

Date of birth:

June 9, 1951

Business Address:

National Technical University of Athens, 9 Iroon Polytechniou, Zografou 15773, Greece.  
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Professional Interests:

Economics and Management of Maritime Transport; Intermodal Transport Logistics;  
Maritime Safety and Environmental Protection, Ship Air Emissions, Vehicle Routing and  
Scheduling.

Education:

National Technical University of Athens (NTUA):

Diploma, Naval Architecture & Marine Engineering, July 1974.

Massachusetts Institute of Technology (MIT):

M.Sc., Naval Architecture & Marine Engineering, February 1977.

M.Sc., Shipping & Shipbuilding Management, February 1977.

Ph.D., Ocean Systems Operations Research, June 1979.

Title of Ph.D. Thesis:

“Dynamic Programming Algorithms for Specially Structured Sequencing and Routing  
Problems in Transportation.”

Current Position:

NTUA (School of Naval Architecture and Marine Engineering): Professor (as of 6/89).

Previous Positions:

MIT (Department of Ocean Engineering):

Graduate Research and Teaching Assistant (9/74-9/78).

Research Associate (10/78-6/79).

Assistant Professor of Marine Systems (7/79-6/83).

Associate Professor of Marine Systems-w/o Tenure (7/83-6/85).

Associate Professor of Marine Systems-with Tenure (7/85-6/89).

Piraeus Port Authority (OLP):

Chief Executive Officer (8/96-8/99, 10/99-3/02).

Administrative Experience:

MIT:

Chairman, Ocean Systems Management Program (9/82-5/85).

Member, Center for Transportation Studies (CTS) Executive Committee (9/82-5/83).

Member, CTS Master's Program Standing Faculty Committee (9/78-5/85, 9/86-6/89).

Member, Committee on Operations Research (7/81-6/84).

NTUA:

Chairman, School of Naval Architecture and Marine Engineering (9/93- 8/95).

Member, Senate, NTUA (1990-92, 1993-95).

Member, Committee for Graduate Interdepartmental Program on Marine Technology and Science (2002-)  
Chairman, Committee for NA&ME School's Strategic Plan (2002-2003).  
Director, Division of Ship Design and Maritime Transport (2003-2004, 2007-2008).  
Deputy Director, Division of Ship Design and Maritime Transport (2004-2005).  
Deputy Chairman, School of Naval Architecture and Marine Engineering (11/04-8/05).  
Member, Board of Directors, Company for the Exploitation of Property of NTUA (2004-2006).  
Director, Laboratory for Maritime Transport (2006-).  
Member, NTUA Research Committee (2007-10).

**OLP:**

Chief Executive Officer (8/1996-8/1999, 10/1999-3/2002).  
Member, Board of Directors (10/1999-3/2002).

**Commission of European Communities Committees and Panels:**

1. Management Committee on Freight Transport Logistics (COST 310): Representative of Greece (9/89-6/91).
2. Maritime Transport R&D Expert Group: Representative of Greece (12/89-1/90, and 3/92-5/94),
3. Rapporteur, Working Group on "Ports and the Land/Sea Interface" (10/93-2/94).
4. Maritime Transport Telematics R&D Panel (12/93-4/94).
5. Management Committee on EDI in Ports (COST 330): Representative of Greece (9/94 – 6/98).
6. CREST Ad Hoc working group on Transport: Representative of Greece (9/93-6/94).
7. Transport Research Committee: Representative of Greece (6/94-10/98).
8. ExtraWeb project, Benchmarking Group, Representative of Greece (3/03- 12/06).
9. European Climate Change Programme (ECCP) Working Group 6: Reducing Greenhouse Gas emissions from ships, invited expert (2/2011-).

**International Maritime Organization (IMO) Committees and Groups:**

1. Member of Greek delegation in Maritime Safety Committee (MSC) and Marine Environment Protection Committee (MEPC) meetings (since 2006).
2. Coordinator, MEPC: Correspondence Group on Environmental Risk Evaluation Criteria (2007-2010).
3. Member, MSC Expert Group on Formal Safety Assessment (since 2009).
4. Chairman, IMO MEPC 60, Working Group on Environmental Risk Evaluation Criteria (2010).
5. Member, MEPC Expert Group on Market Based Measures for GHGs (since 2010).
6. Chairman, IMO MEPC 62, Working Group on Environmental Risk Evaluation Criteria (2011).

**Other Service:**

1. Member, National Research Advisory Council, Greece (1994-1996).
2. Member, International Scientific Committee, Policy Research Corporation, Belgium (1994-1996).
3. Member, Greek Committee, Det Norske Veritas, Norway (1995-2002).
4. Member, Ministry of Industry Committee of Experts to Recommend Actions for Perama's Shiprepair Zone (1995).
5. Representative of OLP, European Sea Ports Organisation (ESPO) (1996-2002).

6. Member, Greek-Dutch Maritime Forum (2000-2002).
7. Member, Ministry of Merchant Marine Committee of Experts to Recommend the Basic Principles for Greece's Cabotage New Institutional Regime (2001).
8. Representative of OLP, International Association of Ports and Harbors (IAPH) (2001-2002).
9. Representative of NTUA, International Association of Ports and Harbors (IAPH) (as of 5/02).
10. Member, Combined Transport, Distribution and Logistics Committee (IAPH) (10/02-10/05).
11. Chairman, Lloyds List Greek Shipping Awards Committee (2004, 2007).
12. Consultant, Institute of Shipping Economics and Logistics (ISL, Bremen) on EU Port Financing Study (2005).
13. Member, Port Operations and Logistics Committee (IAPH) (as of 12/05).
14. Member, Port Environment Committee (IAPH) (as of 12/05).
15. Member, Steering Committee, SINTEF Strategic Program on Maritime Transportation and Logistics (Norway) (11/05-11/08).
16. Member, International Spill Control Organization (ISCO) Council (as of 7/06).
17. Advisor, Union of Greek Shipowners (since 2006).
18. Advisor, Hellenic Chamber of Shipping (since 2008).
19. Consultant, Rogan Associates, on master plan for port of Vassiliko (Cyprus) (2009-2010).
20. Member, peer review panel, port of Venice (Italy) (2009-2010).
21. United Nations Economic Commission for Europe (UNECE) Group of Experts on Climate Change and Adaptation for International Transport Networks, invited expert (9/2011 -)

#### Elected Office:

1. Member, Board of Directors, Hellenic Scientists Association of Boston (HSAB) (11/86-8/89).
2. President, HSAB (11/87-3/89).
3. Member, Council of the Transportation Science Section of ORSA (1987-90).
4. Member, Senate, NTUA (1990-92, 1993-95).
5. Vice President, MIT Club of Greece (1991-95).
6. Head, School of Naval Architecture and Marine Engineering, NTUA (9/93- 8/95).
7. Director, Division of Ship Design and Maritime Transport (2003-04, 2007-08).
8. Deputy Director, Division of Ship Design and Maritime Transport (2004-2005).
9. Chairman, Audit Committee, SNAME Greek Section (2004-06)
10. President, MIT Club of Greece (2005-07).
11. Chairman, SNAME Greek Section (2006-08).
12. Member, Board of Directors, Hellenic Association of Maritime Economists (ENOE) (2008-10).

#### Editorial Service:

1. Associate Editor, *Transportation Science* (as of 1/87).
2. Guest Editor, Focused Issue on Maritime Transportation, *Transportation Science* (February 1999).
3. Member of Editorial Board, *WMU Journal of Maritime Affairs* (as of 10/02).
4. Member of Editorial Board, *Journal of Ocean Systems Management* (as of 2007).
5. Editorial Associate, *Naftika Chronika* (as of 2004).

6. Referee for at least the following publications/conferences: *Annals of Operations Research*, *Canadian Journal of Operational Research and Information Processing (INFOR)*, *European Journal of Operational Research*, *European Research Roundtable Conference on Shortsea Shipping*, *Geographical Analysis*, *Handbook in Operations Research and Management Science*, *International Association of Maritime Economists (IAME) conferences*, *International Conference on fast sea transportation (FAST) conferences*, *International Journal of Production Economics*, *IEEE Journal of Oceanic Engineering*, *IEEE Transactions on Intelligent Transportation Systems*, *International Maritime Association of the Mediterranean (IMAM) conferences*, *International Symposium on Maritime Safety, Security and Environmental Protection (SSE07)*, *Journal of Ship Research*, *Journal of the Operational Research Society*, *Management Science*, *Maritime Economics and Logistics*, *Naval Research Logistics Quarterly*, *Networks*, *Networks and Spatial Economics*, *Omega*, *Operations Research*, *Reliability Engineering & System Safety*, *Review of Economics and Statistics*, *SNAME Greek Section's International Symposia on Ship Operations, Management and Economics (SOME)*, *TIMS Studies in the Management Sciences*, *Transactions Journal of Engineering for Industry (ASME)*, *Transportation Research*, *Transportation Research Board (TRB) Conference*, *Transportation Science*, *TRISTAN conferences*, and *World Conference on Transport Research (WCTR)*.

