

# 2007 BioQUEST Workshop: Exploratory Evolution Education



Curriculum Consortium

**Saturday, June 9<sup>th</sup>**

<b>Noon</b>	Lunch	<b>Commons</b>
<b>1:00 PM</b>	<b>Welcome &amp; Introductions</b> John R. Jungck, BioQUEST Curriculum Consortium	<b>Mathers, Pearsons</b>
<b>1:45-2:15 PM</b>	<b>NESCent Education &amp; Outreach</b> Jory Weintraub & Kristin Jenkins, National Evolutionary Synthesis Center (NESCent)	
<b>2:15-3:00 PM</b>	<b>Workshop Overview &amp; Curriculum Reform in Evolution Education</b> Sam Donovan, University of Pittsburgh & Tony Weisstein, Truman State University	
<b>3:00-3:30 PM</b>	Break (snacks available in Chamberlin 215 throughout the week)	<b>Café Bio, Chamberlin 215</b>

**Phase I - NESCent SELECTION Project** - During this phase, participants take on the role of collaborative investigators while exploring evolution education in biology. Based on these explorations, teams of participants will develop and present projects on Monday afternoon.

<b>3:30-5:30 PM</b>	<b>Exploratory Evolution Education, Session A</b>	
	<b>Group 1: Tree of Life</b> Leaders: Katja Schulz, University of Arizona Sam Donovan, University of Pittsburgh Tony Weisstein, Truman State University	<b>Chamberlin 202</b>
	<b>Group 2: NUMB3R5 Count!</b> Leaders: Claudia Neuhauser, University of Minnesota Jory Weintraub, NESCent John R. Jungck, Beloit College	<b>Chamberlin 214</b>
<b>6:30 PM</b>	Wine and hors d'oeuvres	<b>President's Lounge, Chapin</b>
<b>7:15 PM</b>	Dinner	<b>President's Lounge, Chapin</b>
<b>8:15-9:30 PM</b>	<b>The Changing Landscape of Molecular Evolution</b> Keynote Speaker: Marta L. Wayne, University of Florida President, Society for Molecular Biology and Evolution	<b>President's Lounge, Chapin</b>



**Sunday, June 10<sup>th</sup>**

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<b>8:00 AM</b>	Breakfast	<b>Commons</b>
<b>9:00–11:00 AM</b>	<b>Exploratory Evolution Education, Session B</b>	
	<b>Group 1: NUMB3R5 Count!</b>	<b>Chamberlin 214</b>
	Leaders: Claudia Neuhauser, University of Minnesota Jory Weintraub, NESCent John R. Jungck, Beloit College	
	<b>Group 2: NESCent and BioQUEST: Investigative Cases</b>	<b>Mayer 222 &amp; Wood Room</b>
	Leaders: Kristin Jenkins, NESCent Margaret Waterman, Southeast Missouri State University Ethel Stanley, BioQUEST	
<b>12:00-1:00 PM</b>	Lunch	<b>Commons</b>
<b>1:00-3:00 PM</b>	<b>Exploratory Evolution Education, Session C</b>	
	<b>Group 1: NESCent and BioQUEST: Investigative Cases</b>	<b>Mayer 222 &amp; Wood Room</b>
	Leaders: Kristin Jenkins, NESCent Margaret Waterman, Southeast Missouri State University Ethel Stanley, BioQUEST	
	<b>Group 2: Tree of Life</b>	<b>Chamberlin 202</b>
	Leaders: Katja Schulz, University of Arizona, Sam Donovan, University of Pittsburgh Tony Weisstein, Truman State University	
<b>3:00 -3:30 PM</b>	Break (snacks available in Chamberlin 215 throughout the week)	<b>Café Bio, Chamberlin 215</b>
<b>3:30 – 5:15 PM</b>	<b>First project work session: Group formation and first project design</b>	
<b>5:15 PM</b>	Dinner	<b>Commons</b>
<b>6:30-9:00 PM</b>	<b>First project work session</b>	
<b>7:30-9:00 PM</b>	<b>NESCent SELECTION Working Group</b>	<b>Ruth Peterson Room</b>



**Monday, June 11<sup>th</sup>**

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<b>8:00 AM</b>	Breakfast	<b>Commons</b>
<b>9:00-10:00AM</b>	<b>The Biological ESTEEM Project: Excel Simulations and Tools for Exploratory, Experiential Mathematics</b>	<b>Mathers, Pearsons</b>

**(Primarily population genetics)**

John Jungck, Beloit College & Tony Weisstein, Truman State University

<b>10:00-10:30 AM</b>	Break	<b>Café Bio, Chamberlin</b>
<b>10:30-12:00</b>	<b>First project work session/ NESCent SELECTION Working Group</b>	<b>Ruth Peterson Room</b>
<b>12:00-1:00 PM</b>	Lunch	<b>Commons</b>
<b>1:00-3:30</b>	<b>First project work session</b>	
<b>3:30-5:45 PM</b>	<b>First project poster presentation: Exploratory Evolution Education</b>	<b>Moore Lounge, Pearsons Hall</b>
<b>5:45 PM</b>	Dinner	<b>Commons</b>

**Phase II** - During the second phase of the workshop, participants take on the role of adopters, adapters and reviewers to extend the utility of existing materials and tools.

