

MARIA A. CURTIN
Professional Biography

Personal

Maria Agudelo Curtin
30 Highland Street
South Easton, MA 02375

Education

Brandeis University (Waltham, MA), May, 1981 - December 1983, Ph.D. Inorganic Chemistry (1984)
Fordham University (Bronx, NY), September 1977-May 1978, M.S. Inorganic Chemistry (1979)
Merrimack College (North Andover, MA), January 1974- May 1977, B.S. Chemistry (1977)

Title of Ph.D. Dissertation: The Blood Chemistry of the Ascidians *Boltenia Ovifera*, *Styela Clava*, and *Molgula Manhattensis*.

Postdoctoral fellow at Boston College (1984-1985), in Professor Michael J. Clarke's laboratory working with ruthenium-nucleoside complexes.

Industrial Experience

Project Chemist, Toiletries Technology Laboratories, Gillette Company, Boston, MA (1985-1991).

Teaching experience

<u>Institution</u>	<u>Rank</u>	<u>Dates</u>
Stonehill College	Professor	July, 2008-
	Associate Professor	July, 1998- June, 2008
	Assistant Professor	Sept. 1993-Aug. 1998

Courses

CH331 Analytical Chemistry	CH432 Advanced Analytical Chemistry
CH443 Atomic Structure and spectra	CH442 Instrumental Analysis: Theory and Practice
CH195 The Science of Art	CH449 Seminar and Thesis
CH113 General Chemistry I	CH200 Chemistry Around US
CH114 General Chemistry II	LC239 Economic Impact of Scientific Innovations

Other Experience

Vice President of the Faculty Senate, F'07- present
General Education Advisory Committee, F'06-present
Science Center Faculty Shepherd S'06- present
Senate, F'05- present
Chair of the Department of Chemistry, F'97- F'00

Publications (last five years)

Doona, C.; Curtin, M. A.; Kustin, K.; Feeherry, F. Process for producing aqueous chlorine dioxide for surface disinfection and decontamination. US patent Application Serial No.12/008,035, filed January 8, 2008

Curtin, M. A.; Ingalls, L. R.; Campbell, A.; James-Pederson, M. "Hydrolysis Studies and Quantitative Determination of Aluminum Ions using Al-27 NMR: An Undergraduate Analytical Chemistry Experiment". 2008. *Journal of Chemical Education*. 85; 291-293.

Doona, C.; Kustin, K.; Curtin, M. A.; Taub, I.; Kandikar, S.; Ross, E.; Portable Chemical Sterilizer. US patent application Serial No. 11/105,211, filed April 2005

Curtin, M. A.; Taub, I. A.; Kustin, K.; Sao, N.; Duvall, J. R.; Davies, K. I.; Doona, C. J.; Ross, E. W. "Ascorbate Induced Oxidation of Formate by Peroxodisulfate: product Yields, Kinetics and Mechanism." 2004. *Research on Chemical Intermediates*. **30**; 647-661.

Doona, C.; Kustin, K.; Curtin, M. A.; Taub, I.; Chemical Combination for Generation of Disinfectant and Heat. U.S. patent application Serial No. 10/988,442, filed November 9, 2004

Papers delivered at professional meetings (bold name is name of presenter)

"Kinetics and mechanism of effector-driven oxyhalogen reactions for the inactivation of foodborne microorganisms by chlorine dioxide" **Doona, C.**; Curtin, M. A.; Feeherry, F.; Kustin, K. Barcus, J. August 21, 2007. 234th National American Chemical Society Meeting, Boston, MA.

"Portable Chemical Sterilizer for Microbial Decontamination of Surgical Instruments, Fruits and Vegetables, and Field Feeding Equipment" **Doona, C.**; Curtin, M. A.; Feeherry, F.; Kustin, K. November 27, 2006, 25th Army Science Conference. Orlando, Florida.

"Science Education at Stonehill: Changing the Culture" **Curtin, M. A.** August 8, 2005, SENCER summer institute, San Jose, CA

"Scientific Innovations and their Economic Impact: A learning Community" **Curtin, M. A.**; Kazemi, H.; March 13, 2005. 229th National American Chemical Society Meeting, San Diego, CA.

"Chemical Field Sanitizer" **Doona, C.**; Curtin, M.; Kustin, K.; Kandikar, S.; Feeherry, F.; Taub, I.; Ingraham, S.; Lagambina, S.; McManus, A. April 2002. Army Science Conference. Norfolk, Virginia.

Grants & Funding

Contract with Summit Research labs to work on aluminum-zirconium aqueous salts. 2006, \$8500.

"A public-Private Partnership to Increase Enrollment, Retention, and Diversity in Chemistry, Biology and Biochemistry" NSF Step Grant. Liotta, L.J.; Almeida, C.A.; Curtin, M.A.; James-Pederson, M.; Twomey, K. September, 2006. \$813,486.

Contract with Summit Research labs to work on aluminum-zirconium aqueous salts. 2005, \$9200.

Contract with Summit Research labs to work on aluminum-zirconium aqueous salts. 2004, \$5400.

Contract with the US Army Natick Soldier Systems Command Center on the project "Evaluation of kinetics of disinfection" 2004, \$3,869.39.

Contract with the US Army Natick Soldier Systems Command Center on the project "Evaluation of Kinetics of Disinfection" \$14,994.

Contract with the US Army Natick Soldier Systems Command Center on the project "Novel Chemical Systems for Chemical Disinfection and Sterilization" under an IPA between the Natick Army Labs and Stonehill College, January 2001- August 2001, \$20,646.

"Integrating Hands-On Access to High Field NMR Across the Undergraduate Chemistry Curriculum" NSF Course Curriculum, and Laboratory Implementation Grant. Liotta, L. J.; Curtin, M. A.; Hall, M. F.; Schnitzer, C. S.; Tilley, L. June, 2001. \$108,000.