Curriculum Vitae: *Stephen John de Mora*, BSc, PhD, CChem, FRSC, FSB, FRSA

OVERVIEW



Stephen de Mora is currently the Chief Executive of the Plymouth Marine Laboratory and PML Applications Ltd, as well as an Honorary Visiting Professor in Biosciences at The University of Exeter.

With state-of-the-art research facilities and capabilities and scientists of international standing, PML is a provider of inter-disciplinary, strategic research and development, and a source of excellent, impartial scientific advice and innovative solutions for national and international benefit. The mission to deliver world-class research particularly focuses on the challenges of climate change and sustainable development. PML also works with industry and other clients in areas concerned with understanding, managing and protecting the marine environment through its wholly owned trading subsidiary PML Applications Ltd.

Stephen de Mora has broad work experience in environmental research and senior management, having had a career in academia, international organisations and private business. Educated in chemistry and oceanography, his areas of specific expertise include environmental analytical chemistry, marine pollution monitoring & assessment, chemical oceanography, biogeochemistry, and polar science. He has taught chemistry, environmental science, and oceanography at universities in Canada, New Zealand and the United Kingdom.

His management skills first developed as Head of the Oceanography Department (University of Quebec at Rimouski, Canada) and Laboratory Head (International Atomic Energy Agency, Monaco) during which time he gained familiarity with International Project Management, having collaborated with UNDP, UNEP, FAO, and UNESCO-IOC, as well as GEF projects in the Black, Caspian and Red Seas, and the Western Indian Ocean. He was responsible for running global laboratory performance studies and producing marine reference materials.

Research interests have been diverse: estuarine chemistry of manganese, lead in domestic waters, biogeochemical cycling of sulphur compounds, aqueous geochemistry of glacial melt water systems in Antarctica, marine environmental chemistry of tributyltin, effects of enhanced UV radiation on the marine environment, and marine pollution with respect to metals, pesticides and petroleum hydrocarbons. Excluding numerous reports in the grey literature, his publication record comprises 5 books, 14 book chapters, and 98 publications in international journals.

In May 2006, Stephen de Mora established his own company, Aromed Environmental Consulting Services Inc, based in Canada. He worked as an international expert for the UNDP Caspian Environment Programme, the UNEP MEDPOL Programme, and Agip KCO, a consortium of oil companies working in Kazakhstan. He undertook the terminal evaluation of the UNDP GEF Danube Regional Project and conducted the mid-term evaluation of the GEF - SADC groundwater and drought management project in Southern Africa. He interpreted water quality data for the GEF Kura and Aras River Basin Project, and helped a TACIS project develop a regional water quality monitoring programme in the Caspian Sea. Working for the Lake Chad Basin GEF Project, he prepared the Strategic Action Programme and outlined a donor mobilisation strategy. Finally, he assisted UNEP formulate a Caspian Action Plan under the auspices of the Tehran Convention.

Stephen de Mora became the Chief Executive of the Plymouth Marine Laboratory in September 2008. His main responsibilities include working with the Chairman and Board of Trustees, its Science Advisory Council and PML's senior staff to lead PML in the formulation and pursuit of its strategic mission, vision, priorities and operational objectives. He is accountable to the Board for PML's

scientific and business progress and achievements; and has recently prepared ***Listen to the Ocean***, the PML Strategy for 2015-2019.

BIOGRAPHICAL INFORMATION

Name:	Stephen John de Mora
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Email:	sjdm@pml.ac.uk
Web Site:	www.pml.ac.uk
Nationality:	Canadian & British
Language Skills:	English (Mother tongue) French (functional knowledge)

EDUCATION

Universities Attended	1972-1976	University of Wales (Swansea, United Kingdom)
	1976-1981	University of British Columbia (Vancouver, Canada)
Qualifications	BSc	1st Class Joint Honours Chemistry & Oceanography, 1976
	PhD	Chemistry & Oceanography, 1981
	CChem	Chartered Chemist**,** Royal Society of Chemistry, 1983
Awards and Scholarships	2005	Staff member of International Atomic Energy Agency (IAEA) when it was awarded Noble Peace Prize
	2005	IAEA Distinguished Service Award
	1990-92	Max Planck Society Fellowship
	1978-80	Postgraduate Scholarship (National Research Council of Canada)
	1976	Isabel M. Wescott Prize (University College of Swansea)

