Updated: 8/2015

Vita

Dean F. Martin is Distinguished University Professor Emeritus at the University of South Florida, where he has been a member of the faculty since 1964. Previously, he was a member of the faculty of the University of Illinois as Instructor and Assistant Professor of Inorganic Chemistry (1959-1964). He and his wife, Barbara B. Martin, share research interests concerned with the coordination chemistry of natural water systems, including problems of red tide and aquatic weeds. The Martins were Editors of the *Florida Scientist* 1984-2010. Dean Martin is the author or co-author of over 450 publications, including six books. He received his B.A. from Grinnell College in 1955 and his Ph.D. from the Pennsylvania State University in 1958. In 1958-59, he was a National Science Foundation Post-Doctoral Fellow at University College London. He received (1969-1974) a Career Development Award from the Division of General Medical Sciences, NIH, to study the chemistry and chemical environment of algal toxins. In 1970-71, he was a Visiting Professor of Physiology and Pharmacology at Duke University Medical Center. He was the recipient of the 1975 Florida Award and the 1987 Civic Service Award of the Florida Section; in 1978, he received the F. J. Zimmermann Award in Environmental Science from the Central Wisconsin Section, sponsored by Zimpro Inc.; and in 1983, he was elected Fellow of the American Association for the Advancement of Science. Dean and Barbara Martin were the co-recipients of the 1994 Medalist Award of the Florida Academy of Sciences, its highest award. Dean Martin has been active in the Florida Section (Chairman, 1986) of and the Tampa Bay Section (Chairman, Alternate Councilor, Webmaster) of the American Chemical Society, and he has held several positions in the Aquatic Plant Management Society (President, 1986-87).

Dean F. Martin

Distinguished University of Professor Emeritus and Director, Institute for Environmental Studies, Department of Chemistry - CHE 205, University of South Florida, 4202 E. Fowler Avenue, Tampa, Florida 33620
Born: April 6, 1933. Married to Barbara Bursa Martin, M.S., 1956-- Six adult children.

Education:

B.A., with honors (1955) Grinnell College; Ph.D. (1958) Pennsylvania State University

Professional Experience:

Research Fellow, 1955-58, The Pennsylvania State University
Postdoctoral Fellow (NSF), 1958-59, University College, London
University of Illinois Champaign Urbana
Instructor in Inorganic Chemistry, 1959-61
Assistant Professor of Inorganic Chemistry, 1961-64
` University of South Florida
Associate Professor of Chemistry, 1964-69' with tenure , 1967 --
Professor of Chemistry, 1969- ,
U. S. Public Health Service Career Development Awardee (National Institute of General Medical Sciences, 1969-74)
Visiting Professor of Physiology and Pharmacology, 1970-71, Duke University Medical Center
Coordinator for Inorganic Chemistry 1971-76
Affiliate Professor of Biology. 1974-79
Director, CHEMS Center, 1979-89
Director, Institute for Environmental Studies,1989-
Associate Chairman for Graduate Studies 1988- 2000; Associate Chair for development 2000--2006
Distinguished University Professor, University of South Florida, 1992-2006
Distinguished University Professor Emeritus, 9/1/2006-

Honors:

Scholarship (1954-55) from Standard Oil of Indiana
Phi Beta Kappa, 1955
Sigma Xi, 1958
National Science Foundation Postdoctoral Fellow (1958-59)
Omega Beta Pi (University of Illinois premedical honorary) Teaching Awardee (May 1964)
Listed in *American Men and Women of Science*, 1963- ; *Who's Who in South and Southwest*, 1967- ; *Who's Who in America*, 1976- ; *Who's Who in the World*, 1980
U. S. Public Health Service Career Development Career Award (1969-74)
Grinnell College, Alumni Award (June 1971)

American Chemical Society, Tour Speaker of the Year, Texas-New Mexico Circuit, 1970-71, September 1971
University of South Florida Sigma Xi Club, First Annual Outstanding Faculty Research Award (May 1972)
Recipient, Florida Award of the Florida Section, American Chemical Society (May 1975)
Recipient, The F. J. Zimmermann Award in Environmental Science, Awarded by the Central Wisconsin Section, American Chemical Society/Sponsored by Zimpro Inc., subsidiary of Sterling Drug Inc. (May 1978)
Fellow of the American Association for the Advancement of Science (1983)
Civic Service Award, Florida Section, ACS (1987)
Faculty Honor Guard (Senior Class Teaching Award - one of six outstanding professors), 1988-89

Co-recipient (with Barbara B. Martin) 1994 Florida Medalist Award of the Florida Academy of Sciences.
Honorific professorship, 1992
Honorary Marshal, Grinnell College Commencement, 2005
Honorary Membership, Aquatic Plant Management Society, July 2007
Charter Member, USF Academy of Inventors, 2009
"Class of '56"Award, USF Alumni Association 2010

Professional Memberships:

AAAS
Alpha Chi Sigma
Aquatic Plant Management Society
Florida Academy of Sciences
Phi Beta Kappa
Sigma Xi
The American Chemical Society
The Royal Society of Chemistry (London), MRSC
National Academy of Inventors

Grants Received:

National Science Foundation (1958-59)
University of Illinois Research Board (1960)
U. S. Public Health Service (1961-66)
Army Research Office (Durham) (1962-66)
U. S. Department of the Interior, Bureau of Commercial Fisheries (1966-68)
USF Research Council Released Time Award (1966, one trimester) (1967, one

quarter)

Florida Board of Conservation (1968-69)
Southwest Florida Water Management District (1969-70)
U. S. Public Health Service (1969-74) (Career Development Award)
U.S. Public Health Service, National Institute of Mental Health, Starter Grant (1971-72)
Florida Department of Natural Resources (1972-80)
Mote Marine Laboratory (1972-73)
The Procter & Gamble Co. (1972-74)
National Science Foundation, Undergraduate Instructional Equipment Program (1973-75)
Florida State University System Board of Regents, State Related Research Prog. (1974-75)
Cooperative Red Tide Research Program (1974-75)
Florida SUS Sea Grant Program (1975-76)
National Institute of Environmental Health Sciences (1976-80)
U. S. Army Corps of Engineers (1980-82)
International Minerals and Chemicals (1978-79)
Jessie Smith Noyes Foundation (1981-82)
National Institute of Environmental Health Sciences (1981-85)
Florida Institute of Phosphate Research (1983-84)
Amid-East (1983-84)
Florida SUS Sea Grant Program (1985-87)
Florida Department of Natural Resources (1986-88)
Chevron Chemical Company (1988-89)
Florida Institute of Government, STAR Grant (1988-89)
Florida Department of Environmental Regulation, SAFE Project. (1988-90)
Florida Department of Environmental Regulation, Copper Project (1989-91)
NOVACO, Inc. (1991)
Florida Institute for Phosphate Research (1991-93)
USF President's Council Award (1992)
Westinghouse Savannah River Co. (1992-1994)
Hillsborough County Pollution Control Administration (1992-1994)
Aqua Magnetics International (1992-1994)
West Coast Regional Water Supply Authority (1994-1998)
Florida Institute for Phosphate Research (1995-1997)
Walt Disney World (1995)
Bromwell & Carrier, Inc (FIPR) (1995-1996)
Florida Institute for Phosphate Research (1997-2001)
Hillsborough County (2001-2004)
SWFWMD (2003-2007)
SWFWMD (2007-2008)

Other Activities

American Chemical Society: University of Illinois Section, Secretary (1962-63); Florida Section, Alternate Councilor (1983-84); Chairman-Elect Designate (1984); Chairman Elect (1985); Chairman (1986); Chair, Awards Committee (1988-91); Tour speaker, Local Section Speaker Service (1968--). Chair , Tampa Bay Section ACS (2001); Web Master Tampa Bay Section, ACS (2004-)

Aquatic Plant Management Society: Director (1979-83); Chairman, Student Affairs Committee (1978-86); Vice President (1984-85); President-Elect (1985-86); President (1986-87); Honorary Membership Award (2007)

Other:

*Florida Scientist***,** Editor (1984- 2009); Editor Emeritus (2010--)

*Florida Journal of Public Health***,** Associate Editor (1989-90); Deputy Editor (1990- 95)

*Journal of Environmental Science and Health***,** Editorial Board (1970-)

Technology and Innovation, Editorial Advisory Board (2010 --)

Lake Okeechobee Technical Advisory Committee II (LOTAC II), 1988-1990 (Appointed by Governor Martinez)

Delegate, Florida Governor's Conference on Library and Information Services, December 1990.

University of South Florida:

Speaker of the Faculty Senate (1986-87); Trustee, USF Foundation (1981-87); Member, Library Development Board (1986-90), Member, Board of Directors, USF Research Foundation (1995); Associate Member, H. Lee Moffitt Cancer Center & Research Institute (1994-95). Member, Internal Review Board, 1968-1995; Chair, (1971-1995).

Grinnell College:

Member, Alumni Association Board of Directors (1989-95)
Danforth/Sesquicentennial Lecturer, March 1996
Class Fund Director (1981—2007; 2008-)

PUBLICATIONS

Books

1. *Coordination Compounds*. D. F. Martin, and B. B. Martin, McGraw-Hill Book Company, New York, 1964, 99 pp.

2. *Laboratory Chemistry*. T. Moeller and D. F. Martin, D. C. Heath, Boston, 1965, 279 pp.

3. *Coordination Compounds.* D. F. Martin and B. B. Martin, (Japanese Language Edition - Translated by K. Morinaga) Kogakusha, Tokyo, 1968, 83 pp.

4. *Marine Chemistry, Vol 1, Analytical Methods*. D. F. Martin, Marcel Dekker, Inc., New York, First Edition, 1968, 280 pp.

5. *Marine Chemistry, Vol. 2, Theory and Applications*. D. F. Martin, Marcel Dekker, Inc., New York, 1970, 451 pp.

6. *Marine Pharmacognosy: Action of Marine Biotoxins at the Cellular Level*. D. F. Martin and G. M. Padilla, eds., Academic Press, New York, 1973, 317 pp.

7. *Marine Chemistry, Vol 1, Analytical Methods.* D. F. Martin (Russian Language Edition--Translated by Michael A. Rozengurt) Gedrometroy, Leningrad (1974?).

8. *Column Chromatography*, Dean F, Martin and Barbara B. Martin, eds., InTech Europe, Rijeka, Croatia, 2013

PUBLICATIONS

Research Articles

1. "The Effect of Alkali Metal Ions on the Activity of Cracking Catalysts", J. D. Danforth and D. F. Martin, *J. Phys. Chem.*, *60*, 422-424 (1956).

2. "Bis(β–Diketones). I. Synthesis of Compounds of the Type $RCOCH_2CO$-Y-$COCO_2COR$", D. F. Martin, M. Shamma, and W. C. Fernelius, *J. Am. Chem. Soc.*, *80*, 4891-4895 (1958).

3. "Bis(β–Diketones). II. The Synthesis and Spectra of Compounds of the Type $[(RCO)R'COCH]_2CHR$", D. F. Martin, M. Shamma, and W. C. Fernelius, *J. Am. Chem. Soc.*, *80*, 5851-5856 (1958).

4. "Bis(β–diketones).III. The Synthesis and Properties of Compounds of the Type (RCO)(R'CO)CH-Y-CH(COR)(COR')", D. F. Martin, M. Shamma, and W. C. Fernelius, *J. Am. Chem. Soc.*, *81*, 130-133 (1959).

5. "Bis(β– Diketones). IV. Dissociation Constants of Some Bis(β–diketones)", D. F. Martin, M. Shamma, and W.C. Fernelius, *J. Am. Chem. Soc.*, *81*, 1509-1511 (1959).

6. "Stabilities of Bivalent-Metal Complexes of Some β-diketones", D. F. Martin, G. A. Janusonis, and B. B. Martin, *J. Am. Chem. Soc.*, *83* , 73-75 (1961).

7. "Chelating Tendencies of Some alpha-Mercaptoacetamides with Bivalent-Metal Ions", D. F. Martin, *J. Am. Chem. Soc.*, *83* , 1076-1078 (1961).

9. "An Application of High Speed Digital Computers to the Calculation of Formation Constants for Tervalent-metal Complexes", W. J. Randall, D. F. Martin, and T. Moeller, *Proc. Chem. Soc.*, *1961*, 340-341.

9. "Mechanism and Steric Course of Octahedral Aquation. Part V. The Isomerization, Racemization, and Water Exchange of *cis*- and *trans*-Aquoammine-bis(ethylenediamine)cobalt(II) Salts", D. F. Martin and M. L. Tobe, *J. Am. Chem. Soc.*, *1962*, 1388-1395.

10. "A Consideration of Steric Effects in the Chelating Tendencies of Some Methylene-Substituted _-Diketones",
D. F. Martin and B. B. Martin, *Inorg. Chem.*, *1*, 404-408 (1962).

11. "Interactions of Amines and β-Ketoimine-Copper(II) Compounds," D. F. Martin, *Adv. in Chem. Ser.*, *37*, 192-200 (1963).

12. "Partial Resolution of Some Copper(II) and Nickel(II) β-Ketoimine Compounds by Means of a Chromatographic Technique", T. M. Hseu, D. F. Martin, and T. Moeller, *Inorg. Chem., 2,* 587-590 (1963).

13. "Amine-Catalyzed Condensation of β-Diketones Using a Metal-Chelate Template", E. J. Olszewski, L. J. Boucher, R. W. Oehmke, J. C. Bailar, Jr., and D. F. Martin, *Inorg. Chem., 2,* 661 (1963).

14. "Kinetics and Mechanism of Chelate Exchange of Bis-(4-iminopentan-2-ono)copper(II) and a Quadridentate Ligand", D. F. Martin, *Chem and Ind.,* 1963, 1528.

15. "The Preparation of Metal-β-Ketoimine Compounds by Chelate Exchange", A. W. Struss and D. F. Martin, *J. Inorg. Nucl. Chem., 25,* 1409-1413 (1963).

16. "Preparation and Resolution of a Five-Coordinate Complex: Bisacetylacetone-propylene-diiminooxovanadium(IV)", K. Ramaiah, F. E. Anderson, and D. F. Martin, *Inorg. Chem., 3,* 296 (1964).

17. "Chelating Tendencies of Some Substituted 2-Pyridyl-1,3-Indanediones with Bivalent-Metal Ions", J. R. Cook, and D. F. Martin, *J. Inorg. Nucl. Chem., 26,* 571-577 (1964).

