7) Leigh Kroeger | Prof. Dan Tchernov | Sustainable Governance of offshore aquaculture in Israel | 2020 | -Oral presentation. Sustainable Development of Aquaculture in Israel.Middle East Conference on Central Asian Aquaculture -Oral presentation. WAS, 2017-Paper published D. I 32  |
|  8) Tal Zohar | Dr. Y. Parag | Middle Out approach for Sustainable Transition to a low carbon society | Level BIn progress | -Oral presentation at 1st conference of the environment and the sociological society in Israel, 2014-Paper publishedD. I 36 |
|  9) Riva Waldman | Dr. T. Eshet | Model for Waste Management Including assignment of an EconomicValue to Outreach Activities and its Assimilation Within the MSW Management System – Tel Aviv Metropolitan Area Test Case | Level BIn progress |  |
|  10) Udi Levin | Prof. D. Mahalel | EV Public Charging infrastructure as an Add-on product | Level BIn progress |  |
| 11) Moshe Tsur | Dr. Yaniv Reingewertz | Optimal electricity system for an energy island such as Israel | Level BIn progress |  |

**Publications**

1. **PhD.**  **Dissertation**

**Title:** **Environmental accounting as a means for the development of solid waste management policy in Israel****.** Technion.

**Date of submission**: September 2000.

**No. of Pages**: 98 pp.

**Supervisors:** Prof. Y. Avnimelech, Technion and Prof. M. Shechter, University of Haifa.

**Language:** English.

**Publications:** see items D2, D3, D4, E2, E3, E4, E5, E6, E7

**Note: For joint publications, the order of the listed authors appears according to**

 **their relative contribution, unless otherwise specified.**

1. **Scientific Books (Refereed)**

**Authored Books- Published**

1. **Ayalon O.,** Shechter M., Avnimelech Y., 1994. Collection & Recycling of MSW- Analyses of Alternatives. The S. Neaman Inst. Publications, ISBN- 965-386-017-8, 103 p. (Hebrew, English abstract)
2. Leigh Livne, Michal Grossowicz, Dan Tchernov and **Ofira Ayalon**. 2021 Predicting Impacts of Offshore Monoculture Farm Expansion in Ultra-Oligotrophic Waters of the Levantine Basin. ***In***: Casadevall, M., Rodríguez-Prieto, C., Torres, J., Eira, C., Marengo, M., Lejeune, P., ... & Richir, J. Marine Aquaculture Impacts on Marine Biota. Frontiers in Marine Science, 8, 162.‏
3. **Monographs**

none

1. **I. Articles in Refereed Journals**

1) Kochva M., **Ayalon O.,** Avnimelech Y., 1994. “Slow Release Rate: Individual

granules and population behavior”. Fertilizer Research, 39: 39-42.

(Current journal title: Nutrient Cycling in Agroecosystems)

2) **Ayalon, O**., Avnimelech, Y., Shechter, M., 2000. “Application of a comparative multidimensional life cycle analysis in solid waste management policy: the case of soft drink containers”. Journal Environmental Science and Policy, Vol. (3), 2- 3, pp 135-144

3) **Ayalon O**., Avnimelech Y., Shechter M., 2000. “Alternative MSW Treatment

Options to Reduce Global Greenhouse gases emissions –The Israeli Example”.

Waste Management and Research, 18: 538-544

4) **Ayalon, O**., Avnimelech, Y., Shechter, M., 2001. “Solid waste treatment as a

high-priority and low-cost alternative for greenhouse gas mitigation”

Environmental Management, 27 (5): 697-704

5) # Palatnik, R., **Ayalon,** O. and Shechter, M., 2005. “Household Demand for Waste Recycling Services". Environmental Management,  [35 (2):](http://www.springerlink.com/app/home/issue.asp?wasp=8a83f0fb11764035ab2ed6177ec30ead&referrer=searchresults&id=J83151235111&backto=searcharticlesresults,1,1;journal,1,1;linkingpublicationresults,1:100370,1) 121 – 129.