Evaluator for:

1. US Sea Grant College Program (proposals).
2. Natural Sciences and Engineering Research Council of Canada (proposals).
3. Council of Educational Evaluation and Accreditation of Cyprus (educational program).
4. Norwegian University of Science and Technology (faculty).
5. University of Glasgow and Strathclyde (faculty).
6. World Maritime University (faculty).
7. Hong Kong Polytechnic University (proposals).

Honors and Awards:

1. Fellowship, NTUA (1969-74).
2. Honorary Award, Contest of Hellenic Mathematical Society (1969).
3. Bourse d'Etudes Superieures, French Government (1974- declined, to accept offer from MIT).
4. Henry L. Doherty Professorship, MIT (7/79-6/81).
5. First Prize, PhD Dissertation Contest, Transportation Science Section of ORSA (1979).
6. Fellow, Society of Naval Architects and Marine Engineers (2009-)
7. Lloyds List Piraeus International Centre Award (awarded to Laboratory for Maritime Transport, 2008)
8. Lloyds List Award for Achievement in Maritime Safety or Environmental Protection (awarded to Laboratory for Maritime Transport, 2010)

Organization Membership:

1. Institute For Operations Research and Management Science (INFORMS).
2. Society of Naval Architects and Marine Engineers (SNAME).
3. International Association of Maritime Economists (IAME).
4. SNAME Greek Section.

5. Hellenic Technical Chamber (TEE).
6. Hellenic Society of Transportation Engineers (SES).
7. Hellenic Association of Maritime Economists (ENOE).
8. MIT Club of Greece.

Teaching Experience:

Undergraduate Courses:

1. Optimal Design of Engineering Systems (MIT).
2. Negotiation in Engineering Systems (MIT).
3. Economics of Maritime Transport I (NTUA).
4. Economics of Maritime Transport II (NTUA).
5. Economics of Maritime Transport III (NTUA).
6. Ports and Intermodal Transport (NTUA).

Graduate Courses:

1. Mathematical Optimization Techniques (MIT).
2. Logistical and Transportation Planning Methods (MIT).
3. Economics of Ocean Transportation (MIT).
4. Marine Decision Making Under Uncertainty (MIT).
5. Projects in Ocean Systems Management (MIT).
6. Maritime Transport Systems (NTUA).
7. Intermodal Terminal Operations (Athens University of Economics and Business- visiting Prof., 2004-06).

International Conference Organization (list not complete):

1. Organizing Committee Member, Second Research Roundtable Conference on Shortsea Shipping, Athens, Greece (June 1994).
2. Advisory Committee Member, Second Triennial Conference on Transportation Analysis (TRISTAN II), Capri, Italy (June 1994).
3. Organizing Committee Member, International Symposium on Human Factors Onboard Ships (ISHFOB), Bremen, Germany (November 1995).
4. Organizing Committee Member, Third Research Roundtable Conference on Shortsea Shipping, (SHORTSEA- 96), Bergen, Norway (June 1996).
5. Conference Committee Member, International Conference "Shipping Risk Management Forum," Athens, Greece (September 2000).
6. Conference Committee Member, International Conference "Port Risk Management Forum (Mareforum)," The Hague, the Netherlands (September 2001).
7. Scientific Committee Member, International Maritime Association of the Mediterranean Conference, Rethymno, Crete, Greece (May 2002).
8. Conference Committee Member, International Conference "Mare Forum 2003: Ménage a Trois," Amsterdam, the Netherlands (November 2003).
9. Papers Committee Chairman, 1<sup>st</sup> SNAME Greek Section's International Symposium on Ship Operations, Management and Economics, Athens, Greece (May 2005).
10. Scientific Committee Member, International Maritime Association of the Mediterranean (IMAM) Conference, Lisbon, Portugal (September 2005).
11. Symposium Chairman, International Symposium on Maritime Safety, Security and Environmental Protection, Athens, Greece (September 2007).
12. Papers Committee Member, 2<sup>nd</sup> SNAME Greek Section's International Symposium on Ship Operations, Management and Economics, Athens, Greece (September 2008).
13. Scientific Committee Member, 10<sup>th</sup> International Conference on Fast Sea Transportation (FAST), Athens, Greece (October 2009).

14. Scientific Committee Member, TRISTAN VII conference, Tromso, Norway (June 2010).
15. Scientific Committee Member, 2010 Conference of the International Association of Maritime Economists (IAME 2010), Lisbon, Portugal (July 2010).
16. Symposium Chairman, 3<sup>rd</sup> SNAME Greek Section's International Symposium on Ship Operations, Management and Economics, Athens, Greece (October 2010).
17. Scientific Committee Member, IFORS conference, Melbourne, Australia (July 2011).
18. Scientific Committee Member, IMAM conference, Genoa, Italy (September 2011).
19. International Program Committee Member, 1st International Conference on Operations Research and Enterprise Systems (ICORES 2012), Vilamoura, Algarve, Portugal (February 2012).
20. Scientific Committee Member, 2012 Short Sea Shipping Conference, Lisbon, Portugal (April 2012).
21. Scientific Committee Member, 5<sup>th</sup> International Workshop on Freight Transportation and Logistics ("Odysseus"), Mykonos, Greece (May 2012).

Session and Track Chairmanship and Organization (list not complete):

1. Chairman, Session on OR/MS Applications in Ocean Transportation, TIMS/ORSA National Meeting, San Francisco (May 1984).
2. Chairman, Session on Distribution, TIMS XXVI International Meeting, Copenhagen, Denmark (June 1984).
3. Chairman, Session on Transportation, EURO VII Congress, Bologna, Italy, June 1985.
4. Chairman, HSAB Symposium on Higher Education and Research in Greece, Cambridge (October 1987).
5. Chairman, Session on Intermodal Transportation, TIMS/ORSA National Meeting, Washington DC (April 1988).
6. Chairman, 6-session Track in Transportation Science, ORSA/TIMS National Meeting, Denver (October 1988).
7. Chairman, Session on Vehicle Routing and Scheduling, IFORS-90 Conference, Athens, Greece (June 1990).
8. Chairman, Session on Marine Transportation, IFORS-90 Conference, Athens, Greece (June 1990).
9. Chairman, Session on Probabilistic Vehicle Routing, TRISTAN-1 Conference, Montreal-Quebec, Canada (June 1991).
10. Chairman, Session on Dynamic Vehicle Routing, EURO/TIMS Conference, Helsinki, Finland (June 1992).
11. Chairman, Session on Transportation Science in Europe, INFORMS National Meeting, New Orleans (October- November 1995).
12. Chairman, Session on Transport Concepts and Logistics, DGVII Waterborne Transport Conference, Rotterdam, the Netherlands (March 1999).
13. Chairman, 3-session Track on Maritime Transportation, Decision Sciences Institute Conference, Athens, Greece (July 1999).
14. Chairman, Session on Transparency and Regulation, International Mareforum Conference "Shipping Risk Management Forum," Athens, Greece (September 2000).
15. Chairman, Session on Reconciling Economic Growth with Environmental Protection, International Mareforum Conference "Port Risk Management Forum," The Hague, the Netherlands (September 2001).

16. Chairman, Session on Port Cooperation vs. Port Competition, International Mareforum Conference “Med Ports 2002,” Athens, Greece (April 2002).
17. Chairman, Session on Shortsea Shipping, 1<sup>st</sup> International Symposium on Ship Operations, Management and Economics,” SNAME Greek Section, Athens, Greece (May 2005).
18. Chairman, Session on Ports of Refuge and Wreck Oil Removal, International Symposium on Maritime Safety, Security and Environmental Protection, Athens, Greece (September 2007).
19. Chairman, Session on Motorways of the Sea, 2<sup>nd</sup> International Symposium on Ship Operations, Management and Economics,” SNAME Greek Section, Athens, Greece (September 2008).
20. Chairman, Session on Operations, Maintenance, and Repairs, 3<sup>rd</sup> International Symposium on Ship Operations, Management and Economics,” SNAME Greek Section, Athens, Greece (October 2010).
21. Track organizer, Maritime Transportation, IFORS 2011 conference, Melbourne, Australia (July 2011).

Publications

See Appendix A.

Research Grants and Contracts

See Appendix B.

Main Accomplishments as Port of Piraeus CEO

See Appendix C.

Completed Theses Supervised (Theses in progress not listed):

Supervisor of:

- 23 M.Sc. theses (MIT)
- 1 M.Sc. thesis (Erasmus University, Netherlands)
- 1 Engineer's thesis (MIT)
- 5 Doctoral theses (MIT)
- >40 Diploma theses (NTUA)
- 4 Doctoral theses (NTUA)

Reader of:

- 8 Doctoral theses (MIT)
- 7 Doctoral theses (NTUA)
- 2 Doctoral theses (Athens University of Economics and Business)
- 2 Doctoral theses (University of the Aegean)
- 1 Doctoral thesis (NTNU Trondheim)

Miscellaneous:

Born and raised in Athens, Greece. Married to Alexandra Manousaki. Children: Anastasia and Nikos. Fluent in Greek (native language), English, and French.

