Approaches to K-12 Outreach in Chemistry

John Montgomery
University of Michigan
Intersection of Scholarship, Teaching, & Outreach
Visits with Large Organized Programs

Michigan State Science Festival (Lansing), F.E.M.M.E.S. event (UM Chemistry)
Federal Funding Connections

“The energy at the festival was amazing! People from all walks of life gathered with open minds to learn about science.”

-Mike Gilbert
(Montgomery Group)

THANK YOU
David Sherman
John Montgomery
Michael Gilbert
(Montgomery)
Hillary Kerch
(Montgomery)
Kelly Montgomery
(MSU/CSURP –Sherman)
Alex Nett (Montgomery)

Figure 1. CBI trainees and visiting students interacting at the CBI activity booth at the 2015 FEMMES capstone event.
Connections with CSP

• Comprehensive Studies Program (CSP) is a community of scholars - students, faculty, advisors and staff - organized around the principles of diversity, access, equity and inclusion.

• A new CSP companion class to introductory organic chemistry was introduced in F17, which I taught in F17 and F18.

• Many of the CSP students come from communities nearby where U of M would like to do better outreach.

• The students are very interested in giving back to their communities and are a great connection for outreach to their high schools.

• Outreach connections provide a way for me to do more effective outreach and also to better engage with and support CSP students.
CSP student participant from AAPS – incredibly inspiring for the students to see!
A Visit from Burns Park Elementary
Message from the student: the path from *that classroom* to UM.

Applying to college, fitting in at a large university, getting involved in research and campus activities, how to pay for it, choosing a major, etc.
A Visit to John Glenn High (Westland)

Places where we could provide joint perspectives:

Connecting with faculty on a large campus, finding support mechanisms like CSP, crafting a strong application that highlights your strengths and trajectory, value of diversity on college campuses and the workplace, opportunities after college.
Intersection of Scholarship, Teaching, & Outreach

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