

Date: 1.1.2020

## **RESUME**

### **1. PERSONAL DETAILS**

Full Name: Michelle Eva Portman

Identity No: 011923315

Phone numbers: +972-4-8293955; +972-52-7311994

E-mail: mep@technion.ac.il

Web site: <http://portman.net.technion.ac.il/>

### **2. ACADEMIC DEGREES**

- 2007 Ph.D., Public Policy (Environmental Policy track)  
University of Massachusetts  
Committee Chair: Professor David Terkla, Department of Economics
- 1991 M.Sc., Urban and Regional Planning  
Technion - Israel Institute of Technology, Israel
- 1984 B.Sc., Political Economy of Natural Resources  
College of Natural Resources  
University of California at Berkeley

### **3. ACADEMIC APPOINTMENTS**

- 2018- Assoc. Professor, Faculty of Architecture and Town Planning, Technion– Israel Institute of Technology, Haifa, Israel.
- 2012-17 Asst. Professor, Faculty of Architecture and Town Planning, Technion
- 2009-11 Postdoctoral Researcher, Department of Geography, Faculty of Social Sciences, Hebrew University of Jerusalem, Israel.
- 2007-09 Postdoctoral Researcher, Marine Policy Center, Woods Hole Oceanographic Institution, Falmouth, Massachusetts.

### **4. PROFESSIONAL EXPERIENCE (outside academia)**

- 2000-08 Regional Planner IV, Waterways Regulation Program, Bureau of Resource Protection, Massachusetts Department of Environmental Protection, Boston, Massachusetts
- 1998-00 Regional Planner IV, Waste Planning Division, Bureau of Waste Prevention, Massachusetts Department of Environmental Protection, Boston, Massachusetts
- 1995-98 Senior Planner, Boston Redevelopment Authority, City of Boston, Massachusetts
- 1994-95 Planning Staff Head, Central District Planning Commission, Israel Ministry of the Interior, Ramle, Israel

1991-94 Planner, Conservation Department, Society for the Protection of Nature in Israel, Tel Aviv, Israel

1989-91 Planner, Planning Authority, Israel Ministry of the Interior, Jerusalem, Israel

### **5. RESEARCH INTERESTS (briefly)**

environmental planning; spatial analysis; marine policy and conservation; coastal resource management; marine protected areas; environmental impact assessment; environmental justice;

### **6. TEACHING EXPERIENCE (last 3 years)**

Green Roofs and Walls for Sustainable Cities (graduate, new course)  
Technion Israel Institute of Technology, 30 students

Water Sensitive Urban Planning (graduate, new course)  
Technion, Israel Institute of Technology, 20 students

Introduction to Environmental Planning (graduate)  
Technion, Israel Institute of Technology, 45 students

GIS for Planners (graduate)  
Technion, Israel Institute of Technology, 36 students

GIS Applications for Conservation and Environmental Decision-making (graduate, new course)  
Technion, Israel Institute of Technology, 7 students

Coastal and Marine Planning and Management (graduate, new course)  
Technion, Israel Institute of Technology, 25 students

### **7. TECHNION ACTIVITIES**

2014 to present          Social & Behavioral Sciences Institutional Review Board

2013 to present          Representative to the Inter-Faculty Program on Marine Engineering

### **8. DEPARTMENTAL ACTIVITIES**

2017-18          Faculty library committee

2016-18          Faculty events committee

2016-17          International exchange program committee

2012-          Member of Center for Urban and Regional Studies

### **9. PUBLIC PROFESSIONAL ACTIVITIES**

**Rhodes Ocean Scholar**

2014 Rhodes Academy for Oceans Policy, Rhodes, Greece (summer appointment)

### **Editorial**

1999-01 Member of Editorial Board, International Journal of Waste Management and Technology

### **Occasional Reviewer for Journals**

2008 Journal of Environmental Management  
 2009 Coastal Management Journal  
 2009 Stanford Journal of Law, Science and Policy  
 2009 Energy Policy  
 2010 Journal of Integrated Coastal Zone Management  
 2010 Journal of Environmental Assessment Policy and Management  
 2011 Journal of Environmental Policy and Planning  
 2011 Conservation Biology  
 2012 Ecology and the Natural Environment  
 2013 International Journal of Marine Sciences  
 2013 Environmental Education Research  
 2013 Marine Ecology Progress Series  
 2014 PLOS ONE  
 2015 Marine Policy  
 2016 Marine Policy  
 2017 PLOS ONE  
 2017 Journal of Environmental Policy and Planning  
 2018 Ocean and Coastal Management  
 2018 Marine Policy  
 2018 Marine Pollution Bulletin  
 2018 Frontiers in Marine Science