**APPENDIX A**  
**HARILAOS N. PSARAFTIS**  
**PUBLICATIONS**

**PAPERS IN REFEREED JOURNALS**

1. Psaraftis,H.N., "Some New Aspects of Slamming Probability Theory," Journal of Ship Research 22, No.3, 186-192, 1978.
2. Psaraftis,H.N., "A Dynamic Programming Solution to the Single-Vehicle Many-to-Many Immediate-Request Dial-A-Ride Problem," Transportation Science 14, No.2, 130-154, 1980.
3. Psaraftis,H.N., "A Dynamic Programming Approach for Sequencing Groups of Identical Jobs," Operations Research 23, No.6,1347-1359,1980.
4. Psaraftis,H.N., A.N.Perakis, P.N. Mikhalevsky, "On a New Model for the Ocean Acoustic Detection Process," Journal of the Acoustical Association of America 69, No.6, 1724-1734, 1981.
5. Psaraftis,H.N., A.N. Perakis, "A Basic Problem of Resource Allocation in Target Tracking," Journal of the Acoustical Society of America 72, No.3, 824-833, 1982.
6. Psaraftis,H.N., "Analysis of an  $O(N^2)$  Heuristic for the Single-Vehicle Many-to-Many Euclidean Dial-A-Ride Problem," Transportation Research 17B, No.2, 133-145, 1983.
7. Psaraftis,H.N., "k-Interchange Procedures for Local Search in a Precedence-Constrained Routing Problem," European Journal of Operational Research 13, No.4, 391-402, 1983.
8. Psaraftis,H.N., "An Exact Algorithm for the Single-Vehicle Many-to-Many Dial-A-Ride Problem with Time Windows," technical note, Transportation Science 17, No.3, 351-357, 1983.
9. Perakis,A.N., Psaraftis,H.N., "Discrete-Time Detection Modelling for Unsaturated Ocean Acoustic Propagation," Journal of the Acoustical Society of America 74, No.5, 1630-1633, 1983.
10. Psaraftis,H.N., A.N.,Perakis, "A Sequential Hypothesis Testing, Optimal Stopping Problem in Underwater Acoustic Detection," Journal if the Acoustical Society of America 75, No.3, 859-865, 1984.
11. Psaraftis,H.N., "On the Practical Importance of Asymptotic Optimality in Certain Heuristic Algorithms," Networks 14, No.4 587-596, 1984.
12. Psaraftis,H.N., B.O.Ziogas, "A Tactical Decision Algorithm for the Optimal Dispatching of Oil Spill Cleanup Equipment," Management Science 31, No.12, 1475-1491, 1985.
13. Jaw, J-J,A.R.Odoni, H.N.Psaraftis, N.H.M.Wilson, "A Heuristic Algorithm for the Multi-Vehicle Advance-Request Dial-A-Ride Problem with Time Windows," Transportation Research 20B, No.3, 243-257, 1986.
14. Psaraftis,H.N., G.G.Tharakan,A.Ceder, "Optimal Response to Oil Spills: The Strategic Decision Case," Operations Research 34, No.2, 203-217, 1986.
15. Psaraftis,H.N., "Scheduling Large-Scale Advance-Request Dial-A-Ride Systems," American Journal of Mathematical and Management Sciences 6, Nos.3-4, (special issue on vehicle routing with time windows) 327-367,1986.
16. Psaraftis,H.N., M.M Solomon, T.L.Magnanti, T.U. Kim, "Routing and Scheduling on a Shoreline with Release Times," Management Science 36, No.2 212-223, 1990.

17. Psaraftis, H.N., J.N. Tsitsiklis, "Dynamic Shortest Paths in Acyclic Networks with Markovian Arc Costs," Operations Research 41, No. 1 (special issue on Dynamic and Stochastic Transportation Models), 1993.
18. Psaraftis, H.N., "Probabilistic Ship Structural Analysis: An Incorrect Way to Compute the Probability of Failure," technical note, Marine Technology 30, No. 1, 28-29, 1993.
19. Thompson, P.M., H.N. Psaraftis, "Cyclic Transfer Algorithms for Multi-Vehicle Routing and Scheduling Problems," Operations Research 41, No. 5, 935-946, 1993.
20. Psaraftis, H.N., "Dynamic Vehicle Routing: Status and Prospects," Annals of Operations Research 61, 143-164, 1995.
21. Ceder, A., G. G. Tharakan, H. N. Psaraftis, "A Synthesis Algorithm for Responding to Oil Spills Using complementary Locations on Networks," Applied Mathematical Modelling Journal 25, No.4, 269-285, 2001.
22. Psaraftis, H.N., "Maritime Safety: To Be or Not to Be Proactive," WMU Journal of Maritime Affairs 1, 3-16, 2002.
23. Ventikos N.P., Vergetis E., Psaraftis H.N., Triantafyllou G., "A High-Level Synthesis of Response Equipment for Multi-Type Confronting of Oil Spill Incidents/Accidents", Journal of Hazardous Materials, Elsevier Science, Issues 1-2, vol. 107, New York, New York, pp. 51-58, 2004.
24. Ventikos N.P., Psaraftis H.N., "Spill Incident Modeling: A Critical Survey of the Event-Decision Network in the Context of IMO's Formal Safety Assessment", Journal of Hazardous Materials, Elsevier Science, Issues 1-2, vol. 107, New York, New York, pp. 59-66, 2004.
25. Lyridis D.V., Psaraftis H.N., Ventikos N.P., Zacharioudakis P., Dilzas K., "Cost-Benefit Analysis for Ship Automation Retrofit: the Case of Icebreaker FREJ", Marine Technology, Vol.42, No 2, April 2005.
26. Lyridis, D.V., Zacharioudakis, P., Ventikos, N.P., Dilzas, K., and Psaraftis, H.N., "An Innovative Crew Composition Approach Based on Safety, Financial, and Operational Requirements," WMU Journal of Maritime Affairs, Vol. 4, No. 1, pp.35-37, 2005.
27. Psaraftis, H.N., "EU Ports Policy: Where do we Go from Here?" Maritime Economics and Logistics, Palgrave-McMillan, No. 7, pp. 73-82, 2005.
28. Psaraftis, H.N., "Tariff Reform in the Port of Piraeus: A Practical Approach," Maritime Economics and Logistics, Palgrave-McMillan, No. 7, pp. 356-381, 2005.
29. Psaraftis, H.N., "Maritime Safety in the Post-Prestige Era," Marine Technology, Vol. 43, No. 2, pp. 85-90, 2006.
30. Nitsopoulos, S., H.N. Psaraftis, "The Role of Mediterranean Short Sea Shipping in the EU Transport Chain: the case of Greece," WMU Journal of Maritime Affairs, Vol. 7, No. 1, 17-30, 2008.
31. Psaraftis, H. N., "Environmental Risk Evaluation Criteria," WMU Journal of Maritime Affairs, Vol. 7, No. 2, 411-430, 2008.
32. Kontovas, C.A., H.N. Psaraftis, "Formal Safety Assessment: A Critical Review," Marine Technology, Vol. 46, No. 1, pp. 45-59, 2009.
33. Gkonis, K. G and H.N. Psaraftis, "The LNG Market and a Game Theory Approach to Competition in LNG Shipping", Maritime Economics and Logistics Journal, 11:2, pp. 227-246, 2009.
34. Psaraftis, H.N. and C.A. Kontovas (2009), "CO2 Emissions Statistics for the World Commercial Fleet", WMU Journal of Maritime Affairs, 8:1, pp. 1-25.
35. Psaraftis, H.N., Kontovas, C.A., "A web-based open emissions calculator", Int. J. Ocean Systems Management, Vol. 1, No. 2, 2009.
36. Psaraftis, H.N., Kontovas, C.A. (2010) "Balancing the Economic and Environmental Performance of Maritime Transportation", Transportation Research D 15, 458-462.
37. Gkonis, K.G. and H.N. Psaraftis (2010), "Container transportation as an

- Interdependent Security problem”, *Journal of Transportation Security*, 3:197-211.
38. Gratsos, G.A., H.N. Psaraftis, P. Zachariadis, “Life-cycle CO2 emissions of bulk carriers: A Comparative Study”, *Trans RINA*, Vol 152, Part A3, *International Journal of Maritime Engineering*, Jul-Sep 2010, pp. A 119-A 134.
  39. Kontovas, C.A., Psaraftis, H.N., Ventikos N. (2010), “An Empirical Analysis of IOPCF Oil Spill Cost Data”, *Marine Pollution Bulletin*, 60:9, pp.1455-1466.
  40. Psaraftis, H.N. (2011), “A multi-commodity, capacitated pickup and delivery problem: The single and two-vehicle cases,” *European Journal of Operational Research* 215, pp. 572–580.
  41. Kontovas, C.A., H. N. Psaraftis (2011), “Reduction of emissions along the maritime intermodal container chain: operational models and policies,” *Maritime Policy and Management* Vol. 38, No. 4, pp 451-469.
  42. Zacharioudakis, P. G., S. Iordanis, D. V. Lyridis, H. N. Psaraftis (2011), “Liner shipping cycle cost modelling, fleet deployment optimization and what-if analysis,” *Maritime Economics and Logistics* 13, pp. 278-297.

