

Suzanne Theresa Mabrouk, Ph.D.

Work Address

Chemistry Department
The Citadel
171 Moultrie Street
Charleston, SC 29409
(843)-953-7788
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Education

University of Massachusetts, Amherst, MA. 01003
Ph.D. in organic chemistry, May 1994.
Thesis: Substitution Reactions of (η^5 -Cyclopentadienyl)Dicarbonylcobalt
Advisor: Dr. Marvin D. Rausch

Wheaton College, Norton, MA. 02766
A.B. Chemistry (major), Mathematics (minor), May 1986.
Thesis: A Study of the Effects of Acid Rain on the Norton Reservoir and Barrowsville Pond
Advisor: Dr. Myrna S. Pearson

Professional Experience

2005-present: Professor of Organic Chemistry, The Citadel, Charleston, SC 29409.
Coordinator of Introductory Chemistry I and II, lab and lecture for non-science majors: met regularly with adjunct faculty teaching course; developed common materials for each course; revised lab manuals annually; coordinated assessment tool for each course; collected and analyzed assessment data for each course.
Courses taught: Introductory Chemistry I and II for non-science majors, Organic Chemistry I and II, and the Chemistry of Art.
Labs taught: Introductory Chemistry II for non-science majors and Organic Chemistry I and II.

1998-2005: Associate Professor of Organic Chemistry, The Citadel, Charleston, SC 29409.
Courses taught: Introductory Chemistry I and II for non-science majors, General Chemistry I for science and engineering majors, Organic Chemistry I and II, and Current Topics in Chemistry: The Chemistry of Art.
Labs taught: Introductory Chemistry I and II for non-science majors, General Chemistry I and II for science and engineering majors, Organic Chemistry I and II, and Current Topics in Chemistry: The Chemistry of Art.

1993-1998: Assistant Professor of Organic Chemistry, The Citadel, Charleston, SC 29409.
Courses taught: Introductory Chemistry I and II for non-science majors, General Chemistry I for science and engineering majors, Organic Chemistry I and II, and Current Topics in Chemistry: Environmental Chemistry.
Labs taught: Introductory Chemistry I for non-science majors, General Chemistry I and II for science and engineering majors, Organic Chemistry I and II, and Advanced Inorganic/Organic Chemistry.

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1987-1993: Organometallic Research Assistant, UMASS, Amherst, MA.
Fall 1992: General Chemistry Laboratory Technician, UMASS.
1987-1993: Research Group Coordinator for Environmental Health and Safety, UMASS.

Summer 1990: Lecturer for Organic Chemistry II, UMASS.
Summer 1990: Supervisor for Organic Chemistry Lab II, UMASS.
Summer 1989: Lecturer/Supervisor for Organic Chemistry Labs I and II, UMASS.
1986-1990: Teaching Assistant for Advanced Organic, Non-majors Organic, one semester Organic, and General Chemistry Labs.
Fall 1990: General Chemistry Department Tutor, UMASS.
1989-1992: Organic Chemistry Private tutor, UMASS.

1985-1986: Environmental Chemistry Research Assistant, Wheaton College.
Summer 1985: Organic Chemistry Research Assistant, MIT.
Summer 1984: Polymer Chemistry Research Assistant, Waters Associates, Milford, MA.
1983-1986: Lab Assistant, Wheaton College.

Honors

C. A. Medberry Teaching Award, The Citadel, 2015.
Sabbatical Leave, The Citadel, 2005-6.
Phi Kappa Phi Honor Society, 2006-present.
C. A. Medberry Research Mentor Award, Summer 2005.
Who's Who Among America's Teachers, 2005, 2002, and 2000.
Citadel Award for CASTLE, Summer 2001 & 2000.
Strathmore's Who's Who, 2000-2001 Millenium Edition.
International Who's Who of Professional and Business Women for 2000.
Marquis Who's Who in the World, 1999.
The World Who's Who of Women, 15th edition.
Who's Who in the World, since 1998.
Who's Who in the South and Southwest, since 1997.
Undergraduate Summer Scholarship for Research in Polymer Science, Polymer Divisions of A.C.S., 1984.

Professional Affiliations

Phi Kappa Phi, since 2006.
Council on Undergraduate Research, 1993-2008.
American Chemical Society (ACS), since 1982.

Refereed Publications

Mabrouk, S. T. Making Useable, Quality Opaque or Transparent Soap. *J. Chem. Educ.* **2005**, *82*, 1534-1537.

Mabrouk, S. T. The Preparation and Testing of a Common Emulsion and Personal Care Product: Lotion. *J. Chem. Educ.* **2004**, *81*, 83-86.

