

**ACUBE 52<sup>nd</sup> Annual Meeting  
Hopkinsville Community College  
Hopkinsville Kentucky**

**October 16-18, 2008**

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***Thursday, October 16th***

3:00 - 5:00 PM	<b>Steering Committee Meeting</b>	<b>AUD 47</b>
6:00 - 8:00 PM	<b>Registration and Reception</b> <i>H'ors d'oerves</i>	<b>Auditorium Building Hallway</b>
8:00 - 9:00 PM	<b>Opening Session</b>  <b>Welcome to ACUBE:</b> ACUBE President: Conrad Toepfer, <i>Brescia University</i>  <b>Welcome to Hopkinsville Community College</b>  <b>Greetings from the Conference Chairpersons</b> Program Chair: Laura Salem, <i>Rockhurst University</i>  Local Arrangements Chairs: Hugh Cole, <i>Hopkinsville Community College</i>  Bioscene Editor: Steve Daggett, <i>Avila University</i>  <b>OPENING PRESENTATION</b> (Public Welcome to Attend) William T. Turner	<b>AUD 43</b>
9:15 - 10:15 PM	<b>Steering Committee Meeting</b>	<b>AUD 47</b>

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## ***Friday, October 17th***

7:00 AM - 5:00 PM	<b>Registration table</b> (Register, pay dues, buy T shirts, etc.)	<b>Auditorium Gallery</b>
7:15 - 8:20 AM	<b>Hot Breakfast</b> (Mentors and Mentees meeting or by Interest Group)	<b>Auditorium Gallery</b>
7:30 - 10:30 AM	<b>Field Trip: Water Sampling</b>	
9:00 AM - Noon and 2:00 - 5:00 PM	<b>SUSTAINING MEMBER EXHIBITS</b>	<b>Auditorium Gallery</b>
8:30- 9:15 AM	<b>CONCURRENT PAPER SESSION I</b>	
	<b>The Evolution of Service-Learning: Fostering Curiosity and Reflective Practice in an Evolution Course;</b> Mindy L Walker, <i>Rockhurst University</i>	<b>AUD 14</b>
	<b>Microbe Cards Project;</b> Nighat Kokan, <i>Cardinal Stritch University</i>	<b>AUD 32</b>
	<b>Biology on the Cheap: Using Technology to Get More Biology for the Buck;</b> James Clack, Division of Science, Indiana University – Purdue University	<b>AUD 33</b>
	<b>Defending the Lowly Prokaryotes: new Challenges for BIOGaia Learning Activity;</b> <sup>1</sup> Abour Cherif, <sup>1</sup> Linda Michel, <sup>2</sup> Farah Movahed Zadeh, <sup>1</sup> Robert Aron, <sup>1</sup> <i>DeVry University</i> , <sup>2</sup> <i>University of Illinois at Chicago</i>	<b>TEC 210</b>
9:30-10:15 AM	<b>CONCURRENT WORKSHOP and ROUNDTABLES* SESSION I</b>	
	<b>*Evaluating the Need for Non-Majors Biology Introductory Survey Courses;</b> Led by Stephen S Daggett, <i>Avila University</i>	<b>AUD 14</b>

**How to Turn a Lecture into an Active Learning Experience;** Debra Meuler, *Cardinal Stritch University* **AUD 32**

**Planning a Darwin Day;** Tara Maginnis, *St. Edward's University* **AUD 33**

**\*Assessment Using Student-Generated Questions;** Led by Paul Weihe, *Central College* **TEC 210**

**\*Do Graduating Seniors Really Understand Scientific Method and Its Application?;** Led by Aggy Vanderpool<sup>1</sup> and Tom Davis<sup>2</sup>; <sup>2</sup>*Lincoln Memorial University*, <sup>1</sup>*Loras College* **TEC 214**

10:30 - 11:15 AM **CONCURRENT PAPER SESSION II**

**Collaborative Experiments and Tours in Introductory Plant Science Course;** I.P. Handayani, K. Wimberley, D. Ferguson and P. Williams, *Murray State University* **AUD 14**

**Assessing Undergraduate Research; Gains in Learning and Skills in Biology, Mathematics, and Biomathematics;** Terry Derting and Renee Fister, *Murray State University* **AUD 32**

**Medicinal Plants Taught as an Interdisciplinary Course: Content, Process, and Assessment;** Joyce V. Cadwaller, *Saint Mary of the Woods College* **AUD 33**