### **Other Professional Service**

2016 BONUS, Baltic Sea research proposal review for years 2017  
 2016 Science of Marine Protected Area, Mediterranean Group, Science Advisory Committee; Associated with Oregon State University, Corvallis, USA

## **10. MEMBERSHIP IN PROFESSIONAL SOCIETIES**

Member, American Association for the Advancement of Science  
 Member, Israel Association for Environmental Planning  
 Member, The Coastal Society (US)  
 Member, Israel Society of Ecology and Environmental Sciences  
 Member, The Israeli Association for Aquatic Sciences

## **11. FELLOWSHIPS, AWARDS AND HONORS**

- 2015 Quebec Labrador Foundation Middle East Program, Lab-Start Award
- 2010-15 Marie Curie Fellow, European Union, Framework Program 7
- 2011 Golda Meir Award for Postdoctoral Studies, Hebrew University, Israel
- 2010 Lady Davis Fellowship, Hebrew University of Jerusalem, Israel
- 2008 Environmental Policy McCloy Fellow, American Council on Germany
- 2007-09 Marine Policy Center Fellow, Woods Hole Oceanographic Institution
- 2007 The Award for Excellence in Public Policy, University of Massachusetts, Boston
- 2002 M. Lenz Memorial Award for Graduate Student Research, UMass, Boston

## **12. GRADUATE STUDENTS**

### **Completed PhD theses**

- 2017 Ram Barankin, "Indicators and Information for Integrated Decisions on Climate Change: Quantitative Methodology for Understanding the Vulnerability of Coastal Communities". Dissertation committee with Professors Bob Bowen and Paul Kirshen, UMASS Boston, Current employment: Fidelity Insurance, Boston, MA
- 2018 Ateret Shabtay, "Marine conservation and infrastructure planning: Is multi-use possible?" Principle Supervisor Asst. Prof. M. Portman, mentored by Prof. Y. Carmel, Technion. Current employment: Post-doctoral Fellow, University of La Reunion, France.

### **Completed MSc theses**

- 2016 Sharon Hanan-Salkinder, "The integration of small scale archaeological sites in the modern-urban fabric", Principle Supervisor Asst. Prof. M. Portman, mentored by Assoc. Prof. P. Plaut. Current employment: private planning firm.
- 2017 Emri Brickner, "Population Evacuation in Areas Exposed to Tsunami Flooding: Bat Galim as a case study" Principle Supervisor M. Portman, mentored by Assoc. Prof. P. Plaut. Current employment: Planners, Negev Water Authority.
- 2017 Aviva Yasner, "Net Zero Energy Strategic Planning Principles: Israeli Air Force 2025" Principle Supervisor M. Portman, mentored by Assoc. Prof. G. Capeluto. Current employment: private planning firm.
- 2018 Nadav Shapira, "Evaluation Tool for Urban Stormwater Management Urban Landscape Projects: The Rishon Lezion Lakes Project as a Case Study", Principle Supervisor Assoc. Prof. T. Alon-Moses with Co-Supervisor M. Portman. Current employment: private planning firm.
- 2018 Eshkar Eliahou-Handler, "The Brownfields: What impact does industrial contamination of land have on the urban environment in Tel Aviv?" with Co-Yuval Portugali. Current employment: private planning firm.

### **PhD theses in progress**

- 2017 Mabel Augustowski "Scuba Dive Tourism in Coastal and Marine Protected Areas: Environmental planning toward sustainability" Supervisor M. Portman. Expected graduation: 2021
- 2018 Olga Vdov "What is Natural? Shifting Baselines in Environmental Impact Assessment", Supervisor M. Portman. Expected graduation: 2022
- 2018 Inbar Shwartz "Utilizing Technological Advancements for Marine Spatial Planning", Supervisor M. Portman. Expected graduation 2022

### **MSc theses in progress**

- 2018 Sapir Goldwasser "Utilization of sand resources in during building crisis years in Israel", Co-supervisors: Prof. Alon Tal and M. Portman. Expected graduation: 2020

### **13. SPONSORED LONG-TERM VISITORS AND POST-DOCTORAL ASSOCIATES**

- 2013-16 Dr. Yael Teff-Seker
- 2016 Dr. Ruth Brennan
- 2016-17 Dr. Shula Goulden (with Professor Tali Alon-Moses)
- 2017 Dr. Benny Furst