EMPLOYMENT HISTORY

Sept 2008 -	Chief Executive, Plymouth Marine Laboratory, **United Kingdom** Chief Executive, PML Applications Ltd
May 2006 – August 2008	President, Aromed Environmental Consulting Services Inc., **Canada**
May 1999 - April 2006	Laboratory Head – Marine Environmental Studies Laboratory (MESL) International Atomic Energy Agency - Marine Environment Laboratory, 4 quai Antoine 1er, MC 98000, **Monaco**
Jun 1996 - Mar 1999	Director Département d'océanographie, Université du Québec à Rimouski, Rimouski, Québec, G5L 3A, **Canada**
Mar 1994 - May 1999	Professor (as above)
Dec 1990 - Feb 1992	Research Fellow (on sabbatical leave) Biogeochemistry Department, Max Planck Institute for Chemistry, Postfach 3060, Mainz D-6500, **Germany**
Mar 1984 - Mar 1994	Senior Lecturer / Lecturer in Analytical Chemistry Chemistry Department, University of Auckland, Private Bag 92019, Auckland, **New Zealand**
Sep 1981 - Feb 1984	Research Associate Department of Environmental Sciences, University of Lancaster, Lancaster, LA1 4YQ, **United Kingdom**

PROFESSIONAL AFFAIRS

Directorships

2012-	**Director: Plymouth Marine Science Education Foundation**

2009-12	Director: Board of Plymouth Marine Sciences Partnership Ltd
2008-11	Director: Board of BioPartner A.S. (Norway)
2008-	**Director: Board of PML Applications**
2006-08	Director: Aromed Environmental Consulting Services Inc., (Canada)

Professional Associations

2009 Elected Fellow of the Royal Society for the Arts
2008 Elected Fellow of the Institute of Biology (FIBiol), now Society of Biology
1992 Elected Fellow of the Royal Society of Chemistry (FRSC)

Recent Professional Activities and Responsibilities

2015- Member, Irish Centre for Research in Applied Geosciences (iCRAG) Technical Advisory Committee for Marine Geoscience (Ireland)
2014- Chair, International Scientific Advisory Committee for the Marine Environmental Observation Prediction and Response, Network of Centres of Excellence Network (Canada)
2014- Member, Joint Weather and Climate Research Programme - Strategic Programme Board (JWCRP-SPB)
2014 Member, Foreign Scientific Committee for International Conference on Coasts, Ports and Marine Structures (Iran, 2014)
2012-2014 Member, UK – Integrated Marine Observing Network Executive Committee
2010-2013 Member, Natural Environment Research Council Science and Innovation Strategy Board (NERC-SISB)
2010- National Oceanography Centre National Capability Delivery Partners Steering Committee
2010- NOC Association Steering Board
2010- *Ad Hominem* Member, UK Marine Science Co-ordination Committee (MSCC)
2009-2010 Member, UK Marine Assessment Policy Committee (MAPC)
2010-2012 Member, Scientific Advisory Committee, Korea Institute of Ocean Science & Technology
2009- Member, UK Ocean Processes Advisory Group (OPEG)
2008-2010 Member, MoD/NERC Co-operative Arrangements for Research in Ocean Science (CAROS)
2008-2010 Member, Executive Board of the NERC Oceans 2025 Programme
2008- Member / Chair, Governing Board of the National Centre for Ocean Forecasting (NCOF)
2008-11 Member, *Conseil d'administration* for the Villefranche Observatory of Oceanology

Current Duties as Editor

2004- Member, Editorial Board for *International Journal of Ocean and Oceanography*
1998- Member, Editorial Advisory Board, Royal Society of Chemistry *Issues in Environmental Science and Technology*
1996- Editor, Cambridge University Press *Environmental Chemistry Series*

SELECTED PUBLICATIONS

Total output to date comprises 5 books, 14 book chapters and 98 publications in the international literature. This does not include numerous reports in the grey literature. Full bibliographic details can be provided.