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Mabrouk, S. T. The Periodic Table as a Mnemonic Device for Writing Electronic Configurations. *J. Chem. Educ.* **2003**, *80*, 894-898.

DeRoma, V. M.; Young, A.; Mabrouk, S. T.; Brannan, K. P.; Hilleke, R. O.; Johnson, K. Y. Procrastination and Student Performance on Immediate and Delayed Quizzes. *Education* **2003**, *124*, 40-48.

Mabrouk, S. T.; Hart, W. P.; Rausch, M.D. The Friedel-Crafts Reactivity of (η^5 -Cyclopentadienyl)dicarbonylcobalt. *J. Organomet. Chem.* **1997**, *527*, 43-49.

Mabrouk, S. T.; Rausch, M.D. The Formation and Reaction Chemistry of (η^5 -Benzoylcyclopentadienyl)- and (η^5 -Carbomethoxycyclopentadienyl)(η^4 -tetraphenylcyclobutadiene)cobalt. *J. Organomet. Chem.* **1996**, *523*, 111-117.

Mabrouk, S. T.; Rausch, M.D. Preparation of Triamine(tricarbonyl)chromium- $\text{Cr}(\text{NH}_3)_3(\text{CO})_3$ In *Synthetic Methods of Organometallic and Inorganic Chemistry*. (Herrmann, W. A. and Salzer, A., ed.); Georg Thieme Verlag: New York, **1996**; *1*, pp. 119-120.

Mabrouk, S. T.; Rausch, M.D. Preparation of Vinylferrocene- $\text{Fe}[\eta^5\text{-}(\text{C}_2\text{H}_3)\text{C}_5\text{H}_4](\eta^5\text{-C}_5\text{H}_5)$ In *Synthetic Methods of Organometallic and Inorganic Chemistry* (Herrmann, W. A. and Salzer, A., ed.); Georg Thieme Verlag: New York, **1996**; *1*, pp. 136-137.

Mabrouk, S. T.; Rausch, M.D. Preparation of Dicarbonyl(η^5 -cyclopentadienyl)cobalt- $\text{Co}(\eta^5\text{-C}_5\text{H}_5)(\text{CO})_2$ In *Synthetic Methods of Organometallic and Inorganic Chemistry* (Herrmann, W. A. and Salzer, A., ed.); Georg Thieme Verlag: New York, **1996**; *1*, pp. 142-143.

Rausch, M. D.; Mabrouk, S. T.; Siegel, A. *Organometallic Synthesis* **1988**, *4*, 159-164.

Mabrouk, S. T.; Dark, W. A.; Ellison, H. R. *J. Chromatogr. Sci.* **1986**, *24*, 293.

Book Chapter

Mabrouk, S. T.; DeRoma, V. M.; Brannan, K. P.; Mays, T.; Davakos, H.; Barrett, M.; Darden, A. G.; Fudge, C. The Citadel Academy for the Scholarship of Teaching, Learning, and Evaluation (CASTLE): An Interdisciplinary and Collaborative Approach. In *Campus Progress: Supporting the Scholarship of Teaching and Learning*. Cambridge, B., Ed.; American Association for Higher Education: Washington, D.C., 2004; 69-74.

Other Publications

Bevsek, H. M.; Crawford, K. D.; Dorko, M. J.; Hemingway, R. E.; Mabrouk, S. T.; Richardson, T. H.; Rushing, C.; Wilkerson, J.; Zuraw, L. A. *Introduction to Chemistry in the Laboratory II: Chem 114*; Mabrouk, S. T., Ed.; The Citadel: Charleston, SC, 2007-2016.

Bevsek, H. M.; Brown, S. D.; Crawford, K. D.; Hemingway, R. E.; Mabrouk, S. T.; Richardson, T. H.; Rushing, C.; Zuraw, L. A. *Introduction to Chemistry in the Laboratory I: Chem 113*; Mabrouk, S. T., Ed.; The Citadel: Charleston, SC, 2006-2016.

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Darden, A., Mabrouk, S. T. *AAHE Bulletin* **2002**, *54*, 15-16.

Mabrouk, S. T. *The Organic Chemistry Survival Manual*. Houghton Mifflin: Boston, 1996.

Presentations

National

DeRoma, V.(presenter), Kessler, M. L., Darden, A., and Mabrouk, S., "Classroom Research: A Community Effort," Campus Colloquium, AAHE National Conference on Higher Education, March 2002.

Darden, A., Fallon, D., Mabrouk, S. T., and Zaremba, B. (all presenters), "A Community of Teaching and Learning Scholars," Campus Colloquium, AAHE National Conference on Higher Education, Washington, DC, March 25, 2001.