6) # Eshet T., **Ayalon O**., Shechter M., 2005. "A Critical Review of Economic Valuation Studies of Externalities from Incineration and Landfilling". Waste Management and Research, Vol. 23, No. 6, 487-504.

7) # Eshet T., **Ayalon O**., Shechter M., 2005. "An inclusive comparative review of valuation for assessing environmental goods and externalities".

 The International Journal of Business Environment (IJBE), Vol. 1 (2), p. 190- 210.

8) **Ayalon, O**., Becker N., # Shani E., 2006. "Economic Aspects of the Rehabilitation of the Hiriya Landfill". [Waste Management,](http://www.sciencedirect.com/science?_ob=PublicationURL&_cdi=6017&_pubType=J&_auth=y&_acct=C000004038&_version=1&_urlVersion=0&_userid=32321&md5=38daf28ce7f9d4ca0d276c2a76a9e554) [Vol. 26 (11](http://www.sciencedirect.com/science?_ob=PublicationURL&_tockey=%23TOC%236017%232006%23999739988%23633221%23FLA%23&_cdi=6017&_pubType=J&view=c&_auth=y&_acct=C000004038&_version=1&_urlVersion=0&_userid=32321&md5=4f29cd253054a3d71d884da5f9c4a650)). Pages 1313-1323.

**(The authors have contributed equally)**

9) # Eshet T., **Ayalon O**., Shechter M., 2006. "Valuation of Externalities of Selected Waste Management Alternatives: A Comparative Review and Analysis". Resources, Conservation and Recycling, [Vol. 46 (4](http://www.sciencedirect.com/science?_ob=IssueURL&_tockey=%23TOC%235994%232006%23999539995%23619905%23FLA%23&_auth=y&view=c&_acct=C000004038&_version=1&_urlVersion=0&_userid=32321&md5=e39dd7ed9fcb8e53856c25b0f951c2a2)), p. 335-364.

10) # Tzipi Eshet, Mira G. Baron, Mordechai Shechter, **Ofira Ayalon**. 2007. "Measuring Externalities of Waste Transfer-Stations in Israel, Using Hedonic Pricing". Waste Management, [Volume 27, Issue 5](http://www.sciencedirect.com/science?_ob=PublicationURL&_tockey=%23TOC%236017%232007%23999729994%23644516%23FLA%23&_cdi=6017&_pubType=J&view=c&_auth=y&_acct=C000004038&_version=1&_urlVersion=0&_userid=32321&md5=0566cc98dd4f2e3ddaf4c1039372970b) , Pages 614-625.

11) **Ayalon O**., Avnimelech Y., 2007. "The Role of an Academic Institute in Setting National Environmental Policy: The Case of Israel". Energy, Volume 32: 927-934

12) **Ofira Ayalon**, Doron Lavee, 2007. "Promoting the Role of Israel’s Environmental Technologies in the International Market". The International Journal of Business Environment (IJBE), Volume 1(4), p. 428-441.

13) **Ofira Ayalon**, Tal Goldrath, Gad Rosenthal and Michal Grossman, 2009. "Reduction of plastic carrier bag use: An analysis of alternatives in Israel". Waste Management, Volume 29 (7), p. 2025-2032.

14) Iddo Kan, **Ofira Ayalon**, # Roy Federman, 2010. "On the efficiency of composting organic wastes". Agricultural Economics, 41 p.151–163.

 15) # E. Elimelech, **O. Ayalon**, B. Flicstein, 2011. "Hazardous waste management and weight-based indicators—The case of Haifa Metropolis". Journal of Hazardous Materials*,* 185:626–633

 16) # Dani Broitman, **Ofira Ayalon**, Iddo Kan, 2012. "One size fits all? An assessment tool for solid waste management at local and national levels". Waste Management. 32: 1979–1988.

 17) Shlomit Paz, **Ofira Ayalon**, # Areej Haj. 2012. "The potential conflict between traditional perceptions and environmental behavior: compost use by Muslim Farmers". Environment, Development and Sustainability, vol. 15,[4](http://link.springer.com/journal/10668/15/4/page/1) , p. 967-978.