### **14. RESEARCH GRANTS**

#### **Competitive**

- 2020-22 "Identification of optimal solutions for integrated runoff management in watersheds with diverse land uses and multiple stakeholder" Co-PI with Prof. Ofira Ayalon and Dr. Dani Broitman; 345,000 NIS Israel Ministry of Agriculture
- 2017-19 "On-going participation of bathing beach users in marine litter prevention" PI M. Portman; 122,000 NIS **Yad HaNadiv**
- 2016-19 "Coastal infrastructure planning for the promotion of marine conservation along the Israeli Mediterranean Sea". PI M. Portman, 180,000 NIS. **Israel Ministry of Infrastructure, Energy and Water.**
- 2015-19 "Water-Sensitive Urban Design: Best Practices and Beyond", Co-PI with Prof. Tali Alon-Moses and Prof. Naomi Carmon \$100,000 **Jewish National Fund**
- 2014-17 "Marine Spatial Policy Plan for the Exclusive Economic Zone (EEZ)" Co-PI with Prof. Shamay Assif, \$1.2 million. **Yad HaNadiv Foundation.**
- 2013-15 "Ecosystem services (ES) assessment from the mountain to the sea: A multi-disciplinary method for defining ecosystem service indicators across landscape

units". Co-PI with Prof. Daniel Orenstein. NIS 150,000 **Israel Ministry of the Environment**.

2010-15 "Design and Management of Marine Reserve Networks (DEMARN)". Principal Investigator. €100,000. **Marie Curie Program of EU, FP7**. PI M. Portman

2008-09 "The Connection between Fisheries Resources and Spatial Land Use Change". PI M. Portman with Co PI Senior Scientist Dr. Di Jin. \$120,000 Funded by Cooperative Institute on Climate and Ocean Research at Woods Hole Oceanographic Institution and the National Oceanic and Atmospheric Administration.

## **15. PUBLICATIONS**

(All publications should appear in ***increasing*** chronological order).

### **Theses**

- 1991 Master's Thesis: *Scenic Resource Evaluation in Environmental Impact Statements*
- 2007 Dissertation: *From Land to Sea: the application of land protection tools to the marine environment*

### **Refereed papers in professional journals**

**Accepted (or in press) papers** (*students' names in italics*)

**Portman, M.E.** "Tidelands Management: Implementation of the Massachusetts Public Waterfront Act", Journal of Environmental Policy and Planning, Vol. 8(4): 293-308, 2006.

**Portman, M. E.** "Zoning Design for Cross-border Marine Protected Areas: The Red Sea Marine Peace Park Case Study", Ocean and Coastal Management Journal, Vol. 50(7):499-522, 2007.

**Portman, M. E.** "Coastal Protected Area Management and Multi-tiered Governance: The Cape Cod Model", Journal of Coastal Conservation, Vol. 11(2): 121-131, 2007.

**Portman, M.E.,** Duff, J. A., Köppel, J., Reisert J., and Higgins, M. E. "Offshore Wind Energy Development in the Exclusive Economic Zone: Legal and Policy Supports and Impediments in Germany and the U.S." Energy Policy, Vol. 37(9): 3596-3607, 2009.

**Portman, M. E.,** Jin, D., Thunberg, E. "Waterfront Land Use Change and Marine Resource Conditions: The Case of New Bedford/Fairhaven Harbor", Ecological Economics, Vol. 68 (8-9): 2354-2362, 2009.

**Portman, M. E.** "From Land to Sea: The Role of Land Trusts in Marine Protection", Society and Natural Resources, Vol. 22(1): 12-26, 2009.

**Portman, M. E.** "Involving the Public in Impact Assessment for Offshore Renewable Energy Facilities", Marine Policy, Vol. 33(2): 332-338, 2009.

**Portman, M.E.** "Offshore Renewable Energy – Stakeholder Perceptions and Public Participation in the New Frontier", Modern Energy Review, Vol. 2(2):114-117, 2010.

Sas, E., Fishhendler, I., **Portman, M.E.** "The demarcation of arbitrary boundaries for coastal zone management: The Israeli case", Journal of Environmental Management, Vol. 91(11): 2358-2369, 2010.

