

CHRISTOPHER T. BAILEY
Biological & Chemical Sciences Major Program
Wells College
Aurora, New York 13026
(315) 364-3286

EDUCATION:

Ph.D., 1987, Inorganic Chemistry, University of Vermont, Burlington, Vermont; thesis entitled: "Affinity Labeling of Two Iron Transport Systems", under the direction of Professor Carl J. Carrano.
B.S., 1982, Chemistry, Beloit College, Beloit, Wisconsin.

EXPERIENCE:

Chair, Mathematical and Physical Sciences Division, Wells College (2002-2006)
Professor of Chemistry, Wells College (1999-)
Chair, Biological & Chemical Sciences Major Program, Wells College (1993-1999; 2010-).
Associate Professor of Chemistry, Wells College (1993-1999).
Assistant Professor of Chemistry, Wells College (1987-1993).
Instructor, Chemistry Department, University of Vermont (1986).

AWARDS AND HONORS:

2009-2014 Named Chair: Mary Perley Wakeman '23 Professor
1996 Wells College Excellence in Teaching Medal.

PROFESSIONAL PUBLICATIONS AND PRESENTATIONS:

Christopher T. Bailey and Mohammed Mahroof-Tahir, "The Chemistry of Cooley's Anemia" National Center for Case Study Teaching in Science web site, <http://ublib.buffalo.edu/libraries/projects/cases/ubcase.htm>, March 29, 2003.

Christopher T. Bailey, "Thinking Inside the Box," National Center for Case Study Teaching in Science web site, <http://ublib.buffalo.edu/libraries/projects/cases/ubcase.htm>, November 15, 2002.

Christopher T. Bailey, "Delineation of the Cayuga Basin: Exercises in Geographical Information Systems", presented to Wells College Faculty Club, Oct. 2001.

Christopher T. Bailey, "Giving Context to the Lab and the Lab Report", Gordon Conference on Innovations in College Chemistry Teaching, Ventura, California, Jan. 2001.

Christopher T. Bailey, "GenChemCo Industries: A Way to Get Students to Care About Their Lab Reports", presented at the 32nd Annual Meeting of the Middle Atlantic Association of Liberal Arts Chemistry Teachers, Mary Baldwin College, Staunton, Virginia, September, 1998.

Christopher T. Bailey, Cheryl Byrne, Kristi Chrispell Forbes, Catherine Molkenbur, Marcella Sackett, Katherine Reid, Karin McCollum, Denise Vibbard, and Rose Catelli, "The Effect of a Covalently Attached Synergistic Anion on Chelator-Mediated Iron-Release from Ovotransferrin: Additional Evidence for Two Concurrent Pathways", *Biochemistry*, **36**, 10105-10108 (1997).

Christopher T. Bailey, "Introduction of Stressed Stream Analysis Material To The Curriculum at Wells College", presented at the Stressed Stream Analysis Reunion Workshop, Leadville, Colorado, July, 1996.

Christopher T. Bailey, "Inhibitory Interactions In Chelator-Mediated Iron-Release From Transferrin", presented to Wells College Faculty Club, April 1996.

Christopher T. Bailey, "Stressed Stream Analysis", presented to Wells College Science Colloquium, September, 1995.

Christopher T. Bailey, Marianne G. Patch and Carl J. Carrano, "Affinity Labels for the Anion Binding Site in Ovotransferrin", *Biochemistry*, **27**, 6276-6282 (1988).

Christopher T. Bailey and Carl J. Carrano, "Affinity Labels for the Anion Binding Site in Ovotransferrin", presented at the Eighth International Conference of Iron Transport and Storage, Quebec, Canada, May, 1987.

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- Christopher T. Bailey, Ellen M. Kime-Hunt, Hans-Georg Huschka, Gunther Winkelmann and Carl J. Carrano, "A Photoaffinity Label for the Siderophore Mediated Iron Transport System in *Neurospora crassa*", Biochimica Biophysica Acta, **883**, 299-305 (1986).
- Carl J. Carrano, Christopher T. Bailey and Joseph A. Bonadies, "Transport Properties of N-Acyl Derivatives of the Coprogen and Ferrichrysin Classes of Siderophores in *Neurospora crassa*", Archives of Microbiology, **146**, 41-45 (1986).
- Christopher T. Bailey and Carl J. Carrano, "A Photoaffinity Label for the Siderophore Mediated Iron Transport Site in *Neurospora crassa*", presented at the 16th Northeast Regional Meeting of the American Chemical Society, Binghamton, New York, June, 1986.
- Christopher T. Bailey and George C. Lisensky, "Synthesis of Organometallic Palladium Complexes: An Undergraduate Experiment", Journal of Chemical Education, **62**, 896-897 (1985).