### **PROCEEDINGS OF REFEREED CONFERENCES**

1. Psaraftis, H.N., A.V. Baird, J.D. Nyhart, “National Response Capability to Oil Spills: A Systems Approach,” *OCEANS'80 Conference (IEEE)*, Seattle, September 1980.
2. Nyhart, J.D., H.N. Psaraftis, W.S. Laird, “The Legal Environment Component of an Oil Spill Cleanup Model,” *1981 Oil Spill Conference (EPA/API/USCG)*, Atlanta, March 1981.
3. Psaraftis, H.N., A.N. Perakis, P.N. Mikhalevsky, “Memory Detection Models for Phase-Random Ocean Acoustic Fluctuations,” *International Conference on Communications (IEEE)*, Denver, June 1981 (also presented at the 4th MIT/ONR Symposium on Command, Control, Monterey, August 1982).
4. Tharakan, G.G., H.N. Psaraftis, “A Critical Review of Oil Spill Risk Analysis,” *OCEANS'81 Conference (IEEE)*, Boston, September 1981.
5. Psaraftis, H.N., A.N. Perakis, “Myopic and Presbyopic Approaches to a Multi-Sensor, Multi-Target Resource Allocation Problem,” *5th MIT/ONR Symposium on Command and Control*, Monterey, August 1982.
6. Psaraftis, H.N., J.D. Nyhart, D.A. Betts, “First Experiences with the Massachusetts Institute of Technology Oil Spill Model,” *1983 Oil Spill Conference (EPA/API/USCG)*, San Antonio, March 1983.
7. Nyhart, J.D., H.N. Psaraftis, P.J. Yaroschak, “Putting an Oil Spill Cleanup Computer Model to Work for the Navy,” *1983 ASNE Conference*, Washington DC, May 1983.
8. Perakis, A.N., H.N. Psaraftis, H. Gonzalez, “Detection Modelling of Unsaturated and Partially Saturated Ocean Acoustic Signals,” *6th MIT/ONR Symposium on Command and Control*, Cambridge, July 1983.
9. Psaraftis, H.N., “Oil Spill Risk Management: The Strategic Response Case,” *TNO Conference on Oil Pollution*, Amsterdam, The Netherlands, February 1987.
10. Psaraftis, H.N., J.N. Tsitsiklis, “Dynamic Shortest Paths with Markovian Arc Costs,” *TRISTAN-1 Conference*, Montreal-Quebec, Canada, June 1991 (this paper is virtually identical to paper 17 of previous section).
11. Psaraftis, H.N., A.D. Papanikolaou, “Impact of New Technologies on Shortsea Shipping in Greece,” *First European Research Roundtable Conference on Shortsea Shipping*, Delft, the Netherlands, November 1992.

12. Psaraftis, H.N., V. F. Magirou, G. C. Nassos, G. J. Nellas, G. Panagakos, A. D. Papanikolaou. "Modal Split in Greek Shortsea Passenger/Car Transport". Second European Research Roundtable Conference on Shortsea Shipping, Athens, June 1994.
13. Sturmey, S.G., G. Panagakos, H.N. Psaraftis. "Institutional and Socioeconomic Issues in Greek Ferry Services". Second European Research Roundtable Conference on Shortsea Shipping, Athens, June 1994.
14. Psaraftis, H.N., G.J. Nellas, V.F. Magirou, G.C. Nassos. "Greek Coastal Shipping System: Impact of New Technologies and Market Deregulation on Modal Split". TRISTAN-2 Conference, Capri, Italy, June 1994.
15. Psaraftis, H.N., O. D. Schinas, "Research in European Shortsea Shipping: the State of the Art," Third European Research Roundtable Conference on Shortsea Shipping, Bergen, Norway, June 1996.
16. Schinas, O.D., H.N. Psaraftis, "The link between Greece and the rest of EU countries: Status and prospects," Third European Research Roundtable Conference on Shortsea Shipping, Bergen, Norway, June 1996.
17. Psaraftis, H.N., "Reduced Manning to Increase Fleet Competitiveness," IMLA-9 Conference, Kobe, Japan, October 1996.
18. Schinas, O.D., H.N. Psaraftis, "New Frontiers Through Shortsea Shipping," Transactions of SNAME Conference, Ottawa, Canada, 1997.
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#### FSA Environmental Risk Evaluation Criteria (Correspondence group co-ordinated by by Prof. Psaraftis)

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7. MEPC 56/18/1 Environmental Risk Evaluation Criteria

### **NON-REFEREED CONFERENCES AND INVITED PRESENTATIONS (list is not exhaustive)**

1. Psaraftis, H.N., "On a Flexible-Route Bus Distribution Problem," TIMS/ORSA National Meeting, New York, May 1978.
2. Odoni, A.R., H.N.Psaraftis, "The Optimal Sequencing of Aircraft Landings Subject to Priority Constraints," Optimization Days 1978 Meeting, Montreal, May 1978.
3. Psaraftis, H.N., "A Real-Time Flexible-Route Scheduling Algorithm," ORSA/TIMS National Meeting, Los Angeles, November 1978.
4. Psaraftis, H.N., "Theoretical and Implementation Issues in a Dial-A-Ride Routing Algorithm," invited paper, TIMS XXIV International Meeting, Hawaii, June 1979.
5. Psaraftis, H.N., "The Optimal Sequencing of Aircraft Landings in a Two-Runway Airport," 10th International Symposium on Mathematical Programming, Montreal, August 1979.

6. Psaraftis, H.N., "On the Multi-Vehicle Dial-A-Ride Problem," ORSA/TIMS National Meeting, Milwaukee, October 1979.
7. Psaraftis, H.N., "An Exact (Exponential) Dial-A-Ride Algorithm: Where do we Go from There?," TIMS/ORSA National Meeting, Washington DC, May 1980.
8. Psaraftis, H.N., C.O.Ziogas, "A Sequential Decision Model for the Optimal Dispatching of Oil Spill Cleanup Equipment," EURO IV Congress, Cambridge, England, July 1980.
9. Psaraftis, H.N., "Performance Guarantees for the Single Vehicle Many-to-Many Euclidean Dial-A-Ride Problem," EURO IV Congress, Cambridge, England, July 1980.
10. Psaraftis, H.N., "A Simple Heuristic for the Many-to-Many Dial-A-Ride Problem," ORSA/TIMS National Meeting, Colorado Springs, November 1980.
11. Psaraftis, H.N., B.O.Ziogas, "The MIT Oil Spill Tactical Model," 2nd Oil and Hazardous Materials Spills Conference (SCAA), Philadelphia, December 1980.
12. Ziogas, C.O., H.N.Psaraftis, "A Decision Support System for Oil Spill Cleanup," CORS/TIMS/ORSA Meeting, Toronto, May 1981.
13. Tharakan, G.G., H.N.Psaraftis, "An Exact Algorithm for the Exponential Disutility Dial-A-Ride Problem," CORS/TIMS/ORSA Meeting, Toronto, May 1981.
14. Psaraftis, H.N., "The MIT Oil Spill Model," IFORS'81 International Conference, Hamburg, Germany, July 1981.
15. Jaw, J\_J, A.R.Odoni, H.N.Psaraftis, N.H.M.Wilson, "A Heuristic Algorithm for Advance Request Dial-A-Ride," ORSA/TIMS Meeting, Houston, October 1981.
16. Psaraftis, H.N., invited panel discussion in "Experiences from the Interaction Between Education and Practice of Management," (in Greek). 6th Hellenic Management Association Conference, Athens, Greece, December 1981.
17. Psaraftis, H.N., "A Computer-Assisted Decision-Making Model for Oil Spill Cleanup," invited paper, International Symposium IXTOC-1, Mexico City, June 1982.
18. Psaraftis, H.N., "Recent Developments in Dial-A-Ride Routing Algorithms," EURO V/TIMS XXV International Meeting, Lausanne, Switzerland, July 1982.
19. Jaw, J-J, A.R.Odoni, H.N.Psaraftis, N.H.M.Wilson, "A Subscriber Dial-A-Ride Algorithm for Large-Scale Problems," invited paper, ORSA/TIMS National Meeting, San Diego, October 1982.
20. Jaw, J-J, A.R.Odoni, H.N.Psaraftis, N.H.M.Wilson, "Recent Experiences with a Multi-Vehicle Many-to-Many Dial-A-Ride Routing and Scheduling Algorithm," invited paper, TIMS/ORSA National Meeting, Chicago, April 1983.
21. Psaraftis, H.N., G.G.Tharakan, B.O.Ziogas, "Strategic, Tactical, and Operational Decision Making in Oil Spill Cleanup," TIMS/ORSA National Meeting, Chicago, April 1983.
22. Psaraftis, H.N., "Local Search for Routing and Scheduling Problems with Side Constraints," EURO-VI Congress, Vienna, Austria, July 1983.
23. Orlin, J.B., H.N.Psaraftis, "Solution Methods for Large-Scale Sealift Routing and Scheduling Problems," invited paper, ORSA/TIMS National Meeting, Orlando, November 1983.
24. Orlin, J.B., H.N.Psaraftis, "An Algorithm for Emergency Sealift Routing and Scheduling Problems," TIMS/ORSA National Meeting, San Francisco, May 1984.
25. Psaraftis, H.N., "A Computer-Assisted Model for the Evaluation of Oil Spill Combat Alternatives," 3rd International Congress on Marine Technology, International Maritime Association of East Mediterranean, Athens, Greece, May 1984.

