Bioinformatics Workshop for K-12 Math & Science Teachers

Welcome to our 3rd annual lab development workshop! It is all about BIOINFORMATICS!

Program Goals

(1) To bring K-12 math & science teachers, school administrators and SBU faculty together for a discussion on the current status of math and science education at both K-12 and college levels. Any challenges recognized from the discussion can lead to opportunities for networking and new partnerships between K-12 schools and SBU math & science departments and/or between K-12 schools for both short-term and long-term purposes.

(2) To provide a hands-on experience for K-12 math & science teachers to collaborate on lessons for integrating computer software, mathematics modeling into biology topics. Teachers will practice lab activities transferable to HS classroom to provoke student interests in the STEM field.

Program Schedule

<table>
<thead>
<tr>
<th>TIME</th>
<th>ACTIVITIES</th>
<th>LOCATION (Building# on map)</th>
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</thead>
<tbody>
<tr>
<td>July 24th (Monday)</td>
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<tr>
<td>7:15AM – 3:30PM</td>
<td>Field Trip</td>
<td>BNMC &amp; RPCI</td>
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<tr>
<td>July 31st (Monday)</td>
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<tr>
<td>8:30AM – 9AM</td>
<td>Registration &amp; Breakfast</td>
<td>University Club (#18)</td>
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<tr>
<td>9AM – 12PM</td>
<td>Round Table Discussion</td>
<td>University Club (#18)</td>
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<tr>
<td>12PM – 1PM</td>
<td>Lunch Talk Speaker: Dr. Joe Zawicki (Buffalo State)</td>
<td>University Club (#18)</td>
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<tr>
<td>1PM – 3PM</td>
<td>Bioinformatics 101 &amp; Lab 1</td>
<td>Walsh 107 (#27)</td>
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<tr>
<td>August 1st (Tuesday)</td>
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<tr>
<td>9AM – 12PM</td>
<td>Bioinformatics Lab 2</td>
<td>Walsh 107 (#27)</td>
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<tr>
<td>12PM – 1PM</td>
<td>Lunch Talk Speaker: Dr. Joel Benington (SBU)</td>
<td>University Club (#18)</td>
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<tr>
<td>1PM – 3PM</td>
<td>Bioinformatics Lab 3</td>
<td>Walsh 107 (#27)</td>
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<tr>
<td>August 2nd (Tuesday)</td>
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<tr>
<td>9AM – 12PM</td>
<td>Bioinformatics Lab 4 &amp; 5</td>
<td>Walsh 104 (#27)</td>
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<tr>
<td>Time</td>
<td>Event</td>
<td>Location</td>
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<tr>
<td>12PM – 1PM</td>
<td>Lunch Talk</td>
<td>University Club (#18)</td>
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<td></td>
<td>Speaker: Dr. Xiao-Ning Zhang (SBU)</td>
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<tr>
<td>1PM – 3PM</td>
<td>Bioinformatics Lab 6</td>
<td>Walsh 104 (#27)</td>
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<tr>
<td>August 3rd</td>
<td>(Wednesday)</td>
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<tr>
<td>9AM – 12PM</td>
<td>Bioinformatics Lab 7</td>
<td>Walsh 107 &amp; 104 (#27)</td>
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<tr>
<td>12PM – 1PM</td>
<td>Lunch Talk</td>
<td>University Club (#18)</td>
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<td></td>
<td>Speaker: Mr. James Schifley (CA-BOCES)</td>
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<tr>
<td>1PM – 2PM</td>
<td>Prepare lesson plan</td>
<td>Walsh 107 &amp; 104 (#27)</td>
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<tr>
<td>2PM – 3PM</td>
<td>Teacher Presentations</td>
<td>Walsh 107 (#27)</td>
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</tbody>
</table>

**Participant List**

**Belfast Central School**  
Arnold, Mary Beth  
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**Bemus Point CSD (Maple Grove Jr Sr High)**  
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**Conrad Weiser High School**  
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**Immaculate Conception School of Allegany County**  
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CA-BOCES
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St. Bonaventure University
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