



## CHEMISTRY Best Practices Sharing Session

April 21, 2020

### Attendees:

1. Nathalie Dames TCSG
2. Katherine, Gwinnett Technical College
3. Pam Warren TCSG
4. Jan Thompson, North Georgia.
5. Dr. Morris Clarington Central Georgia Technical College
6. Susan Todd Ogeechee Technical College
7. Rachel Evans Savannah Technical College
8. Michelle Likins - North Georgia Technical College
9. Alicia Anderson Columbus Technical College
10. Patti Howell SRTC
11. Ebenezar Achionye- GPTC
12. Roger Wygant Oconee Fall Line TC
13. Al Harmon-Central GA Tech

### Points of Discussion:

The purpose of this meeting was to address the needs of general education faculty in light of the recent quick transition to virtual learning for all course. The following questions were presented during the meeting:

- GVTC Resources: <https://gvtc.tcsg.edu/deac>
- Are there any talks about if practicum should be offered in summer or conversations about pushing it back to the fall
- What have you had to change to accommodate online instruction?
- What suggestions do you have for your peers?
- Where do you need assistance?

### Discussion Notes:

- The GVTC Resources: <https://gvtc.tcsg.edu/deac> website was shared.
  - Below are some of the links for virtual labs
  - Open learning initiative: <https://oli.cmu.edu/?s=COVID-19>
  - The Virtual Lab is an online simulation of a chemistry lab. It is designed to help students link chemical computations with authentic laboratory chemistry. The lab allows students to select from hundreds of standard reagents (aqueous) and manipulate them in a manner resembling a real lab: [http://chemcollective.org/activities/type\\_page/1](http://chemcollective.org/activities/type_page/1)
  - Phet chemistry: <https://phet.colorado.edu/en/simulations/category/chemistry>
  - Oxford virtual chemistry: <http://www.chem.ox.ac.uk/vrchemistry/labintro/newdefault.html>
  - Virtual Chemistry Experiments are a collection of interactive web-based chemistry tutorials. The current generation of tutorials (currently in development) are based upon HTML5 and run on most modern web browsers: <https://www.chm.davidson.edu/vce/>
- GIZMO <https://www.explorelearning.com/>



- Has several labs for physics and chemistry.
- Very reasonable pricing
- They are looking to see if they can have for multiple courses and if it integrates with Blackboard.
- Quizizz <https://quizizz.com/> and Kahoot <https://kahoot.com/>
  - Quick assessments
  - Good for review.
  - You can add questions of your own easily or pull from a huge bank of questions available.
- McGraw-Hill <https://www.mheducation.com/highered/chemistry.html>
  - Has several resources for chemistry labs
  - They are currently offering free access.
- PHET <https://phet.colorado.edu/m/>
  - Has labs available
  - They also have some good games with balancing equations and they were able to assign it as a lab for student credit.
- Has limited labs been discussed
  - No
  - Schools that typically offered summer lab sections were working on offering online labs for their summer term courses as well.
- <https://chemdemos.uoregon.edu/>
  - Many already have writeups that are college level.
  - The calorimetry sim was used.
- Questions about course articulation
  - Question has been asked. We are waiting for a response.
  - Previously in the articulation agreement talks it was specified that the labs would occur face to face and not virtually
- Lab kits were discussed
  - This would give the students the necessary hands on experience
  - Liability was discussed
    - Students signed an agreement with the company and not the school
- Statewide Curriculum
  - Changes were discussed including the possibility of removing labs from their courses. This has not been confirmed.
- Testing security
  - Respondus Lockdown browser and monitor
    - Training is being offered. <https://web.respondus.com/webinars/>
    - Contact Pam Warren if you need assistance [pwarren@tcsg.edu](mailto:pwarren@tcsg.edu)
  - TopHat was another platform used for lockdown browser
  - General format of tests
    - Randomize both questions and answers
    - Do not allow students to review the test after it is submitted.
    - Timed
    - Test pools



- Uploading hand written work for teacher to grade
- Mix question types Essay, short answer, multiple choice, matching etc
- Limited the availability of the test