18. "Organometallic Compounds I. Formation Constants of Some Diakyl- and Diaryl-Thallium(III)-β-Diketone Compounds", J. R. Cook, and D. F. Martin, *J. Inorg. Nucl. Chem., 26,* 1249-1253 (1964)

19. "Base-Catalyzed Condensations of a Metal-Chelate Template", E. J. Olszewski and D. F. Martin, *J. Inorg. Nucl. Chem., 26,* 1577-1587 (1964).

20. "Kinetics and Mechanism of the Hydrolysis of Some β-Ketoimines of the Type $[RCOCHC(R')=N]_2Y$ and the Copper(II) Derivatives", D. F. Martin and F. F. Cantwell, *J. Inorg. Nucl. Chem., 26,* 2219-2227 (1964).

21. "Organometallic Compounds II. Synthesis and Attempted Resolution of Compounds of the Type R_2SnCh_2", W. H. Nelson and D. F. Martin, *J. Inorg. Nucl. Chem., 27,* 89-93 (1965).

22. "Interaction of Amines and Some Nickel(II) Schiff Base Compounds. I. Amine Exchange", E. J. Olszewski and D. F. Martin, *J. Inorg. Nucl. Chem., 27,* 345-351 (1965).

23. "A Novel Synthesis of Eight Coordinate Tin(IV) Compounds", K. Ramaiah and D. F. Martin, *Chem.Communs., 1,* 130 (1965).

24. "Interaction of Amines and Some Nickel(II) Schiff Base Compounds. II. Amine Exchange", E. J. Olszewski and D. F. Martin, *J. Inorg. Nucl. Chem., 27,* 1043-1048 (1965).

25. "Organometallic Compounds III. Some Reactions of Chlorodiaryl- and Chlorodialkyl-Tin Complexes", A. H. Westlake and D. F. Martin, *J. Inorg. Nucl. Chem., 27,* 1579-1589 (1965).

26. "Organometallic Compounds. IV. Phenyl-Tin Cleavage by Chelating Agents", W. H. Nelson and D. F. Martin, *J. Organomet. Chem., 4,* 67-73 (1965).

27. "Organometallic Compounds. V. Kinetics and Phenyl-Tin Cleavage by a Chelating Agent", D. F. Martin and R. D. Walton, *J. Organomet. Chem., 5,* 57-62 (1966).

28. "Five-Coordinate Compounds. II. Studies on β-Diketo and β-Ketoimino Complexes of Oxovanadium(IV) Ion", K. Ramaiah and D. F. Martin, *J. Inorg. Nucl. Chem., 27,* 1663-1669 (1965).

29. "Five-CoordinateCompounds. III. Kinetics of Some Reactions of Bisacetylacetonepropylenediimino- oxovanadium(IV)", D. F. Martin and K. Ramaiah, *J. Inorg. Nucl. Chem., 27,* 2027-2035 (1965).

30. "Template Synthesis of a Novel Bimetallic Ferrocene-Schiff Base Complex", E. J. Olszewski and D. F. Martin, *J. Organometal. Chem., 5,* 203-204 (1966).

31. "Kinetics and Mechanism of the Formation of Some Compounds of the Type Ni[RCOCR'C(R")=NCH_2-]$_2$", D. F. Martin and E. J. Olszewski, *J. Inorg. Nucl. Chem., 28,* 1073–1082 (1966).

32. "Kinetics of Tin-Phenyl Cleavage by 8-Quinolinol Under Ansolvous Conditions", D. F. Martin, P. C. Maybury, and R. C. Walton, *J. Organometal. Chem., 7,* 362-364 (1967).

33. "Kinetics and Mechanisms of Divalent-Metal Ion Catalyzed Hydrolysis of a β-Ketoimine", D. F. Martin and F. F. Cantwell, *J. Inorg. Nucl. Chem., 30,* 1931-1940 (1968).

34. "Organometallic Compounds. VI. Enthalphy and Entropy Values for the Interaction of Several Dialkylthallium(II) Ions with Dibenzoylmethanate Ion", D. F. Martin and W. J. Randall, *J. Inorg. Nucl. Chem., 30,* 2909-2914 (1968).

35. "Isolation and Characterization of a Toxin from the Florida Red Tide Organism", D. F. Martin and A. B. Chatterjee, *Nature, 221,* 59 (1969).

36. "Who's Teaching Chemical Literature Courses These Days?", D. F. Martin and D. E. Robison, *J. Chem. Doc., 9,* 95-99 (1969).

37. "Effects of Alkaline-Earth Metal Ions on the Transformation of Aragonite to Calcite in Aqueous Solution", M. E. McLester, D. F. Martin, and W. H. Taft, *J. Inorg. Nucl. Chem., 32,*

391-399 (1970).

38. "Five Coordinate Compounds. IV. Synthesis and Properties of [o-$C_6H_4CHNCH_2C(CH_3)_2NCHC_6H_4O$-o] VO", D. L. Daughdrill, D. F. Martin, and J. S. Binford, Jr., *J. Inorg. Nucl. Chem., 32,* 2885-2890 (1970).

39. "A Study of the Effects of Selected Amino Acids on the Recrystallization of Aragonite to Calcite", R. J. Allen, D. F. Martin, and W. H. Taft, *J. Inorg. Nucl. Chem., 32,* 2963-2970 (1970).

40. "Potential Control of Florida *Elodea* by Ion-Control Agents", D. F. Martin, M. T. Doig, III, and D. K. Millard, *Nature, 226,* 181-182 (1970).

41. "Some Chemical and Physical Properties of a Purified Toxin from the Red Tide Organism *Gymnodinium breve* ", D. F. Martin and A. B. Chatterjee, *Fishery Bulletin, 68,* 433-443 (1970).

42. "A Convenient Method of Analysis of Humic Acid in Fresh Water", D. F. Martin and R. H. Pierce, Jr., *Environ. Letters, 1,* 49-52 (1971).

43. "Prediction of the Florida Red Tide by Means of the Iron Index", R. M. Ingle and D. F. Martin, *Environ. Letters, 1,* 69-74 (1971).

44. "Characterization of *Prymnesium parvum* Toxin by Means of Hemolytic Kinetics", D. F. Martin and G. M. Padilla, *Environ. Letters, 1,* 199-203 (1971).

45. "Distribution of Naturally Occurring Chelators (Humic Acids) and Selected Trace Metals in Some West Coast Florida Streams, 1968-1969", D. F. Martin, M. T. Doig, III, and R. H. Pierce, Jr., *Fla. Dept. of Nat. Resources Prof. Papers Ser. No. 12,* April, 1971.

46. "Hemolysis Induced by *Prymnesium parvum* Toxin. Kinetics and Binding", D. F. Martin and G. M. Padilla, *Biochim Biophys. Acta, 241,* 213-225 (1971).

47. "Potential Control of Florida *Elodea* by Nutrient-Control Agents", D. F. Martin, M. T. Doig, III, and D. K. Millard, *Hyacinth Contr. J., 9,* 36-39 (1971).

48. "Effect of Humic Acids on Iron Analyses in Natural Waters", M. T. Doig, III and D. F. Martin, *Water Res., 5,* 689-692 (1971).

49. "Hemolysis Induced by *Prymnesium parvum* Toxin. Effect of Primaquine Treatment", D. F. Martin, G. M. Padilla, and P. A. Brown, *Biochim. Biophys. Acta, 249,* 69-80 (1971).

50. "Effects of Copper, Titanium, and Zirconium on the Growth Rates of the Red Tide Organism, *Gymnodinium breve*", D. F. Martin and W. K. Olander, *Environ. Letters, 2,* 135-142 (1971).

51. "Hemolysis Induced by *Prymnesium parvum* Toxin. Comparison with *Gymnodinium breve* Toxin", D. F. Martin, G. M. Padilla, M. G. Heyl, and P. A. Brown, *Toxicon, 10,* 285-290 (1972).

52. "Hemolytic Assay of Oysters for *Gymnodinium breve* Toxin", B. B. Martin, D. F. Martin, and G. M. Padilla, *Environ. Letters, 2,* 239-244 (1972).

53. "Physical and Chemical Stability of Ichthyotoxin(s) Produced by *Gymnodinium breve* ", M. T. Doig, III and D. F. Martin, *Environ. Letters, 3,* 279-288 (1972).

54. Calorimetric Estimation of Acidic Polysaccharide Content of *Gymnodinium breve* ", Y. S. Kim and D. F. Martin, *Environ. Letters, 4,* 109-116 (1973).

55. "Hemolysis Induced by *Prymnesium parvum* Toxin. Calorimetric Studies", J. S. Binford, Jr., D. F. Martin, and G. M. Padilla, *Biochim. Biophys. Acta, 291,* 156-164 (1973).

56. "Computer-Determined Rate Constants of Hemolysis Induced by *Prymnesium parvum* Toxin", D. F. Martin, G. M. Padilla, and T. A. Dessent, *Anal Biochem., 52,* 32-41 (1973).

57. "Effect of Selected β–Diketones on Lithium Fluxes of Bovine Red Blood Cells", D. F. Martin, M. G. Heyl, and M. T. Doig, III, *Life Sciences, 12,* 241-251 (1973).

58. "Biocontrol of the Florida Red Tide Organism, *Gymnodinium breve*, through Predator Organisms", D. F. Martin, M. T. Doig, III, and C. B. Stackhouse, *Environ. Letters, 4,* 297-301 (1973).

59. "Anticoagulant Properties of a Red Tide Toxin", M. T. Doig, III, and D. F. Martin, *Toxicon, 11,* 351-355 (1973).

60. "Choline Activation of Lithium Transport", W. R. Carper, D. D. Stoddard, and D. F. Martin, *Experientia, 29,* 1249-1250 (1973).

61. "The Isolation of Pig Liver Monoamine Oxidase", W. R. Carper, D. D. Stoddard, and D. F. Martin, *Biochem. Biophys. Res. Communs., 54,* 721-731 (1973).

62. "Effects of Salinity on Synthesis of DNA, Acidic Polysaccharide, and Ichthyotoxin in *Gymnodinium breve*", Y. S. Kim and D. F. Martin, *Phytochem., 13,* 533-538 (1974).

63. "A Note Concerning the Environmental Acceptability of Nitrilotriacetic Acid (NTA): The Effect of NTA on the Growth of *Gymnodinium breve* ", M. T. Doig, III and D. F. Martin, *Environm. Letters, 6,* 31-36 (1974).

64. "Pig Liver Monoamine Oxidase I. Isolation and Characterization", W. R. Carper, D. D. Stoddard, and D. F. Martin, *Biochem. Biophys. Acta, 334,* 287-296 (1974).

65. "Comparison of Growth Constants of Two Aquatic Plants, Hydrilla and Elodea", D. F. Martin and G. A. Reid, Jr., *Environ. Letters, 6,* 47-54 (1974).

66. "Effect of *Gymnodinium breve* Toxin on Potassium Influx of Erythrocytes", D. F. Martin and G. A. Padilla, *Toxicon, 12,* 353-360 (1974).

67. "The Response of *Gymnodinium breve* to Municipal Waste Materials", M. T. Doig, III and D. F. Martin, *Mar. Biol., 24,* 223-228 (1974).

68. "Hemolysis of Rabbit and Mullet Red Cells by *Gymnodinium breve* Toxin", Y. S. Kim, J. R. Linton, and D. F. Martin, *Toxicon, 12,* 439-442 (1974).

69. "Rate Constants as a Diagnostic Tool for Comparing Hydrilla and Egeria", G. A. Reid, Jr., D. F. Martin, and M. T. Doig, III, *Hyacinth Contr. J., 12,* 5-8 (1974).

70. "The Effect of Naturally Occurring Organic Substances on the Growth of a Red Tide Organism", M. T. Doig, III and D. F. Martin, *Water Res., 8,* 601-606 (1974).

71. "Interrelationship of Peace River Parameters as a Basis of the Iron Index: A Predictive Guide to the Florida Red Tide", Y. S. Kim and D. F. Martin, *Water Res., 8,* 607-616 (1974).

72. "Sedimentary Fluorite in Tampa Bay, Florida", W. H. Taft and D. F. Martin, *Environ. Letters, 6,* 167-174 (1974).

73. "Comment on the Paper by Yentsch and Co-Workers, on the Biostimulatory Effect of Nitrilotriacetic Acid on Growth and Photosynthetic Rate of Red Tide Dinoflagellate *Gonyaulax Tamarensis* ", D. F. Martin, *Environ. Letters, 7,* 175-177 (1974).

74. "Use of a Multiple Diffusion Chamber Unit in Culture Studies. Application to *Gomphosphaeria aponina* ", D. F. Martin, E. C. Kutt, and Y. S. Kim, *Environ. Letters, 7,* 39-46 (1974).

75. "Effect of Selected Surfactants in the Growth Characteristics of *Gymnodinium breve* ", E. C. Kutt and D. F. Martin, *Mar. Biol., 28,* 253-259 (1974).

76. "Stimulation of Hydrilla Growth by $Fe(EDTA)^-$", G. A. Reid, Jr., D. F. Martin, and Y. S. Kim, *J. Inorg. Nucl. Chem., 37,* 357-358 (1975).

77. "Design of Removal Agent for Prevention of Lithium Intoxications. Chelating Tendencies of Model β−Diketones", B. B. Martin and D. F. Martin, *J. Inorg. Nucl. Chem., 37,* 1079-1082 (1975).

78. "Lithium Transport Across Erythrocyte Membranes", W. R. Carper, D. D. Stoddard, and D. F. Martin, *J. Inorg. Nucl. Chem., 37,* 1083-1088 (1975).

79. "Separation and Isolation of Toxins Isolated from a Red Tide Sample of *Gymnodinium breve* ", Y. S. Kim, G. M. Padilla, and D. F. Martin, *Proc. First Int. Conf. Toxic Dinoflagellate Blooms,* 299-308 (1975).

80. "Report on a Biochemical Red Tide Repressive Agent", E. C. Kutt and D. F. Martin, *Environ. Letters, 9,* 195-208 (1975).

81. "Kinetics of Dehalogenation of Chloroform by a Metal-chelate System", D. F. Martin, *J. Inorg. Nucl. Chem., 37,* 1941-1944 (1975).

82. "Occurrence and Implication of Sedimentary Fluorite in Tampa Bay, Florida", D. F. Martin and W. H. Taft, *Adv. Chem. Ser., 147,* 202-210 (1975).

83. "Radio-iron and -Phosphorus Uptake by Hydrilla", G. A. Reid, Jr. and D. F. Martin, *J. Inorg. Chem., 37,* 2359-2362 (1975).