**Cooperative Learning Activities in Human Anatomy and Physiology;** Kathleen Marr, *Lakeland College* **TEC 210**

**TEC 214**

11:30 - 12:30 PM **Luncheon and First Business Meeting** **Auditorium Gallery**

- *First and Final Call for Nominations!!*
- *Out of this World Teaching Idea contributions*

1:00 – 1:45 PM **CONCURRENT WORKSHOP and ROUNDTABLES\* SESSION II**

**Effective Understanding of the Human Body Organs: A Role Play Activity for Deep Learning;** Abour Cherif<sup>1</sup>, Dianne Jedlicka<sup>1</sup>, Ateegh Al-Arabi<sup>2</sup>, Sujata Verma<sup>3</sup>, Robert Aron<sup>1</sup>, <sup>1</sup>*DeVry University*, <sup>2</sup>*Johnson County Community College*<sup>2</sup>, <sup>3</sup>*Ivy Tech State College*<sup>3</sup> **AUD 14**

**Nature Education Genetics;** Robin McGuire, **AUD 32**

*Nature Education*

	<b>*First-Year Biology Courses-The Good, The Bad and.....Teaching Well-Prepared and Under-Prepared Students in the Same Course;</b> Led by Aggy Vanderpool, <i>Lincoln Memorial University</i>	<b>AUD 33</b>
	<b>*The Adult Learner and Self-Assessment,</b> Led by Marya Czech, <i>Lourdes College</i>	<b>TEC 210</b>
	<b>*Sharing Ideas and Approaches to Program Level Assessment;</b> Led by Laura Salem and Chad Scholes, <i>Rockhurst University</i>	<b>TEC 214</b>
2:00-3:30	<b>Concurrent Workshop Session III</b>	
	<b>Effective Learning Outcomes;</b> Rebecca Burton, <i>Alverno College</i>	<b>AUD 14</b>
	<b>CSI Converse Summer Workshops-A Model for Promoting and Increasing Participation of High School Students in Sciences;</b> Neval Erturk and S Strickland, <i>Converse College</i>	<b>AUD 32</b>
	<b>The Experimental Design Ability Test (EDAT); An Assessment Strategy to Probe Critical Thinking;</b> Karen Sirum, <i>Bowling Green State University</i>	<b>AUD 33</b>
	<b>Digging in Time: Stories Fossils Tell;</b> Gerald Adams, Abour Cherif, <i>Columbia College Chicago, Devry University</i>	<b>TEC 210</b>
3:30-5:30 PM	<b>POSTER SESSION and SUSTAINING MEMBERS EXHIBITS</b>	<b>Auditorium Gallery</b>
	<b>Teaching About Plants Outside Biology Class;</b> Paul Weihe, <i>Central College</i>	
	<b>Addressing the Problem of the Underprepared Student in Literature-based Seminars;</b> David J Matthes and Devavani Chatterjea, <i>University of Minnesota</i>	
	<b>The Four Hour Introduction to Bioinformatics;</b> David J Matthes, <i>University of Minnesota</i>	
	<b>Using Pre-Assessment to Identify At Risk-Students in an Introductory Microbiology Course;</b> Alex Lowery, <i>Gainesville State College</i>	

**Ecological Issues in Soil Science Laboratory Course;** I. P. Handayani, *Murray State University*

**Integration and Evaluation of Research in a Cell Biology Lab—The Effect on Learning Outcomes;** Christine Bezotte, *Elmira College*

**From Phenotype to a Gene:** A Guided Inquiry Laboratory Series for Undergraduate Students: Irina Makarevitch, *Hamline University*

**The Neurobiology of Addiction: Assessment and Collaboration;** Debra Murray and Glenna Temple, *Viterbo University*

**Assessing Learning in Biology Classes;** Kim Fredricks and Debra Murray, *Viterbo University*

**Case Studies and Data Analysis Assignments as Tools for Improving Critical Thinking Skills in Anatomy and Physiology Courses;** Kristen Walton, *Missouri Western State University*

**Post-Course Communication with Non-Science Majors;** Lynn Gille, Todd Egan and Mary Anne Perks, *Elmira College*

**Modular Curriculum for Introductory Genetics Laboratory Course Using *Saccharomyces cerevisiae* as a Model Organism;** <sup>1</sup>Tristan J Lubinski, <sup>1</sup>Elizabeth M Denham, Michael J Piatelli, and <sup>2</sup>Gregory R Smith, *Boston College*, <sup>2</sup>*Lakeland College*