18) [Yael Steinhart](http://www.sciencedirect.com/science/article/pii/S0959652613002552), [**Ofira Ayalon**](http://www.sciencedirect.com/science/article/pii/S0959652613002552), # [Hila Puterman](http://www.sciencedirect.com/science/article/pii/S0959652613002552). 2013. "The effect of an environmental claim on consumers' perceptions about luxury and utilitarian products". Journal of Cleaner Production, Volume 53, p. 277-286.

#  19) O. Ayalon, B. Flicstein, A. Shtibelman. 2013. "Benefits of Improving Air Quality - Replacing Conventional Car-based Transportation to Electric Mobility". Journal of Environmental Protection, Volume 4 (10),

 20) **O. Ayalon**, M. Lev-On, P Lev-On and T. Goldrath. 2014. "Greenhouse Gas Emissions Reporting in Israel: Means to Manage Energy Use". Energy Conversion and Management, [Volume 85](http://www.sciencedirect.com/science/journal/01968904/85/supp/C), p. 612–618

 21) **O. Ayalon**, M. Lev-On, P Lev-On. 2014. "Greenhouse Gas Emission Mitigation Plan for Israel: Strategies, Incentives and Reporting". Climate Policy, 15:6, 784-800

**Note: The publisher has set up a promotional page as a contribution to the greenhouse gases international cooperation 2015. This paper was selected to be available, for free, throughout 2015**

 22) D. Goldman, **O. Ayalo**n, D. Baum, #S. Hacham. 2015."Major matters: Relationship between academic major and university students’ environmental literacy and citizenship as reflected in their voting decisions and environmental activism**".**

International Journal of Environmental and Science Education, 10 (5), pp. 671-693.

 23) #Goldrath T., **Ayalon O**., Shechter M. 2015. "A combined sustainability index for electricity efficiency measures". Energy Policy, 86, pp. 574–584

 24) **O. Ayalon**, Freund Koren,S, Zarbiv Zion, M., Shmueli L. 2016. “Evaluating Market Benefits of Transportation Tunnels—The Carmel Tunnels as a Case Study”. Journal of Environmental Protection, 7, 1259-1272

25) O. Raviv, [D. Broitman,](http://www.sciencedirect.com/science/article/pii/S0956053X17307572?via%3Dihub" \l "!) **[O. Ayalon,](http://www.sciencedirect.com/science/article/pii/S0956053X17307572?via%3Dihub" \l "!)** [I. Kan](http://www.sciencedirect.com/science/article/pii/S0956053X17307572?via%3Dihub" \l "!). 2017. A regional optimization model for waste-to-energy generation using agricultural vegetative residuals. Waste Management. [Vol. 73](https://www.sciencedirect.com/science/journal/0956053X/73/supp/C), 546-555

26) D. Broitman, [O. Raviv](https://www.sciencedirect.com/science/article/pii/S0956053X1830062X), [**O. Ayalon**](https://www.sciencedirect.com/science/article/pii/S0956053X1830062X), [I. Kan](https://www.sciencedirect.com/science/article/pii/S0956053X1830062X). 2018. Designing an agricultural vegetative waste-management system under uncertain prices of treatment-technology output products. Waste Management .[Vol. 75](https://www.sciencedirect.com/science/journal/0956053X/75/supp/C), 37-43.

27) Daphne Goldman, **Ofira Ayalon**, Dorit Baum, #Bell Weiss. 2018. Influence of ‘green school certification’ on students' environmental literacy and adoption of sustainable practice by schools. Journal of Cleaner Production, 183, pp. 1300-1313.

