# JOHN MICHAEL WIENCEK

#### ACADEMIC AND LEADERSHIP APPOINTMENTS

Provost and Ezecutive 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)

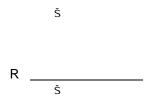
Graduate Director Professor, Chemical and Biochemical Engineering

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

#### **EDUCATION**

Ph.D.M.S.Chemical EngineeringNASA Graduate FellowCase Western Reserve Universit{Liquid Membrane Separations Emplo{ing Nonionic Microemulsions

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



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R Envisioning the collegeøs framework (Months 7-16).

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# R Building the college (2009-2012).

 $<sup>\</sup>begin{array}{ll} \mathsf{R} & \textit{Goal 1: Ensure academic and future professional success for our students.} \\ \check{\mathsf{S}} \end{array}$ 

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6HFRQG WHUP DV GHDQ R Building the AAU profile.

FUNDED RESEARCH GRANTS (Principal Investigator is underlined)

# FUNDED RESEARCH GRANTS (Principal Investigator is underlined) - continued

 $\frac{1}{Cr\{stal Growth,}$  Real-time Monitoring of Protein Concentration in Solution to Control Nucleation and Cr{stal Growth,

Thermod{namics of Protein Cr{stalli/ation and Links to Cr{stal

Qualit{,

Microgravit{

### FUNDED RESEARCH GRANTS (Principal Investigator is underlined) - continued

Development

of Flame AA Techniques for Iron Anal{sis of Liquid Propellant,

\_ Demulsification

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

Removal of Chlorinated Phenols from Contaminated Water Using Bien/{maticall{-Catal{/ed Pol{meri/ation in an Organic Solvent,

*Research Ezperiences for Undergraduates Supplement* 

### PEER REVIEWED PUBLICATIONS (cont)

õTemperature Insensitive Near-Infrared Method for Determination of Protein Concentration during Protein Cr{stal Growth,ö õStatic Light Scattering Studies of OmpF Porin: Implications for Integral Membrane Protein Cr{stalli/ation,ö

õTemperature-Independent Near-Infrared Anal{sis of L{so/{me

Aqueous Solutions,ö

# PEER REVIEWED PUBLICATIONS (cont)

Structure,"	"Protein Eztraction into Nonionic Microemulsions: Effect of Surfactant
õM Membranes,ö	ercur{ Removal from Aqueous Streams Utili/ing Microemulsion Liquid
Microemulsion Liquid Membran	õElectrical and Chemical Demulsification Techniques for
	õL{so/{me Cr{stalli/ation Studies at High Pressure,ö
Microemulsion Liquid Membran	õA Mass Transfer Model of Mercur{ Removal from Water via es,ö

### PEER REVIEWED CHAPTERS

õCr{stalli/ation of Proteins,ö

as Liquid Membranes,ö

õUse of Emulsions, Microemulsions and Hollow Fiber Contactors

Product Recover{ and Purification via Precipitation and Cr{stalli/ation

õApplication of Microemulsions as Liquid Membranes,ö

# **INVITED SEMINARS**

"Association of Insulin and Light Scattering in Flow Environmentsö

## **INVITED SEMINARS (cont)**

"Cr{opreservation of Protein Cr{stals: Applications to Structural Biolog{ "Engineering Approaches to Improved Protein Cr{stalli/ation "Integral Membrane Protein Cr{stalli/ation: A Light Scattering Stud{

"In Search of Highl{ Stable Liquid Membranes for Metal Ion Separations

"Protein Cr{stalli/ation: Improving Resolution of Xra{ Structures

# PRESENTATIONS

#### **PRESENTATIONS (cont)**

 $\delta$ Role of Electrol{te on Cr{stalli/ation of L{so/{me,o}} $\delta$ An Intelligent Temperature Control Algorithm for Protein Cr{stalli/ationoNaCl and NaSCN,o $\delta$ Temperature Induced Cr{stalli/ation of L{so/{me in Solutions of}} $\delta$ The Role of the Surfactant in Membrane Protein Cr{stalli/ation,o $\delta$ Ezperimental Investigation of the Effect of Electrol{te on Heats of $\delta$ Rapid Phase Diagram Determination via Microcalorimetr{,o

õMicrogravit{ Enhanced Protein Cr{stalli/ation: Feedback Control Using Temperature and Spectroscop{,ö

### PRESENTATIONS (cont)

"Protein Eztraction Using Affinit{ Surfactants,ö

õEn/{me-Catal{/ed Pol{meri/ation of Phenolics in Monophasic Water-Immiscible Organic Solvents,ö

Organic Media,ö

õPhenolic Removal from Water Driven b{ En/{me Catal{sis in

Water-Immiscible Organic Media,ö

õPhenolic Removal Driven b{ En/{me Pol{meri/ation in

Separations for Wastewater Treatment