84. "On the Effect of Iron-Citrate on the Growth of the Florida Red Tide Organism, *Gymnodinium breve* ", Y. S. Kim and D. F. Martin, *Environ. Letters, 9,* 55-58 (1975).

85. "Effects of Artificially Introduced Ground Water on the Chemical and Biochemical Characteristics of Six Hillsborough County (Florida) Lakes", D. F. Martin, D. M. Victor, and P. M. Dooris, *Water Res., 10,* 65-69 (1976).

86. "Implications of Lake Augmentation on Growth of Hydrilla", D. F. Martin, D. M. Victor, and P. M. Dooris, *J. Environ., Sci. Health, A11,* 245-253 (1976).

87. "Artificial Initiation of Sessile Forms of the Red Tide Organism, *Gymnodinium breve* ", D. F. Martin and M. H. Gonzalez, *J. Environ. Sci. Health, A11,* 385-395 (1976).

88. "Oxalate, Calcium Uptake and ATPase Activity of Sarcoplasmic Reticulum Vesicles", Y. S. Kim, D F. Martin, and G. M. Padilla, *Bioinorg. Chem., 6,* 313-328 (1976).

89. "Effect of Selected Enzymes on the Activities of *Gymnodinium breve* Toxin", D. F. Martin, B. B. Martin, and M. T. Doig, III, *J. Environ. Sci. Health, A11,* 445-458 (1976).

90. "Uptake of Manganese in *Hydrilla verticillata* Royle", D. F. Martin and G. A. Reid, Jr., *J. Agric. Food Chem., 24,* 1161-1165 (1976).

91. "Aponin, a Cytolytic Factor Toward the Red Tide Organism, *Gymnodinium breve*. Biological Assay and Preliminary Characterization", D. F. Martin and B. B. Martin, *J. Environ. Sci. Health, A11,* 613-622 (1976).

92. "Effect of Temperature on the Proliferation of *Gymnodinium breve* and *Gomphosphaeria aponina* ", D. L. Eng-Wilmot, W. S. Hitchcock, and D. F. Martin, *Mar. Biol., 41,* 71-77 (1977).

93. "The Influence of *Gomphosphaeria aponina* on the Growth of *Gymnodinium breve* and the Effect of Aponin on the Ichthyotoxicity of *Gymnodinium breve*", L. F. McCoy, Jr. and D. F. Martin, *Chemico-Biol. Interactions, 17,* 17-24 (1977).

94. "Fume Scrubber for a Modified Microwave Oven for Wet Ashing Biological Samples", T. N. Cooley, D. F. Martin, and R. H. Quincel, *J. Environ. Sci. Health, A12,* 15-19 (1977).

95. "Effects and Fate of a Surfactant in Cultures of the Red Tide Organism, *Gymnodinium breve*", W. S. Hitchcock and D. F. Martin, *Bull. Environ. Contam. Toxicol., 18,* 291-296 (1977).

96. "Effects of Chelators on the Suitability of Natural Waters for Hydrilla Growth", D. M. Victor and D. F. Martin, *Water Res., 11,* 447-452 (1977).

97. "Factors Affecting the Distribution of Trace Elements in Aquatic Plants. Waterhyacinth", T. N. Cooley and D. F. Martin, *J. Inorg. Nucl. Chem., 39,* 1893-1896 (1977).

98. "Anomalous Response of a Calcium Electrode in Natural Waters. Diagnostic Studies with Synthetic Chelating Agents", D. M. Victor and D. F. Martin, *J. Environ. Sci. Health, A12,* 3 67-374 (1977).

99. "Large-Scale Mass Culture of the Marine Blue-Green Alga, *Gomphosphaeria aponina* ", D. L. Eng-Wilmot and D. F. Martin, *Florida Scient., 40,* 193-197 (1977).

100. "Growth of Hydrilla in Various Containers. Comparative Rates and Advantages", D. F. Martin and G. A. Reid, Jr. , *Florida Scient., 40,* 205-208 (1977).

101. "Effects of Microwaves on Organisms. *Gymnodinium breve* as a Model System", D. F. Martin, B. B. Martin, and S. C. Bloch, *J. Environ. Sci. Health, A12,* 523-530 (1977).

102. "Long-Term Peace River Characteristics as a Measure of Phosphate Slime Spill Impact", D. F. Martin and Y. S. Kim, *Water Res., 11,* 963-970 (1977).

103. "Aeration Efficiency, P., as a Means of Comparing Devices for Lake Restoration", J. E. Carr and D. F. Martin, *J. Environ. Sci. Health, A13,* 73-85 (1978).

104. "Growth Response of the Marine Blue-Green Alga *Gomphosphaeria aponina,* to Various Forms of Inorganic Nutrition", D. L. Eng-Wilmot and D. F. Martin, *Microbios, 19,* 167-179 (1978).

105. "Effects of Chelated Iron on the Growth of Two Species of *Vallisneria* ", P. M. Dooris and D. F. Martin, *Water Resources Bull., 14,* 1088-1093 (1978).

106. "Steric Effects in Tin-Phenyl Cleavage by Substitute 8-Quinolinols", D. F. Martin and B. S. Jurmark, *J. Inorg. Nucl. Chem., 40,* 1493-1496 (1978).

107. "Effect of *G. breve* Toxin on Calcium Uptake and ATPase Activity of Sarcoplasmic Reticulum Vesicles", Y. S. Kim, G. M. Padilla, and D. F. Martin, *Toxicon, 16,* 495-501 (1978).

108. "Effects of Salinity on the Synthesis of DNA, Acidic Polysaccharide, and Growth in the Blue-Green Alga, *Gomphosphaeria aponina* ", D. F. Martin and M. G. Gonzalez, *Water Res., 12,* 951-955 (1978).

109. "Distribution of Cytolytic Activity in Cultures of *Gomphosphaeria aponina* ", L. F. McCoy, Jr. and D. F. Martin, *J. Environ. Sci. Health, A13,* 517-525 (1978).

110. "Isolation and Partial Purification of a Red Tide (*Gymnodinium breve*) Cytolytic Factor(s) From Cultures of *Gomphosphaeria aponina* ", L. F. McCoy, Jr., D. L. Eng-Wilmot, and D. F. Martin, *J. Agri. Food Chem., 27,* 69-74 (1979).

111. "Isolation and Synergism of a Red Tide (*Gymnodinium breve*) Cytolytic Factor(s) From Cultures of *Gomphosphaeria aponina*", D. L. Eng-Wilmot, L. F. McCoy, Jr., and D. F. Martin, presented at the Second International Conference on Toxic Dinoflagellate Blooms, November 3, 1978, Miami, FL, pp. 355-360.

112. "Model Solvent Systems for Delivery of Compounds Cytolytic Towards *Gymnodinium breve* ", D. L. Eng-Wilmot, B. Henningsen, D. F. Martin, and R. E. Moon, presented at the Second International Conference on Toxic Dinoflagellate Blooms, November 1, 1978, Miami, FL, pp. 361-366.

113. "A Preliminary Study of Metal Distribution in Three Waterhyacinth Biotypes", T. N. Cooley, D. F. Martin, W. D. Durden, Jr., and B. D. Perkins, *Water Res., 13,* 343-348 (1979).

114. "Ground Water-Induced Changes in Lake Water Chemistry", P. M. Dooris and D. F. Martin, *Ground Water, 17,* 324-327 (1979).

115. "Cadmium in Naturally Occurring Water Hyacinths", T. N. Cooley and D. F. Martin, *Chemosphere, 8,* 75-78 (1979).

116. "Alkali-Metal Ion Formation Constants of Fluorine-Substituted β -Diketones", B. B. Martin and D. F. Martin, *J. Inorg. Nucl. Chem., 41,* 1503-1506 (1979).

117. "Short-Term Effects of Aponin and *Gomphosphaeria aponina*, in Unialgal and Mixed Cultures with *Gymnodinium breve*, on *Artemia salina*", D. L. Eng-Wilmot and D. F. Martin, *J. Pharmaceutical Sci., 68,* 963-966 (1979).

118. "Potential Management of Red Tide Blooms. Treatment with Concentrated Frozen *Gomphosphaeria aponina* Cultures", R. E. Moon and D. F. Martin, *J. Environ. Sci. Health, A14* (3), 195-199 (1979).

119. "Radio-Manganese, Iron, and Phosphorus Uptake by Waterhyacinth, *Eichhornia crassipes* ", T. N. Cooley, M. H. Gonzalez, and D. F. Martin, *Economic Botany, 32,* 371-378 (1978) [1979].

120. "Factors Affecting the Distribution of Trace Elements in Aquatic Plants. Success and Limitation of the Coordination Model", T. N. Cooley and D. F. Martin, *J. Inorg. Nucl. Chem., 42,* 151-153 (1980).

121. "Inhibition of *Hydrilla verticillata* by Selected Lake Sediment Extracts", P. M. Dooris and D. F. Martin, *Water Resources Bull., 16,* 112-117 (1980).

122. "Diurnal Variation of Selected Parameters Under Waterhyacinths and in Open Water", T. N. Cooley and D. F. Martin, *Florida Scient., 43,* 19-26 (1980).

123. "Aeration as a Tool to Improve Water Quality and Reduce the Growth of Hydrilla", T. N. Cooley, P. M. Dooris, and D. F. Martin, *Water Res., 14,* 485-489 (1980).

124. "Rotenone as a Causative Agent in the Mass Mortality of White Amur in an Orange County, Florida Pond", B. B. Martin and D. F. Martin, *J. Environ. Sci. Health, A14,* 709-715 (1980).

125. "Effects of Microwaves on Organisms. *Ptychodiscus brevis* -- *Gomphosphaeria aponina* Interaction", B. B. Martin, D. F. Martin, and S. C. Bloch, *Microbios, 26,* 17-23 (1979).

126. "A Comparative Study of the Polyene Antibiotic Filipin and a Red Tide Cytolytic Agent Aponin", R. E. Moon and D. F. Martin, *Microbios Letters, 10,* 115-119 (1980).

127. "Comparison of Steroidal Synthetic Agents Cytolytic Toward Florida Red Tide Organism (*Gymnodinium breve*, *Ptychodiscus brevis*)", D. F. Martin, T. N. Krumrei, and R. E. Moon, *J. Environ. Sci. Health, A15,* 37-44 (1980).

128. "Potential Management of Florida Red Tide Through Selective Photodynamic Action", J. A. Barltrop, B. B. Martin, and D. F. Martin, *J. Environ. Sci. Health, A15,* 163-171 (1980).

129. "Uptake of Iron by *Gomphosphaeria aponina*. A Possible Control Organism for the Florida Red Tide, *Ptychodiscus brevis*", D. L. Eng-Wilmot and D. F. Martin, *Microbios, 26,* 103-113 (1979).

130. "Growth-Enhancing Substances Elaborated by the Marine Cyanobacterium *Gomphosphaeria aponina* that Interfere with the Colorimetric Analysis of Iron", D. L. Eng-Wilmot and D. F. Martin, *J. Environ. Sci. Health, 15* (3), 259-267 (1980).

131. "A Genetic Comparison of Three Forms of the Waterhyacinth, *Eichhornia crassipes* ", R. P. Wain and D. F. Martin, *J. Environ. Sci. Health, A15,* 625-633 (1980).

132. "An Investigation of Compounds Cytolytic Towards the Red Tide Organism, *Ptychodiscus brevis* (Davis) Steidinger, from Florida Marine Sediments", R. E. Moon, T. N. Krumrei, and D. F. Martin, *Microbios Letters, 14,* 7-15 (1980).

133. "Cytolysis of the Florida Red Tide Organism *Ptychodiscus brevis* by Redox Dyes", B. B. Martin, D. F. Martin, S. Zigman, and B. C. Antonellis, *Microbios Letters, 14,* 77-80 (1980).

134. "Cytolysis of *Chattonella subsalsa* by Aponin", M. J. Halvorson and D. F. Martin, *J. Environ. Sci. Health, A16,* 373-379 (1981).

135. "Effects of 2- and 4-Hydroxybiphenyl on Cultures of the Red Tide Organism *Ptychodiscus brevis* ", R. E. Moon and D. F. Martin, *J. Environ. Sci. Health, A16,* 381-386 (1981).

136. "Phytoplankton Responses to Groundwater Addition in Central Florida", P. M. Dooris, G. M. Dooris, and D. F. Martin, *Water Resources Bull., 18,* 335-337 (1982).

137. "Laboratory Experiments as an Aid to Lake Drawdown Decision Making", P. M. Dooris, V. Ley, and D. F. Martin, *Water Resources Bull., 18,* 599-603 (1982).

138. "Effects of the Toxin of Red Tide, *Ptychodiscus brevis*, on Canine Tracheal Smooth Muscle (A Possible New Asthma-triggering Mechanism), S. Asai, J. J. Krzanowski, W. H. Anderson, D. F. Martin, J. B. Polson, R. F. Lockey, S. C. Bukantz, and A. Szentivanyi, *J. Allergy Clin. Immunol., 69,* 418-428 (1982).

139. "The Cytolytic Substance Aponin on *Prymnesium parvum* and *Ptychodiscus brevis*, a Comparative Study", R. E. Moon and D. F. Martin, *Botanica Marina, XXIV,* 591-593 (1981).

140. "Mitigation of Toxic Effects of a Red Tide Organism (*Ptychodiscus brevis*) by cultures of *Gomphosphaeria aponina*", D. L. Eng-Wilmot and D. F. Martin, *Microbios Letters, 17,* 109-116 (1981).

141. "Assay of Diverse Biological Activities of Materials Elaborated by a Marine Blue-Green Alga, *Gomphosphaeria aponina*", R. E. Moon and D. F. Martin, *Microbios Letters, 18,* 103-110 (1981).

142. "Effect of Hydrilla Growth-Inhibiting Extracts Upon the Growth of *Scenedesmus obliquus*", P. M. Dooris, W. S. Silver, and D. F. Martin, *J. Environ. Sci. Health, A17,* 639-645 (1982).

143. "Response of Hydrilla to Selected Dyes", J. Barltrop, B. B. Martin, and D. F. Martin, *J. Environ. Sci. Health, A17,* 725-735 (1982).

144. "Observations on the Rare Earths. XCII. Chelating Tendencies of 1-Methoxy-2,4-pentanedione", D. F. Martin, T. Moeller, and W. J. Randall, *J. Indian Chem. Soc., L1X,* 1232-1237 (1982).