<b>7:30-9:00 PM</b>	<b>Introduction to Phase II: “The Scholarship of Teaching and Learning” Marion Field Fass, Beloit College &amp; Margaret Waterman, Southeast Missouri State University</b>	<b>Mathers, Pearsons</b>
	<b>NESCent SELECTION Working Group</b>	<b>Ruth Peterson Room</b>



**Tuesday, June 12<sup>th</sup>**

<b>8:00 AM</b>	Breakfast	<b>Commons</b>
<b>9:00-10:30AM</b>	<b>Overview of group project and materials development and expanded individual introductions</b>	<b>Mathers, Pearsons</b>
<b>11:00-Noon</b>	<b>Tree Thinking Sam Donovan, University of Pittsburgh</b>	<b>Ruth Peterson Room</b>
<b>Noon-3:30 PM</b>	Lunch and free time	<b>Commons</b>
<b>3:30-5:30 PM</b>	<b>BioQUEST Software Laboratory Session Evolve, Bee Visit, BIRDD, BGUILE, GCK, etc.</b>	<b>Ruth Peterson Room</b>
<b>6:00 PM</b>	Dinner (We recommend that you arrive at Commons before 6:15.)	<b>Commons</b>
<b>7:30 PM</b>	<b>Group formation and resource exploration time</b>	<b>Mathers, Pearsons</b>



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**Wednesday, June 13<sup>th</sup>**

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<b>8:00 AM</b>	Breakfast	<b>Commons</b>
<b>9:00–10:30AM</b>	<b>Group project and materials development work</b> <b>Sign up to meet with Curriculum Project staff</b> Meet with Project Staff of the Curriculum Projects	
<b>10:30–Noon</b>	<b>Molecular Genetics Explorer</b> Brian White, University of Massachusetts	<b>Chamberlin 202</b>
<b>12:00-1:30 PM</b>	Lunch	<b>Commons</b>
<b>2:00–3:30PM</b>	<b>Group formation and resource exploration</b> <b>Sign up to meet with Curriculum Project staff</b> Meet with Project Staff of the Curriculum Projects	
<b>4:00–5:00 PM</b>	<b>Visual Learning</b> Maura Flannery, St. John’s University, in absentia Ethel Stanley, Beloit College	<b>Mathers, Pearsons</b>
<b>5:30 PM</b>	Dinner (We recommend that you arrive at Commons before 6:15.)	<b>Commons</b>
<b>6:30-7:15 PM</b>	<b>Web-based Collaborative Tools</b> Sam Donovan, University of Pittsburgh	<b>Mathers, Pearsons</b>
<b>7:30-9:00 PM</b>	<b>Annual Learning Materials 4-H Show</b> Participants share curricular materials	<b>Mathers, Pearsons</b>



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**Thursday, June 14<sup>th</sup>**

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<b>8:00 AM</b>	Breakfast	<b>Commons</b>
<b>Phase III</b> - During the third and final phase of the workshop, participants develop new curricular materials in evolution education. These materials will draw on published data sets and be primarily applicable to undergraduate education. These initial projects are submitted online and displayed on our website for access by our broader BioQUEST community. Finished projects will be made available by NESCent.		
<b>9:00-11:00 AM</b>	<b>Group project work time</b>	
<b>11:00-Noon</b>	<b>Evolvability and Other Themes from Evo-Devo</b> Bill Wimsatt, University of Chicago	<b>Chamberlin 202</b>
<b>Noon-1:00 PM</b>	Lunch	<b>Commons</b>
<b>1:00-5:30 PM</b>	<b>Group project work time</b>	
<b>6:00 PM</b>	Picnic	<b>Logan Museum</b>

7:00 PM Tour of Logan Anthropology Museum, Nicolette Meister

7:30 PM Tour of Wright Art Museum, Judy Newland



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## Friday, June 15<sup>th</sup>

8:00 AM Breakfast Commons

9:00-10:30 AM Group project work time

10:30-10:45 PM Break

10:45- 12:00 Group project work time

12:00-2:00 PM Lunch and free time Commons

2:00-3:00 PM OER Commons Ruth Peterson Room

3:00-4:30 PM Group project work time

4:30-5:30 PM Exploratory Evolution Education: Where Do We Go From Here?  
NESCent  
BioQUEST Curriculum Consortium Mathers, Pearsons

5:45 PM Dinner Commons

7:00-9:00 PM Music at Harry's Place The Harry C. Moore Pavilion Riverside Park



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## Saturday, June 16<sup>th</sup>

8:00 AM Breakfast Commons

8:30-12:00 PM Group project work time

12:00-1:30 PM Lunch Commons

1:30-3:00 PM Group presentations, Session #1 Ruth Peterson Room

3:00-3:30 PM Break

3:30-5:00 PM Group presentations, Session #2 Ruth Peterson Room

5:00 PM Dinner Commons

7:00 PM Dessert at John Jungck's



**Sunday, June 17<sup>th</sup>**

8:00 AM	Breakfast	Commons
9:00-10:00 PM	Evaluation	Ruth Peterson Room
10:00-12:00	Group presentations, Session #3	Ruth Peterson Room
12:00-1:00 PM	Lunch	Commons

Van Galder Shuttle buses depart for O'Hare Airport at 12:55 and 2:25 and 3:55 from South Beloit. You may check <http://www.vangalderbus.com/vgschedule.html> to see when each bus arrives at O'Hare. We will begin running a shuttle van to the Ramada at 12:15 p.m. You should plan to arrive at the O'Hare airport at least 1.5 hours prior to departure.