JOHN A. COLAPRET, Ph.D.

Department of Chemistry & Biochemistry
University of Texas @ Austin
Austin, TX 78712

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Professional Profile

An accomplished organic chemist offering twenty three years of experience in university level academics; nine additional years of experience in the industrial sector. A reliable team leader with strong teaching and training skills. Proven success in the development of new synthetic methods, concepts and technologies.

Professional History

Lecturer, Department of Chemistry & Biochemistry**,**
University of Texas @ Austin, Austin, TX 2007-present

- Instructor of record for (General & Organic Chemistry); CH 320M & N (Organic Chemistry); CH 328N Organic chemistry (engineering).

Director, Lakeway Training Institute**,** Austin, TX 2001-2007

- Established an independent training and consulting business, the focus of which is: training and continuing education provided for the insurance industry; quality management consultation; ISO 9000 auditing, training and preparation; environmental sciences expertise.

Quality Assurance Manager, MEMC Pasadena, Inc. Pasadena , TX 1997-2001

- Lead company to ISO 9002 registration in 1998; successful maintenance of certification.
- Designed state of the art clean laboratory for ultra trace elemental analysis (completed 1999).

Chemistry Professor, Lamar University⬢, Beaumont, TX 1991-1997

- Four publications: three in the environmental area one in organic synthesis.
- Expanded chemistry curriculum to include new instrumentation courses.
- Research projects in organic synthesis implemented with both Masters & Undergraduates.
- Department Safety Officer: preparing the annual safety report to the university.

Quality Assurance Officer, Gulf Coast Hazardous Substance Center Beaumont, TX 1992-1994

- Principle investigator in bioremediation projects.
- Evaluated incoming grant proposals for compliance to quality control protocols.

Senior Research Chemist, HULS, America, Piscataway, NJ 1990-1990

- Completed first phase of OHSA chemical hygiene program for the site.
- Began aggressive synthetic program for biocide target molecules.

Senior Research Chemist, Anaquest Pharmaceuticals (BOC Division), Murray Hill, NJ 1985-1990

- Developed a novel class of opiate analgesic agents.
- Responsible for management and operation of section's instrumentation lab.

Education

Doctor of Philosophy, *The University of Texas at Austin, Austin, TX. Organic Chemistry, 1983.*
Master of Arts, *The University of Texas at Austin, Austin, TX. Organic Chemistry, 1979.*
Bachelor of Arts, *Austin College, Sherman, TX. Biology & Chemistry, 1976.*

•Lamar University Activities

Academic Activities: Undergraduate Level

Departmental teaching loads:

- CH 141 & 142 (General Chemistry); CH143 & 144 (General, Organic and Biochemistry); CH 341 (Organic Lab); CH 430 (Organic Polymers); CH 411 (Chem. Literature); CH 412 (Chem. Seminar); CH 448 (Chemical Instrumentation); CH 4301(Medicinal Chemistry).
- Added to course curriculum (Medicinal Chemistry CH 4301).

Research efforts with undergraduates:

- Provide laboratory training for users of the Environmental Chemistry Laboratory (ECL)
- Supervise undergraduate research students; expanded Welch Summer research program.
- Research projects in organic synthesis implemented with both Masters and undergraduate students participating.
- Co-investigator on chemical engineering projects.
- Principle investigator in bioremediation projects
- Faculty advisor for the environmental science internship program.

Committee Service:

- Pre-professional (pre-med and pre-dent).
- Pre-pharmacy.
- Environmental Science committee

Academic Activities: Graduate Level

- Courses (Graduate level or graduate credit)
  CH 535 Advanced Organic — CH 669 A (Thesis)
  CH 669 B (Thesis) — CH 5301 Medicinal Chemistry.
  CH 430 Organic Polymers (Graduate credit awarded to students).
- Oral or Written Examinations Committee Service:

Makshim Khrapov, May 1996; (Directed Thesis)	Keith Rosauer, May 1994
Zuang Q. July 1995	Lin, L. Dec 1994
Lang, L. Feb. 1995	Sheng Lin, Dec. 1993; (Directed Thesis)
Li S. May 1995	Li, Aug. 1993
Ed Holson, May 1995; (Directed Thesis)	Dawu Zhou, Dec. 1992; (Directed Thesis)
Keene S. May 1995	Mingdi Shen, May 1992
Zuang Q. July 1995	