Mabrouk, S. T., Zaremba, B., Darden, A., and Fallon, D. (all presenters on poster), "Many Builders...One CASTLE," Campus Colloquium, AAHE National Conference on Higher Education, Washington, DC, March 24, 2001.

Mabrouk, S. T., "Snippets to Snails But No Puppy Dog Tails: Short to Long Writing Assignments But This is Chemistry Class!" 4th National Writing Across the Curriculum Meeting, Cornell University, Ithaca, NY, June 3-5, 1999.

Mabrouk, S. T. "Researching and Writing Assignments in the Organic Chemistry Laboratory," Writing Across the Curriculum, 3rd National Conference, College of Charleston, Charleston, SC, February 6, 1997.

Mabrouk, S. T. "Organic Lab Report #1: Library Assignment," 14th Biennial Conference on Chemical Education, Clemson University, Clemson, SC, August 5, 1996.

Regional

Brannan, K. P. (presenter); Mabrouk, S. T.; Darden, A.; DeRoma, V. M.; Hilleke, R. O.; Johnson, K. Y.; Fallon, D. "Scholarship of Teaching and Learning Across the Disciplines" American Society for Engineering Education (ASEE) Southeast Section Annual Conference, Auburn University, Auburn, AL, April 4 - 6, 2004.

Mabrouk, S. T. (presenter); Brannan, K. P.; DeRoma, V. M.; Hilleke, R. O.; Johnson, K. Y. "Study Habits and Quiz Performance: What is The Relationship?" Lowcountry Conference on Teaching and Learning in Higher Education (Formerly: Charleston Connections Conference: Innovations in Higher Education), The Citadel, May 30, 2003.

DeRoma, V. M. (presenter); Mabrouk, S. T.; Brannan, K. P.; Hilleke, R. O.; Johnson, K. Y. "Immediate and Delayed Quiz Scores and Procrastination." Lowcountry Conference on Teaching and Learning in Higher Education (Formerly: Charleston Connections Conference: Innovations in Higher Education), The Citadel, May 30, 2003.

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Mabrouk, S. T., "An Apple A Day May Keep the Doctor Away, But A Synthesis A Day May Promote Critical Thinking in Organic Chemistry," Second Annual Charleston Connections Conference: Innovations in Higher Education, The Citadel, May 31, 2002.

Mabrouk, S. T., "Who...Where...What if? A Model for Critical Thinking Skills Outside Psychology 101," First Annual Charleston Connections: Innovations in Higher Education Conference, The Citadel, June 2, 2001.

Mabrouk, S. T. (presenter), Darden, A. G. (presenter), "From The Classroom and Beyond: The Scholarship of Teaching and Learning," Annual Meeting of the Southeast Section of the American Society for Engineering Education, The Citadel, April 1-3, 2001.

Local

Mabrouk, S. T. "The Friedel-Crafts Chemistry of (h⁵-Cyclopentadienyl)Dicarbonylcobalt and The Organic Chemistry of Derivatives of (h⁵-Cyclopentadienyl)(h⁴-Tetraphenyl-cyclobutadiene)Cobalt," Chemistry Department Seminar, The College of Charleston, September 15, 1994.

Grants

Mabrouk, S.T. CF Faculty New Computer Grant, 2009, awarded.

Mabrouk, S. T. CF Faculty Research Grant, "Isolation and Identification of Anthocyanin Metal Chelates", 2006-7, \$2,950.12 awarded.

Mabrouk, S. T. Teledyne Isco Organic Synthetic Chemistry Grant, "The Separation of Anthocyanins from Natural Products by Flash Chromatography and The Effect of Metals on Their Stability," 2005 awarded.

Mabrouk, S. T. CF Faculty Research Supplemental Grant for Sabbatical, "The Separation of Anthocyanins from Blueberries, Cranberries, and Red Cabbage by Flash Chromatography and The Stabilizing Effect of Metals on These Natural Dyes", 2005-6, \$2,994.78 awarded.

Mabrouk, S. T. CF Faculty Research Grant, "The Separation of Anthocyanins from Blueberries, Cranberries, and Red Cabbage by Flash Chromatography and The Stabilizing Effect of Metals on These Natural Dyes", 2005-6, \$3,000 awarded.

Mabrouk, S.T., CF Sabbatical Grant, "The Stabilizing Effect of Metals on Anthocyanins (Natural Dyes) and New Teaching Lab Experiments for the First Year Chemistry Course and the Chemistry of Art Course" 2005-6, awarded.

Mabrouk, S. T. "A Systematic Spectroscopic Study of Chelated Anthocyanins", CF Faculty Research Grant, 2004-5, \$3,000 awarded.