Books

5. S.J. de Mora, S. Demers, & M. Vernet (Eds.) (2000) *The Effects of UV Radiation in the Marine Environment*, Cambridge University Press, Cambridge, pp. 336.
4. S.J. de Mora (Ed.) (1996) *Tributyltin: Case Study of an Environmental Contaminant*, Cambridge University Press, Cambridge, pp. 301.

Book Chapters

14. S.J. de Mora (2007) Chemistry in the Ocean *In* R.M. Harrison (ed.), *Principles of Environmental Chemistry*, Royal Society of Chemistry, Cambridge, pp 170-233.

13. Christian R.R., and de Mora S.J. (2005) Sentinel systems for coastal observations of global change. In P. Lasserre, P. Viaroli, and P. Campostrini (eds.). Lagoons and Coastal Wetlands in the Global Change Context: Impacts and Management Issues. Proceedings of the International Conference, Venice, 26-28 April 2004. UNESCO 2005, pp. 189-195.

Refereed Publications

98. Thomas C. Malone, Paul M. DiGiacomo, Emanuel Gonçalves, Anthony H. Knap, Liana Talaue-McManus, Stephen de Mora, and Jose Muelbert (2014) Enhancing the Global Ocean Observing System to Meet Evidence Based Needs for Ecosystem-Based Management of Coastal Ecosystem Services, *Natural Resources Forum* DOI: 10.1111/1477-8947.12045
97. Thomas C. Malone, Paul M. DiGiacomo, Emanuel Gonçalves, Anthony H. Knap, Liana Talaue-McManus, Stephen de Mora (2014) A global ocean observing system framework for sustainable development. Marine Policy **43**, 262–272
96. Stephen de Mora, Imma Tolosa, Scott W. Fowler, Jean-Pierre Villeneuve, Roberto Cassi, & Chantal Cattini (2010) Distribution of petroleum hydrocarbons and organochlorinated contaminants in marine biota and coastal sediments from the ROPME Sea Area during 2005, *Marine Pollution Bulletin* **60**, 2323–2349
93. Stephen de Mora, Jean-Pierre Villeneuve, Eric Wyse (2007) An overview of interlaboratory studies conducted by IAEA-MESL for marine pollution studies of metals and organic contaminants. *Accreditation and Quality Assurance* **12**, 587-592.
92. Scott W. Fowler, Jean-Pierre Villeneuve, Eric Wyse, Barry Jupp and Stephen de Mora (2007), Temporal Survey of Petroleum Hydrocarbons, Organochlorinated Compounds and Heavy Metals in Benthic Marine Organisms from Dhofar, Southern Oman. *Marine Pollution Bulletin* **54**, 357-367.
91. Galina Garnaga, Eric Wyse, Sabine Azemard, Algirdas Stankevičius, and Stephen de Mora, (2006) Arsenic in sediments from the Baltic Sea. *Environmental Pollution* **144**, 855-861.
90. Imma Tolosa, Stephen de Mora, Scott Fowler, Jean-Pierre Villeneuve, Jean Bartocci, Chantal Cattini (2005) Aliphatic and aromatic hydrocarbons in the marine biota and coastal sediments from the Gulf and Gulf of Oman. *Marine Pollution Bulletin* **50**, 1619-1633.
89. Stephen de Mora, Scott Fowler, Imma Tolosa, Jean-Pierre Villeneuve, Chantal Cattini (2005) Chlorinated hydrocarbons in marine biota and coastal sediments from the Gulf and Gulf of Oman. *Marine Pollution Bulletin* **50**, 835-849.
88. Imma Tolosa, Nathalie LeBlond, Jean-Claude Marty, Stephen de Mora & Louis Prieur (2005) Export fluxes of organic carbon and lipid biomarkers from the frontal structure of the Alboran Sea (SW Mediterranean Sea) in winter. *Journal of Sea Research* **54**, 125-142.