145. "Evidence for Photodynamic Action by a Naturally Occurring Hydrilla-Growth Inhibitor", J. Barltrop and D. F. Martin, *J. Environ. Sci. Health, A18,* 29-36 (1983).

146. "Kinetics of Cytolysis of a Red Tide Organism *Ptychodiscus brevis* by Redox Dyes", B. B. Martin, D. F. Martin, and S. Zigman, *Microbios Letters, 21,* 63-68 (1982).

147. "Studies of Treated Stack Gas. I. Preliminary Experiments", R. E. Moon and D. F. Martin, *J. Environ. Sci. Health, A18,* 19-28 (1983).

148. "Induction of Sessile-Stage Formation of the Red Tide Organism *Ptychodiscus brevis* by Materials Elaborated by *Gomphosphaeria aponina*", L. Pabon'de Majid and D. F. Martin, *Microbios Letters, 22,* 59-65. (1983).

149. "Hydrilla Growth-Inhibiting Substances from Aqueous Extracts of Lake Sediments. Effect of Temperature", D.F. Martin and P. M. Dooris, *J. Environ. Sci. Health, A18,* 519-525 (1983).

150. "Genetic Distance Among Three Forms of Cabomba", R. P. Wain, W. T. Haller, and D. F. Martin, *J. Aquatic Plant Management, 21,* 96-98 (1983).

151. "*Ptychodiscus brevis* as a Model System for Photodynamic Action", J. Barltrop, B. B. Martin, and D. F. Martin, *Microbios Letters, 37,* 95-103 (1983).

152. "Study of a Naturally Occurring Hydrilla Inhibitor", D. F. Martin, U. S. Army Engineer Waterways Experimental Station, Miscellaneous Paper A-83-2, 29 pp. (1983).

153. "Effect of Aponin (from Cultures of the Green Alga, *Nannochloris sp*.) on Canine Tracheal Smooth Muscle", Y. Sakamoto, J. J. Krzanowski, R. F. Lockey, and D. F. Martin, *J. Environ. Sci. Health, A18,* 721-728 (1983).

154. "An Investigation of the Photodynamic Activity of a Red Tide (*Ptychodiscus brevis*) Cytolytic Agent", B. B. Martin and D. F. Martin, *Microbios Letters, 24,* 15-17 (1983).

155. "The Effect of Aponin, Substances from *Nannochloris sp.*, on the Spore Germination of Two Fungi", M. J. Halvorson, D. TeStrake, and D. F. Martin, *Microbios, 41,* 105-113 (1984).

156. "Activity of Naturally Occurring Hydrilla Growth Inhibitors", J. Barltrop, B. B. Martin, and D. F. Martin, *J. Aquatic Plant Manage., 22,* 84-87 (1984).

157. "The Site of Action of *Ptychodiscus brevis* within the Parasympathetic Axonal Sodium Channel h Gate in Airway Smooth Muscle", S. Asai, J. J. Krzanowski, R. F. Lockey, W. H. Anderson, D. F. Martin, J. B. Polson, S. C. Bukantz, and A. Szentivanyi, *J. Allergy Clin. Immunol., 73,* 824-828 (1984).

158. "Investigations of Two Possible Modes of Action of the Inert Dye Aquashade[7] on Hydrilla", D. C. Manker and D.F. Martin, *J. Environ. Sci. Health, A19,* 433-443 (1984).

159. "Studies on Utilization of Treated Stack Gas. II., Growth of Waterhyacinths (*Eichhornia crassipes*) in Carbon Dioxide-Rich Atmospheres", K. A. Hewes and D. F. Martin, *J. Environ. Sci. Health, A19,* 725-733 (1984).

160. "A Spectroscopic Technique for Evaluating Sterol-aponin Interactions and Implications for Management of *Ptychodiscus brevis* Red Tides", J. Barltrop and D. F. Martin, *Microbios, 41,* 23-29 (1984).

161. "Dehalogenation of Three Chlorinated Hydrocarbons: Amine-Assisted Versus Metal-Chelate Assisted", K. A. Hewes and D. F. Martin, *J. Environ. Sci. Health, A19,* 713-724 (1984).

162. "Genetic Relationship Among Two Forms of Alligatorweed", R. P. Wain, W. T. Haller, and D. F. Martin, *J. Aquatic Plant Manage., 22,* 104-105 (1984).

163. "Evidence for the Existence of Ergosterol in the Red Tide Organism *Ptychodiscus brevis*", A. Hamdy, S. W. Jahoda, and D. F. Martin, *Microbios Letters, 27,* 19-23 (1984).

163a. "The Mechanism of *Ptychodiscus brevis* Toxin (PBTX) Induced Contraction of Rat Vas Dererens", J. J. Krzanowski, Y. Sakamoto, R. Duncan,. D. F. Martin, R. Lockey, K. Hunter, and J. Polson, *Pharmacologist, 26,* 175 (1984).

164. "Evidence for a Carbene Mechanism in the Metal Chelate-Assisted Dehalogenation of Chloroform", K. A. Hewes, J. C. Davis, Jr., and D. F. Martin, *Florida Scient., 48,* 123-128 (1985).

165. "The Mechanism of *Ptychodiscus brevis* Toxin Induced Rat Vas Deferens Contraction", Y. Sakamoto, J. J. Krzanowski, R. Lockey, D. F. Martin, J. Polson, and A. Szentivanyi, *J. Allergy Clin. Immunol., 76,* 117-122 (1985).

166. "A Comparison of Fatty Acids and Sterols in Two Significant Marine Florida Algae, *Ptychodiscus brevis* and *Nannochloris sp*.", A. Hamdy and D. F. Martin, *Florida Scient., 49,* 1-6 (1986).

167. "Screening Schiff-Base Complexes for Activity in Dehalogenation of Chloroform", D. F. Martin, K. A. Hewes, S. G. Maybury, and B. B. Martin, *Inorg. Chim. Acta, 111,* 5-7 (1986).

168. "Dehalogenation of Ethylene Dibromide by Nickel-Schiff Base Compounds", B. B. Martin and D. F. Martin, *J. Environ. Sci. Health, A20,* 857-862 (1985).

169. "Do Land Characteristics Affect Heart and Gastrointestinal Cancer Death Rates Among Florida Counties?", M. L. Jackson, C. S. Li, and D. F. Martin, *Florida Scient., 49,* 82-97 (1986).

170. "The Potential for Managing a Florida Red Tide", W. H. Taft and D. F. Martin, *J. Environ. Sci. Health, 21,* 107-127 (1986).

171. "Pelletization of Pine and Oak Seeds: Implications for Land Reclamation", G. A. Almagro, D. F. Martin, and M. Perez-Cruet, *Florida Scient., 50* (1), 13-20 (1987).

172. "The Geochemical Availability of Soil Zn and Mo in Relation to Stomach and Esophageal Cancer in the People's Republic of China and U.S.A.", M. L. Jackson, J. Z. Zhang, C. S. Li, and D. F. Martin, *Applied Geochem., 1,* 478-492 (1986).

173. "Analysis of Hydrilla-Inhibiting Fractions in Natural Waters. The Concept of "Fingerprinting" Through Liquid Chromatography", D. F. Martin, P. M. Dooris, G. M. Dooris, and R. J. Bova, Jr., *Water Resources Bull., 22,* 283-287 (1986).

174. "Use of the Ecologen[7] to Study the Effects of Allelopathic Agents", B. B. Martin and D. F. Martin, *J. Aquat. Plant Manage., 24,* 82-84 (1986).

175. "Lower Airway Smooth Muscle Contraction Induced by *Ptychodiscus brevis* (Red Tide) Toxin", T. Shimoda, J. J. Krzanowski, R. Lockey, D. F. Martin, M. Perez-Cruet, J. Polson, and R. Duncan, *J. Allergy Clin. Immunol, 79,* 899-908 (1987).

176. "Preparation of Sterile Seawater Through Photodynamic Action. Preliminary Screening Studies", D. F. Martin and M. J. Perez-Cruet, *Florida Scient., 50,* 168-176 (1987).

177. "Effect of Selected Dyes on Short-Term Growth of the Filamentous Blue-Green Alga, *Lyngbya majescula*", B.B. Martin, D. F. Martin, and M. J. Perez-Cruet, *J. Aquatic Plant Manage., 25,* 40-43 (1987).

178. "Enhanced Activity of a Red Tide (*P. brevis*) Cytolytic Fraction (Aponin) from the Green Alga, *Nannochloris sp.*", B. B. Martin and D. F. Martin, *J. Environ. Sci. Health, A22,* 457-462 (1987).

179. "Effects of Four Dyes on Rates of Oxygen Production by Three Filamentous Algae", B. B. Martin and D. F. Martin, *Microbios Letters, 35,* 151-154 (1987).

180. "Preparation of Sterile Seawater Through Photodynamic Action. Studies of *Vibrio vulnificus*", C. J. Hoesley and D. F. Martin, *Microbios Letters, 36,* 153-156 (1987).

181. "Purification and Activity of *Ptychodiscus brevis* (Red Tide) Toxin Associated with Respiratory Problems", M. J. Perez-Cruet, J. J. Krzanowski, and D. F. Martin, *Florida Scient., 51,* 140-144 (1988).

182. "Age Factors Versus Land Characteristics in Understanding Heart and Colorectal Cancer Death Rates Among Florida Counties", M. L. Jackson and D. F. Martin, *Florida Scient., 51,* 86-91 (1988).

183. "*In Vitro* Red Tide Toxin Effects on Human Bronchial Smooth Muscle", T. Shimoda, J. J. Krzanowski, Jr., R. Nelson, D. F. Martin, J. Polson, R. Duncan, and R. Lockey, *J. Allergy Clin. Immunol., 81,* 1187-1191 (1988).

184. "Photoinactivation of Three Viruses by Rose Bengal", A. L. Lewis, F. M. Wellings, and D. F. Martin, *J. Environ. Sci. Health, A23,* 127-137 (1988).

185. "Effect of a Naturally Occurring Growth Inhibitor on the Ultra-Structure of *Hydrilla verticillata* Royle", G. M. Dooris, P. M. Dooris, and D. F. Martin, *J. Aquat. Plant Manage., 26,* 72-73 (1988).

186. "Influence of Substituted Phenols on the Growth of Hydrilla", B. B. Martin and D. F. Martin, *J. Aquat. Plant Manage., 26,* 74-75 (1988).

187. "Effect of Fluorescein Family Dyes on Growth of the Filamentous Alga, *Lyngbya majescula*", K. B. Johnson and D. F. Martin, *Microbios Letters, 38,* 21-26 (1988).

188. "Effect of Fluorescein-Family and Other Dyes on the Growth of the Red Tide Organism, *Ptychodiscus brevis*", B. B. Martin and D. F. Martin, *J. Environ. Sci. Health, A23* (8), 751-764 (1988).

189. "Effect of Selected Dyes on Duckweed", D. F. Martin and C. D. Norris, *J. Environ. Sci. Health, A23* (8), 765-771 (1988).

190. "Inhibition of Growth of a Red Tide Organism, *Ptychodiscus brevis*, by a Green Alga, *Nannochloris oculata*", M. C. Flynn and D. F. Martin, *Microbios Letters, 39,* 13-18 (1988).

191. "Prolificity of Departments of Chemistry at Florida Graduate Institutions", J. C. Follman and D. F. Martin, *Florida Scient., 52,* 271-277 (1989).

192. "Bio-Assays of Humic-Like Model Compounds: Chelation Versus Acid-Base Effects", B. B. Martin and D. F. Martin, *J. Environ. Sci. Health, A24* (2), 167-174 (1989).

193. "Blood Selenium in Select Mid-Income Florida Employees", F. L. Corden, N. G. Alexiou, and D. F. Martin, *J. Environ. Sci. Health, A24* (5), 535-542 (1989).

194. "Comparison of Effects of Photodynamic Sensitizers on Various Algae", B. B. Martin and D. F. Martin, *Microbios Letters, 41,* 111-114 (1989).

195. "The Relationship Between Blood Selenium and Equivalent Meals for Select Mid-Income Florida Employees", F. L. Corden, N. G. Alexiou, and D. F. Martin, *Florida J. Publ. Health, 1* (4), 34-36 (1989).

196. "The Toxic Spill Index (Emergency Response Index)", D. F. Martin, M. C. Flynn, C. D. Norris, and B. B. Martin, *J. Environ. Sci. Health, A25,* 291-297 (1990).

197. "Radon in the Home Environment: The Dust Hypothesis", C. Pinkerton and D. F. Martin, *J. Environ. Sci. Health, A25,* 381-390 (1990).

198. "Analysis of Selected Trace Metals and Pesticides Near a Florida Coral Reef", D. F. Martin, R. S. Braman, R. N. Strom, *J. STAR Research, 1,* 17-36. (1990).

199. "Aquatic Plant and Related Indices", M. C. Flynn, D. F. Martin, and C. D. Norris, *Florida Scient. , 54,* 111-116 (1991).

200. "A Convenient Method for Measuring Fresh Weight of Filamentous Algae", E. D. Gross, D. F. Martin, and W. C. Sexton, *Biomedical Letters, 46,* 35-37, (1991).

201. "Intrusion Indices -- A Measure of Groundwater Quality", D. F. Martin, C. D. Norris, and B. B. Martin, *J. Environ. Sci. Health, A26* (6), 899-910 (1991).

202. "Analysis of Selected Trace Metals and Pesticides Offshore of the Florida Keys", R. N. Strom, R. S. Braman, W. C. Jaap, P. Dolan, K. B. Donnelly, and D. F. Martin, *Florida Scient.,* 55, 1-13 (1992).

203. "Geometries of Selected Compounds of the Type $[RCOCHC(NR')R'']_2Ni$, as Inferred from Magnetic and Other Properties," C. Wang and D. F. Martin, *Florida Scient., 55,* 22-27 (1992).

204. "The Absence of Formation of Nitrosoamines Under Environmentally Simulated Conditions", G. J. Frederick, R. S. Braman, and D. F. Martin, *Florida Scient., 55,* 184-191 (1992).

205. "The SAFE Project; An Environmental Assessment Prototype", D. F. Martin and B. B. Martin. *J. Environ. Sci. Health, A27* (3), 955-966 (1992).

206. "Supported Chelating Agents. The Corkscrew Model," R.F. Benson and D.F. Martin, *J. Environ. Sci. Health, 27* (8), 2191-2197 (1992).

207. "Effects of Selected Copper(II)-Chelate Compounds on the Rates of Production of Oxygen by Filamentous Algae", J.R. Dyer, D. Forgie, B. B. Martin, and D. F. Martin. *Biomed. Letters.* 47, 363-369 (1992).

