

JOHN MICHAEL WIENCEK

ACADEMIC AND LEADERSHIP APPOINTMENTS

**Provost and Executive Vice President
Professor, Chemical Engineering**

**Provost and Vice President of Academic Affairs (Interim, 8/14-3/15)
Sr. Vice Provost for Administration & Strategic Initiatives (8/13-8/14; 3/15-6/15)**

**Graduate Director
Professor, Chemical and Biochemical Engineering**

Gr (7/89-7/94) Assistant Professor, Department of Chemical and Biochemical Engineering

EDUCATION

Ph.D. M.S. Chemical Engineering
NASA Graduate Fellow
Case Western Reserve University
Liquid Membrane Separations Employing Nonionic Microemulsions

B.S. Chemical Engineering, Cum Laude
University of Cincinnati
Outstanding Chemical Engineering Co-operative Education Student

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R Envisioning the college's framework (Months 7-16).

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R Building the college (2009-2012).

R *Goal 1: Ensure academic and future professional success for our students.*

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R **Building the AAU profile.**

FUNDED RESEARCH GRANTS (Principal Investigator is underlined)

FUNDED RESEARCH GRANTS (Principal Investigator is underlined) - continued

_____ *Real-time Monitoring of Protein Concentration in Solution to Control Nucleation and Cr{stal Growth,*

Qualit{, _____ *Thermod{namics of Protein Cr{stalli|ation and Links to Cr{stal*

_____ *Microgravit{*

FUNDED RESEARCH GRANTS (Principal Investigator is underlined) - continued

_____ *Development*
of Flame AA Techniques for Iron Analysis of Liquid Propellant,

_____ *Demulsification*
of Water/Oil/Solid Emulsions Using Hollow Fiber and Tubular Membrane Modules,

_____ *Removal of Chlorinated*
Phenols from Contaminated Water Using Bimetallic-Catalyzed Polymerization in an
Organic Solvent,

_____ *Research Experiences for*
Undergraduates Supplement

PEER REVIEWED PUBLICATIONS (cont)

*Temperature Insensitive Near-Infrared Method for
Determination of Protein Concentration during Protein Crystallization, J. Biol. Chem. 273: 11111-11115 (1998)*

*Static Light Scattering Studies of OmpF
Porin: Implications for Integral Membrane Protein Crystallization, J. Biol. Chem. 273: 11111-11115 (1998)*

*Temperature-Independent Near-Infrared Analysis of Lysozyme
Aqueous Solutions, J. Biol. Chem. 273: 11111-11115 (1998)*

PEER REVIEWED PUBLICATIONS (cont)

Structure," — *"Protein Eztraction into Nonionic Microemulsions: Effect of Surfactant*

Membranes,ö — *öMercur{ Removal from Aqueous Streams Utili|ing Microemulsion Liquid*

Microemulsion Liquid Membranes,ö — *öElectrical and Chemical Demulsification Techniques for*

— *öL{so|{me Cr{stalli|ation Studies at High Pressure,ö*

Microemulsion Liquid Membranes,ö — *öA Mass Transfer Model of Mercur{ Removal from Water via*

PEER REVIEWED CHAPTERS

Crystallization of Proteins,

*Use of Emulsions, Microemulsions and Hollow Fiber Contactors
as Liquid Membranes,*

Product Recovery and Purification via Precipitation and Crystallization

Application of Microemulsions as Liquid Membranes,

INVITED SEMINARS

"Association of Insulin and Light Scattering in Flow Environments"

INVITED SEMINARS (cont)

"Cryopreservation of Protein Crystals: Applications to Structural Biology"

"Engineering Approaches to Improved Protein Crystallization"

"Integral Membrane Protein Crystallization: A Light Scattering Study"

"In Search of Highly Stable Liquid Membranes for Metal Ion Separations"

"Protein Crystallization: Improving Resolution of X-ray Structures"

PRESENTATIONS

PRESENTATIONS (cont)

•Role of Electrolyte on Crystallization of Lysozyme,•

•An Intelligent Temperature Control Algorithm for Protein Crystallization•

NaCl and NaSCN,•
•Temperature Induced Crystallization of Lysozyme in Solutions of

•The Role of the Surfactant in Membrane Protein Crystallization,•

•Experimental Investigation of the Effect of Electrolyte on Heats of
Crystallization in Protein Systems,•

•Rapid Phase Diagram Determination via Microcalorimetry,•

•Microgravity Enhanced Protein
Crystallization: Feedback Control Using Temperature and Spectroscopy,•

PRESENTATIONS (cont)

"Protein Extraction Using Affinity Surfactants,"

Enzyme-Catalyzed Polymerization of Phenolics in Monophasic Water-Immiscible Organic Solvents,"

Enzyme-Catalyzed Phenolic Removal from Water Driven by Enzyme Catalysis in Organic Media,"

Enzyme-Catalyzed Phenolic Removal Driven by Enzyme Polymerization in Water-Immiscible Organic Media,"

Separations for Wastewater Treatment