- Portman, M. E.** “Marine Renewable Energy Policy: Some U.S. and International Perspectives Compared”, Oceanography, Vol. 23(2):70-77, 2010.
- Portman, M. E.** “Marine Spatial Planning: Achieving and Evaluating Integration”, ICES Journal of Marine Science, 68(10): 2191-2200, 2011.
- Portman, M. E.**, Jin, D., Thunberg, E. “The Connection between Fisheries Resources and Spatial Land Use Change: The Case of Two New England Fish Ports”, Land Use Policy, 28(3): 523-533, 2011.
- Giakoumi, S. Mazor, T., Franchetti, S., Kark, S., **Portman, M. E.**, Coll, M., Steenbek, J. Possingham, H. “Advancing marine conservation planning in the Mediterranean Sea”, Reviews in Fish Biology and Fisheries. 22(4): 943-949, 2012.
- Portman, M. E.**, *Nathan, D.*, Levin, N. “From the Levant to Gibraltar: A Regional Perspective for Marine Conservation in the Mediterranean Sea”, Ambio — Journal of the Human Environment. 41(7): 670-681, 2012.
- Portman, M.E.**, Esteves, L.E., Le, X. Q., Khan, A. Z. “Improving Integration for Integrated Coastal Zone Management: An eight country study”, Science of the Total Environment. 439: 194-201, 2012.
- Portman, M. E.** “Losing Ground: Mediterranean Shoreline Change from an Environmental Justice Perspective”, Coastal Management 40(4): 421–441, 2013.
- Portman, M.E.**, Notarbartolo-di-Sciara, G., Agardy, T., Katsanevakis, S., Possingham, H.P., di-Carlo, G. “He Who Hesitates is Lost: Why Conservation of the Mediterranean Sea is Necessary and Possible Now”, Marine Policy 42: 270-279, 2013.
- Portman, M. E.** "Ecosystem Services in Practice: Challenges to real world implementation of ecosystem services across multiple landscapes", Applied Geography 45: 185-192, 2013.
- Portman, M.E.** “Regulatory capture by default: Offshore exploratory drilling for oil and gas”, Energy Policy 65: 37-47, 2014.
- Portman, M.E.** “Visualization for Planning and Management of Oceans and Coasts”, Ocean and Coastal Management 98: 176-185, 2014.
- Portman, M.E.**, Dalton, T.M., Wiggin, J. “Revisiting Integrated Coastal Zone Management: Is It Past Its Prime?”, Environment: Science and Policy for Sustainable Development 57(2): 28-37, 2015.
- Portman, M.E.**, *Nathan, D.* "Conservation 'Identity' and Marine Protected Areas Management: A Mediterranean case study", Journal of Nature Conservation 24: 109-116, 2015.
- Portman, M.E.** "Marine Spatial Planning in the Middle East: Crossing the policy-planning divide". Marine Policy 61: 8-15, 2015.
- Portman, M.E.**, Natapov, A., Fisher-Gwirtzman, D. "To go where no man has gone before: Virtual Reality in Architecture, Landscape Architecture and Environmental Planning", Computers, Environment and Urban Systems. 54: 376-384, 2015.
- Kark, S., Levin, N., Klass, K., Shanis, U., Pargament, D., **Portman, M.E.**, Mandelik, Y., Orion, N., Safriel, U. et al. "Priority questions and horizon scanning for conservation: A comparative study", PLOS ONE. 11(1): e0145978, 2016.
- Portman, M.E.**, *Shabtay-Yanai, A.*, *Zanzuri, A.* "Incorporation of Socio-Economic Features' Ranking in Multicriteria Analysis Based on Ecosystem Services for Marine Protected Area Planning" PLOS ONE. 11(5): e0154473, 2016.
- Portman, M. E.**, *Teff-Seker, Y.* "Community-Level Environmental Projects as Learning Tools for Planners: A case study of graduate planning students". Environmental Education Research. 23(3): 415-435. 2017

*Brennan, R.E., Portman, M.E.* "Situating Arab-Israeli artisanal fishermen's perceptions of marine litter in a socio-institutional and socio-cultural context", *Marine Pollution Bulletin* 115(1-2): 240-251, 2017

**Portman, M. E., Brennan R. E.** "Marine Litter from Beach-Based Sources: Case study of an Eastern Mediterranean coastal town" *Waste Management* 69: 535-544 2017.

**Portman, M.E., Teff-Seker, Y.** "Factors of Success and Failure for Transboundary Environmental Cooperation: Projects in the Gulf of Aqaba" *Journal of Environmental Policy and Planning* 19(6): 810-826, 2017.

Stelzenmüller, V., Coll, M., Mazaris, A.D., Giakoumi, S., Katsanevakis, S., **Portman, M.E.**, Degen, R., Mackelworth, P., Gimpel, A., Albano, P.G., Almpanidou, V., Claudet, J., Essl, F., Evagelopoulos, T., Heymans, J.J., Genov, T., Kark, S., Micheli, F., Pennino, M.G., Rilov, G., Rumes, B., Steenbeek, J., Ojaveer, H. "A risk-based approach to cumulative effect assessments for marine management", *Science of the Total Environment* 612: 1132–1140, 2018.

