

BIOGRAPHICAL SKETCH

Mark Lovell Wells

A. ABBREVIATED VITA

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Current Positions:

Professor, School of Marine Sciences, University of Maine
Research Ocean Scientist, Institute of Marine Science, University of California, Santa Cruz

Education:

1979 B.Sc., Marine Biology (Honours), University of British Columbia, 1979
1982 M.Sc., Biological/Chemical Oceanography, University of British Columbia
1989 Ph.D., Chemical Oceanography, University of Maine

Professional Experience:

2008-Present Professor, University of Maine
Research Ocean Scientist, Step II,
Institute of Marine Science, University of California, Santa Cruz, CA
2003-2008 Associate Professor, University of Maine
Research Ocean Scientist, Step II,
Institute of Marine Science, University of California, Santa Cruz, CA
1999-2003 Assistant Professor, University of Maine
1997-2003 Associate Research Marine Chemist, Step II
Institute of Marine Science, University of California, Santa Cruz, CA
1995-1997 Assistant Research Marine Chemist, Step IV
Institute of Marine Science, University of California, Santa Cruz, CA
1993-1995 Assistant Research Marine Chemist, Step II
Institute of Marine Science, University of California, Santa Cruz, CA
1992-1993 Postgraduate Research Marine Chemist, Step VIII
Institute of Marine Science, University of California, Santa Cruz, CA
1989-1992 Postdoctoral Research Marine Chemist, Step VII
Scripps Institution of Oceanography, La Jolla, CA

Awards:

1992 Institute of Marine Studies Postdoctoral Fellowship, University of California, Santa Cruz
1991 Postgraduate Research Marine Chemist, Step VIII, Scripps Institution of Oceanography
1990 Postgraduate Research Marine Chemist, Step VII, Scripps Institution of Oceanography
1989 Postgraduate Research Marine Chemist, Step VI, Scripps Institution of Oceanography
1985 University Fellowship, University of Maine

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B. FIVE RELEVANT PUBLICATIONS:

Wells, M. L., C. G. Trick, W. P. Cochlan, M. P. Hughes and V. L. Trainer. 2005. Domoic acid: The synergy of iron, copper and the toxicity of diatoms. *Limnol. Oceanogr.* 50:1908-1917

Wells, M. L., and C. G. Trick. 2004. Controlling iron availability to phytoplankton in iron-replete coastal waters. *Mar. Chem.* 86: 1-13.

Wells, M. L. 2003. The level of iron enrichment required to initiate diatoms blooms in HNLC waters. *Mar. Chem.* 82: 101-114.

Wells, M. L. 1999.. Manipulating iron availability in nearshore waters. *Limnol. Oceanogr.* 44:1002-1008.

Wells, M. L., Mayer, L. M and Guillard, R. R. L., 1991. Evaluation of Iron as a Triggering Factor for Red Tide Blooms. *Mar. Ecol. Prog. Ser.*, 69:93-102.

B. FIVE SIGNIFICANT PUBLICATIONS:

Wells, M. L., N. M. Price, and K. W. Bruland. 1994. Iron chemistry in seawater and its relationship to phytoplankton. *Mar. Chem.* 48:147-182.

Wells, M. L. 2002. Marine Colloids and Trace Metals. In D. Hansell and C. Carlson [eds.], *The Biogeochemistry of Marine Dissolved Organic Matter*. Academic Press.

Wells, M. L., Price, N. M., and Bruland, K. W. 1994. Iron limitation and the Cyanobacterium *Synechococcus* in equatorial Pacific waters. *Limnol. Oceanogr.* 39:1481-1486

Wells, M. L., Mayer, L. M. and Guillard, R. R. L., 1991. A chemical method for estimating the availability of iron to phytoplankton in seawater, 1991. *Mar. Chem.*, 33:23-40.

Wells, M. L., Mayer, L. M., Donard, O. F. X., de Souza Sierra, M. M. and Ackleson, S. G., 1991. The photolysis of colloidal iron and its significance in the ocean. *Nature* 353:248-250.

C. SYNERGISTIC ACTIVITIES:

- Iron Fertilization Experimental Panel – U.S. microbial representative to PICES, 1999-Present
- Harmful Algal Blooms Working Group – U.S. representative to PICES, 1999-Present.
- NSF Proposal Review Panels, 1994, 1995, 1999, 2000, 2001, 2002, 2003, 2005, 2007
- Participant/mentor for Teachers Experiencing Antarctica (1999)

D. COLLABORATORS DURING THE LAST 48 MONTHS:

Dr. William Cochlan, SFSU, Dr. Barbara Hickey, U. Wash., Dr. Bethany Jenkins, URI, Dr. Whitney King, Colby College, Dr. Evelyn Lessard, U. Wash., Dr. Mary Jane Perry, U. Maine, Dr. Vera Trainer, NOAA, Dr. Charles Trick, UWO, Dr. Carl Tripp, U. Maine.

E. GRADUATE STUDENTS; Sheri Floge, Lisa Pickell, Eric Roy

Ph.D. Advisor: Lawrence M. Mayer
Postdoctoral Advisors: Edward D. Goldberg
Kenneth W. Bruland
