



Chemical & Biomolecular Engineering

ALLAN P. COLBURN MEMORIAL LECTURES

4/17/2019

Matthew Panzer

Tufts University

Design of Polymeric Scaffolds for Nonaqueous Ionogel Electrolytes

4/26/2019

James Swan

Massachusetts Institute of Technology

Large Scale Simulation of Colloidal Hydrodynamics: Heterogenous Particles, Structures and Flow Patterns

5/4/2018

Matthew Helgeson

University of California, Santa Barbra

Complex Nanoemulsions for Engineering Novel Soft Nanoparticles with Applications in Nanomedicine

10/7/2016

Bradley Olsen

Massachusetts Institute of Technology

Revisiting the Physical Chemistry of Polymer Networks

5/13/2016

Michelle O'Malley

University of California, Santa Barbra

Exploiting Anaerobes for Biomass Breakdown and Sustainable Chemistry

10/12/2012

Sarah Heilshorn

Stanford School of Engineering

Designer Self-Assembling Materials for Cell Encapsulation and Delivery

5/4/2012

Peter Tessier

Rensselaer Polytechnic Institute

Antibodies by Design

3/4/2011

John Kitchin

Carnegie Mellon University

Oxygen Evolution on Multicomponent Oxide Electrocatalysts

4/24/2009

Matt DeLisa

Cornell University

Manipulating quality control mechanisms in bacteria for preclinical development of protein therapeutics

4/11/2008

Michael Strano

Massachusetts Institute of Technology

The Chemistry of Single-Walled Carbon Nanotubes: Applications to Biomolecule Detection, Nanotube Separation, and Electronic Networks

5/12/2006

Patrick Doyle

Massachusetts Institute of Technology

Dynamics of complex fluids in microfluidic devices

3/11/2005

Michael D. Graham

University of Wisconsin-Madison

DNA Dynamics in a Microchannel: Theoretical and Multiscale Simulation Studies of Relaxation, Diffusion and Shear-Induced Migration

4/23/2004

Sharon C. Glotzer

University of Michigan

Bottom-up self-assembly for nanofabrication: Bio-inspired design rules from molecular simulation

11/1/2002

Jay Keasling

University of California, Berkley

Remodeling microbial metabolism for synthesis of complex chemicals.

10/6/2000

Linda Broadbelt

Northwestern

Unraveling Complex Kinetics via Detailed Mechanistic Modeling and Computational Chemistry

1997

Wesley R. Burghardt

Northwestern

Tests of Polymer Constitutive Equations for Modelling Complex Viscoelastic Flows

1996

John M. Vohs

University of Pennsylvania

Surface Science Studies of Model Supported Metal Catalysts

1994

Yannis Kevrekidis

Princeton University

Catalysis on Microstructured Surfaces

1993

Arup Chakraborty

University of California, Berkeley

Diffusion in Disordered Media: Ion Motion in Acidic Zeolites

1992

Doros Theodorou

University of California, Berkeley

Molecular Modeling of Polymers: Promises and Challenges

1991

Glenn Fredrickson

University of California, Santa Barbara

Thermodynamics of Heterogeneous Polymer Melts

1990

Alice Gast

Stanford

Conformations of Block Copolymers at Interfaces

1989

Sangtae Kim

Wisconsin

Parallel Computational Strategies for Hydrodynamic Interactions Between Complex Microstructures in Viscous Fluids

1988

H. Chia Chang

Notre Dame

Bubble Transport in Capillaries

1987

Julio Ottino

University of Massachusetts

1986

Robert A. Brown

Massachusetts Institute of Technology

Models and Intelligent Materials Processing: Czochralski Crystal Growth and Progress in Calculation and Measurement of Complex Viscoelastic Flows

1985

Klaus Jensen

University of Minnesota

Chemical Vapor Deposition of Electronic Materials

1984

Matt Tirrell

Princeton - MN

1983

Rakesh K. Jain

Carnegie-Mellon

Transport Phenomena in Tumor Microcirculation

1982

Michael Shuler

Cornell

Mathematical Models for Individual Bacterium Cells

1981

A. C. Payatakes

1981

T. W. Fraser Russell

University of Delaware

Photovoltaic Unit Operations

1980

James Dumesic

Wisconsin

Water-Gas Shift Over Magnetite: Investigation of the Regenerative Mechanism