

CURRICULUM VITAE-Michael O. Hurst

EDUCATION

Ph.D., Biochemistry, 1983, with Donald Graves, Iowa State University
Thesis: Comparison of substrate specificities of Phosphorylase Kinase and cAMP-dependent protein kinase

B.S., Chemistry, 1977, University of Missouri-Kansas City

EXPERIENCE

Associate Professor, Sept. 1995-present, Georgia Southern University

Assistant Professor, Sept. 1988-Sept. 1995, Georgia Southern University

Visiting Scientist, July-Aug. 1992, Iowa State University

Visiting Assistant Professor, Sept. 1984-May 1988, University of Wisconsin-River Falls

Assistant Professor, Sept. 1984-Aug. 1985, Ball State University

Research Associate, Sept. 1983-July 1984, with Irwin Wilson at University of Colorado

Teaching Assistant, Spring 1978 and Fall 1979, Iowa State University

Research Assistant, Sept. 1977-Sept. 1983, Iowa State University

Chemical Analyst, May 1976-Aug. 1977, Larry Goad & Co.

HONORS AND ORGANIZATIONS:

Georgia Southern University Graduate Faculty, 1992-present

Sigma Xi-vice president of Georgia Southern chapter, 1992-93, president 1994, vice president 1999-2000, president 2000-present

Phi Kappa Phi-secretary-treasurer of Georgia Southern chapter, 1989-90, public relations officer 1990-91

Phi Lambda Upsilon

American Chemical Society

Georgia Academy of Science

Chair, Biochemistry Graduate Student Committee, 1980-81

PACE Award, Iowa State University, 1977

University Scholar, University of Missouri-Kansas City, 1975-76

GRANTS:

Development of Instruction Grant, Georgia Southern University, 1996

Development of Instruction Grant, Georgia Southern University, 1991

Dissociation Studies of Electrochemically Reduced Glycogen Phosphorylase, Faculty Research Grant, Georgia Southern College, 1989

Development of Instruction Grant, Georgia Southern College, 1989

A Comparison of the Specificities of Two Protein Kinases, Institutional Research Grant, University of Wisconsin-River Falls, 1986

ACADEMIC SERVICE:

University:

- University Mentor Program (1998-present)
- Nursing Advisory Committee (GSU, 1989-present)
- Faculty Senate ad hoc Academic Freedom Committee (1996-97)
- University Honors Committee (GSU, 1989-92)
- University Student Organization Review Committee (GSU, 1991-92)

COST:

- Chair of COST Service Award Committee (2004-2005)
- COST T & P Committee (2002-2004)
- COST Curriculum Committee (1999-2002)
- COST Advisory Committee (1998-99)

Department:

- Departmental organic search committee (2004-2005)
- Departmental 1145-46 textbook committee (2002-2003)
- Departmental 1145-46 assessment committee (2002-present)
- Departmental Tenure and Promotion Committee (2000-present)
- Chair of Departmental Tenure and Promotion Committee (2000-2001)
- Departmental ad hoc Staffing Committee (2003-2004)
- Departmental Advisory Committee (1991-present)
- Departmental Safety Committee (2000-present)
- Department Meeting Minutes Secretary (1998-present)
- Department Biochemistry Search Committee (1999-2000)
- Department Awards Committee (1998-99)
- Department ad hoc Building Committee (1998-present)
- Department 170 Textbook Committee (1998)
- Department 170 Textbook Committee (1997)
- Department ad hoc faculty teaching evaluation document committee (1997)
- Department Biochemistry Search Committee (GSU, 1997-98)
- Department Honors Committee (1996-1998)
- Coordinated the 28th Annual Southeastern Conference for Undergraduate Student Chemists (spring 1996)
- Chair, Department Biochemistry Search Committee (GSU, 1993-94)

Department Biochemistry Search Committee (GSU, 1994-95)
Department Organic-Biochemistry Search Committee (GSU, 1991-92)
Department Biochemistry Search Committee (GSU, 1992-93)
Department Lab Coordinator Search Committee (GSU, 1993)
Department General Chemistry Textbook Committee (GSU, 1993)
Student Chemistry Club adviser (GSU, 1990-96)
Department Chair Search Committee (GSU, 1990-91)
Organized Georgia State Teachers Association chemistry workshop and edited demonstration manual (GSU, 1988)

Previous:

Committee to select freshman textbook (River Falls, 1988)
Visiting Scientist Program to high schools (River Falls, 1986-88)
University Science Day activities (River Falls, 1986-88)
Assisted in advising student Chemistry Club (River Falls, 1985-88)
General Studies advisor (River Falls, 1987-88)
Campus Committee to establish Phi Kappa Phi chapter (River Falls, 1987- 88)
Equipment and Research Committees (Ball State, 1984-85)

PERSONAL:

Born August 31, 1955
Hobbies: Photography, fishing, reading, target shooting, music, hiking, gardening

PUBLICATIONS:

How We Teach Molecular Structure to Freshmen, Michael O. Hurst, J. of Chemical Education, 79, 763-4 (2002)

Isolation and Visible Spectrophotometry of Plant Pigments, Michael O. Hurst and Michael V. Keenan, Georgia Journal of Science (1998), 56, 94-98.

Utilizing Isolation, Purification, and Characterization of Enzymes as Project-Oriented Labs for Undergraduate Biochemistry, Michael O. Hurst and S. Todd Deal, J of Chemical Education (1997), 74, 241-242.

Kinetics of the Reaction of p-Nitrobenzyl Chloride with Cyanide Ion, Michael O. Hurst and John W. Hill, J. of Chemical Education (1993), 70, 429-431.