208. "Extraction of Cadmium from Industrial Phosphoric Acid with Chelating Agents", C. D. Norris, D. F. Martin, and J. W. Palmer, *J. Environ. Sci. Health, 27* (6) 1405-1413 (1992).

209. "Variation of Growth of *Lyngbya majescula* as a Function of Salinity", K. Shannon, E. D. Gross, and D. F. Martin, *Biomed. Letters, 47* , 29-33 (1992).

210. "Effects of Metabolic Products of Cellulose-Utilizing Organisms on *Hydrilla verticillata* (Royle). B. Pompey and D.F. Martin. *J. Aquat. Plant Manage., 31,* 109-113 (1993).

211. "Dolomite Extraction from Phosphate Pebble by Aqueous Carbonic Acid-Ammonium Sulfate Buffer", Y. Pan, R. F. Benson, and D. F. Martin. *Florida Scient., 56,* 185-192 (1993)

212. "Diquat Distribution in Water After Application to Submersed Weeds," K.A. Langeland, A.M. Fox, F.B. Laroche, B.B. Martin, D.F. Martin, C.D. Norris, and C. Wang, *Water*

Resources Bull., 30, 93-97 (1994).

213. "The Continued Use of Copper Sulfate Pentahydrate in the Hillsborough River Reservoir", J. C. Hohman and D. F. Martin. Pp. 83-91. *In*: S. Cooper (ed.) Human Impacts on the Environment of Tampa Bay, *Florida Scient., 58 (SP 2.* (1995).

214. ""Diquat Distribution in Water After Application to Submersed Weeds " K. A. Langeland, A. M. Fox, W. T. Haller, F.B. Laroche, B.B. Martin, D.F. Martin, C.D. Norris, and C. Wang, *Florida Lake Manage. Soc. Newsletter, 6*(2) 6-7 (1993).

215. "Effect of Treated Kraft Black Liquor on *Hydrilla verticillata* (Royle)," A. L. Hassell, B. B Martin, D. F. Martin, and J. M. Van Dyke, *Florida Scient., 57,* 1553-1564 (1994).

216. "Management of Scale Deposits by Diamagnetism. A Working Hypothesis," R. F. Benson, B. B. Martin, D. F. Martin, and R. K. Carpenter, *J. Environ. Sci. Health, A29,* 1553-1564 (1994).

217. "Attempted Use of Chiral Copper (II) and Nickel (II) Catalysts for Entiospecific Carbene Insertion", N. V. Venkatraj, L. Mandell, and D. F. Martin, *Florida Scient., 58,* 32-37 (1995).

218 "Effect of Selected Dyes on the Growth of the Cyanobacterium, *Lyngbya majuscula*, E. D. Gross and D. F. Martin, *Microbios, 81*, 17-21 (1995).

219 "A Computer-generated (Q-BASIC) Program to Construct Maucha Diagrams," A.L. Hassell and D.F. Martin, *Florida Scient., 58,* 300-312 (1995).

220. "Management of Scale Deposits by Diamagnetism. Scale Formation by Calcium Carbonate," D.F. Martin, H. Huang, B.B. Martin, and R.F. Benson, *J.Environ. Sci. Health, 30A*, 2243-2253 (1995).

221 "The Recycling Index: Progress in Florida," B. B. Martin and D. F. Martin, *Florida Scient. 59*, 65-73 (1996).

222 "Iron Dependence of *Lyngbya majuscula* and the Search for Siderophores," E. D. Gross and D. F. Martin, *J. Aquat. Plant Manage. 34,* 17-20 (1996).

223 "Allelopathic Properties of Cattails, *Typha domingensis*, in Hillsborough County, Florida," V. Prindle and D. F. Martin, *Florida Scient., 59,* 155-162 (1996).

224 "Cloud-Point Extraction of Trace Copper in Lipophilic Complex Formation," C. Wang, B. B. Martin, and D. F. Martin , *J. Environ. Sci. Health,* A31, 1101-1109 (1996).

225 "Extraction of Heavy Metals by Resin-Supported Chelators," C. D. Norris, R. F. Benson, and D. F. Martin,*Florida Scient., 59*, 174-181 (1996).

226 "Removal of Heavy Metal Ions From Aqueous Solutions Using Dithiooximides Supported on Silica Gel," D. D.Pooré, R. F. Benson, and D. F. Martin, *J. Environ. Sci. Health, A31*, 2167-2172 (1996).

227 "A Preliminary Examination of Effects of a Magnetic Field on the Viability of Four Algae," B. B. Martin, D. F. Martin, and L. D. Bisnauth, *Biomed. Letters*, 53, 23-28 (1996).

228 "Extraction of Heavy Metals by Chelators Attached to Silica Gel by a Corkscrew Mechanism," C. D. Norris, R. F. Benson, and D. F. Martin, *J. Environ. Sci. Health, A32*, 123-132 (1997).

229. Stability of Silica Gel for Supported Chelators, " C. D. Norris, R. F. Benson, and D. F. Martin, *Florida Scient*60, 73-74 (1997).

230 "Maucha Diagrams and Chemical Analyses to Diagnose Changes in Lake Chemistry," A. L. Hassell, P. M. Dooris, and D. F. Martin, *Florida Scient., 60*, 75-80 (1997).

231 "Identification of Allelopathic Chemicals in a Pond of Cattails," Joaquìn Albalat Domènech,E. Pérez, M. T. Gallardo, and D. F. Martin, *Florida Scient*., *60* , 202-203 (1997).

232 "Enhanced Solubility of Sodium Fluorosilicate Scale by Magnetic Treatment," C. Wang, R. F. Benson, and D. F. Martin, *Florida Scient*. 61 (1), 17-25 (1998).

233 "Removal of Iron from Sodium Fluorosilicate Scale By Magnetic Treatment," C. Wang, R. F. Benson, and D. F. Martin, *Florida Scient*. 61 (2), 88-95 (1998).

234 "Iron Removal from Phosphoric Acid by Paramagnetism," C. Wang, M. T. Gallardo, R. F. Benson, M. Derby, and D. F. Martin, *Spectroscopy Lett.*, 31(2), 409-417 (1998).

235. "Allelopathic Substances Produced by *Nannochloris oculata* that Adversely Affect a Red Tide Organism*Gymnodinium breve,"* E. Pérez, W. G. Sawyers, and D. F. Martin, *Biomed. Letters*, 56: 7-14 (1998).

236 "Effect of Microwaves (2450 MHz) on Mixed Cultures of the Marine Algae *Gymnodinium breve* and *Nannochloris oculata*," R. Mahram, B. B. Martin, and D. F. Martin, *Biomed. Letters*, 57, 25-29 (1998).

237 "Inhibition of Water Fern (*Salvina minima*) by Cattail *(Typha domingensis*) Extracts and

by 2-Chlorophenol and Salicylaldehyde," M. T. Gallardo, B. B. Martin, and D. F. Martin, *J. Chem. Ecol*., 24, 1483-1490 (1998).

238 "Formation of Chromium(III) Complexes with 8-Hydroxyquinoline Derivatives in Nonionic Micellular Solutions," C. Wang, D. F. Martin, and B. B. Martin, *J. Environ. Sci. Health, A33,* 1631-1642 (1998),

239 "Reaction of Chromium(VI) Species with Sugars," C. Wang, D. F. Martin, and B. B. Martin, *Florida Scient.*, *62*, 48-57 (1999).

240 "Cloud-Point Extraction of Chromium(III) ion with 8-Hydroxyquinoline Derivatives," C. Wang, D. F. Martin, and B. B. Martin, *J Environ Sci. Health, A34* (3) , 705-719 (1999).

241. "Concentrations of Two Phytotoxic Materials in Cattail Extracts: 2-Chlorophenol and Salicylaldehyde," M. T. Gallardo, W. G. Sawyers, and D. F. Martin, *Florida Scient*., *61*, 164-171 (1999).

242. "Economic Considerations in the Removal of Copper and Chromium from Electronic Wastes," C. Wang, D. F. Martin, and B. B. Martin, *Florida Scient.*, 62, 158-163 (1999)

243. "Rate of production of APONINs by *Nannochloris oculata*," E. Pérez, D. F. Martin, and G. M. Padilla, *Biomed. Lett.*, *59,* 83-91 (1999).

244. "Analysis of Commercial Selenium Supplement Tablets," K. M. Carvalho, R. F. Benson, F. A. Booth, M. J. Collier, and D. F. Martin, *Florida Scient. 63*, 8-12 (2000).

245. "Effect of Cattail (*Typha domingensis*) Extracts, Lechates, and Selected Phenolic Compounds on rates of Oxygen Production by Salvinia (*Salvinia minima*)," M. T. Gallardo, J. Ascher, M. J. Collier, B. B. Martin, and D. F. Martin, *J. Aquat. Plant Manage. Soc*. 37,80-82 (1999); appeared July 2000.

246. "Modeling Organism-Organism Interactions as a Means of Predicting Florida Red-Tide Management Potential," E. Pérez, F. A. Booth, and D. F. Martin, *J. Environ. Sci. Health, A35,* 219-227 (2000).

247. "The Use of a Computer-Interfaced System for the Determination of the Inhibition of Oxygen Production by Selected Aquatic Weeds in the Presence of Cattail *(Typha domingensis)* Extracts, ", D. M. Ambrogio, M.T. Gallardo, and D. F. Martin, *Florida Scient*., 63, 118-122 (2000).

248. "Bioassays of Aponin-3,-4 with Rabbit Erythrocytes," M. Derby and D.F. Martin, *Cytobios,* 102, 115-118 (2000).

249. "Magnetic Treatment of Solid Carbonates of, Sulfates, and Phosphates of Calcium," R. F.Benson., R.Lubosco, and D. F.Martin, *J. Environ Sci. Health*, A35, 1527-1540 (2000).

250. "Effect of Concentration and Decomposition Time on the Phytotoxicity of Cattail (*Typha domingensis)* extracts," M. T. Gallardo, D. G. Meadows, L. B. Mendoza-Galvez, M. D. Papachristou, and D. F. Martin,
Florida Scientist, 64, 44-55 (2001).

251. "Lysis of *Gymnodinium breve* by Cultures of the Green Alga *Nannochloris eucaryotum*, " E. Pérez, W. G. Sawyers,and D. F. Martin, *Cytobiosis,104*, 25-31 (2001).

252. "USF Chemistry Academic Genealogies," D. F. Martin, *Florida Scient*., *64*, 67-75 (2001).

253. CMC Values of Allelopathic Substances Produced by *Nannochloris oculata* That Affect the Red Tide Organism *Gynmodinium breve*," E. Pérez and D. F. Martin, *Cytobiosis, 106*, 163-170 (2001).

254. "GC/MS Analysis of Volatile Organic selenium Species Produced during Phytoremediation**,**" K.M. Carvalho, M. J. McGettigan, and D. F. Martin, *J Environ. Sci. Health, A36*(7), 1403-1409 (2001).

255. "Removal of Aquatic Selenium by Four Aquatic Plants " K. M. Carvalho and D. F. Martin, *J. Aquat.Plant Manage 39,* 33-36 (2001) [appeared March 2002]

256**.** "Environmental Impacts of Phosphogypsum vs. Borrow Pits in Roadfill Construction," D. F. Martin, P. M. Dooris, and D. Sumpter**,** *J. Environ. Sci. Health,* A36, 1975-1982 (2001)

257. "Essential Fatty Acids and Phenolic Acids from Extracts and Leachates of Southern Cattail (*Typha domingensis* P.)**,"** M. T.Gallardo-Williams, C.L.Geiger, J. A. Pidala, and D. F. Martin, *Phytochemistry*, 59, 305-308 (2002).

258. "Measuring Toxicity of Lead Samples Using a Microtox 500 Analyzer," S. Chen, M. Derby, and D. F. Martin**,** *Florida Scientist, 65,* 139-145 (2002).

259. "Accumulation and Retention of Lead by Cattail (*Typha domengensis*), Hydrilla (*Hydrilla verticillata*) and Duckweed (*Lemna obscura*), " M. T. Gallardo-Williams, V. A. Whalen, R. F. Benson, and D. F. Martin, *J. Environ. Sci. Health*, A37, 1399-1408 (2002).

260. "Attitude Survey on Comparative Advantages of Phosphogypsum versus Borrow Pits for Road Fill," S. H. Emery and D. F. Martin, *Florida Scientist,* 65, 250-255 (2002).

261. "Extraction of Heavy Metals by Mercaptans Attached to Silica Gel by a Corkscrew Mechanism," C. A. Bowe, R. F. Benson, and D. F. Martin, *J. Environ. Sci. Health*, A37, 1391-1398 (2002).

262 "Inhibition of Onion Germination and Root Growth by Cattail Extracts Involves Reduced Cell Proliferation and Disruption of Cell Wall Integrity," M. T. Gallardo-Williams, R. L. Barton, P. M. Dooris, and D. F. Martin, *J. Aquat. Plant. Manage*. 40, 105-109 (2002).

263. "Studies of the Effect of Ψ -APONIN from *Nannochloris sp* on the Red Tide Organism *Karenina brevis,"* M. Derby, M. Galliano, D. F. Martin, and J. J. Krzanowski, *Toxicon*, 41, 245-249 (2003).

264. "Comparison of Log P Values Obtained from CAChe and Other Sources," M. E. McKenzie, B. B. Martin, and D. F. Martin , *J. Environ Sci. Health* A38 (3) , 511-519 (2003).

265. "Effects of Selenium Supplementation on Four Agricultural Crops," K. M. Carvalho, M. T. Gallardo-Williams, R. F, Benson, and D. F. Martin, *J. Agric. Food Chem*. 51(3) 704-709 (2003).

266 Han, T. K.; Derby, M.;. Martin, D. F.; Wright, S. D.; Dao, M. L., Effects of Brevetoxins on Murine Myeloma SP2/O Cells: Aberrant Cellular Division *Intl. J. Toxiocol***. 2003**, *51*(3) 704-709.

267. "Extraction of Heavy Metals by Amines Absorbed onto Silica Gel by a Hydrogen Bonding Mechanism", Craig A. Bowe, Duke D. Pooré, Robert F. Benson, and Dean F. Martin, *J Environ. Sci. Health*, 38, 2653-2660 (2003).