26. Psaraftis, H.N., J.-J. Jaw, A.R. Odoni, N.H.M. Wilson, "A Review of MIT Research on Scheduling of Flexible-Route Transportation Systems," TIMS XXVI International Meeting, Copenhagen, Denmark, June 1984.
27. Psaraftis, H.N., "Assessing Damage and Liability from Oil Spills," Conference on Coastal Zone and Continental Shelf Conflict Resolution, MIT, Cambridge, November 1984.
28. Psaraftis, H.N., "Strategic Planning for Large and Small Oil Spills in New England," ORSA/TIMS National Meeting, Dallas, November 1984.
29. Psaraftis, H.N., J.B. Orlin, D. Bienstock, P.M. Thompson, "The Operational Routing and Scheduling Problem of the Military Sealift Command," invited paper, TIMS/ORSA National Meeting, Boston, May 1985.
30. Kim, T.-U., H.N. Psaraftis, M.M. Solomon, "Time-Constrained Ship Routing and Scheduling Problems with an "Easy" Routing Structure," EURO-VII Congress, Bologna, Italy, June 1985.
31. Psaraftis, H.N., "Computer Models for the Protection of the Ocean Environment from Oil Spills," (in Greek) invited paper, 7th National Meeting of the Hellenic Operational Research Society, Athens, Greece, November 1985.
32. Psaraftis, H.N., M.M. Solomon, T.-U. Kim, A.R. Odoni, "Routing and Scheduling on the Shoreline with Release Times," ORSA/TIMS National Meeting, Los Angeles, April 1986.
33. Psaraftis, H.N., M.M. Solomon, T.-U. Kim, "Time Window Constrained Routing and Scheduling on a Shoreline," invited paper, ORSA/TIMS National Meeting, Miami, October 1986.
34. Psaraftis, H.N., "Oil Spill Risk Analysis and Risk Management," invited panel discussion, TNO Conference on Oil Pollution, Amsterdam, The Netherlands, February 1987.
35. Psaraftis, H.N., "Time Constrained Routing and Scheduling on Special Network Topologies," invited lecture, Centre for Mathematics and Computer Science, Amsterdam, The Netherlands, February 1987.
36. Orlin, J.B., H.N. Psaraftis, P.M. Thompson, "A Computer Model for Emergency Sealift Scheduling," invited paper, TIMS/ORSA National Meeting, New Orleans, May 1987.
37. Psaraftis, H.N., P.M. Thompson, J.B. Orlin, "A Computer Model for Dynamic Cargo Ship Scheduling," invited paper, ORSA/TIMS National Meeting, St. Louis, October 1987.
38. Thompson, P.H., Psaraftis, H.N., J.B. Orlin, "Cyclic Transfers: Local Improvement Algorithms for Multi-Vehicle Routing Problems," EURO IX/TIMS XXVII International Meeting, Paris, France, July 1988.
39. Psaraftis, H.N., "Mathematical Programming on Project Athena at MIT," EURO IX/TIMS XXVII International Meeting, Paris, France, July 1988.
40. Psaraftis, H.N., "Dynamic Vehicle Routing: Is it a Simple Extension of Static Routing?," invited paper, CORS/TIMS/ORSA Meeting, Vancouver, May 1989.
41. Psaraftis, H.N., "Profitable Use of Analytical Models in Marine Transportation," invited lecture, MARSOFT Seminar, Athens, Greece, June 1989.
42. Koumbis, A., H.N. Psaraftis, "On the Analysis and Modelling of the Hellenic Coastal Shipping System," IFORS-90 International Meeting, Athens, Greece, June 1990.
43. Thompson, P., H.N. Psaraftis, "Between Route Local Optimization for Multi-Vehicle Routing and Scheduling Problems," IFORS-90 International Meeting, Athens, Greece, June 1990.

44. Psaraftis, H.N., "Dynamic Vehicle Routing Problems: A Taxonomy and Survey," EURO/TIMS Conference, Helsinki, Finland, June 1992.
45. Psaraftis, H.N., "Dynamic Path and Routing Problems," invited lecture, Technical University of Berlin, November 1992.
46. Psaraftis, H.N., "Prospects for Conventional Passenger-Car Ferries in the Aegean," invited paper, International Conference on Overcoming Isolation, Plomari, Lesvos, March 1993.
47. Psaraftis, H.N., "Prospects for Conventional Passenger-Car Ferries," invited paper, THALASSA-1 Conference, Piraeus- Iraklio, April 1993.
48. Psaraftis, H.N., "Dynamic Path and Routing Problems," invited lecture, Technical University of Eindhoven, March 1994.
49. Psaraftis, H.N., "Lifting of Cabotage by 2004," invited paper, THALASSA-2 Conference, Piraeus, April 1994.
50. Psaraftis, H.N., "Dynamic Vehicle Routing: Status and Prospects," invited paper, TIMS/ORSA Meeting, Boston, April 1994.
51. Psaraftis, H.N., Keynote Address, Second Research Roundtable Conference on Shortsea Shipping, Athens, June 1994.
52. Psaraftis, H.N., "Dynamic Vehicle Routing: Status and Prospects," invited paper, EURO XIII Conference, Glasgow, UK, July 1994.
53. Psaraftis, H.N., "Dynamic Vehicle Routing: Status and Prospects," invited lecture, Universite Libre de Bruxelles, October 1994.
54. Psaraftis, H.N., "Maritime Efficiency and Safety: Impact of Crew Assignments and Workloads," invited paper, THALASSA-3 Conference, Piraeus, April 1995.
55. Psaraftis, H.N., "Impact of Ship Automation Technologies on Merchant Fleet Competitiveness," invited paper, XIV Pan-American Congress of Naval Engineering, Maritime Transportation and Port Engineering (XIV COPINAVAL), Lima, Peru, June 1995.
56. Psaraftis, H.N., "Impact of Automation Technologies on European Shipping Competitiveness," invited paper, INFORMS National Meeting, New Orleans, November 1995.
57. Psaraftis, H.N., "Matching Demand for R&D with Supply of R&D in Maritime Transport," Concerted Action on Shortsea Shipping, workshop with the Greek Shipping Industry, Piraeus, June 1997.
58. Psaraftis, H.N., "Challenges for the Port of Piraeus," invited lecture, National Conference of Port Works, Athens, November 1997.
59. Psaraftis H.N., P. Caridis, G. Panagakos, N. Desypris, N.P. Ventikos, "Human Factor as a Parameter of Marine Accidents," (in Greek) 1<sup>st</sup> Conference of Safety of Maritime Transport, Piraeus, Greece, June 1998.
60. Ventikos N.P., Psaraftis H.N., "The Greek Legal and Operational Approach of Oil Pollution in Sea Farms," Workshop on Offshore Technologies for Aquaculture, Haifa, Israel, 1998.
61. Psaraftis, H.N., "Greek Coastal Shipping: 2004 is coming," invited lecture, seminar of the Hellenic Institute of Marine Technology, Syros, October 1998.
62. Psaraftis, H.N., "Quality in European Shortsea Shipping," invited lecture, Erasmus University workshop, Athens, April 1999.
63. Psaraftis, H.N., "Mediterranean Ports and Information Society before the New Millennium," invited keynote address, Euro-Med Information Society Workshop, Istituto Luigi Sturzo, Rome, Italy, May 1999.
64. Psaraftis, H.N., "Dutch-Greek Cooperation: the Greek Perspective," invited lecture, Thema Forum on Dutch-Greek Maritime Cooperation, Athens, May 1999.