*Shabtay-Yanai, A., Portman, M.E., Carmel, Y.* "Incorporating principles of reconciliation ecology to achieve ecosystem-based marine spatial planning", *Ecological Engineering* 120: 595-600, 2018.

**Portman, M.E.**, "Policy Options for Coastal Protection: Integrating inland water management with coastal management for greater community resilience" *Journal of Water Resources Planning and Management* 144(4): e05018005, 2018.

*Shabtay-Yanai, A., Portman, M.E., Carmel, Y.,* "Contributions of marine infrastructures to marine planning and protected area networking", *Aquatic Conservation: Marine and Freshwater Ecosystems* 28(4): 830-839, 2018.

*Goulden, S., Portman, M.E., Carmon, N., Alon-Moses, T.* "From Conventional Drainage to Sustainable Stormwater Management: Beyond the Technical Challenges", *Journal of Environmental Management* 219: 37-45, 2018.

*Shabtay-Yanai, A., Portman, M.E., Ofir, E., Carmel, Y., Gal, G.* "Using Ecological Modeling in Marine Spatial Planning to Enhance Ecosystem-based Management, *Marine Policy*, :95 14-23, 2018.

Gissi, E., **Portman, M.E.**, Hornidge, A.K. "Un-Gendering the ocean: Why women matter in ocean governance for sustainability", *Marine Policy* 94: 215-219, 2018.

*Shabtay, A., Portman, M.E., Manea, E., & Gissi, E.* "Promoting ancillary conservation through marine spatial planning", *Science of The Total Environment*, 651: 1753-1763, 2019.

*Teff-Seker, Y., Portman, M., Karen Kaplan Mintz,* "Project-Based Learning in Education for Sustainable Development: A Case Study of Graduate Planning Students" *Case Studies in the Environment* pp. 1–16, 2019.

**Portman, M. E., Pasternak, G., Yotam, Y., Nussbaum, R., Behar, D.** "Beachgoer Participation in Prevention of Marine Litter: Using design for behavior change", *Marine Pollution Bulletin* 144: 1-10, 2019.

**Portman, M. E.,** "Detached Islands: Artificial Islands as Adaptation Challenges in the Making" *Die Erde – Journal of the Geographical Society of Berlin* 150 (3): 158-168, 2019

Mackelworth, P.C., Teff-Seker, Y., Fernandez, T. V., Marques, M., Alves, F. L., D'Anna. G., Fa, D.A., Goldsborough, D., Holcer, D., Kyriazi, Z., Pita, C., **Portman, M.E.**, Rumes, B., Warr, S.J. "Geopolitics and Marine Conservation: Synergies and Conflicts" *Frontiers in Marine Science* 6 (759): 1-17. doi: 10.3389/fmars.2019.00759

### **Refereed Publications Hebrew (Israeli) journals**



*Teff-Seker, Y., Portman, M.* "Stakeholder Participation in Planning Processes: The case of the Israel Marine Plan", Ecology & Environment, 7(1), 24-32, 2016.

*First, B., Portman, M.* "'Not In My Backyard': Characteristics, causes, and responses to the NIMBY phenomena in Israel – case study analysis of energy infrastructure", Ecology & Environment, 9(2): 34-41, 2018.

*Salkinder (Hanan), S., Portman, M., Plaut, P.* "Integration of Archeological Parks in Urban Environments: Evaluation of the relation between site and environment", Planning: Journal of the Israel Association of Planners, 15(2), 40-62, 2018.

### **Submitted papers**

**Portman, M.E., Camporezi, A.Z.** "Exploring the relationship: Attitudes and behaviours of marine sports participants toward marine conservation and environmental protection" Marine Policy (under review).

### **Review papers**

### **Books**

*Compost by Gosh!* [Children's book] Flower Press, pp. 30. 2003.

Environmental Planning for Oceans and Coasts: Methods, Tools, Technologies, Switzerland: Springer 2016, pp. 237.

### **Chapters in books**

**Portman, M.E.** Developing Resource Management and Marine Policy for the Eastern Mediterranean Sea, In: *The Mediterranean Sea: Its History and Present Challenges*. Goffredo, S., Baader, H. and Dubinsky, Z. Editors, Berlin: Springer, 2013.

**Portman, M.E., Elhanan, Y.** Ecosystem Services Assessment from the Mountain to the Sea: In search of a method for land- and seascape planning. In: *Urban Sustainability on the Ground and in Place*. Gatrell, J. D. Editor, Berlin: Springer, 2015

**Portman, M.E., Teff-Seker, Y.** Remembering the Red Sea Marine Peace Park. In: *Marine Transboundary Conservation and Protected Areas*. Mackelworth, P. Editor, New York: Routledge 2016.