 28) #Elimelech, E., **Ayalon, O**., & Ert, E. 2018. What gets measured gets managed: A new method of measuring household food waste. Waste Management. [Volume 76](https://www.sciencedirect.com/science/journal/0956053X/76/supp/C), pp. 68-81

 29) #Daskal S, **Ayalon O.,** Shechter M. 2018. The State of Municipal Solid Waste Management in Israel. Waste Management & Research. Volume 36 (6), pp. 527-534

## 30) # Z. Baum, R. R. Palatnik, O. Ayalon, D. Elmakis, S. Frant. 2018. Harnessing Households to Mitigate Renewables Intermittency in the Smart Grid. [Renewable Energy](https://www.sciencedirect.com/science/journal/09601481). [V. 132](https://www.sciencedirect.com/science/journal/09601481/132/supp/C), pp. 1216-1229

31) Francesco Di Maria, **Ofira Ayalon**, Shira Daskal. 2018. Biodegradable Waste Management by Anaerobic Digestion: A Comparison between Policy Approaches and Regulation in Italy and Israel. Detritus - Vol 03. pp. 58-67.

32) #Kroeger LA, Tsemel A, Tchernov D and **Ayalon O.** 2019. A Theoretical Approach Concerning Nutrient Emissions to Inform Monitoring and Management of Mariculture Farms. J. Aquat Res Mar Sci 2019: 125-133.

33) #Shira Daskal, **Ofira Ayalon** and Mordechai Shechter. 2019. [Closing the Loop: The Challenges of Regulation in Municipal Solid Waste Management](https://digital.detritusjournal.com/articles/closing-the-loop-the-challenges-of-regulation-in-municipal-solid-waste-management/192). Detritus - Vol 05. pp. 3-10

## 34) #E. Elimelech, E. Ert, O. Ayalon. 2019. Bridging the gap between self-assessments and measured household food waste: A hybrid valuation approach. [Waste Management](https://www.sciencedirect.com/science/journal/0956053X). [Vol. 95](https://www.sciencedirect.com/science/journal/0956053X/95/supp/C), p. 259-270

35) #E. Elimelech, E. Ert, **O. Ayalon.** 2019. Exploring the Drivers behind Self-Reported and Measured Food Wastage. Sustainability 11(20), 5677;

36) #Tali Zohar, Yael Parag, **Ofira Ayalon**. 2020. Strategizing demand management from the middle out: Harnessing middle actors to reduce peak electricity consumption. Energy Research & Social Science, 61 101360

37) #Livne Leigh, Grossowicz Michal, Tchernov Dan, **Ayalon Ofira**. 2020. Predicting Impacts of Offshore Monoculture Farm Expansion in Ultra-Oligotrophic Waters of the Levantine Basin. Frontiers in Marine Science, 7,566.

<https://doi.org/10.3389/fmars.2020.00556>

38) Francesco Di Maria, Shira Daskal, **Ofira Ayalon**, 2020. A methodological approach for comparing waste- water effluent's regulatory and management frameworks based on sustainability assessment. Ecological Indicators, V. 118, 106805 <https://doi.org/10.1016/j.ecolind.2020.106805>

39) Adi Wolfson1, **Ofira Ayalon,** Alon Tal, 2020. A Strategic Analysis of National Electricity Generation Alternatives: A Perspective from the Future. J Environ Sci Public Health 2020; 4 (3): 244-257. DOI: 10.26502/jesph.96120098

# 40) [Adi Wolfson](https://sciprofiles.com/profile/291631), [Ofira Ayalon](https://sciprofiles.com/profile/235127), [Daniel Madar](https://sciprofiles.com/profile/author/MThRTEZlblFQUko2Zllka0VuYVZ5WXRVRGpaWUtPMDFvbWRXMzBwM3lFYz0%3D), 2020.  National Strategy for Framing and Prioritizing Environmental Protection Research and Development Topics

Sustainability*,* 12(18), 7420; <https://doi.org/10.3390/su12187420>

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1. **Other Publications**

Personal columns (~60%) and invited articles (~40%) for the Globes and The Marker financial and business newspapers, NRG and YNET, leading news portals, in the fields of energy and environment. Enclosed, *selected* articles published **after 2010**.

**Columns referring to Energy and Climate Change**:

<http://www.nrg.co.il/online/1/ART2/076/420.html> (7/3/2010)

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**Columns referring to Energy Policy in Israel:**

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