87. D. D. Nhan, D. T. Loan, I. Tolosa, and S.J. de Mora (2005) Occurrence of Butyltin Compounds in Marine Sediments and Bivalves from Three Harbour Areas (Saigon, Da Nang and Hai Phong) in Vietnam. *Applied Organometallic Chemistry* **19**, 811-818.
86. Stephen de Mora, Scott Fowler, Eric Wyse, Sabine Azemard (2004) Distribution of Metals in Marine Biota and Coastal Sediments in the Gulf and Gulf of Oman *Marine Pollution Bulletin* **49**, 410-424.
85. J.-P. Villeneuve, S.J. de Mora & C. Cattini (2004) Determination of organochlorinated compounds and petroleum hydrocarbons in a fish homogenate sample IAEA-406. Results from a world-wide intercalibration exercise. *Trends in Analytical Chemistry* **23**, 469-478.
84. Imma Tolosa, Stephen de Mora (2004) Isolation of neutral and acidic lipid biomarker classes for compound-specific-carbon isotope analysis by means of solvent extraction and normal-phase high-performance liquid chromatography. *Journal of Chromatography A* **1045**, 71-84.
83. Peter A. Lee, John C. Priscu, Giacomo R. Ditullio, Sarah F. Riseman, Nicole Tursich & Stephen J. de Mora, (2004) Elevated levels of dimethylated-sulfur compounds in Lake Bonney, a poorly ventilated Antarctic lake. *Limnology and Oceanography* **49**, 1044-1055.
82. Imma Tolosa, Isabelle Vescovali, Nathalie LeBlond, Jean-Claude Marty, Stephen de Mora & Louis Prieur (2004) Distribution of pigments and fatty acid biomarkers in particulate matter from the frontal structure of the Alboran Sea (SW Mediterranean Sea). *Marine Chemistry* 88, 103-125.
81. R. Whitehead & S.J. de Mora (2004) Modelling the effect of ozone loss from photobleaching of chromophoric dissolved organic matter in the St. Lawrence estuary, *Global Biogeochemical Cycles* **18**, No. 1, GB1025 10.1029/2003GB002101 pp.
80. P.A. Lee, J.A. Mikucki, C.M. Foreman, J.C. Priscu, G.R. DiTullio, S.F. Riseman, S.J. de Mora, Craig F. Wolf & L. Kester (2004) Thermodynamic constraints on microbially mediated processes in lakes of the McMurdo Dry Valleys, Antarctica. *Geomicrobiology Journal* **21**, 221-237.
79. E.J. Wyse, M. Coquery, S. Azemard, & S.J. de Mora (2004) Characterization of Trace Elements and Methylmercury in an Estuarine Sediment Reference Material, IAEA-405. *Journal of Environmental Monitoring* **6**, 48-57.
78. Stephen de Mora, Mohammad Reza Sheikholeslami, Eric Wsye, Sabine Azemard & Roberto Cassi (2004) An Assessment of Metal Contamination in Coastal Sediments of the Caspian Sea. *Marine Pollution Bulletin* **48**, 61-77.
77. Imma Tolosa, Stephen de Mora, Mohammad Reza Sheikholeslami, Jean-Pierre Villeneuve, Jean Bartocci & Chantal Cattini (2004) Aliphatic and Aromatic Hydrocarbons in Coastal Caspian Sea Sediments. *Marine Pollution Bulletin* **48**, 44-60.
76. Stephen de Mora, Jean-Pierre Villeneuve, Mohammad Reza Sheikholeslami, Chantal Cattini, and Imma Tolosa (2004) Organochlorinated Compounds in Caspian Sea Sediments. *Marine Pollution Bulletin* **48**, 30-43.
75. Stephen de Mora & Tim Turner (2004) The Caspian Sea: a microcosm for environmental science and international cooperation. *Marine Pollution Bulletin* **48**, 26-29.