Purification and Characterization of Lysozyme by Linear Salt Gradient and SDS Gel Electrophoresis, Michael O. Hurst, Michael V. Keenan, and Chae C. Son, J. of Chemical Education (1992), 69, 850-851.

Color Reactions and Thin Layer Chromatography of Amino Acids., Michael O. Hurst and D. Keith Cobb, J. of Chemical Education (1990), 67, 978.

Chemical Modification of Canavanine with p-nitrophenylglyoxal, Gopalan Soman, Michael O. Hurst, and Donald J. Graves, International J. of Peptide and Protein Research

(1985), 25, 517-525.

Involvement of Guanidino Groups in Anion Binding Sites and in Enzyme Catalyzed Covalent Modification Reactions, Donald J. Graves, Gopalan Soman, Michael O. Hurst, and Yen Chung Chang, *Current Topics in Cellular Regulation* (1984), 24, 181-188.

Phosphorylase Kinase Specificity: A Comparative Study with cAMP-dependent Protein Kinase on Synthetic Peptides and Peptide Analogs of Glycogen Synthase and Phosphorylase, Jesse Chan, Michael O. Hurst, and Donald J. Graves, *J. of Biological Chemistry* (1982), 257, 3655-3659.

ABSTRACTS, PAPERS, AND PRESENTATIONS:

Student Study Methods in General Chemistry at Georgia Southern University, Michael O. Hurst and Denise Shaw, Georgia Academy of Science meeting (2002)

Academic Background of Georgia High School Chemistry Teachers, Heather Renee Gregory and Michael O. Hurst, Georgia Academy of Science meeting (2002)

Effect of Academic Background on Student Performance in General Chemistry at Georgia Southern University, Michael O. Hurst and Michael R. Inglesby, SERMACS meeting (2001)

Effect of Magnesium Chelation on the 31-P nmr Spectra of ATP-An Undergraduate Biochemistry Lab Experiment, Michael O. Hurst and Jeffrey A. Orvis, SERMACS meeting (2001)

Effect of Academic Background on Student Performance in General Chemistry at Georgia Southern University, Michael R. Inglesby and Michael O. Hurst, SURC meeting (2001)

Effect of Magnesium Chelation on the 31-P nmr Spectra of ATP-An Undergraduate Biochemistry Lab Experiment, Michael O. Hurst and Jeffrey A. Orvis, Georgia Academy of Science meeting (2001)

Effect of Academic Background on Student Performance in General Chemistry at Georgia Southern University, Michael O. Hurst and Michael R. Inglesby, Georgia Academy of Science meeting (2001)

An Alternative View of Undergraduate Research, Michael O. Hurst, The Role and Nature of Undergraduate Research in Chemistry ACS online conference (2000)

Teaching Organic Chemistry to Visually Impaired Students, K. Bryant Smalley and Michael O. Hurst, Georgia Academy of Science meeting (2000)

Development of a Lysozyme Kinetics Lab, DeKira Hartwell, LaKeisha Saddler, and Michael O. Hurst, Georgia Southern University Chemistry Club research presentations

(1998)

The Dialysis of Egg White Lysozyme Using Tris Buffer at pH 8.2, Billy T. Fowler, Michael O. Hurst, and Paul F. Cerpovitz, 28th Annual Southeastern Regional American Chemistry Society Undergraduate Research Conference (1996)

The Electrochemical Reduction of Pyridoxal Phosphate in Glycogen Phosphorylase, Russell D. Underhill, Michael O. Hurst, and Norman E. Schmidt, Georgia Academy of Science meeting (1994)

Salt Effects on the Reaction of p-Nitrophenylglyoxal with Arginine, Lindsey S. Stinson III and Michael O. Hurst, Georgia Academy of Science meeting (1994)

The Electrochemical Reduction of Pyridoxal Phosphate in Glycogen Phosphorylase, Russell D. Underhill, Michael O. Hurst, and Norman E. Schmidt, Southeastern Regional Conference of Undergraduate Student Chemists (1994)

Salt Effects on the Reaction of p-Nitrophenylglyoxal with Arginine, Lindsey S. Stinson III and Michael O. Hurst, Southeastern Regional Conference of Undergraduate Student Chemists (1994)

Isolation of a Compound from Milkweed with a Chromophore with a low pKa, Stephen W. Ward and Michael O. Hurst, Southeastern Regional Conference of Undergraduate Student Chemists (1993)

The Reaction of p-Nitrophenylglyoxal with Arginine, Ernest Carlton and Michael O. Hurst, slide presentation, Georgia Academy of Science meeting (1992)

Sequencing of a Dipeptide with Fluorodinitrobenzene using High Performance Liquid Chromatography, Michael Moody and Michael O. Hurst, poster session, Georgia Academy of Science meeting (1990)

Kinetic Studies of Fluoride and Phosphate Inhibition of Wheat Germ Acid Phosphatase, Parks Medlock and Michael O. Hurst, poster session, Georgia Academy of Science meeting (1990)

Regulation of Specificity of Phosphorylase Kinase and cAMP-dependent Protein Kinase, Michael O. Hurst and Donald J. Graves, slide presentation, West Central States Biochemistry Conference (1982).

Catalytic and Regulatory Properties of Rabbit Muscle Phosphorylase Kinase, Donald J. Graves, Jesse Chan, James Skuster, and Michael O. Hurst, slide presentation, American Society of Biological Chemists meeting (1980)

Photolabelling of Surface Proteins of Rat Brain Synaptosomes, James C. Schaeffer, Michael O. Hurst, Mark Ediger, and Michael Peck, slide presentation, Society of

Neuroscience meeting (1978)