2008 BioQUEST Workshop
Problem Solving in Biology:
Data, Tools and Resources from Plant Science

Saturday, June 14th

10:00 AM  (Optional) Tour of the Herbarium at the Missouri Botanical Gardens (MBG)
MBG Staff
Claire Hemingway, Botanical Society of America

Noon       Lunch MBG

1:00 PM  Welcome & Introductions    CBEC Classrooms
John R. Jungck, BioQUEST Curriculum Consortium

BSA Education & Outreach
Claire Hemingway, Botanical Society of America

Workshop Overview & Curriculum Reform in Undergraduate Biology
Ethel Stanley, BioQUEST, Beloit College & Sam Donovan, University of Pittsburgh

Phase I - During this two day phase, we will collaboratively explore data, tools, and
resources in contemporary plant biology. Based on these experiences, groups of
participants will develop their own project to present on Tuesday morning.

2:00-4:00 PM  Problem Solving in Biology, Session A

Group 1: GIS in Research and Education
Leaders: Bob Coulter, Missouri Botanical Gardens
Ethel Stanley, BioQUEST Beloit College

Group 2: Dessication Tolerance Problem Space: Evolution of Resurrection Plants
Leaders: Kristin Jenkins, NESCent
Sam Donovan, University of Pittsburgh

4:15 – 5:00 PM  Refreshments

5:00 PM       Dinner

6:00 PM  Plant Biology of Cassava/ Education Outreach
Keynote Speaker: Barbara Schaal, Washington University

8:00 PM       Return to the Hotel
7:00 AM  Breakfast On your own at the hotel
    Please checkout and bring luggage to MBG shuttle

8:15 AM  Shuttle to MBG

9:00–11:00 AM  Problem Solving in Biology, Session B

    Group 1: Plant Genomics:
        Leaders: Kenneth M. Olsen, Washington University
                  John R. Jungck, Beloit College

    Group 2: GIS in Research and Education
        Leaders: Bob Coulter, Missouri Botanical Gardens
                  Ethel Stanley, BioQUEST, Beloit College

12:00-2:00 PM  Lunch - MBG: Extra time for those wishing to walk the MBG

2:00-4:00 PM  Problem Solving in Biology, Session B

    Group 1: Strategies for Exploring Growth Data
        Leaders: Yaffa Grossman, Beloit College
                  Tony Weisstein, Truman State University

    Group 2: Plant Genomics
        Leaders: Kenneth M. Olsen, Washington University
                  John R. Jungck, Beloit College

4:15 – 6:15 PM  Travel to Southeast Missouri State University. Shuttle available to participants.
                (Snacks onboard the shuttle; travel snacks for drivers)

6:15 – 6:45 PM  Check into your dorm room

6:45 PM  Dinner - UC Party Room

7:30-9:00 PM  Phase I Project Work Session - UC 205 + CSI
Monday, June 16th

8:00 – 9:00 AM  Breakfast     University Center Food Court (UC)
     (Be sure that you have your food tickets)

9:00-10:00AM  Introduction to the University Center, Kent Library and University Resources - Ballroom
     Dean Chris McGowan, College of Science and Mathematics
     Margaret Waterman, Godwin Center, Southeast Missouri State University
     April Huffman, Godwin Center, Southeast Missouri State University

10:00-10:30 AM Break - Party Room UC

10:30-12:00  OER Commons: Web-based Collaboration, Multidisciplinary Resources
     Missouriana Room
     Cynthia Jimes and Mark Basnage, Institute for the Study of Knowledge Management in Education
     Sam Donovan, University of Pittsburgh

12:00-1:00 PM  Lunch - Partyroom

1:00-3:30  Phase I Project Work Session - UC meeting rooms and 205, CSI, etc.