Other Indications of Contributions to Graduate Program

- Participating in Departmental Grant (Welch) program.
- Wet lab upgraded with approximately $25,000 of small equipment to complete a project for the Gulf Coast Hazardous Substance Research Center. Graduate students from Chemistry, Biology and Chemical

Administrative Activities

- Laboratory Coordinator of Environmental Chemistry Laboratory (ECL)
- Administrative/management of ECL functions and budgets
- Supervise and train all students in the use and operation of chemical instrumentation.
- Oversee wet lab operations; maintained instruments.
- Training often takes the form of "short courses"- two or three day seminars focusing upon one instrument at a time. The graduate students are not only from Chemistry but Chemical Engineering, Environmental Science and Biology as well.
- Chemistry Department Safety Officer

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Publications

1. Li, K. Y.; Liu, C.C..; Ni, Q.; Liu, Z. F.; Huang, F. Y. C. and Colapret, J. A. *I &EC Research* **1995**, *34*, 1960. "Kinetic Study of UV Peroxidation of Bis(2-chloroethyl) Ether in Aqueous Solution"

2. Li, K. Y.; Xu, T.; Cawley, W. A. Colapret, J. A.; Bonner, J. S.; Ernest, A. and Verramachaneni, P. B. *Waste Management* **1994**, *7*, 561. "Field Test and Mathematical Modeling of Bioremediation of an Oil-Contaminated Soil- Part 1: Field Test"

3. Li, K. Y.; Xu, T.; Cawley, W. A. Colapret, J. A.; Bonner, J. S.; Ernest, A. and Verramachaneni, P. B. *Waste Management* **1994**, *7*, 571. "Field Test and Mathematical Modeling of Bioremediation of an Oil-Contaminated Soil- Part 2: Mathematical Modeling"

4. Bagley, J. R.; Kudzma, L.K.; Lalinde, N.L.; Colapret, J.A.; Huang, B.S.; Lin,B.S.; Jerussi, T.; Benvenga, M.J.; Doorley, B.M.; Ossipov, M.H.; Spaulding, T.C.; Spencer, H.K.; Rudo, F.G. and Wynn, R.L. *Medicinal Research Reviews* **1991**, *11*, 403-436. "Evolution of the 4-Anilidopiperidine Class of Opioid Analgetics."

5. Colapret, J. A.; Diamantantidis, G.; Spencer, H. K.; Spaulding, T.C. and Rudo, F. G. *J. Med. Chem.* **1989**, *32*, 968. "Synthesis and Pharmacological Evaluation of 4,4-Disubstituted Piperidines."

6. Martin, S. F.; Dappen, M. S.; Dupre, B.; Murphy, C. J and Colapret, J. A.. *J. Org. Chem.* **1989**, *54*, 2209."Application of Nitrile Oxide Cycloadditions to a Convergent, Asymmetric Synthesis of (+)-Phyllanthocin."

7. Paquette, L. A.; Colapret, J. A. and Andrews, D. A. *J. Org. Chem.* **1985**, *50*, 201. "An Oxy-Anionic [3+3] Sigmatrophic Approach to the Ophiobolin Ring System."

8. Martin, S. F.; Phillips, G. W.; Puckette, T. A. and Colapret, J. A. *J. Am. Chem. Soc.* **1980**, *102*, 5866. "Geminal Acylation-Alkylation at a Carbonyl Carbon *via* Regiospecifically Generated Metalloenamines."

9. Martin, S. F.; Puckette, T. A. and Colapret, J. A. *J. Org. Chem.* **1979**, *44*, 3391."New Methods for Alkaloid Synthesis. Facile Total Synthesis of (±)-O-Methyljoubertiamine and (±)-Mesembrine."

Honors and Memberships

- American Society for Quality
- American Chemical Society
- 1995 Chairman, Sabine-Neches Local Section
- *Who's Who Among America's Teachers* 1994
- H. R. Henze Teaching Excellence Award 1982
- Commendation for Outstanding Teaching 1981, 1978 and 1977
- Robert A. Welch Pre-Doctoral Fellow 1979 and 1980
- Robert A. Welch Undergraduate Fellow 1976
- Beta Beta Beta (National Honor Society) 1974