.268. Martin, D. F.; Carnahan, R. P.; Krzanowski, J. J., Effect of Shear Forces on the Release of Brevetoxins from *Karenia brevis* , *Florida Scient*., **2003,** *66*, 109-112

269. Bowe, C. A.; Krikorian, N.; Martin, D. F.; Extraction of Heavy Metals Using Modified Montmorillonite KSF Florida Scient., 2004, 67, 74-79

270. Smith, D. P.; McKenzie, M. E.; Bowe, C. A.; Martin, D. F.; Uptake of Phosphate and Nitrate Using Laboratory Cultures of *Lemna minor* L *Florida Scient***., 2004**, *67*, 105-117.

271. Bowe, C. A.; Martin, D. F.; Extraction of Heavy Metals by 2-Mercaptoethoxy Groups attached to Silica Gel *J Environ. Sci. Health*, **2004,** *A39*, 1479-1485.

272 Martin, D. F.; McKenzie, M. E.; Smith, D. P.; Nitrate and Phosphate Uptake by Duckweed (*Lemna minor* L.) Using Tandem Reactors *Florida Scient.* **2004,** *67*, 258-265.

273. Anderson, L.;. Martin, D. F. Effect of Light Quality on the Growth of Duckweed, *Lemna*

minor L.., *Florida Scient.* **2005,** *68,* 20-24

274. Derby, M. L.; Krzanowski, J. J.; Martin, D. F. Effect of *Nannochloris* sp. on the Toxicity of Four Algae, *J. Environ. Sci. Health,* **2005,** *A40,* 151-156

275 Krikorian, N.; Martin, D. F. Extraction of Selected Heavy Metals Using Modified Clays. *J. Environ. Sci. Hlth* **2005,** *A40,* 601-607. .

276. Martin, D. F.; Blankenship, D.; Martin, B. B. The Farm Index --- A Proposed Addition to the SAFE Index, *Florida Scient.* **2005,** *68,* 77-83.

277. Martin, D. F. Chemistry at the University of South Florida (USF) 1960-2004. *Florida Scient.***2005** *68,* 144-153.

278. Martin, B. B.. and Martin, D. F. The Recycling Index: Progress in Florida Revisited. *Florida Scient.*, **2006**, *69,* 49-53.

279. Martin, D. F. and B. B. Martin. St. Elmo Brady (1884-1966) : Pioneering Black Chemist. *Florida Scient,* **2006**, *69,* 116-123.

280. Martin, D. F., B. B. Martin. Jonas Kamlet (1914 – 1960) Chemist/ Entrepreneur. *Florida Scientist,* **2007**, *70,* 40-44. (Background information for the Kamlet Papers project at the USF Library Special Collections Department)

281. Martin, D. F., L. O'Donnell, B. B. Martin , and R. Alldredge. Removal of Aqueous Arsenite Using Iron-attached to Immobilized Ligands (IMLIGs), *J. Environ. Sci. Hlth,,* **2007** , *42A,* 97-102.

282. Martin, D. F. , B. B. Martin, and R. Alldredge. Arsenic, Nitrate, and Perchlorate In Water --- Dangers, Distribution, And Removal, *Bull Hist. Chem*. **2008,** *33***,** 17-24.

283. Martin, D. F. and B. B. Martin, The Joint Papers of Alfred Werner and Paul Karrer. *Bull Hist. Chem* . **2008,** *33***,** 25-27.

284 Martin, D. F and R. Alldredge. Removal of Uranium(VI) from Water Samples Using Octolig® and Ferrilig, an Iron Derivative of Octolig®, a Supported Chelating Agent., *Florida Scient,* **2008** , *71* , 208-214.

285. Martin, D. F., L. O'Donnell, B. B. Martin , and R. Alldredge. Removal of Aqueous Nuisance anions with Ferrilig. *J. Environ. Sci. Hlth,,* **2008** , *43A,* 700-704.

286. Martin, D. F., J. S. Aguinaldo, N. P. Kondis, F. W. Stull L. F. O'Donnell, B. B. Martin , and R. L. Alldredge. Comparison of Effectiveness of Removal of Nuisance Anions by

Metalloligs, Metal Derivatives of Octolig®, J. Environ. Sci. Hlth., **2008**, *43A*(12), 43, 1296-1302.

287. Martin, D. F., N. P. Kondis, and R. L. Alldredge. Effectiveness of Removal of Aqueous Perchlorate by Cuprilig, a Copper(II) Derivative of Octolig, J. Environ. Sci. Hlth.,Part A **2009**, *44*, 188-191.

288. Martin, D. F., N. G. Rubin, and M. Small. Scaled-up Synthesis of Cuprilig for removal of Nuisance Anions. Florida Scient**.** **2010**, *73*, 39-46.

289. Stull, F.W. and D. F. Martin. Comparative Ease of Separation of Mixtures of Selected Nuisance Anions (nitrate, nitrite, sulfate, phosphate) using Octolig®. J. Environ. Sci. Hlth.,Part A, **2009**, *44*, 1551-1556.

290 D. F. Martin, C. L. Lizardi , E. Schulman, B.Vo, and D. Wynn, Removal of Selected Nuisance Anions by Octolig® , J. Environ. Sci. Hlth, Part A., **2010,** *45*, 1145-1149.

291. Chang, W.-S., D. F. Martin, M. Small, Use of model compounds to study removal of pharmaceuticals using Octolig® Technol Innov., **2010,** 1*2*, 71-77.

292 Chang, W.-S., D. F. Martin, M. Small, Removal of Selected Pharmaceuticals Using Octolig®, Technol Innov., **2010,** *12*,143-152.

293. Martin, D. F. and D. Franz. Comparison of Anion removal Capacities of Octolig® and Cuprilig, J. Environ. Sci. Hlth, Part A., **2011**, *46*, 1619-1624.

294. Martin, D. F. and N. Nabar , Studies on the Removal of Lissamine Green from Soil and Comparison with Contemporary Approaches, J. Environ. Sci. Hlth, Part A. **2012**, *47*, 260-266.

295 Martin, D.F. and C. McCane, Evaluation of the Removal of Aqueous Halides from Aqueous Media by Octolig®, Florida Scient. **2012,** *75*, 100-104.

296. Thatcher, K. L. and D. F. Martin, Growth of *Lyngbya majuscula* in Crystal River Water Treated with Octolig® , Florida Scient. **2012**, *75*, 63-70,

297. Martin, D. F. and K. Bidani, Deficit and Surplus Data for the Kamlet Laboratories , 1941-1955, Bull. Hist Chem. **2012,** *37***,** 96-101 **.**

298. Alessio, R. J., X. Li, and D. F. Martin, Removal of BPA model compounds and related substances by means of column chromatography using Octolig®. J. Environ. Sci. Hlth, Part A, **2012**, *47*, 2198-2204

299. Martin, D.F. and B.A. Reiger, Kamlet Laboratories and Clinitest --- Idea to Product Tech. Innov. **2013**, 15, 81-86.

300. Martin, D. F. What Might Have Happened if the America Invents Act had Been a Law in 1886 . Tech. Innov. **2012 ,***14*, 293-298.
Reprinted in : Inventors Digest, **2013**, 29(4), 30-36.

301. Martin, D. F., R. J. Alessio, and C.H. McCane, Removal of synthetic food dyes in aqueous solutions by Octolig®, J. Environ. Sci. Hlt, Part A. **2013**, *48*, 495-500.

302. Franz, D. M. and D. F. Martin**,** Enhanced removal of aqueous BPA Model Compounds Using Metalloligs, J. Environ. Sci. Hlt, Part A. **2014,** *49*, 307-312.

303. Martin, D. F. and B. B. Martin, Jonas Kamlet Patents Dealing with Food and Food Additives. Technol. Innov. **2014 ,** 16, 45-53.

304. Martin, D.F. and B. B. Martin, The Kamlet Laboratories client companies and lessons learned. Technol. Innov. **2014,** *16*, 137-143.

305.Martin, D. F. and B. B.Martin, Non-existent compounds as a guide to innovation Technol. Innov. **2014,** *16*, 271-276.

306. Martin, D. F. and Autumn S. Thompson, The many roles of Jonas Kamlet, pioneering chemistry consultant. Technol. Innov. **2015,** *17*, In press

307. Martin, D. F., T. Sehgal, and T. Word, Removal of pain-relieving drugs from aqueous solutions using Octolig® and metalloligs. J. Environ. Sci. Hlth, Part A., **2015**, *50*, 788-793.

308. Martin, D.F., J. Mojarna Martin, and Tarah.A. Word, Removal of selected NSAIDs (nonsteroidal anti-inflammatory drugs) in aqueous samples by Octolig®. J. Environ. Sci. Hlth, Part A., **2015,** accepted.

309. Martin, D. F. and B. B. Martin Five women who worked for Alfred Werner, Bull Hist. Chem. accepted

PUBLICATIONS

Review Articles

1. "Metal Derivatives of Ketoimine and Aldimine Compounds", D F. Martin, *In Preparative Inorganic Reactions* (W. L. Jolly, ed.), Interscience Publishers, New York, 1964, Chap. 3.

2. "The Coordination Chemistry of Yttrium and the Rare-Earth Metal Ions", T. Moeller, D. F. Martin, L. C. Thompson, R. Ferrus, G. R. Feistel, and W. J. Randall, *Chem. Revs., 65,* 1-50 (1965).

3. "Preparation of Metal Derivatives of β-Ketoimines", D. F. Martin and E. J. Olszewski, *Inorganic Syntheses, VIII,* 46-52 (1966).

4. "Coordination Chemistry", D. F. Martin, 1966 Yearbook, McGraw-Hill *Encyclopedia of Science and Technology,* 155-157.

5. "Organometallic-Chelate Compounds: Organometallic Ions as Central Metal Ions", D. F. Martin, *Adv. Chem. Ser., 62,* 55-564 (1967).

6. "Coordination Chemistry of the Oceans", D. F. Martin, Adv. *Chem. Ser., 67,* 255-269 (1967).

7. "Laboratory Culturing of the Florida Red Tide Organism, *Gymnodinium breve*. Role in Environmental Studies", G. A. Brydon, D. F. Martin, and W. K. Olander, *Environm. Lett., 1,* 235-244 (1971).

8. "Chemistry of the Sea", D. F. Martin, *Quart. J. Fla. Acad. Sci., 34,* 175-186 (1971, 1972).

9. "Marine Bioactive Agents: Chemical and Cellular Correlates", M. T. Doig, III, D. F. Martin, and G. M. Padilla, *In Marine Pharmacognosy* (D. F. Martin and G. M. Padilla, eds.), Academic Press, New York, Chap. I, pp. 1-35 (1973).

10. "Interactions of Prynesium with Erythrocyte Membranes", G. M. Padilla and D. F. Martin, *In Marine Pharmacognosy* (D. F. Martin and G. M. Padilla, eds.), Academic Press, New York, Chap. IX, pp. 265-296 (1973).

11. "Lithium and Mental Health", M. T. Doig, III, M. G. Heyl, and D. F. Martin, *J. Chem. Educ., 50*, 343-344 (1973).

12. Implications of Metal-Organic Compounds in Red-Tide Outbreaks", D. F. Martin and B. B. Martin, *In Trace Metals and Metal Organic Interactions in Natural Waters* (P. C. Singer, ed.), Ann Arbor Science Publishers, Chap. 13, pp. 339-362 (1973).

13. "Some Physiological Properties of Dinoflagellate Toxins", D. F. Martin and G. M. Padilla, *In Physiologically Active Compounds from Marine Organisms* (H. J. Humm, ed.), Chap. 8, pp. 151-173, Marcel Dekker, Inc., New York (1974).

14. Studies of Toxins from Florida Red Tide Outbreaks", D. F. Martin and B. B. Martin, *Proc. First Int.Conf.ToxicDinoflagellate Blooms*, 287-298 (1975).

15. "Toxins and Bioactive Compounds in the Marine Environment", G. M. Padilla and D. F. Martin, *A.C.S. Symp. Ser., 18*, 596-607 (1975).

16. "Red Tide, Red Terror: Effects of Red Tide and Related Toxins", D. F. Martin and B. B. Martin, *J. Chem. Educ., 53*, 614-617 (1976).

17. "Iron Biogeochemistry and Aging", *In The Biomedical Role of Trace Elements in Aging* (J. Hsu, R. L. Davis, and R. W. Neithamer, eds.), Proceedings of a Conference, April 28-30, 1976, Eckerd College Gerontology Center., St. Petersburg, FL, pp. 145-160 (1976).

18. "Clinically Significant Constituents: Cholesterol", D. F. Martin and T. C. Hartney, *J. Chem. Educ., 55*, 239-241 (1978).

19. "Seeking 'Super Hyacinths'", T. N. Cooley and D. F. Martin, *J. Environ. Sci. Health, A13*, 469-479 (1978).

20. "Control of Macrophytic Growth by Naturally Produced Substances", P. M. Dooris and D. F. Martin. *In Weed Control Methods for Recreation Facilities Management* (E. O. Gangstad, ed.), CRC Press, Boca Raton, FL, 1982, Chap. 3, pp. 61-76.

21. "Why Don't We Have More Red Tides in Florida?", D. F. Martin, *J. Environ. Sci. Health, A18*, 685-700 (1983).

22. "Isozymes in Studies of Aquatic Plants", R. P. Wain, W. T. Haller, and D. F. Martin, *J. Aquat. Plant Manage., 23*, 42-45 (1985).

23. "Studies of Allelopathic Substances from a Marine Alga", R. E. Moon and D. F. Martin, *In* (A. C. Thompson, ed.) *Chemistry of Allelopathy ACS Symp. Ser., 268*, 371-380 (1984).

24. "Studies of Naturally Occurring Hydrilla Growth Inhibiting Substances", P. M. Dooris and D. F. Martin, *In* (A. C. Thompson, ed.) *Chemistry of Allelopathy ACS Symp. Ser., 268*, 381-386 (1984).

25. "The Challenge of Herbicides for Aquatic Weeds", D. F. Martin and B. B. Martin, *J. Chem. Educ., 62*, 1006-1007 (1985).

26. "Control of Monospecific Dinoflagellate Blooms in Florida: An Alternative View", B. B. Martin, D. F. Martin, and W. H. Taft, *J. Environ. Sci. Health, 23*, (1) 35-39 (1988).

27. "Will I have Enough?", D. F. Martin, *CHEMTECH, 20*, 646-648 (1990).

28. "Chemical Hazards in the Home/Workplace: Wood and Woodworkers", D. F. Martin, *Fl. J. Public Hlth. , II* (3) 25-26, 31 (1990).