**Using Textbook Annotations as an Assessment Tool,** Neval Erturk, *Converse College*

**Podcasting Biology Text Figures: Student Opinions;** Kay Grimnes, *Alma College*

**Earth Day Organization: An Alternative Teaching approach;** Montante J<sup>1</sup>, Bee M<sup>2</sup>, Clark K<sup>2</sup>, Lanigan K<sup>2</sup>, Grabowski G<sup>2</sup>; <sup>1</sup>Macomb Community College, Macomb County, MI, <sup>2</sup>University of Detroit Mercy, Detroit, MI

**Title: Using Web-based Student Portfolios to Assess Program-Level Learning Outcomes in the Biology Major;** Karen Klyczek, Mark Bergland, and E. Katherine Miller Biology Department, University of Wisconsin-River Falls

6:00 - 7:00 PM    **Social Hour**    **Auditorium Gallery**

7:00 - 9:00 PM    **Dinner and Second Business Meeting**    **Auditorium Gallery**  
(two-minute speeches prior to dinner;  
balloting after dinner, new officers  
announced at end of presentation)

**The 2008 Out of this World Teaching Idea  
Award**

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8:00 – 9:00 PM    **Dinner Program**    **Auditorium Gallery**

**Dinner Speaker:**

**Making Student Centered Evaluation of  
Learning Work in the Classroom of the Future**

**Ellis Bell**, Laboratory for Structural Biology,  
Biophysics and Bioinformatics Department of  
Chemistry University of Richmond

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***Saturday, October 28th***

7:30 - 8:45 AM    **Continental Breakfast** (by Interest Group)

7:45 - 8:45 AM    **Bioscene Editorial Board Meeting**

8:45 - 9:30 AM    **CONCURRENT PAPER SESSION IV**

**Science Faculty Learning Communities  
Promote Scientific Teaching: The  
Participant Assessment of Learning Gains  
Survey (PALG);** Karen Sirum, *Bowling Green  
State University*

**Simplifying and Refining General Education**

**Learning Outcomes in Introductory Biology**

**Courses;** Bobby Ann Lee, *West Kentucky Community and Technical College*

**Anatomy and Physiology with Instrumentation for Engineering and Biomedical Technology;**

Robert Aron, Abour Cherif, Dianne Jedlicka, Bill Phillips, Robert Lundak, *DeVry University*

**Are My Exams as Bad as Students Say? A Three Semester Analysis of General Biology Exams;**

Chad Scholes, *Rockhurst University*

9:40 – 11:10  
AM

**CONCURRENT WORKSHOP SESSION II**

**Using *Physarum polycephalum* for Independent Research Projects for First Year Students;** Janice Bonner, *College of Notre Dame of Maryland*

**AUD 14**

**Biology 135 (Basic Anatomy and Physiology) A Course Revision Process: Covering All the Bases and Heading for Home;** Sharon Fugate, Marlena West, and Terry Tillen, *Madisonville Community College*

**AUD 32**

**Inquiry-based Laboratory Modules for Teaching and Assessing Basic Laboratory Skills in an Introductory Cell Biology Laboratory Using Zebrafish;** Melissa Daggett, *Missouri Western State University*

**TEC 217**

**Where Have All Those Good Cars Gone? Using the History of Cars as an Analogy to Introduce the Concept of Change Over Time by Natural Selection;** Jeremy Dunning<sup>1</sup>; Gerald Adams<sup>2</sup>; Abour H. Cherif<sup>3</sup>,  
<sup>1</sup>*Indiana University*, <sup>2</sup>*Columbia College Chicago*,  
<sup>3</sup>*DeVry University*

**TEC 210**

11:15 AM -  
12:15 PM

**Luncheon and Third Business Meeting**

Resolutions:

Marya Czech, *Lourdes College*

Executive Secretary Report:

Tom Davis, *Loras College*

*Bioscene:*

Steve Daggett, *Avila University*

Presidential Address:

Conrad Toepfer, *Brescia University*

2008 Meeting (53rd) at Rockhurst  
University

Program Chair: Melissa Daggett,  
*Missouri Western State University*

Local Arrangements Chair: Laura  
Salem, *Rockhurst University*

Adjournment: Conrad Toepfer President

12:30 – 1:30  
PM

**Steering Committee Meeting**

Includes newly elected members!