May, R., Gill, A.B., Köppel, J., Langston, R.H.W., Reichenbach, M., Scheidat, M., Smallwood, S., Voigt, C.C., Hüppop, O., **Portman, M.**, Future Research Directions to Reconcile Wind Turbine – Wildlife Interactions. In: *Wind Energy and Wildlife Interactions*. Köppel, J. Editor, Berlin: Springer 2017.

### **Refereed papers in conference proceedings**

Ginott Y., Koach J., Ramon. U. and **Portman, M.E.** "Implementation of GIS in Evaluation of Natural Landscape Resources for Land Use Planning in the Lachish Region, Israel" Proceedings of the 9th Annual Symposium on Geographic Information Systems. British Columbia, Canada, 1995.

- Portman, M.E.** "Local and State Perspectives on Brownfields in Massachusetts". National Conference of the American Planning Association. pp. 549-556, Boston, Massachusetts, 1998.
- Portman, M. E.** "Fisheries Management and Marine Biodiversity: The Case of New England Groundfish", Proceedings of the First International Conference on Coastal Conservation and Management in the Atlantic and Mediterranean. PAGES????Algarve, Portugal, 2005.
- Portman M. E.**, "From Land to Sea: Land Trusts and Marine Protection", Proceedings of the 20<sup>th</sup> International Conference of the Coastal Society, pp. 304-308, St. Petersburg, Florida, 2006.
- Portman M. E.**, "Waterfront Land Use Change and Marine Resource Regulation: The New Bedford Pilot Study", Proceedings of the 21<sup>th</sup> International Conference of the Coastal Society, pp. 283-287, Redondo Beach, California, 2008.
- Portman, M.E.**, Köppel, J., Duff, J. "Offshore Wind Farm Siting in Germany and the U.S.: Legal and Policy Impediments and Supports", Proceedings of the IEEE Oceans '09 Conference, pp. 10-53, Bremen, Germany, 2009.
- Portman M. E.** "Marine spatial planning: achieving and evaluating integration", Proceedings of the ICES Annual Science Conference '13, pp. 45-54, Reykjavik, Iceland, 2013.

### **Research reports and other publications** (only publications not mentioned above)

- Schütze, M., Alex, J., Snir, O., Neta, H., Gilboa, Z., Vdov, O., **Portman, M.E.**, Friedler, E., "Closing the urban water loop – Integrated urban water and wastewater management for increasing sustainability – CLUWAL, *German-Israeli Cooperation in Water Technology Research Status Conference 2019*, Dresden, German, 24-25 September 2019
- Guest Editors: **Portman, M. E.**, Fisher-Gewirtzman, D., Hölscher, C., "The Use of Virtual Reality for Environmental Representations". Special Issue in: *Computers, Environment and Urban Systems* 2015, Volume 54
- Portman, M.E.**, You'll Be Okay, Working Life Essay, *Science*, 349:6240, p.1282.
- Katsanevakis, S., Mackelworth, P., Coll, M., Frascetti, S., Macic, V., Giakoumi, S., Jones, P.J.S., Levin, N., Albano, P.G., Badalamenti, F., Brennan, R. E., Claudet, J. Culibrak, D., D'Anna, G., Deidun, A., Evagelopoulos, A., García-Charton, J. A., Goldsborough, D., Holcer, D., Jimenez, C., Kark, S., Sorenson, T. K., Lazar, B., Martin, G., Micheli, F., Milner-Gulland, E. J., Pipitone, C., **Portman, M.**, Pranovi, F., Rilov, G., Smith, R. J., Stelzenmüller, V., Vogiatzakis, I., Winters, G. "Advancing marine conservation in European and contiguous seas with the MarCons Action" *Research Ideas and Outcomes* 3: e11884, 2017.

## **16. CONFERENCES**

### **Plenary, keynote or invited talks**

"Ocean Conservation and Governance", *Ocean Sustainability Science Symposium*  
Kiel, Germany, 4-6 March, 2015, Plenary

"Israel Marine Planning – Reaching Out", *Future Oceans Spatial Planning Workshop*,  
GEOMAR, Kiel, Germany, 3-6 March, 2014. Invited

“Planning Tools for Sustainable use of the Marine Environment: impact assessment, ecosystem services and marine protected areas”, *Sustainable Blue Growth in Mediterranean and Black Sea Countries*, Trieste, Italy, July 11-13, 2017. Invited.

