Abstract

From July 30th to August 2nd at Missouri Western State University, a special ASBMB small meeting will bring together both new and experienced educators to share, synthesize, and generate effective classroom strategies in undergraduate molecular life science courses. Through a series of presentations, workshops, and open discussions led by successful educators in the field, the most recent strategies identified to improve student learning and success in undergraduate biochemistry and molecular biology courses will be highlighted. Presentations and workshops will demonstrate how these strategies have been implemented in first year courses as well as upper division lecture and specialized laboratory sessions, providing a comprehensive view on how to invigorate the undergraduate curriculum. In addition, discussions focused on evaluating these strategies for publication or grant submission will be included. Throughout the symposium, there will also be extensive opportunities to discuss educational strategies with speakers and other attendees as well as opportunities to gain assistance with future course design.

Purpose

- To bring together both new and experienced educators to share and discuss recent strategies that improve student learning success in the undergraduate classroom.
- To encourage and foster networking opportunities among participants.
- To assist and support all attendees to develop, implement, and assess new teaching strategies at home institutions.

Organizers

Ben Caldwell
Missouri Western State University

Mary Huff
Bellarmine University

Quinn Vega
Montclair State University

While the organizers serve as primary contacts, this meeting is a collaborative effort of all ASBMB Student Chapter Regional Directors.

Outline of Meeting and Distinguished Speakers

**Theme I: Why Transform Education?**

- Keynote Speaker: Tuajuanda Jordan, President, St. Mary’s College of Maryland
- Overview of Undergraduate Education in the Molecular Life Sciences
  
  Preparing Students for Industry
  
  Lane Arthur, CIO, Pioneer Hi-Bred, Intl.
  
  Preparing Students for Health Professions
  
  Bruce Horazdovsky, Mayo Medical School

**Theme II: How to Transform Education**

- Changing the Norm: A Culture of Engaged Learning
  
  William LaCourse, Univ. of Maryland Baltimore County
  
  How to Improve Student Learning
  
  Jennifer Loertscher and Vicky Mindenbouch, Seattle Univ.
  
  Molecular Modeling
  
  Tim Herman and Margaret Franzen, Milwaukee School of Engineering
  
  Synthetic Biology
  
  Todd Eckdahl, Western Missouri State Univ.
  
  Case Studies in the Classroom
  
  Annie Prud’homme Généreux, Quest Univ. Canada
  
  Engaging Students through Laboratory Experiences
  
  Christopher Shaffer, Washington Univ. in St. Louis
  
  Flipping the Classroom
  
  Michael Cennamo, Columbia University
  
  Quantitative Biology
  
  Johan Paulsson, Harvard Medical School

**Theme III: How to Assess Student Learning**

- Assessing Undergraduate Research
  
  Lisa Auchincloss, Univ. of Georgia
  
  Grant Funding
  
  Suzanne Barbour, National Science Foundation
  
  RCN-UBE
  
  Ellis Bell, Univ. of Richmond
  
  Broader Impacts
  
  Susan Renee, Univ. of Missouri
  
  Discipline-based Education Research
  
  Martina Rosenberg, Univ. of New Mexico

Logistics of Meeting

**WHEN:** July 30th - August 2nd

**WHERE:** Missouri Western State University, St. Joseph, Missouri

**FULL CONFERENCE PACKAGE INCLUDES:**

- All scientific sessions and meeting materials
- Meals and networking receptions
- 3 nights’ accommodation at Missouri Western State University

**IMPORTANT DATES**

- Early Registration Deadline: May 7th (Save $100)
- Regular Registration Deadline: June 19th
- Abstract Deadline: June 5th

All ASBMB members receive $50.00 discount.

Site of Meeting

Missouri Western State University is located in St. Joseph, Missouri. Set in the Midwest, St. Joseph is 35 minutes from the Kansas City International Airport. The city of St. Joseph is known as the starting point of the Pony Express and the death place of Jesse James.

Registration Information

Visit our website
http://www.asbmb.org/SpecialSymposia/TransformingEducation/

Contact the Organizers

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Sponsors

- ASBMB
- Garland Science
- New England BioLabs
- Research Corporation