

Ronald A. Martin

Curriculum Vitae

ADDRESS:

Centenary College of Louisiana
Chemistry Department
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EDUCATION:

B.A. Chemistry (1963) Oklahoma City University
Ph.D. Chemistry (1969) University of Oklahoma

POSITIONS HELD:

2003- Albert Sklar Eminent Scholars Chair of Chemistry, Centenary College of Louisiana
2000-2003 Visiting Professor, Chemistry Department, Centenary College of Louisiana
1981-2000 Professor, Department of Chemistry and Physics, LSU in Shreveport
1992,93-99 Chair, Department of Chemistry and Physics, LSU in Shreveport
1992-93 Acting Dean, College of Sciences, LSU in Shreveport
1987-92 Chair, Department of Chemistry, LSU in Shreveport
1975-81 Associate Professor, Department of Chemistry, LSU in Shreveport
1972-75 Assistant Professor, Department of Chemistry, LSU in Shreveport
1971-72 Visiting Instructor, Chemistry Department, LSU in Baton Rouge
1968-71 Instructor and Research Associate, Chemistry Department, University of Kansas

OTHER EXPERIENCE:

2002-2003 BoRSF Grant for Enhanced Capabilities in NMR Spectroscopy at Centenary College, with Ernest W. Blakeney, Thomas M. Ticich, Rosemary Seidler (\$69,234)
2002-2003 BoRSF Grant for Enhancement of Spectroscopy at Centenary College, with Ernest W. Blakeney, Rosemary Seidler, Thomas M. Ticich, (23,000).
2002-2003 BoRSF Grant for Enhancement of Chemical Analysis at Centenary College, with Rosemary Seidler, Thomas M. Ticich, Ernest W. Blakeney (\$52,000)
2001-2002 BoRSF Grant for Enhancement of Environmental Science at Centenary College, with Ernest W. Blakeney, Rosemary Seidler (\$20,000)
1999-2000 BoRSF Grant for Enhancement of Environmental Science at LSU-S, with Wayne A. Gustavson, James D. Goodrich (\$63,000)
1999-1999 LSU-S Watershed Management Institute Initiative, committee member
1998-2000 Biomedical Research Foundation Grant for Organic NMR Research, with Elizabeth Zippi. (\$50,000)
1998-99 Montgomery-Watson and City of Shreveport Contract for Cross Lake Watershed Characterization, Laboratory Director, with Lyn Irish, Robert Kalinsky (\$64,000)
1997-98 BoRSF Grant for Enhancement of Biology and Biochemistry Instruction at LSU-S, with Steven P. Lynch, P.D., Stephanie Aamodt, Alan Abbott. (\$43,000)
1996-99 NSF Academic Research Infrastructure (ARI) Grant for Renovation of Science Research Facilities, with Alfred McKinney, Dalton Gossett, Sharelle Campbell, Cynthia Sisson. (\$1,469,000)
1996-97 Louisiana Board of Regents (LEQSF) Grant for Chemistry Enhancement: Organic Chemistry, with Elizabeth Zippi. (\$120,000)
1996-97 Louisiana Board of Regents (LEQSF) Grant for Chemistry Enhancement: Lower Division Chemistry, with Sharelle Campbell and Wayne Gustavson. (\$50,000)
1995-96 Louisiana Board of Regents (LEQSF) Grant for Environmental Science Enhancement:

- 1993-95 Environmental Analysis, with Sharelle M. Campbell and James D. Goodrich. (\$37,725)
 NSF ILIP Equipment Grant for New Opportunities for HPLC and LC-MS in Chemistry Instruction, with Wayne A. Gustavson and James D. Goodrich. (\$17,471)
- 1993-99 City of Shreveport Cross Lake Watershed Citizens Advisory Committee, member
- 1993-99 Louisiana Department of Environmental Quality Old Citgo Refinery Citizens Advisory Committee, member
- 1993-94 Louisiana Board of Regents (LEQSF) Grants for Chemistry Laboratory Enhancement: Chromatography and Mass Spectrometry, with Wayne A. Gustavson, and James D. Goodrich. (\$40,000)
- 1993-94 Chemistry Laboratory Enhancement: Microscale and FT Infrared Spectroscopy, with Wayne A. Gustavson, and James D. Goodrich. (\$64,106)
- 1990-91 Louisiana Board of Regents (LEQSF) Grant, for access to research instrumentation at the University of Oklahoma (\$3,225)
- 1988-90 NIH AREA Grant for research on New Cardenolides from *Asclepias* (milkweeds), Collaborating Investigator, with Steven P. Lynch, Principal Investigator, LSU-S Department of Biological Sciences. (\$67,053)
- 1988-90 NSF ILIP Equipment Grant for Improvement of Chemistry Instruction with UV-visible Spectrometry, Co-Principal Investigator, with James D. Goodrich, Principal Investigator. (\$14,292)
- 1987-99 Louisiana Universities Marine Consortium (LUMCON), LSU-S Alternate Council Member.
- 1987-99 Caddo Parish Local Emergency Preparedness Committee, member
- 1981-89 LSU in Shreveport, Faculty Research Fund, for research in the chemistry of cardenolides in milkweeds
- 1978-79 American Heart Association, La., Inc. Grant-in-Aid, for research in the synthesis of new fibrinolytic compounds (\$5,200)
- 1978 Project Director, U.S. Department of Energy, Energy Workshop for Science Teachers
- 1976-78 Project Director, National Science Foundation Instructional Scientific Equipment Program for Improvement of Chemistry Instruction at LSU in Shreveport
- 1974-76 Project Director, Petroleum Research Fund, American Chemical Society Grant for undergraduate Chemistry Research
- 1974-75 Research Grant Award, LSU Foundation