65. Psaraftis, H.N., "Overview of European R&D in Shortsea Shipping," invited lecture, international seminar on European Transport, Genova, September 1999.
66. Psaraftis, H.N., "Piraeus and Real Estate Development," (in Greek) invited lecture, seminar organized by the Athens Organization, Piraeus, February 2000.
67. Psaraftis, H.N., "New Technologies and Port Development," (in Greek) invited lecture, workshop organized by the Panhellenic Union of Shipping Agents, Piraeus, February 2000.
68. Psaraftis, H.N., "Port of Piraeus: Status and Prospects," (in Greek) invited lecture, seminar organized by International Maritime Union and Panhellenic Union of Shipping Agents, Athens, February 2000.
69. Psaraftis, H.N., "Greek Coastal Shipping: 2004 is coming," (in Greek) invited lecture, seminar organized by ship and tourism agents, Athens, June 2000.
70. Psaraftis, H.N., "OLP: Status and Prospects," (in Greek) Oikonomikos Tachydromos, June 2000.
71. Psaraftis, H.N., "Port of Piraeus: Status and Prospects," invited lecture, TRANSPORT 2000 conference, Piraeus, November 2000.
72. Psaraftis, H.N., "Port Developments in the Mediterranean," invited lecture, International Association of Ports and Harbors Europe-Africa Regional Meeting, Cork, Ireland, March 2001.
73. Ventikos N.P., K.P. Dilzas, H.N. Psaraftis, "An Approach On Marine Pollution Issues by the Usage of Data Bases and their Correlation to Applications of E-Business," 2<sup>nd</sup> Conference of Safety of Maritime Transport, Chios, Greece, June 2001.
74. Psaraftis, H.N., "Safety of Shipping in Coastal Waters," invited lecture, Norwegian-Greek Shipping Forum, Athens, June 2001.
75. Psaraftis, H.N., "Greek Ports: New Challenges and Institutional Changes," invited lecture, seminar at Piraeus Port Authority, June 2001.
76. Psaraftis, H.N., "The Container Market: The View from the Port of Piraeus," invited lecture, MIT/MARSOFT course on Investment and Risk Management in Shipping, Athens, August 2001.
77. Ventikos N.P., H.N. Psaraftis, D.V. Lyridis, "A Statistical Approach on Oil Pollution in Greek Seas," International Conference WATER POLLUTION 2001, Rhodes, Greece, August 2001.
78. Ventikos N.P., K.P. Dilzas, D.V. Lyridis, H.N. Psaraftis, "Contribution of Telematics in the Management of Oil Spill Issues," International Conference on Shipping Technology & Environment, Piraeus, Greece, September 2001.
79. Psaraftis, H.N., "Challenges for the Port of Piraeus," invited lecture, seminar organized by Women's International Shipping and Trading Association (WISTA), Piraeus, November 2001.
80. Psaraftis, H.N., "Trade Developments: Mediterranean," invited lecture, International Association of Ports and Harbors Europe-Africa Regional Meeting, Piraeus, January-February 2002.
81. Ventikos N.P., K.P. Dilzas, D.V. Lyridis, H.N. Psaraftis, "The Use of Telematics and E-Business in the Prevention of Oil Marine Pollution," 6<sup>th</sup> Balkan Conference on Operational Research, Thessaloniki, Greece, May 2002.
82. Ventikos N.P., K.P. Dilzas, D.V. Lyridis, H.N. Psaraftis, "A Critical Analysis of Oil Marine Pollution: The Incorporation of Spill Causes into the event-Decision Network," 3<sup>rd</sup> International Conference on Oil Spills, Oil Pollution and Remediation, Istanbul, Turkey, September 2002.
83. Ventikos N.P., A. Alexopoulos A., Psaraftis, "Design of a Database Application for Oil Spill Incidents in the South East Mediterranean with Particular Reference

- to the Greek Seas,” 3<sup>rd</sup> International Conference on Oil Spills, Oil Pollution and Remediation, Istanbul, Turkey, September 2002.
84. Psaraftis, H.N., “Utopia or Reality? What’s wrong with European Shortsea Shipping and How to Fix it,” invited lecture, European Shipper’s Council Conference, Athens, October 2002.
  85. Psaraftis, H.N., “Maritime Safety: To Be or Not to Be Proactive,” Ports and Harbors (IAPH), March 2003 (also presented at IAPH’s Europe- Africa Regional Meeting, Amsterdam, the Netherlands, February 2003).
  86. Psaraftis, H.N., “Cost-Benefit Analysis for the Intelligent Vessel: The Case of the ATOMOS IV Project,” invited presentation at the SWAN project workshop, Piraeus, Greece, March 2003.
  87. Psaraftis, H.N., “Maritime Intermodal Transportation: The Interface between the Academic World and the Real World,” invited paper, ROUTE 2003 workshop, organized by Technical University of Denmark, Rolighed, Denmark, June 2003.
  88. Psaraftis, H.N., “Maritime Safety in the Post-Prestige Era,” invited lecture, SNAME Greek Section, Athens, May 2004.
  89. Psaraftis, H.N., “EU Port Safety and Security versus EU Transport Policy: Challenges and Opportunities,” keynote address, , 1st International Conference on Current Maritime Issues, Frederick Institute of Technology, Limassol, Cyprus, October 2004.
  90. Psaraftis, H.N., “Shortsea Shipping and Inland Waterway Transport: Status and Prospects,” invited lecture, Luso-American Foundation Conference, Lisbon, Portugal, May 2005.
  91. Psaraftis, H.N., “EU Ports: Quo Vadis ? ” invited lecture, ECONOMIST Shipping and Ports Conference, Athens, May 2005.
  92. Psaraftis, H.N., “Technological Infrastructure for the Motorways of the Sea,” invited lecture, PORTMOS workshop, Lisbon, Portugal, May 2005.
  93. Psaraftis, H.N., “Shortsea Shipping: Towards a Great Fiasco?,” invited lecture, Mare Forum Conference, Rome, Italy, September 2005.
  94. Psaraftis, H.N., “An Analysis of EU Ports Policy,” TAIEX workshop, Limassol, Cyprus, December 2005.
  95. Psaraftis, H.N., Talk at Eugenides Foundation on the occasion of his book presentation, March 2006.
  96. Psaraftis, H.N., “GBS vs Safety Level Approach: Contributing to the Debate,” presentation at MSC 81 (IMO), London, May 2006.
  97. Psaraftis, H.N., “Institutional and Other Distortions in Greek Coastal Shipping,” (in Greek) presentation at the Sifnian Cultural Symposium, Sifnos, Greece, June 2006.
  98. Tsilingiris, P. and H.N. Psaraftis, “An Optimization-Based Decision-Support Methodology for the Liner Shipping Problem,” 21<sup>st</sup> European Conference on Operational Research (EURO2006), Reykjavik, Iceland, July 2006.
  99. Psaraftis, H.N., “Goal Based Standards and the “Safety-Level Approach Debate,” Presentation at Mare Forum 2006, Athens, Greece, September 2006.
  100. Tsilingiris, P. and H.N. Psaraftis, H., “An Optimization-Based Approach for the Liner Shipping problem,” invited lecture, International Workshop on Distribution Logistics (IWDL2006), Brescia, Italy, October 2006.
  101. Psaraftis, H.N., “Challenges in Port Security,” talk at Maritime Security Forum, Athens, November 2006.
  102. Psaraftis, H.N., “Perama Shiprepair Zone: Some Random Thoughts,” (in Greek) Invited talk, workshop on the Perama Shiprepair Zone, organized by the Piraeus Labor Center, Piraeus, Deceomber 2006.