3:30 –4:00  Break - Indian Room or 205

4:00 – 5:00  Introducing Case Based Learning with Plant Science – UC Missouriana Room
     Eric Ribbens, Western Illinois University
     Margaret Waterman, Southeast MO State University,
     Ethel Stanley, BioQUEST, Beloit College

5:30 PM  Dinner - UC Party Room

7:00 – 9:00 PM  Additional Work Time - UC 205 and CSI
Tuesday, June 17th

8:00 AM Breakfast - UC

9:00-10:15AM Phase I Project Poster Presentation: Problem Solving in Biology Using Tools Data and Resources from Plant Science. UC Party Room

10:15-10:30 Break

10:30-Noon Introduction to Phase II - UC Missouriana Room

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

Overview of group project and materials development and expanded individual introductions

Noon-1:00 PM Lunch - UC Party Room

1:30-4:00 PM Introduction to the BioQUEST Library VII OnLine - Little Theatre, Kent Library

Bee Visit, Peach, LateBlight, Developmental Selection, Visual Datasets (Oh Phlox, Dendrogrammaceae), Environmental Decision Making: Prairie Simulation, Forest Simulation, Biosphere II simulation, 3D FractaL-Tree, Molecular Genetics Explorer, Evolve, Genetics Construction Kit.

4:00 – 6:00 Time on your own

6:00 PM Dinner - UC Party Room

7:30 – 10:00 PM Group formation and resource exploration time for Phase II Project - UC 205 and CSI
8:00 AM  Breakfast - UC

9:00–10:30AM  Group project and materials development work - UC205, CSI, public spaces, Missouriana
Sign up to meet with Curriculum Project staff

10:00 – 10:30  Break - Indian Room

10:30–Noon  Introduction to ESTEEM Tools - Missouriana Room
Tony Weisstein, Truman State University
John Jungck, Beloit College

12:00-1:30 PM  Lunch - UC Party Room

2:00–5:00 PM  Group formation and resource exploration - UC 205, CSI, public spaces and Missouriana
Sign up to meet with Curriculum Project staff

5:30 PM  Dinner - UC Party Room

6:30-8:00 PM  Annual Learning Materials 4-H Show -UC Party Room
Participants share curricular materials

8:00-10:00 PM  Work Time -UC 205 and CSI
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 AM</td>
<td>Breakfast - UC</td>
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<tr>
<td>9:00-11:00 AM</td>
<td>Group project work time - UC 205, CSI, public spaces and Missouriana Room</td>
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<td>11:00-Noon</td>
<td><strong>BSA and the PlantingScience Project - Missouriana Room</strong></td>
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<td>Claire Hemingway, Botanical Society of America</td>
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<td>Noon-1:00 PM</td>
<td>Lunch - UC Party Room</td>
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<td>Group project work time- UC 205, CSI, public spaces and Missouriana Room</td>
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<td>6:00 PM</td>
<td>River Campus Picnic</td>
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<td>7:00 – 10:00</td>
<td>Work Time - UC 205, CSI</td>
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Friday, June 20th

8:00 AM  Breakfast - UC

8:30-12:00 PM  Group project work time - UC 205, CSI, public spaces and Missouriana Room

12:00-1:00 PM  Lunch - UC Party Room

1:15-3:15 PM  Group presentations, Session #1 - UC Ballroom

3:15-3:45 PM  Break - UC 205

3:45-5:45 PM  Group presentations, Session #2 - UC Ballroom

6:00 PM  Dinner on your own

7:00 PM  Tunes at Twilight, Common Pleas Courthouse Lawn, Old Town Cape

7:00-9:00 PM  Work time - UC 205, CSI
Saturday June 21st

8:00 AM  Breakfast - UC

9:00-10:00 PM  Dorm checkout  Evaluation - UC Missouriana Room

10:00-12:00  Group presentations, Session #3 - UC Ballroom

12:00-1:00 PM  Lunch - UC Party Room

Shuttle departs for Lambert St. Louis Airport at 1 PM from Vandeven Hall.