### **Contributed Talks and Posters**

Portman, M. E. "Local and State Perspectives on Brownfields in Massachusetts", *Annual Conference of the American Planning Association*, Boston, Massachusetts (May), 1998.

Portman, M. E. "Source Reduction in Integrated Solid Waste Management Planning for Massachusetts". *The Fifth International Conference on Solid Waste Technology and Management*. Philadelphia, Pennsylvania. (November), 1999.

Portman, M. E. “Implementing the Massachusetts Waterways Regulation Program”, *Coastal Zone Canada*, Newfoundland (June), 2004.

Portman, M. E. “Waterfront Land Use Change, Marine Resource Conditions, and Regulation: The New Bedford Pilot Study”, *PoCoast Seminar on Coastal Research*. Sponsored by the Faculdade de Engenharia da Universidade do Porto. Portugal (May), 2008.

Portman, M. E. “Offshore Renewable Energy Siting in Germany and the United States: Legal and Policy Impediments and Supports”, *Coastal Zone '09*, Boston, Massachusetts (July), 2009.

Portman, M. E. “Waterfront Land Use Change and Marine Resource Conditions: The Case of New Bedford/Fairhaven Harbor”, *Coastal Zone '09*, Boston, Massachusetts (July), 2009.

Portman, M. E. “Losing Ground: Can coastal erosion be an environmental justice problem?” *Coastal Geotools Conference*, Myrtle Beach, South Carolina (March), 2011.

Portman, M. E. “Characteristics and Characteristic Drivers of Marine Protected Areas in the Mediterranean Sea” *The 3rd European Congress of Conservation Biology*, Glasgow, Scotland (August 28-31), 2012.

Portman, M. E. “From the Levant to Gibraltar and Back: A Regional Perspective for Marine Conservation in the Mediterranean” *First International Workshop on Conservation Planning in the Mediterranean Sea*, Santorini, Greece (April 2-5), 2012.

Portman, M. E. “Marine spatial planning: achieving and evaluating integration”, *International Council on the Exploration of the Sea Annual Science Conference '13*, Reykjavik, Iceland (September 22-26), 2013.

Portman, M. E. “Ecosystem services assessment from across landscape units”, *The 18<sup>th</sup> Congress of the Meso-American Society for Biology and Conservation*, Copán, Honduras, (October 13-18), 2014.

Portman, M. E. *Marine Geological and Biological Marine Habitat Mapping (BIOHAB)*, Salvador, Brazil (May 2-8) 2015. Three presentations made:

a) “Designing Marine Protected Area Management Plans: Using Spatial Conservation Prioritization Methods”

- b) “Ecosystem Services Assessment from the Carmel Mountain to the Sea: A multi-disciplinary method for defining ES indicators in coastal and marine landscape units”
- c) “Visualization of the Marine Environment using Virtual Reality and Interactive Applications for Marine Planning”

Portman, M.E., "Factors of success and failure for transboundary environmental cooperation: projects in the Gulf of Aqaba", *Workshop I: Advancing marine conservation in the European and contiguous seas*, MarCons COST ACTION, Zagreb, Croatia (October 13-14) 2016.

Shabtai, Y., Portman, M. E., Carmel, Y. "Marine infrastructure enclosures for enhancing marine conservation", *Maritime Spatial Planning, Ecosystem Approach and Supporting Information Systems (MaPSIS)*. Las Palmas, Gran Canaria, 24-28 April, 2017

Portman, M.E. "Incorporating principles of reconciliation ecology to achieve ecosystem-based marine spatial planning", *Ocean Governance for Sustainability Challenges, Options and the Role of Science*, OceanGov COST ACTION, Bremen, Germany, 6-8 March, 2017.

Portman, M.E. "Science for the Land-Sea Interface: Informing Coastal and Near-shore Marine Policy", *American Association for the Advancement of Science Annual Conference*, Boston, US. Session Proposed and Moderated, 16-20 February, 2017.

Portman, M.E. "Policy Options for Coastal Protection: Integrating inland water management with coastal management in response to coastal erosion and shoreline change", *Boundary Spanning: Advances in Socio-Environmental Systems Research*, Annapolis, US 11-13 June, 2018.

Shabtai, Y., Portman, M. E., Carmel, Y. "Promoting marine conservation through marine spatial planning: using ecological modelling to study coastal infrastructure management effect on the marine environment", *The 2nd Science-based Management Conference: Anthropogenic Impacts to the Mediterranean Sea*. Haifa University, June 19-20, 2018. Oral Presentation

Portman, M.E. "Policy Options for Coastal Protection: Integrating inland water management with coastal management for greater community resilience", *Coastal Zone Canada*, St. John's, Newfoundland, Canada, 15-19 July, 2018.