Mabrouk, S. T. Cookin' with Chemistry NSF/PACT Course, CF Development Grant, 2002, \$636.50 awarded.

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Mabrouk, S. T., Artful Chemistry NSF/PACT Course, CF Development Grant, 2002, \$636.50 awarded.

Mabrouk, S. T., Lilly Conference on College Teaching, 21st Annual Conference on College Teaching, Miami University, Oxford, OH., November 15-18, 2001, CF Development Grant, \$924.50 awarded.

Mabrouk, S. T., Annual Conference on Case Study Teaching in Science, University at Buffalo, The State University of New York, Buffalo, NY, October 5-6, 2001, CF Development Grant, \$769.71 awarded.

Mabrouk, S. T., "Base and Heat-Sensitivity of Essential and Fragrance Oils (Scents) to the Soapmaking Process," CF Faculty Research Grant, 2001-2002, \$1,010.63 awarded.

Darden, A. and Mabrouk, S. T. (Coauthors), AAHE "Going Public Grant" for June 1 and 2, 2001 Conference hosted by The Citadel's CASTLE group, CofC, and MUSC, \$4,664.00 awarded.

Mabrouk, S. T., Pentium PC Computer, Zip Drive, Writeable CD ROM, and Printer, Citadel Computer Grant, Fall 2000, awarded.

Mabrouk, S. T., "Consumer (Every Day) Chemistry in Introduction to Chemistry Lab I and II, Chem 113 and 114," CF Development Grant, 2000, \$467.29 awarded.

Mabrouk, S. T., "How Metal Ligands Affect Friedel-Crafts' Acylation of the Aromatic Cyclopentadienyl Ligand," CF Faculty Research Grant, 1999-2000, \$3,000.00 awarded.

Mabrouk, S. T., "The Chemistry of Art," CF Development Grant, Fall 1999, \$1,082.00 awarded. These funds were used for the purchase of books and videos that were then used to develop a course in the chemistry of art, Chem 319.

Mabrouk, S. T., National Science Foundation (NSF) Workshop on The Teaching of Chemistry and Art, Millersville University, Millersville, PA., June 20-26, 1999, \$325.00 awarded.

Mabrouk, S. T., "Snippets to Snails But No Puppy Dog Tails: Short to Long Writing Assignments But This is Chemistry Class!" 4th National Conference on Writing Across the Curriculum: Multiple Intelligences, Cornell University, Ithaca, NY, June 3-5, 1999, CF Presentations Grant, \$900.70 awarded.

Mabrouk, S. T., "How Metal Ligands Affect Friedel-Crafts' Acylation of the Aromatic Cyclopentadienyl Ligand," CDF Faculty Research Grant, 1999-2000, \$3,000.00 awarded.

Mabrouk, S. T. "Organic Lab Report #1: Library Assignment," 14th Biennial Conference on Chemical Education, Clemson University, Clemson, SC., August 4, 1996, CDF Development Grant, \$383.50 awarded.

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Mabrouk, S. T. "The Synthesis of Bis(h^4 -1, 3, 5-hexatrienyl- h^5 -cyclopentadienyl)cobalt," CDF Faculty Research Grant, 1996-7, \$3,390.00 awarded.

Mabrouk, S. T. "The Synthesis and Polymerization of (h^5 -vinylcyclopentadienyl)(h^4 -1, 3, 5-heptatriene)cobalt," CDF Faculty Research Grant, 1995-6, \$3,383.00 awarded.

Mabrouk, S. T. "The Synthesis and Polymerization of (h^5 -vinylcyclopentadienyl)(h^4 -tetrakis(trimethylsilyl)cyclobutadiene)cobalt," CDF Faculty Research Grant, 1994-5, \$2,197.00 awarded.

Mabrouk, S. T. "The Synthesis and Polymerization of (h^5 -vinylcyclopentadienyl)(h^4 -1,3,5-heptatriene)cobalt," CDF New Faculty Research Grant, 1994, \$1,500.00 awarded.

Conferences Attended

National

Artful Chemistry NSF/PACT Course, Center for Chemistry Education, Miami University-Middletown, Middletown, OH, June 24-28, 2002.

Lilly Conference on College Teaching, 21st Annual Conference on College Teaching, Miami University, Oxford, OH, November 15-18, 2001.

Annual Conference on Case Study Teaching in Science, University at Buffalo, The State University of New York, Buffalo, NY, October 5-6, 2001.

Campus Colloquium, AAHE National Conference on Higher Education, Washington, DC, March 24-25, 2001.