103. Zachariadis P., H.N. Psaraftis, and C.A. Kontovas "Risk Based Rulemarking & Design - Proceed with Caution," RINA conference on Developments in Classification and International Regulations, London, UK, January 2007.
104. Psaraftis, H.N. (2007), "The Job of the Naval Architect and Marine Engineer," Talk to Arsakeio's high school students, April 2007.
105. Psaraftis, H.N., "What has been the effect of the Community's initiative on Short Sea Shipping to date and what are the prospects for the future," (in Greek), Talk at Eugenides Foundation, workshop organized by the Hellenic Short Sea Association, May 2007.
106. Psaraftis, H.N., "Challenges in International Seaborne Transport," invited keynote speech, conference of the International Association of Maritime Economists, Athens, Greece, July 2007.
107. Tsilingiris, P.S., N.P. Ventikos, , and H.N. Psaraftis, "Dynamic Systems in the Ocean Container Industry: Status and Perspectives". 22<sup>nd</sup> European Conference on Operational Research (EURO2007), Prague, Czech Republic, July 2007.
108. Tsilingiris, P., H.N. Psaraftis and D. Lyridis, "RFID in Containerization," 2007 INFORMS Annual Meeting, Seattle, USA, November 2007.
109. Psaraftis, H.N., D. Lyridis, N. Ventikos, "Maritime Safety," presentation at NTUA on the occasion of NTUA's 170th anniversary, December 2007.
110. Psaraftis, H.N., "Marine Pollution: Prevention and Response," presentation at Eugenides Foundation on the occasion of NTUA's 170<sup>th</sup> anniversary, December 2007.
111. Psaraftis, H.N., Talk at workshop on "Greek Ports: Scientific Concerns in View of Important Changes," (in Greek) -organized by the Hellenic Association of Maritime Economists (ENOE), Piraeus, March 2008.
112. Psaraftis, H.N., "Legal Challenges in OLP's Privatization," (in Greek) Talk at the Piraeus Bar Association, April 2008.
113. Psaraftis, H.N., "Environmental Risk Evaluation Criteria," SAFEDOR workshop, Glasgow, UK, May 2008.
114. Psaraftis, H.N., "Alternative Approaches to the Coastal Transportation Problem," (in Greek) invited talk, workshop organized by the Research Center for Progressive Policy (KEPP), Eugenides Foundation, Athens, June 2008.
115. Psaraftis, H.N., "Logistics-Emissions Tradeoffs in Maritime Transport," OR 2008 conference, Augsburg, Germany, September 2008.
116. Psaraftis, H.N., "Mediterranean Container Hubs of the Future," Mare Forum Conference "The Mediterranean Basin Future," Marseille, France, September 2008.
117. Psaraftis, H.N., "Educational Curricula in Naval Architecture and Marine Engineering: The Case of Greece," 2<sup>nd</sup> International Maritime Conference, "Human Resources in the Shipping Industry: New Trends and Challenges in the 21<sup>st</sup> Century," Frederick University, Limassol, Cyprus, November 2008.
118. Psaraftis, H.N., "Fast Waterborne Transport in the Emissions Reduction Era: in Search of Win-Win Policies," invited keynote address, Proceedings of the 10th International Conference on Fast Sea Transportation (FAST 2009), October 5-8, 2009, Athens, Greece.
119. Psaraftis, H.N., "Challenges in European Short Sea Shipping," invited plenary address, Proceedings of the 13th Congress of the International Maritime Association of the Mediterranean (IMAM 2009), October 12-15, 2009, Istanbul, Turkey.
120. Gratsos, G.A., H.N. Psaraftis, P. Zachariadis, "Life Cycle Cost of Maintaining the Effectiveness of a Ship's Structure and Environmental Impact of Ship Design

- Parameters: an Update,” RINA Conference on the Design and Operation of Bulk Carriers, October 26-27, 2009, Athens, Greece.
121. Psaraftis, H.N., “Challenges in Maritime and Intermodal Logistics,” invited lecture, Hamburg School of Business Administration, November 16, 2009, Hamburg, Germany.
  122. Minsaas, A., Psaraftis, H.N., “The Launching of the SuperGreen project,” invited presentation, European Commission (DG-TREN) Conference on Green Corridors, December 9, 2009, Brussels, Belgium.
  123. Psaraftis, H.N. (2010), “Green Logistics for Surface Intermodal Transport”, invited keynote address, 41st Annual conference of the Italian Operations Research Society (AIRO), September 7-10, Villa San Giovanni, Italy.
  124. Psaraftis, H.N. (2010), “Will any of the emissions reduction measure work?” invited presentation, EuroMed Management Maritime Forum, September 14, Marseille, France.
  125. Psaraftis, H.N. (2010), “Can any of the emissions reduction measures work?” 2nd Mare Forum Iron Ore and Coal World Shipping Summit, Athens, Greece, 4 Oct. 2010.
  126. Psaraftis, H.N. (2010), “Market Based Measures for Greenhouse Gases: The IMO Debate”, SNAME Greek section technical meeting, 16 Dec. 2010.
  127. Psaraftis, H.N. (2011) “Sustainable Shipping: Parallel Tracks that Meet”, invited keynote address, Mareforum Blue Shipping Summit, Athens, Greece, 6 May 2011.
  128. Panagakos G.P., Psaraftis H.N. (2011), "Green corridors in freight logistics: How conducive is the operational and regulatory environment in Europe?", Proceedings of the 8th SoNorA University Think Tank Conference, Szczecin, Poland, June 16, ISSN 1868- 8411.
  129. Psaraftis, H.N. (2011), "Green intermodal logistics and the SuperGreen project", International Ports and Hubs Trade Show and Symposium, Athens, Greece, April 13-15.
  130. Psaraftis, H.N. (2011), “Slow steaming vs. speed limits,” presentation at ECCP DG-Clima’s WG on Ships, Brussels, Belgium, June 22-23.
  131. Lindstad, H., J.-T. Pedersen, H.N. Psaraftis (2011) “Increased Environmental concern adds another dimension to Fleet scheduling,” IFORS 2012 Conference, Melbourne, Australia, July 10-15.
  132. Panagakos G.P., Psaraftis H.N. (2011), “Green Corridors and the SuperGreen project: First results”, presentation at the Green Corridors in the TEN Network Conference, Trento, Italy, September 6.
  133. Psaraftis, H.N. (2011), “The SuperGreen project: overview and first results,” presented at Green Corridors – Multimodal Sustainable Transport System’ conference organized by Polish Presidency, Szczecin, Poland, Sep. 21-22.

**APPENDIX B**  
**HARILAOS N. PSARAFTIS**  
**MAJOR RESEARCH GRANTS AND CONTRACTS**

Period: January 1979- present

Note: Contracts 1-11 were granted to MIT; all others were granted to NTUA.  
Subcontracts are not included.

1. "Fluctuation Statistics and Signal Detection Modelling" (January 1979- June 1983). Office of Naval Research.
2. "Oil Spill Cleanup Economic and Regulatory Models" (July 1979- June 1981). National Oceanic and Atmospheric Administration/ Naval Facilities Engineering Command/ U.S. Coast Guard/ Commonwealth of Massachusetts/ and others. J.D.Nyhart Co-Principal Investigator.
3. "The Design of a Pollution Response System for Small Oil Spills" (July 1979- June 1981). The Henry L.Doherty Foundation.
4. "Simple Performance Models for Flexible-Route Feeder Transportation Systems" (September 1980- September 1983)University Research Program, Urban Mass Transportation Administration. A.R. Odoni Co-Principal Investigator.
5. "Advanced Dial-A-Ride Algorithms Research Project" (December 1980- September 1983) Panatransit Integration Program, Urban Mass Transportation Administration. A.R. Odoni and N.H.M. Wilson Co-Principal Investigators.
6. "Putting the MIT Oil Spill Model to Work" July 1981-September 1983) National Oceanic and Atmospheric Administration/Naval Facilities Engineering Command/ Petro-Canada. J.D.Nyhart Co-Principal Investigator.
7. "Dynamic Cargo Ship Routing and Scheduling Problems:Analysis and Solution Techniques" (July 1982- June 1983). MIT Center for Transportation Studies. J.B. Orlin Co-Principal Investigator.
8. "Analysis and Solution Algorithms of Sealift Routing and Scheduling Problems" (March 1983- May 1988).Office of Naval Research. J.B.Orlin Co-Principal Investigator.
9. "Specially Structured Routing and Scheduling Problems with Time Windows" (January 1987- December 1988). MIT Center for Transportation Studies.
10. "Graphics Software for Mathematical Optimization" (February 1987- January 1989). MIT Project Athena.
11. "Advanced Algorithms for Automated Mission and Trajectory Planning" (July 1989- June 1990).The Charles Stark Draper Laboratory.
12. "Advanced Technology to Optimize Manpower Onboard Ships- ATOMOS project" (February 1992- October 1994). Commission of European Communities, Directorate General for Transport - EURET Programme (multi-partner project, DSB Ferries Leader).
13. "Greek Coastal Shipping: Status,Prospects, and Investment Opportunities" (January - December 1993). Hellenic Industrial Development Bank (ETBA).
14. "A Decision Support System for Fast Oil Spill Response" (January 1994- December 1995). General Secretariat of Research and Technology (GGET).
15. "Technological and Human Aspects of Maritime Efficiency and Safety - THAMES project" (October 1994- September 1995). Commission of European Communities, Directorate General for Transport - APAS Programme (multi-partner project, DSB Ferries Leader).

