

Mark Reed

Research Manager (Semi-Retired), Marine Environmental Modelling
SINTEF Materials and Chemistry, Marine Environmental Technology
Trondheim, Norway

a. Professional Preparation

1969	B.A. Philosophy, Antioch College
1970 - 1972	Pahlavi University, Shiraz, Iran (Undergraduate Civil Engineering)
1975	M.S. Civil and Urban Engineering, University of Pennsylvania, USA
1980	Ph.D. Ocean Engineering, University of Rhode Island, USA
1980 – 1981	Postdoc, Department for Cybernetics, Norwegian Technical University, Trondheim, Norway

b. Appointments

2014 – present	Semi-Retired; Senior Consultant, SINTEF
1992 – 2014	Section Leader, Environmental Modeling, SINTEF, Norway
1982 – 1992	Operations Manager, Applied Science Associates, Rhode Island

c. Publications

(i) Most relevant recent publications

Durgut, I. and M. Reed. Modeling spreading of oil slicks by random walk and Voronoi diagrams. *Marine Pollution Bulletin* (in review)

T. M. Özgökmen, Eric P. Chassignet, Clint Dawson, Dmitry Dukhovskoy, Gregg Jacobs, James Ledwell, Oscar Garcia-Pinada, Ian MacDonald, Steven L. Morey, Maria Olascoaga, Andrew C. Poje, Mark Reed, and Jørgen Skancke, 2016. Over what area did the oil and gas spread during the 2010 Deepwater Horizon oil spill? *Oceanography*. 29(3) pp.50-63.

Socolofsky S. A., E. Eric Adams, Michel C. Boufadel, Mark Reed et al. 2015. Inter-comparison of oil spill prediction models for accidental blowout scenarios with and without subsea chemical dispersant injection. *Marine Pollution Bulletin* 96(1-2), May 2015.

Johansen, O., M. Reed, N. Bodsberg, 2015. Natural dispersion revisited. *Marine Pollution Bulletin* 93(1-2) March 2015

Daling, P.S., F. Leirvik, I, K, Almås, M. Reed. Surface weathering and dispersibility of MC252 crude oil. *Marine Pollution Bulletin*, August 2014.

(ii) Other significant publications

Vikebø, F. B., P. Rønningen, V. S. Lien, S. Meier, M. Reed, B. Ådlandsvik, T. Kristiansen, 2013. Spatio-temporal overlap of oil spills and early life stages of fish. *ICES Journal of Marine Science*. doi:10.1093/icesjms/fst131.

Reed, M., P. S. Daling, A. Lewis, M. K. Ditlevsen, B. Brørs, J. Clark, D. Aurand, 2004. Modelling of dispersant application to oil spills in shallow coastal waters. *Environmental Modelling and Software*. Elsevier. 19 (7-8): 681 – 690.

Reed, M., M. H. Emilsen, B. Hetland, Ø. Johansen, S. Buffington and B. Høverstad (2006). Numerical model for estimation of pipeline oil spill volumes. *Environmental Modelling & Software*. Volume 21, “Progress in Marine Environmental Modelling”, Issue 2, Pages 178-189

Price, J. M., M. Reed, M. Howard, W. Johnsen, Z. Ji, C. Marshall, N. Guinasso, G. Rainey, 2006. Preliminary Assessment of an Oil Spill Trajectory Model Using Satellite-tracked Oil Spill Simulating Drifters. *Environmental Modelling and Software*, Elsevier. Volume 21, “Progress in Marine Environmental Modelling”, Issue 2, Pages 258-270.

Reed, M., P. S. Daling, A. Lewis, M. K. Ditlevsen, B. Brørs, J. Clark, D. Aurand, 2004. Modelling of dispersant application to oil spills in shallow coastal waters. *Environmental Modelling and Software*. Elsevier. 19 (7-8): 681 – 690.

d. Collaborators & Other Affiliations

Collaborators and Co-Editors

Adams, Eric. Massachusetts Institute of Technology
Boufadel, Michel. New Jersey Institute of Technology
Daling, P., Rønningen, P., Ø. Johansen and other colleagues at SINTEF, Trondheim, Norway

Durgut, Ismail. Technical University of the MidEast, Istanbul, Turkey.
MacDonald, Ian and associated graduate students. University of Miami (RSMAS)
Sokolofsky, Scott. Texas A&M
Vikebø, Frode and colleagues. Norwegian Fisheries Research Institute, Bergen, Norway

Graduate and Postdoctoral Advisors

Doctoral Advisor: Professor Malcolm Spaulding, University of Rhode Island and RPS/ASA
Sponsored by fellowships and graduate research positions
Postdoctoral Advisor: Professor Hen G. Balchen, Technical University of Norway, Trondheim
Sponsored by Norwegian Research Council

Thesis Advisor and Postgraduate-Scholar Sponsor.

Sponsored doctoral program and served on advisory committee (2):

Dr. Janne Gjøsteen, Marintek, Sintef, Trondheim
Dr. Qingqing Pan, China National Marine Environmental Forecasting Center (NMEFC), Shanghai