29. Chemical Hazards in the Home/Workplace: Plywood and Phenol-Formaldehyde Resins", D. F. Martin, *Fl. J. Public Hlth. III* (1), 19-22 (1991).

30 "The Cabomba Color Problem", D. F. Martin and R. P. Wain, *Aquatics, 13* (1), 17 (1991).

31. "Chemical Hazards in the Home/Workplace: The Dangers of Calcium Hypochlorite" D. F. Martin and R. F. Benson, *Fl. J. Public Hlth.,* IV (1,2); 31-34 (1992).

32. "Aquashade7, an Annotated Bibliography,", D. F. Martin and B. B. Martin, *Florida Scient. , 55*, 264-266 (1992).

33. "Chemical Hazards in the Home/Workplace: An OTC that Slipped Through the Cracks," D. F. Martin, *Fl. J. Public Hlth.,* IV (3), 21-24 (1992).

34. "Coordination Chemistry of the Environment", Chapter 2. *In Facets of Coordination Chemistry* (B. V. Agarwala and K. N. Munshi, eds.), World Scientific Publication Co., London.1993.

35. "Studies of the Natural Control of Hydrilla in Florida", P. M. Dooris and D. F. Martin, *Aquatics, 15*(1), 17-29 (1993).

36. "Magnesium--A Nuisance Element", R.F. Benson and D.F. Martin, *Phosphorus and*

Potassium. May-June pp. 34-36 (1994).

37. "A Coordination Model of Metal-Ion Interactions with Waterhyacinth Plants", D.F. Martin, Pp. 418-426. In: G.B. Kauffman (ed), *Coordination Chemistry: A Century of Progress*, A.C.S. Sym. Ser. No 565 (1994).

38. "Where Have All the Princes Gone?" D.F. Martin, B.B. Martin, and P.M. Dooris, *Aquatics*, 16(4) p. 16-18 (1994).

39 "An Annotated Bibliography of *Lyngbya*" D. F. Martin, B. B. Martin, E. D. Gross, and K. Brown, *Florida Scient. ,57*, 75-87 (1994).

.

40 "Using Magnetic Fields to Prevent Scale" R. F. Benson, R. K. Carpenter, B. B. Martin, and D. F. Martin,*Chemtech*, 24 (4), 34-38 (1997).

41 "Management of the Florida Red Tide --Revisited." D. F. Martin and W. H. Taft, *Florida Scient. 61* 10-16 (1998).

42. "Annotated Bibliography on Allelopathic Properties of Cattails, *Typha spp*." M. T. Gallardo, B. B. Martin, and D. F. Martin, *Florida Scient*. *61*, 52-58 (1998).

43. "Why Cattails Spread in Florida Waters," M. T. Gallardo, B. B. Martin, and D. F. Martin, *Aquatics*, *19*(4), 4,6,8-9 (1998).

44. "Mitigation of Harmful Algal Blooms: Annotated Bibliography, 1988-1997,"E.Pérez and D. F. Martin,
Florida Scient. 62, 115-127 (1999).

45. "Remediation of Selenium Contamination by Plants and Microbes: An Annotated Bibliography", K. M. Carvalho, M. T. Gallardo, M.J .McGettigan, and D.F. Martin, *Florida Scient*., 63, 133-141 (2000).

46. "Phytotoxic Compounds from *Typha domingensis* P." M. T.Gallardo-Williams and D. F. Martin *In:* "Chemical Ecology of Plants: Allelopathy in Aquatic and Terresterial Ecosystems," Inderjit and Azim U. Mallik (eds), Birkhauser Verlag AG, Switzerland. Pp 57-72 (2002).

47. Martin, D. F. and B. B. Martin "Herbicides" *in;* Lagowski, J. J.(ed) Chemistry : Foundations and Applications, 4 vols, New York: Macmillian Reference USA, 2004.

48. Maleh, H. K. , K.M. Carvalho-Knighton, and D. F. Martin RDX Properties as a Guide to Remediation *Florida Scient.* 73 (3), 249-265 (2009).

49. Martin, D. F. and B. B. Martin. From the Editors: That's Thirty *Florida Scient.***2010,** 73 (3),

266-267.

50. Martin, D. F. D. R. Ward, B. B. Martin, Agricultural Pharmaceuticals In The Environment. A Need For Inventiveness, Technol, Innov. **2010**, *12* (3), 129-141.

51 Martin, D. F.. B. B. Martin. R. L. Alldredge, Chemical Engineer, Inventor, Entrepreneur , Technol. Innov., **2011**, *13*, 203-212

52. Martin, D. F., The Race for Cheap Aluminum. Hall vs Héroult, Technol. Innov., **2011**, *13*, 233-238.

53. Martin, D. F. and B. B, Martin. Polycarbonates from Bisphenol A. A Good Invention Gone Awry? Technol. Innov. **2012,** *14*, 7-15.

54. Martin, D. F. , Chromatographic Separations with Selected Supported Chelating Agents, In: Column Chromatography D.F. Martin and B. B. Martin, eds, InTech Europe, Rijeka, Croatia

PUBLICATIONS

Miscellaneous

1. "Coordination Polymers", W. C. Fernelius, M. Shamma, N. R. Garofano, D. E. Goldberg, D. F. Martin, and F. D. Thomas, III. Wright Air Development Center Tech. Report. 56-203, Part II, ASTIA Document No. AD 142191, The Pennsylvania State University, December 1957.

2. "Coordination Polymers", W. C. Fernelius, M. Shamma, L. A. Davis, D. E. Goldberg, B. B. Martin, D. F. Martin, F. D. Thomas, III. Wright Air Development Center Tech. Report 56-203, Part III, ASTIA Document No 155525, The Pennsylvania State University, May 1958, p. 78.

3. "cis-Bromoamminebis(ethylenediamine)cobalt(III) Bromide, *cis*- and *trans*- Aquoammine bis(ethylene -diamine)cobalt(III) Bromide, tr*ans*-Aquoammine--bis-(ethylenediamine)-cobalt(III) Nitrate", M. L. Tobe and D. F. Martin, *Inorganic Syntheses, VIII*, 198-202 (1966).

4. "Nickel(II) Acetylacetone Imide", A. W. Struss and D. F. Martin, *Inorganic Syntheses, VIII*, 232-234 (1966).

5. "Bis(4-imino-2-pentanonato)Copper(II) and Bis(3-phenylimino-1-phenyl-butane-1-ono)Copper(II)", A. W. Struss and D. F. Martin, *Inorganic Syntheses, IX*, 2-4 (1967).

6. "Bis(benzoylacetono)diphenyltin", W. H. Nelson, W. J. Randall, and D. F. Martin, *Inorganic Syntheses, IX*, 52-55 (1967).

7. "Toxicity Project", D. F. Martin, *U.S. Fish and Wildlife Service Circular 257* (1967).

8. "Toxin Research", D. F. Martin, *U.S. Fish and Wildlife Service Circular 290*, pp. 15-16 (1968).

9. "Statement Presented in Behalf of Florida Section, ACS at Florida Public Hearings, National Estuarine Pollution Study", *Proceedings, vol. 1*, pp. 100-104 (1968).

10. "The Sea -- What's in it for Us?" *Florida Accent*, pp. 4-5, *The Tampa Tribune*, February 2, (1969).

11. "Toxin Research", D. F. Martin, *U.S. Fish and Wildlife Service Circular 313*, p. 22 (1967).

12. "Variation of Selected Trace Metals in Some West Florida Streams", D. F. Martin, D. T. Doig, III, and R. H. Pierce, Jr., Preprints of papers presented at the 158th National Meeting, ACS Division of Water, Air, and Waste, Vol. 9, No. 2, pp. 124-127 (1969).

13. "Interactions of *Prymnesium Parvum* Toxin with Erythrocyte Membrane", D. F. Martin and G. M. Padilla, Papers presented at the Meeting of the International Society of Toxicology, 1972 General Meeting, Darmstadt, Germany, Goldman Press, Munich.

14. "Pollution of Sea Water", D. F. Martin, *In Chemistry in the Two-Year College*, 1972, No. 1, pp. 66-69. Committee on Chemistry in the Two-Year College, Division of Chemical Education, ACS.

15. "Applications of Coordination Chemistry to Some Contemporary Problems in Biology", *Proc. XVI Intl. Conf. Coord. Chem., s. 20* (1974).

16. "The Iron Index as a Guide for Predicting Red Tides", D. F. Martin, *Fla. Mar. Res. Publ., 8,* 7 (1975).

17. "Characteristics of Toxins from the Florida Red Tide Organism *Gymnodinium breve* Davis", D. F. Martin, *Fla. Mar. Res. Publ., 8,* 12 (1975).

18. "Chemists 'At Sea'", D. F. Martin, *FLACS*, June 1975 pp 4-6. Florida Award Banquet Address.

19. "Factors in the Outbreak and Control of Red Tides", G. M. Padilla and D. F. Martin, *Environ. Lett., 9* (2) 99-101 (1975).

20. "A Mechanical Demonstration of Approach to Equilibrium", D. F. Martin, *J. Chem. Educ., 53*, 634 (1976).

21. Book Review: "Chemistry of the Atmosphere", (by M. J. McEwan and L. F. Phillips), D. F. Martin, *J. Chem. Educ., 54*, A346-A347 (1977).

22. "The Author Response Form", D. F. Martin, *CHEMTECH, 8*, p. IBC ("The Last Word") (1978).

23. "Analysis of Red Tide Cytolytic Agents", R. E. Moon and D. F. Martin, *Altex Chromatogram, 2*, (2) (1979).

24. "Analysis of Naturally-Occurring Aquatic Plant Management Chemicals", D. F. Martin, Preprints of Papers, *Division of Environmental Chemistry, 19* (1), 54-55 (1979).

25. "Formation Constants, Microcomputers, and the Physician", B. B. Martin and D. F. Martin, *Physicians Microcomputer Report, 3* (1), 43-45 (1980).

26. "Effects of the Toxin of Red Tide, *Ptychodiscus brevis* (PB), on Canine Trachael Smooth Muscle", S. Asai, J. Krzanowski, W. Anderson, D. F. Martin, R. Lockey, S. Bukantz, and A. Szentivanyi, Abstracts of the American Academy of Allergy, thirty-seventh Annual Meeting, San Francisco, March 7-11, 1981, Abstract Number 80, p.20.

27. "Study of Naturally Occurring Hydrilla Inhibitor", D. F. Martin and P. M. Dooris, Proceedings of 15th Annual Meeting, Aquatic Plant Control Research Planning and Operations Review, ACRP, U. S. Army Engineer Waterways Experimental Station, Miscellaneous Paper A-81-3, pp. 283-287 (1981).

28. "Structural Studies of a Naturally Occurring Hydrilla Inhibitor", D. F. Martin, Proceedings, 16th Annual Meeting, Aquatic Plant Control Research Planning and Operations Review, ACRP, U. S. Army Engineer Waterways Experimental Station, Miscellaneous Paper A-82-3, pp. 64-67 (1982).

29. "Author Response Form", D. F. Martin, *CHEMTECH, 8*, p. IBC ("The Last Word") (1978). Reprinted: in *Clinical Chemistry, 29*, 413 (1983).

30. "Activity of Naturally Occurring Hydrilla Growth Inhibitors", J. Barltrop and D. F. Martin, Proc. 17th Annual Meeting Aquatic Plant Control Research Program, U. S. Army Engineer WES, Miscellaneous Paper A-83-3, pp. 124-128 (1983).

31. Book Review: "Introduction to Chemistry", 4th Edition, T. R. Dickson, *J. Chem. Educ., 61*, A113 (1984).

32. Book Review: "Advanced Inorg. Chem.", 2nd Edition, McDaniel et al., *J. Chem. Educ.,*

61, A185 (1984).

33. "From the Editors", D. F. Martin and B. B. Martin, *Florida Scient., 47* (4), 267 (1984).

34. "PDA: The Not-So-New Approach to Aquatic Weed Control", J. Barltrop, B B. Martin, and D. F. Martin, *Aquatics, 8* (1), 5,8 (1986).

35. Book Review: "Water Resources: Atlas of Florida", E. A. Fernald and D. J. Patton, eds., *Florida Scient., 49* (1), 54-55 (1986).

36. "The Editors Response Form", D. F. Martin, *CHEMTECH*, February, p. IBC (1986).

37. Book Review: "Compendium of Safety Data Sheets for Research and Industrial Chemicals", L. H. Keith and D. B. Walters, eds., *Florida Scient., 49*, 191-192 (1986).

38. Book Review: "Patent It Yourself", D. Pressman, *Florida Scient., 50* (1), 12 (1987).

39. Book Review: "Aquatic Plants of Oklahoma I: Submersed, Floating-leaved and Selected Emergent Aquatics", E. N. Nelson and R. W. Couch, *Florida Scient., 50* (1), 33-34 (1987).

40. "From the Chairman, -- The 85/15 Law", D. F. Martin, *FLACS, 39* (2), (1986).

41. "Great Plans for Society Meeting", D. F. Martin, *Newsletter, No. 22*, The Aquatic Plant Management Society, July 1986., p. 1.

42. "From the Chairman", D. F. Martin, *FLACS, 39* (3), (1986).

43. "Editorial: Now We are Fifty", D. F. Martin and B. B. Martin, *Florida Scient., 50*, 39-40 (1987).

44. Book Review: "The Visual Display of Quantitative Information", E. R. Tufte, *Florida Scient., 50* (2), 84 (1987).

45. "Presidential Address", D. F. Martin, *J. Aquat. Plant Manage., 26*, 1-2 (1988).

46. "Allelopathy", D. F. Martin, *1988 McGraw-Hill Yearbook of Science and Technology*, pp. 16-18.

47. Book Review: "Florida Aquatic Habitat and Fishery Resources", W. Seaman, Jr., Editor, *Florida Scient., 51* (1), 55 (1988).

48. "The Difficulty of Retrieving Useful Information", D. F. Martin, Letter to the Editor, *J. Chem. Educ., 66*, 448 (1989).

49. Book Review: "Compendium of Safety Data Sheets for Research and Industrial Chemicals", L. H. Keith and D. B. Walters, Editors, VCH Publishers, *Florida Scient., 52*, 300 (1989).

50. "Prolificity", J. Follman and D. F. Martin, *The Pen*, September/October 1989, pp. 5-6 (*The Pen* is the Post Secondary Education Network, a newsletter of Division of J. American Educational Research Association).

51. Lecture Notes: "The Chemistry of Toxic Substances", D. F. Martin, Pro-Copy, Tampa, 1987, 1990, 58 pp. (for CHM 6938).