CONSULTING:

- 1978-87 Veterans Administration Hospital, Shreveport, Louisiana, Department of Nuclear Medicine
- 1977-80 Review Panelist for Proposals Submitted to American Chemical Society, National Science Foundation, U.S. Department of Energy
- 1977- Analysis of organic materials, pesticides, drugs, etc.

ORGANIZATIONS:

American Chemical Society, International Society of Chemical Ecology, Phytochemical Society of North America, Louisiana Environmental Federation, Sigma Xi Research Society

HONORS:

AMOCO LSU Foundation Excellence in Undergraduate Teaching Award, 1982,
 LSU-S Outstanding Faculty Award, 1985

PUBLICATIONS:

1. Abbott, A.J.; Holoubek, C.G.; Martin, R.A. Inhibition of Na⁺,K⁺-ATPase by the Cardenolide 6'-O-(E-4-Hydroxycinnamoyl)desglucouzarin, *Biochem. Biophys. Res. Commun.* **1998**, 251, 256-9.
2. Gossett, D.R.; Martin, R.A.; Cook, W.L.; An Interdisciplinary Approach to a Biochemical Science Degree,

Small College Creativity, Vol. 3, No. 3, p 43-8 (Spring 1992) published 1995.

3. Lynch, S.P.; Martin, R.A. "Milkweed Host-Plant Utilization and Cardenolide Sequestration by Monarch Butterflies in Louisiana and Texas", *Biology and Conservation of the Monarch Butterfly*, Malcolm S.B.; Zalucki, M., Natural History Museum of Los Angeles County. **1993**, p**107-123**.
4. Martin, R.A.; Lynch, S.P.; Brower, L.P.; Malcolm, S.B.; Van Hook, T. "Cardenolide Content, Emetic Potency, and Thin-Layer Chromatography Profiles of Monarch Butterflies, *Danaus plexippus*, and their Larval Host-Plant Milkweed, *Asclepias humistrata* Walt, in Central Florida", *Chemoecology*. **1992**, 3, 1-13.
5. Martin, R.A.; Lynch, S.P.; Schmitz, F.J.; Pordesimo, E.O.; Toth, S.; Horton, R.Y. "Cardenolides from *Asclepias asperula* subsp. *capricornu* and *A. viridis*, *Phytochemistry*. **1991**, 30, 3935-3939.
6. Martin, R.A.; Lynch, S.P. "Cardenolide Contents and Thin-Layer Chromatography Profiles of Monarch Butterflies and Their Larval Host Plant Milkweed, *Asclepias asperula* in North Central Texas," *J. Chem. Ecol.* **1988**, 14, 291-314.
7. Lynch, S.P.; Martin, R.A. "Cardenolide Contents and Thin-Layer Chromatography Profiles of Monarch Butterflies and their Larval Host-Plant Milkweed, *Asclepias viridis* Walt., in Northwestern Louisiana." *J. Chem. Ecol.* **1987**, 13, 47-70.
8. Lynch, S.P.; Martin, R.A. "Milkweed-Monarch Cardenolide Fingerprints and Larval Host-Plant Utilization on *Asclepias viridis* and *Asclepias asperula* in Louisiana and East Texas." Presented to the Second International Conference on the Monarch Butterfly (MONCON-2), Los Angeles, CA., **1986**.
9. Newkome, G.R.; Martin, R.A. "Chemistry of Heterocyclic Compounds. Part 16. Isomerization of Acetylenic Diols: Di(2-pyridyl)-1-butyn-1,4-diol," *J. Heterocyclic Chem.* **1974**, 11, 831-2.
10. Newkome, G.R.; Martin, R.A.; Bhacca, N. "Chemistry of Heterocyclic Compounds 11. Isomerization of Acetylenic Diols: 1,4-Diphenyl-1,4-Di(2'-pyridyl)-2-butyn-1,4-diol," *Tetrahedron Lett.* **1973**, 2541-4.
11. Martin, R.A.; Landgrebe, J.A. "Acetolysis of 1-Tosyloxy-2,2-dideuteribicyclopropyl," *J. Org. Chem.* **1972**, 37, 1996-8.
12. Bloomfield, J.J.; Martin, R.A.; Nelke, J.M. "The Acyloin Condensation Synthesis of a [4.2.2]-Propellane Derivative," *Chem. Commun.* **1972**, 96-7.