SPONSORED STUDENT PRESENTATIONS:

- Cheryl H. Byrne and Christopher T. Bailey, "Evidence for a Multipath Mechanism for Chelator-Mediated Iron-Release from Transferrin", presented at the Tenth National Conference on Undergraduate Research, April, 1996, University of North Carolina at Asheville.
- Catherine Molkenbur, Marcella Sackett, and Christopher T. Bailey, "Two Chelator-Mediated Iron Release Paths for Transferrin", presented at the Sixth National Conference on Undergraduate Research, March 1992, University of Minnesota.
- Marcella Sackett, Karin McCollum, and Christopher T. Bailey, "Iron Release Characteristics of Affinity-Labeled Ovotransferrin", presented at the Fifth National Conference on Undergraduate Research, March 1991, Caltech, Pasadena, California.
- Katherine Reid, Rose Catelli, Denise Vibbard and Christopher T. Bailey, "Siderophore Mediated Loss of Iron From Affinity-Labeled Transferrin", presented at the Fourth National Conference on Undergraduate Research, April 1990, Union College, Schenectady, New York.
- Rose Catelli, Christopher T. Bailey, and Katherine Reid, "The Effects of a Covalently Bound Synergistic Anion on Iron Loss From Transferrin", presented at the Eastern Colleges Science Conference, April 1989, United States Military Academy, West Point, New York.

SELECTED PROFESSIONAL ACTIVITIES:

- Participant: Third-most recent National Conferences on Undergraduate Research (1989-present).
- Participant: Middle Atlantic Association of Liberal Arts Chemistry Teachers (1994-present)
- Participant: Workshop on Modern Biomolecular Crystallography, California State University, Fullerton, (2008).
- Participant: Materials Science and Nanotechnology for Chemists Workshop, Beloit College (2007).
- Participant: ACS-PRF Summer School on Molecular Photoelectron Spectroscopy for Chemical Education and Research, University of Arizona, Tucson (2005).
- Participant: Gordon Conferences on Innovations in College Chemistry Teaching (2000, 2002).
- Participant: Chemistry 607: Solid State Inorganic Chemistry, Cornell University (2001).
- Participant: CSS420: Geographical Information Systems, and CSS620: Spatial Modeling and Analysis, Cornell University (2000-2001).
- Participant: ChemConnections Workshop, Beloit College, Wisconsin (2000).
- Participant: PKAL Workshop, "Environmental Studies: Issues for New and Expanding Programs" (1999).
- Reviewer: "The Chemical Educator" (1998-).
- Participant: Materials Science Workshop, Cornell University (1997).
- Moderator: Oral Sessions, 6th & 8th NCUR Conferences (1992, 1994)
- Participant: Wye Faculty Seminar on the American Polity, Queenstown, MD (1991).
- Grant Proposal Review Panelist: NSF Instrumentation and Laboratory Improvement Program, Washington, D.C. (1989, 2000).
- Participant: Second, Third and Ninth Councils On Undergraduate Research (1988, 1990, 2002).

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SELECTED FACULTY COMMITTEES:

Faculty Advisory Committee (1997-1998, 1999-2000, 2001-2002, 2010-present)
President's *ad-hoc* Committee on Salary and Compensation (1995-present)
Arts & Lectures Committee (2009-present)
Athletic Advisory Board (2009-present)
Faculty Evaluation Committee (1993-1997; 2002-2006; 2009-2010)
Academic Planning & Policy Committee (1992-1994; Chair, 2006-2008)
Academic Standing and Advising (1990-1992; 2007-2008)
President's Strategic Planning Committee (2004-2007)
Faculty Review Committee (1996-1998)
Dean's *ad-hoc* Committee on Faculty Governance (1993-94)
Dean's Strategic Planning Committee for Curriculum (1992-1993)
Wells College Science Colloquium Series Sponsor (1988-1990)
Wells College Community Court (1987-1992)

COURSES TAUGHT (TIMES TAUGHT):

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|----------------------------|----------------------------|-------------------------------|
| General Chemistry (22) | Chemical Analysis (20) | Inorganic Chemistry (13) |
| Cayuga Basin Project (5) | Instrumental Analysis (10) | Symmetry and Group Theory (3) |
| Bioinorganic Chemistry (2) | Analytical Chemistry (1) | Wells 101 (4) |
| Solid State Inorganic (3) | Genealogy J-Term (4) | |

GRANTS RECEIVED:

National Science Foundation Instrumentation and Laboratory Improvement Program, "Inorganic Chemistry For Undergraduates: Necessary Instruments." \$14,640 from NSF plus matching funds from Wells College. Funded 1988.

Research Corporation, "The Effects Of A Covalently Attached Synergistic Anion On Iron Release From Transferrin." \$20,000. Funded 1989-1990.

AFFILIATIONS:

American Chemical Society; Inorganic Division; Bioinorganic Subdivision
Council On Undergraduate Research (CUR Liason to Wells College)
Middle Atlantic Association of Liberal Arts Chemistry Teachers