52. Lecture Notes: "Notes and Assignment Sheets for CHM 4060: Use of the Chemical Literature", D. F. Martin, Pro-Copy, Tampa, 1990, 51 pp. (four previous versions also published).

53. Lecture Notes: "Specific Objectives and Selected Study Aids for CHM 2030: Introduction to General, Organic, and Biochemistry", D. F. Martin, Pro-Copy, Tampa, 1989, 35 pp.

54. Lecture Notes: "Significant Elements", D. F. Martin, Pro-Copy, Tampa, 1989, 84 pp.

55. "Environmental Contamination of Coral Reef Areas", R. S. Braman, D. F. Martin, and R. N. Strom, Principal Investigators, Final Report, STAR Project 88-009, Institute of Government, Tallahassee, FL, 1989, 44 pp. Copies of report on file with the Institute and with Florida Legislative Library.

56. "Strategic Assessment of Florida's Environment (SAFE): Part I, Environmental Status and Conditions Report", D. F. Martin (USF) and C. D. Cooper (UCF) Principal Investigators, Florida Department of Environmental Regulation, Tallahassee, FL, 1989, iii +81 pp.

57. "Strategic Assessment of Florida's Environment (SAFE): Part II, Environmental Measurement System", D. F. Martin (USF) and C. D. Cooper (UCF) Principal Investigators, Florida Department of Environmental Regulation, Tallahassee, FL, 1989, 202 pp.

58. Lecture Notes: "Selected Readings for Chemistry of the Less Familiar Elements", D. F. Martin, Kinko's, Tampa, 1989, 73 pp.

59. "Open-House/Poster Session Equipment", D. F. Martin and S. W. Schneller, *J. Chem. Educ., 67*, 326 (1990).

60. "Intermediate Inorganic Chemistry: Notes and Review Questions", D. F. Martin, Pro-Copy, Tampa, 1990.

61. "Chemical Literature: Notes and Selected Assignments", D. F. Martin, Pro-Copy, Tampa, 1990.

62. Book Review: "Biology, Epidemiology, and Management of *Pyrodinium* Red Tides", G. M.

Hallegraeff and J. L. Maclean, *J. Coastal Res.*, Accepted.

63. "Medical History and Quality Assurance for Elderly and Hispanics", T. C. Hartney, D. F. Martin, and R. J. Wimmert, Proceedings of the Ninth Southern Biomedical Engineering Conference, Miami; Nov. 17-18, 1990.

64. Book Review: "Science Literacy, Policy, Evaluation, and Other Assays", by Eugene Garfield: D. F. Martin, *Florida Scient., 54* (2), 84 (1991).

65. Book Review: "Hummingbirds," by Crawford H. Greenewalt: D. F. Martin and B. B. Martin, *Florida Scient., 55* (1), 37 (1992).

66. "From the Editors: (We May Run the Train, But We Don't Own the Railroad)", D. F. Martin and B. B. Martin, *Florida Scient., 54* (3/4), 134 (1991).

67. Book Review: "Creativity, Delayed Perception, and Other Essays", by Eugene Garfield: D. F. Martin, *Florida Scient., 55* (2), 111 (1992).

68. Book Review: "Journalogy, KeyWords Plus™, and Other Assays", by Eugene Garfield: D. F. Martin, *Florida Scient., 55* (3), 135 (1992).

69. "Hands-on-Models for Close Packing", D. F. Martin, *J. Chem Educ., 69,* 495 (1992).

70. "From the Editors," D. F. Martin and B. B. Martin, *Florida Scient., 55,* 267 (1992).

71. Book review: "Literature of the Physical Sciences", by Alice Primack: D. F. Martin, *Florida Scient. 56,* (6) (1993).

72. Book review: "Atlas of Florida," by Edward Fernald and Elizabeth D. Purdum (eds): D. F. Martin, *Florida Scient. 56,* 122 (1993).

73. Book review: "Science Reviews, Journalism, Inventiveness and Other Essays," by Eugene Garfield: D. F. Martin, *Florida Scient., 56,* 128 (1993).

74 "Obituary: James G. Potter", Dean F. Martin and Barbara B. Martin, *Florida Scient., 56,* 251 (1993).

75. "Extraction of Magnesium from Dolomite-Rich Phosphate Rock", Robert F. Benson and Dean F. Martin, Papers presented at 18th Annual Conference Central Florida Section, AIChE, Clearwater, May 27-28,. pp 1-12 (1994).

76. "Letter to the Editor", D.F. Martin and B.B. Martin, *Florida Scient., 57,* 64 (1994).

77. Book Review: "Of Nobel Class, Women in Science, Citation Classics, and Other Essays", by

E. Garfield, *Florida Scient., 57*, 186 (1994).

78. Book review: "Concepts and Models of Inorganic Chemistry: Third Edition", By B. Douglas, D. McDaniel, and J. Alexander: D. F. Martin, *J. Chem Educ., 71*, A239 (1994).

79. Book review: "Technical Editor's Handbook", By G. Freedman and D.A. Freedman: B.B. Martin and D.F. Martin, *Florida Scient., 58*, 64 (1995).

80. "Memorizing the Periodic Table," D. F. Martin , Grinnell Magazine, *27*(4), 20(1995).

81. " When Bad News is Good News: Searching for Lyngbya Management," E. D.Gross and D. F. Martin, *Aquatics*,18 (1) 14-17 (1996).

82. Book review:"Introduction to Chemistry, Seventh Edition," by T. R. Dickson, *J.Chem. Educ.* , *73*, A174 (1996).

83. "From the Editors," B. B. Martin and D. F. Martin , *Florida Scient*. 59(4), 278 (1996).

84. "Diamagnetism and Scale, Letter to Editor," R. F. Benson, R. K. Carpenter, B. B. Martin, and D. F. Martin, *Chemtech*, 27 (7) 2 (1997).

85. "Removal of Unwanted Metals and Materials in Phosphoric Acid by Means of Magnetic Separation," D. F. Martin, R. F. Benson with C. Wang, M. Derby, M. T. Gallardo, B. B. Martin, and E. Pérez, Florida Institute of Phosphate Research, Pub. No. 01-116-136.

86. Book review: "Crystal Growth in Gels" by Heinz K. Henisch, *Florida Scient*. 61, 140 (1998)

87. "List of Presidents of the Florida Academy of Science," B. B. Martin and D. F. Martin *Florida Scient*., *62* (1), 83-83 (1999).

88. Book review: "Writing in the Sciences" by Ann M.Penrose and Steven B. Katz *Florida Scient.* 62 (3):
152 (1999).

89. Book review: "Water Resources Atlas of Florida" edited by Edward A. Fernald and Elizabeth D. Purdum, *Florida Scient. 62*, 236 (1999).

90. "Lead Accumulation by Three Aquatic Plants, " M. T. Gallardo, R. F.Benson, and D. F. Martin, ACS Division of Environmental Chemistry Preprints of Extended Abstracts, *39*(2),46-47 (1999).

91. "A Comparative Analysis of Environmental Impacts: Phosphogypsum *versus* Borrow Pits,"

P.M. Dooris and D. F. Martin with Scott Emery, David E. Sumpter, Melissa Derby, Maria T.Gallardo, and Barbara B. Martin. Final Report. Submitted to Florida Institute of Phosphate Research,December 2000. 96 pp.

92. Book review: "Richard Archbold and the Archbold Biological Station," Roger A.Morse, University Presses of Florida, Gainesville. *Florida Scient*, 63, 274 (2000)

93. "Hemolytic Assays of *Nannochloris spp*.,a Potential Red-Tide Control Agent," M. Derby, D. F.Martin, and J.J.Krzanowski. Pp.93-95 in Preprints of Extended Abstracts, Vol 40 (21), Division of Environmental Chemistry, American Chemical Society, presented at Annual meeting August 20-24, 2000.

94. "Selenium Supplementation of Agricultural Crops," Kathleen M. Carvalho, M. T. Gallardo-Williams, R. F. Benson, and D. F.Martin**,** Preprints of Extended Abstracts of papers presented before the Environmental Division of the American Chemical Society, Chicago, IL August 26-30,2001, Vol.41(2) 92-96**.**

95 "Heavy Metal Removal Studies Using Coordinating Agents Supported on Silica Gel," Craig A. Bowe, Robert F. Benson, and D. F. Martin, Preprints of Extended Abstracts of papers presented before the Environmental Division of the American Chemical Society, Chicago, IL August 26-30, 2001,Vol 41(2) 135-138.

96. "Comparison of Enriched Soil and Sandy-Soil in Supplementation of *Latuca sativa*,"Kathleen M. Carvalho, M. T. Gallardo-Williams, R. F. Benson, and D. F.Martin**,** Preprints of Extended Abstracts of papers presented before the Environmental Division of the American Chemical Society, Chicago, IL August 26-30,2001, Vol. 41(2) 185-188**.**

97. "Allelopathic Interation of *Nannochloris sp.* on the red Tide organism *Gymnodinium breve*,"M. Derby, M. Galliano, D. F.Martin, and J.J.Krzanowski, Preprints of Extended Abstracts of papers presented before the Environmental Division of the American Chemical Society, Chicago, IL August 26-30, 2001, Vol. 41(2) 243-248.

98 "Heavy Metal Removal Studies Using cooridnating Agents Supported on Silica Gel," Craig A. Bowe, Robert F. Benson, and D. F.Martin, Preprints of Extended Abstracts of papers presented before the Environmental Division of the American Chemical Society, Chicago, IL August 26-30, 2001,Vol.41(2) 135-138.

99. "Comparison of Enriched Soil and Sandy-Soil in Supplementation of *Latuca sativa*,"Kathleen M. Carvalho, M. T. Gallardo-Williams, R. F. Benson, and D. F.Martin**,** Preprints of Extended Abstracts of papers presented before the Environmental Division of the American Chemical Society, Chicago, IL August 26-30,2001, Vol. 41(2) 185-188**.**

100. "Allelopathic Interation of *Nannochloris sp.* on the red Tide organism *Gymnodinium breve*,"M. Derby, M. Galliano, D. F.Martin, and J.J.Krzanowski, Preprints of Extended Abstracts of papers presented before the Environmental Division of the American Chemical Society, Chicago, IL August 26-30, 2001, Vol. 41(2) 243-248.

101. "From the Editors –II,." D. F. Martin and B. B. Martin, *Florida Scient. 65,* 146 (2002).

102. " Removal of Cadmium(II), Lead(II), and Nickel(II) Using Silica Gel-Supported Amines and Mercaptans," Preprints of Extended Abstracts of papers presented before the Environmental Division of the American Chemical Society, Orlando, April 7-11, 2002: Vol 32 No 1., 152-158.

103. Book Review: "Alchemy and Alchemists" by C. J. S. Thompson,; D. F. Martin, *Florida Scient* 65, 224 (2002).

104. Book Review: " Radioactive Substances" by Marie Curie, D. F. Martin, *Florida Scient., 66,* 67 (2003).

105. "Herbicides" D. F. Martin and B. B. Martin, *in Encyclopedia of Chemistry* (J. J. Lagowski, Editor-in-Chief), accepted

106. "Extraction of Cadmium(II), Lead(II), Silver(I), and Copper(II) Using Silica-supported Amines," C. Bowe, D. F. Martin, and R. F. Benson. Preprints of Extended Abstracts of papers presented before the Environmental Division of the American Chemical Society, New Orleans, LA March 23-27, 2003: Vol 43No 1., 962-966.

107. Book Review: "The Chemical History of a Candle" by Michael Faraday, Florida Scient. 66, 252 (2003).

108. "The Department of Chemistry History Project" D. F. Martin, includes: Chapter 1,"Early Days"; Chapter 2,"Changes and Detours"; Chapter 3, "Buildings"; Chapter 4, "A time of Growth"; Chapter 6, " USF Chemistry Anecdotes" published on Department web page in 2002.

109. Martin, D. F. (ed.) "USF Chemistry News" vol 1 (2003) No 1 (April); No. 2 (September), No. 3 (November). Other issues followed in later years.

110 Martin, D. F., M. E. McKenzie, C. Bowe, and D. P. Smith . 2003 . Uptake of Phosphate and Nitrate Using Laboratory Cultures of *Lemna minor* L. Under Controlled Conditions. Final Report submitted to Stormwater Management Sections, Public Works Department, Hillsborough County. 50 pages.

111. Book Review: " From Raindrops to Volcanoes" by Duncan C. Blanchard, *Florida Scient.* 67, 246 (2004)

112. Obituary :Joseph L Simon , D. F. Martin and B. B. Martin (eds) *Florida Scient 67 246 (2004)*

113. Book Review: "The Curious Life of Robert Hooke" by Lisa Jardine, *Florida Scient.*, 68, 215 (2005)

114. Book Review: "Experimental Researches in Electricity" by Michael Faraday," *Florida Scient.*, 68, 64 (2005)

115. Book Review: "Florida Butterfly Caterpillars and Their Host Plants" by Marc C. Minno, Jerry F. Butler, and Donald W. Hall

116. "Our Academic Ancestors" summary of biographies of Claude Louis Berthollet, J. J. Berzelius and Antoine François de Fourcroy for the Department Academic genealogies on the Department Web page

117. From the Editors: "That's Thirty" Dean F. Martin and Barbara B. Martin, *Florida Scient.* 73(3) (2009).

118. Emery, S. D. F. Martin, D. Sumpter, R. Bowman, R. Paul Lake Surface Area and Bird Species Richness: analyses for Minimum Flows and levels Rule Review, SWFWMD 71pp August 21, 2009

Patents

1. "Method for Ion Exchange Based Leaching of the Carbonates of Calcium and Magnesium From Phosphate Rock," Robert F. Benson and Dean F. Martin, U.S. patent 5500193, March 19, 1996.

2. "Extraction Metals by Mercaptans Attached to Silica Gel by Azeotropic Distillation," Dean F. Martin and Craig A. Bowe. U.S. patent 7.193,114. March 20, 2007.

3. "Removal of Nuisance Anions and Anionic Materials Using Polyalkyleimines suck as Polyethyleneimine. Dean F. Martin, Patent pending

Other –Exhibits

Top Chemists – Biographies of 14 chemists on specially prepared plaques in CHE 201 (Autumn, 2006)

Black History Month – Four chemists and alumni at CHE 205 window (March, 2008)

Women's History Month: Madam C. J. Walker at CHE 201 window (three posters; March, 2008)

Chemists of Note : (eight posters: April, May, 2008)

Chemical Abstracts: (8Posters: June, 2008)