16. "Advanced Technologies to Optimize Maritime Operational Safety, Integration, and Interface, - ATOMOS II project" (January 1996- December 1998). Commission of European Communities, Directorate General for Transport -Transport Research Programme (multi-partner project, DSB Ferries Leader).
17. "Safety of Shipping in Coastal Waters- SAFECO Project" (January 1996- December 1997). Commission of European Communities, Directorate General for Transport - Transport Research Programme (multi-partner project, Det Norske Veritas Leader).
18. "Technical Secretariat, Concerted Action on Shortsea Shipping," (June 1995- March 2000). Commission of European Communities, Directorate General for Transport - Transport Research Programme (multi-partner project, NTUA Leader, H.N. Psaraftis Consortium Manager).
19. "Demonstrators for Integrated Ship Control- DISC project," (October 1996- April 1997) Commission of European Communities, Directorate General for Transport - Transport Research Programme (multi-partner project, Scandlines Leader).
20. "Demonstrators for Integrated Ship Control- DISC II/ATOMOS III project," (February 1998- December 1999) Commission of European Communities, Directorate General for Transport -Transport Research Programme (multi-partner project, Scandlines Leader).
21. "Safety of Shipping in Coastal Waters- SAFECO II Project" (January 1998- December 1999). Commission of European Communities, Directorate General for Transport -Transport Research Programme (multi-partner project, Det Norske Veritas Leader).
22. "Promotion of Shortsea Shipping and Inland Waterway Transport by the use of Modern Telematics – PROSIT project" (January 1998-December 1999). Commission of European Communities, Directorate General for Transport -Transport Research Programme (multi-partner project, Freie Hansestadt Bremen Leader).
23. "Advanced Technology to Optimize Maritime Operational Safety: Intelligent Vessel – ATOMOS IV project" (January 2000-December 2002). Commission of European Communities, Directorate General for Transport -Transport Research Programme (multi-partner project, Leader: Danish Maritime Institute).
24. "Added Value Network Concerning European Shipping – ADVANCES project" (April 2000-March 2003). Commission of European Communities, Directorate General for Transport -Transport Research Programme (multi-partner project, Leader: BMT Murray Fenton Edon Liddiard Vince Limited).
25. "Thematic Network on Maritime Safety – THEMES project" (May 2000-April 2003). Commission of European Communities, Directorate General for Transport -Transport Research Programme (multi-partner project, Leader: Det Norske Veritas).
26. "The European Maritime Virtual Institute – EVIMAR project" (February 2001 – January 2003). Commission of European Communities, Directorate General Research (multi-partner project, Leader: Danish Maritime Institute).
27. "Tools and Routines to Assist Ports and Improve Shipping – TRAPIST project" (May 2002-April 2005). Commission of European Communities, Directorate General for Transport and Energy -Transport Research Programme (multi-partner project, Leader: Nautical Enterprise Centre Ltd.).
28. "Maritime Transport Coordinated Action- MTCP project" (April 2004- March 2007). Directorate General for Transport and Energy –6<sup>th</sup> Framework Programme (multi-partner project, Leader: BMT).
29. "Development of an Operational System and Methodology to Determine the Environmentally, Legally and Socioeconomically Optimal Routes of Transit of Oil Reserves of the Caspian Sea to the Mediterranean via the Aegean Sea- project AEGEAN". General Secretariat of Research and Technology (2003-2006).

30. "Elimination Units for Marine Oil Pollution- EU-MOP project" (February 2005-January 2008). Directorate General for Research –6<sup>th</sup> Framework Programme (multi-partner project, Leader: NTUA, H.N. Psaraftis Consortium Manager).
31. "Oil Sea Harvester- OSH project" (December 2004- November 2007). Directorate General for Research –6<sup>th</sup> Framework Programme (multi-partner project, Leader: Alstom Chantiers de l' Atlantique).
32. "European Framework for Safe, Efficient, and Environmentally Friendly Ship Operations- FLAGSHIP project" (2006-2009) Directorate General for Research –6<sup>th</sup> Framework Programme (Integrated Project, Leader: European Community Shipowners Association).
33. "Motorways of the Sea, European Style- MOSES Project" (2007-2010) Directorate General for Transport and Energy –6<sup>th</sup> Framework Programme (Integrated Project, Leader: MARINTEK).
34. "Effective Bulk Transport," Gift Agreement funded by Det Norske Veritas (January 2008- December 2010).
35. "Ship Air Emissions Study," Study funded by Hellenic Chamber of Shipping (January-June 2008).
36. "Optimal Containership Size and its Impact on Liner Shipping Operations," NOL Fellowship Programme, in cooperation with National University of Singapore (project leader) (June 2008- May 2010).
37. "Assessment of Environmental Impact in Marine Transportation and Related Activities," project funded by American Bureau of Shipping (June 2008-May 2011).
38. "Programme Agreement with Port of Thira," service contract funded by Municipality of Thira (Santorini) (November 2008- November 2012).
39. "Programme Agreement with Port of Kos on the relocation of the commercial port" service contract funded by Municipality of Kos, June 2009-June 2010.
40. "Supporting EU's Freight Transport Logistics Action Plan on Green Corridors Issues-project SuperGreen"- 7<sup>th</sup> Framework Programme, DG-MOVE (Coordinated Action, Consortium Leader: NTUA) (January 2010-January 2013).
41. "Centre of Excellence in Ship Total Energy-Emissions-Economy" project funded by The Lloyds Register Educational Trust. NTUA-LMT in Tracks 3 and 4 (Feb. 2010-Feb. 2015).
42. "Envi-Shipping: Green Assessment of a Ship's Lifecycle" multi-partner project funded by the General Secretariat of Research and Technology, Consortium Leader: NTUA (May 2011-May 2014).
43. "Transtools III" 7<sup>th</sup> Framework Programme, DG-Research, Consortium Leader Technical University of Denmark (March 2011-March 2014).

**APPENDIX C**  
**SOME DEVELOPMENTS IN THE PORT OF PIRAEUS (OLP)**  
**LINKED WITH THE TENURE OF H.N. PSARAFTIS AS CEO (1996-2002)**  
**(list is not exhaustive)**

1. First of all, Psaraftis is the second longest serving CEO in the port of Piraeus, ever since the port was established as a public entity in 1930, being only surpassed (by a few months) by the late E. Kelaidis, a retired Air Force Chief, who served from 1958 to 1964. He served for close to 5 ½ years in total from Aug. 1996 to March 2002, with a brief 2-month pause (Aug.-Oct. 1999). He is the only CEO in the port's history having served in both institutional regimes of the port, as a public law undertaking (up to 1999) and as a corporation (1999 on). He overlapped with 4 Ministers of Merchant Marine, and worked with 4 Presidents or Acting Presidents of the Board.
2. In the container sector, the most important for the port of Piraeus, traffic more than doubled from 575.000 TEU in 1996 to about 1.160.000 TEU in 2001, surpassing for the first time in OLP's history (2000) the yardstick of one million TEU. In 1999 Piraeus became one of the 50 busiest container ports in the world, and the top hub port of the Eastern Mediterranean (a position it no longer holds).
3. This development was due to the fact that Piraeus succeeded in attracting from 1997 important carriers like Mediterranean Shipping Company (MSC), Norasia and China Shipping Container Line, carriers that could have selected other competing ports in the Mediterranean but preferred Piraeus.
4. In the passenger port, the first phase of redevelopment was completed one year earlier than planned (1998), with works that improve the quality of service to the passengers and the citizens of Piraeus.
5. OLP evolved into a corporation (Law 2688/1999), which set the stage for its further evolution in the following years (flotation at the Athens Stock Exchange in 2003, etc).
6. With the transformation of OLP into a corporation, major and chronic problems of OLP's personnel were solved, such as pensions and health care, preventing the company from a serious financial crisis.
7. OLP compiled a detailed Strategic and Business Plan (2001).
8. OLP completed a study on its Organizational Plan (2001), which has formed the basis for its new organizational scheme.
9. OLP compiled also a pioneering and ambitious Redevelopment Plan for the passenger port (2001), unique for Greece.
10. Port engineering works for new coastal shipping berths in the passenger port have been completed (1997-2001).
11. Port engineering works for cruise ships and land engineering works have started (2000- completed in 2004).
12. European Community funding of €35,2 million for major infrastructure works was secured (1999).
13. A significant restructuring of OLP's tariffs took place in many areas, so as to better attract cargoes, and achieve simplification (1997-2001).
14. The 'rendez vous' system of ship berthing was implemented with success (1998).
15. OLP's Exhibition Center was substantially refurbished (2000).
16. Many works and other actions for the ship repair base took place (infrastructure improvements, shipyards' extensions, new tariffs and regulations, pier extensions, etc) (1997-2002).
17. The extension of the car terminal has been tendered (2001- completed in 2005).
18. The first collective labor agreement with port employees was signed (2000).

19. A new Health and Safety regulation was adopted (2001).
20. The company's asset position was officially valued, and the first corporate income statement (1/6/99-31/12/00) was profitable, with a dividend paid to the Greek State (2001).
21. A contract was signed with ATHENS 2004 and the Ministry of Merchant Marine for the Olympic Games infrastructure works (2001).
22. A new integrated computer system went live by OLP's personnel at the container terminal, possibly the most important event in OLP's last 30 years (2001).
23. An ambitious €220 million investment plan was adopted for years 2002-2006, the implementation of which is in progress. For the first time in OLP's history, a large part of this program concerns privately financed works (2002).
24. Tenders for an underground parking garage, a cruise terminal, two hotels and a financial advisor for the hotels have been prepared (2000-2002; garage completed in 2005).
25. Tenders for the support of OLP's financial services and the internal audit service were prepared (2001-2002).
26. The first phase of preparation of the company's IPO was executed on schedule and the Offering Memorandum was submitted in Feb. 2002. According to it, OLP was found to be particularly strong financially and to enjoy high profitability and return. (IPO completed in 2003).
27. OLP remains active in international fora (European Community, ESPO, Medcruise Association). In 2001 it became a full member of IAPH. It hosted IAPH's Europe-Africa regional meeting in January of 2002 and has co-organized with Mareforum the Med Ports 2002 international conference in April of 2002.