## **Israel**

Portman, M.E. “Communities and Changing Marine Resources: The case of two fishing ports in the northeastern U.S.” *Annual Israel Association of Planners Conference*, Kfar HaYarok, Israel (March), 2010.

Portman, M.E. “From the Shores of Israel to Gibraltar: Current Status of Marine Protected Areas of the Mediterranean Sea”, *Annual Conference of the Israel Society of Ecology and Environmental Sciences*, Israel (June), 2011.

Portman, M.E. “Instruments of Integration for Coastal Development” *The 26<sup>th</sup> Umbrella Symposium on Sustainable Urban Development*, Technion— Israel Institute of Technology, Haifa, Israel (March), 2012.

Portman, M.E. “Designation and Management of Marine Reserve Networks (DEMARN – Project)” *Annual Conference of Israel Association of Aquatic Sciences*, Israel (June), 2012.

Portman, M.E. "Ecosystem services assessment from the mountain to the sea", *Annual Conference of the Israel Planning Association*, Jerusalem, Israel (February), 2014.

Portman, M.E. "He Who Hesitates is Lost....A Proposed Planning Process for Conservation in the Mediterranean Sea" *The 2<sup>nd</sup> International Workshop on Advancing Conservation Planning in the Mediterranean Sea*, Nachsholim, Israel (April), 2014.

Portman, M.E. "Participatory Projects as a Tool for Meaningful Environmental Learning: A case study of graduate planning students", *Annual Conference of the Israel Society of Ecology and Environmental Sciences*, Kiryat Ono, Israel (September), 2014.

Portman, M.E. "Comparing Systematic Conservation Planning Approaches to Real-World Planning: Marine protection at Rosh HaNikra", *Annual Conference of the Israel Geography Association*, Haifa, Israel, (December) 2014.

Portman, M.E. "Visualization of the Marine Environment using Virtual Reality and Interactive Applications for Marine Planning", and "Designing Marine Protected Areas Management Plans: Using Spatial Conservation Prioritization Methods" *Annual Conference of the Israel Society of Ecology and Environmental Sciences*, Jerusalem, Israel (September), 2015.

Portman, M.E. "Marine Spatial Planning in the Levant: Crossing the policy-planning divide" *The First Science Based Management of Marine and Coastal Resources Convention*, Haifa, Israel (November) 2015.

Shabtai, Y., Portman, M. E., Carmel, Y. "Realizing marine conservation in enclosed marine infrastructure areas." *First Israeli Conference for Conservation Science*, Sde Boker, Israel, 3-4 April, 2017.

Shabtai, Y., Portman, M.E., Carmel, Y. "Realizing marine conservation in enclosed marine infrastructure areas", *The 45th Annual Conference for Science and the Environment*, Herziliya, July 10-11, 2017, Oral Presentation.

Portman, M.E., Furst, B. "Nimby – The Phenomenon, Characteristics and Responses" *Annual Israel Planning Association Conference*, Jerusalem, Israel (March) 2018.

Portman, M.E. "MPAs and climate change: policy, planning & management", *Climate Change and Marine Conservation*, MARCONS Cost Action, Shikmona Haifa, (March) 2018

### **Participation in organizing conferences**

Scientific Committee Member. Conference on Wind energy and Wildlife impacts (CWW 2015) Berlin, Germany, March 10-12, 2015.

Organizing Committee Member. Coastal Footprints: Minimizing Human Impacts, Maximizing Stewardship. The 21<sup>th</sup> International Conference of the Coastal Society, Redondo Beach, California, June 29 - July 2, 2008.

## **Israel**

Organizing Committee Member, VizWorld, Spatial Analysis and Cognition in Architecture, Landscape, Urban Planning and Industrial Design, November 3-5, 2013.

Organizing Committee Member, Haifa Port: Clarifying Choices for the Future. Haifa, March 11-12, 2015

Organizing Committee Member. Annual Conference of the Israel Society of Ecology & Environmental Sciences (ISEES), Sept. 16-18, 2014.

Organizing Committee Member, The Mediterranean Sea as a Strategic, Economic and Natural Resource, May 1, 2018.

## **International Service to the Field**

2019- to present

Scientific Advisory Board Member, Centre for Interdisciplinary Marine Research, Christian-Albrechts University, Kiel, Germany

2019 International Scientific Review Panel, Center for Marine and Renewable Energy, Cork University, February 2019.