"The Teaching of Chemistry and Art," National Science Foundation (NSF) Workshop, Millersville University, Millersville, PA, June 20-26, 1999.

"Multiple Intelligences," 4th National Writing Across the Curriculum Meeting, Cornell University, Ithaca, NY, June 3-5 1999.

Regional

Low Country Conference on Teaching and Learning in Higher Education (Formerly: Charleston Connections Conference: Innovations in Higher Education), The Citadel, May 31, 2003.

54th Southeast Regional Meeting of the American Chemical Society Meeting (SERMACS), College of Charleston, November 13-16, 2002.

Second Annual Charleston Connections Conference: Innovations in Higher Education, The Citadel, May 31, 2002.

First Annual Charleston Connections: Innovations in Higher Education Conference, The Citadel, May 31 and June 1, 2001.

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Annual Meeting of the Southeast Section of the American Society for Engineering Education, The Citadel, April 1-3, 2001.

Research Projects with Undergraduate Students

Stephanie McNeill, "Development of a Freshman Undergraduate Chemistry Experiment for Determining the Caloric Value of Select Foods", B. S. Thesis, 2006-7.

Aaron Shaw, "Development of an Experiment for Instrumental Methods Lab on Quantification of Macrominerals and Trace Elements in Multi Vitamins", B. S. Thesis, 2006-7.

Anyanime Edem, "Extraction of Anthocyanins from Roselle (*Hibiscus sabdariffa*) and the Effects of Metal Chelation", B.S. Thesis, 2005-6.

Chad Beaufort, "Lead and Cadmium Levels in the Waters of the Local Charleston Area," B.S. Thesis, 1999-2000.

John Laurel, "The Chemistry of The Violin," B.A. Thesis, 1998-9.

Aadli Abdul-Kareem, "Eutrophication Invades Hampton Park Pond: A Study of Temperature, pH, Turbidity, Phosphates, Nitrates, Sulfates, and Their Effects on Hampton Park Pond, Charleston, SC.," B.S. Thesis, 1996-7.

Brian Schmitt, "Preparation of (h⁵-Hydroxymethylcyclopentadienyl)(h⁴-tetraphenylcyclobutadiene)cobalt," B.S. Thesis, 1995-7.

Matthew Warren, "An Environmental Study: The Quantitative Analysis of Greenfield Lake (Wilmington, NC.)," B.S. Thesis, 1996-7.

Corey Blaser, "Synthesis of (h⁵-Vinylcyclopentadienyl)(h⁴-tetraphenylcyclobutadiene)cobalt," B.S. Thesis, 1994-5.

Committees

College

Faculty Senate, 2016-present.

Faculty Excellence Committee, 2016-present.

Sabbaticals Committee, 1999-2004 & 2015.

Mini Tenure Review Committee in Civil and Environmental Engineering Department (outside member), 2006 & 2016.

School of Education Promotion Committee (outside committee member) for 2 candidates, 2015.

Faculty Tenure and Promotion Committee, 2008-2015.

Tiger Team, Summer-Fall 2013.

Core Curriculum Oversight, 2006-2012.

Who's Who Selection Committee, 2003-2012.

Commencement Senior Line-up Committee, Co-Chair 1999-2014.

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Premed Committee, 1995-2012.
Development Committee, 2004-2005.
Research Committee, 1998-2004, Chair 2003-2004.
The Citadel Academy for the Scholarship of Teaching, Learning, and Evaluation (CASTLE), Member 2000-2005, Webmaster 2000-2004, Executive Committee 2002, Co-Facilitator and Co-Founder 2000-2002.
Committee on The Center of Teaching Excellence, 2000-2001.
Library Services, 1994-2000, Chair 1998-2000.
Communication Across the Discipline (CAC), 1996-2000, Chair of Poster Committee, 1999-2000.

Department

Personnel Committee, 1998-present.
Introductory Chemistry Committee, 1999-2002, 2006-present, Chair 2006-present.
Assessment Committee, 2002-2004 & 2016, Chair 2003-2004.
Department Chair Search Committee, Chair, 2015.
Awards Committee, 2006-2012.
Extracurricular Activities Committee, 1998-1999, 2000-2001, Chair 2004-2005.
Facilities Committee, 1999-2001, 2004-2005, 2010-present, Chair 2000-2001.
Post Tenure Review Committee, 2012, 2010 (Chair), and 20003-2004.
SACS Chair, 2002-2003.
Curriculum, 1998-2000, 2001-2003.

Other Service

College

Advisor and Founder of *The Gold Star Journal: The Scholarly Journal of The Corps of Cadets and The College of Graduate and Professional Studies*, 1996-present.

Department

Library Liaison, 1995-2003.