

CDO STEM Council
Thursday, January 30, 2020

Present:

Christian Harris (chair), christian.harris@labor.ny.gov

Regional Labor Market Analyst – Southern Tier

Elizabeth Rickard (chair) erickard@milfordcentral.org

Career Opportunities in Rural Education, director

Andy Abler a.abler@yahoo.com Otsego STEM professional

Doug Reilly, Douglas.Reilly@oneonta.edu AJ Read Science Discovery Center

Aaron Sorenson, crtcny.org@gmail.com Catskill Regional Teacher Center

William Pietraface William.Pietraface@oneonta.edu

Retired SUNY Oneonta professor and GO STEM Institute director

Caitlyn Davey, caitlynregina@gmail.com

Oneonta World of Learning/West Kortright Centre, CDO STEM marketing consultant

(Doug Reilly)

CDO GO STEM Institute 2020

10th Annual GO STEM Institute

Confirmed theme= “Building with Biology” (Synthetic Biology, CRISPR, etc)
w/ Professors Kelly Gallagher (Chemistry & Biochemistry) & Jill Fielhaber (Biology)
Based on SUNY Oneonta IGEM competition participation
<https://www.igem.org/Competition> (International Genetically Engineered Machine)

Other available resources:

NISE (National Informal STEM Education) Building with Biology kits

<https://www.nisenet.org/search/kit/building-biology-kit-2818>

(format model=presentation w/ a framework for structured group conversations)

Need Zoom/Skype-equipped room? Must reserve.)

Take home ideas?

Send sponsor/grant idea to Doug

Tentative Dates: July 13-17

How to better serve students in higher need districts? (Norwich, Oxford, etc)

Talk to schools about providing transportation

Custom poster including

sliding scale, lunch included, transportation provided (if applicable)

Can there be a separate section for teachers to learn? (Coordinate w/ Aaron)

Full day 'trial run' w/ teachers?

Teachers as audience for final projects/presentations?

Discuss occupational trends

Industry tour? 1 day bus trip w/ ~3 locations?

What are the related jobs? Any local connections?

(from November: give job titles to Martha Ryan & she will research)

ryanm@dcmoboces.com

Also, ask SUNY Cobleskill

Suggestions: FrieslandCampina (Delhi) <https://www.frieslandcampina.com/en/>

Mallinckrodt Pharmaceuticals (Hobart) <http://mallinckrodt.com/>

Grant info:

<http://www.mallinckrodt.com/corporate-responsibility/community-outreach/mallinckrodt-community-giving/>

Corning, Inc (Oneonta)

<https://www.corning.com/worldwide/en/products/life-sciences.html>

Taconic BioScience (Rensselaer) <https://www.taconic.com/>

Masonic Medical Research Laboratory (Utica) <https://www.mmrl.us/>

Norwich Pharma Services (Alvogen) <http://www.norwichpharma.com/>

(Caitlyn Davey)

Marketing & Communications Consultant

Scope of work:

Creation of a marketing plan for GO STEM Institute including emails, posters, mailings, website, facebook and other channels.

Regularization of bi-monthly meeting announcements, agenda-setting and minutes.

Design and implementation of CDO-STEM marketing to 1) increase membership and 2) increase current member engagement.

Redesign of facebook page and CDO-STEM website.

Coordination of additional CDO-STEM programming and communications.

Work Timeframe: The work will be completed in three months (by 4/27/20) at which time the plan will be evaluated and further work scope planned, if needed.

Website Suggestions:

Change “Partners” to “Sponsors”; list all to-date sponsors (\$ & in-kind)

Replace “News” with....”Teacher Support”?

Add Facebook events plugin to “Events” page

Change “Forum” to....”Members” (?) & list CDO STEM Council connections

Model pulldown menus to reflect CDO STEM goal-areas?

The CDO-STEM partnership hopes to make a difference in the local STEM the help increase the number of:

- *Secondary school students studying advanced STEM-related subjects*
- *Students prepared to major in STEM disciplines in college and graduate school*
- *New educators within the STEM disciplines who will approach science and math in interesting and engaging ways and lead students in scientific inquiry*
- *New and effective methods to provide “re-tooling” and training to strengthen the skills of the current workforce*

Include CORE videos on website?

<https://www.youtube.com/channel/UCwhLeI0lhJRWIjrRIelbnQ>

Brainstorming

CDO STEM ideas & suggestions for affiliated partners

Engage w/ students to create videos highlighting local STEM businesses & opportunities

Tools (online survey?) for schools to inventory their STEM resources & programs (Liz Rickard, CORE)

Use & promote #randomactsofSTEM

Promote teacher training resources:

NISE (National Informal STEM Education) outreach boxes <https://www.nisenet.org/kits>

Similar programs (Cornell? Others?)

Future meetings: Featured Business and/or Theme

How is tech impacting local business?

Employment outlook?

Skills gap?

Occupational needs—short and long term; competency-related needs

CDO STEM-presented event proposal

Open to the public?

Ben Guenther from Five Star Subaru has in the past offered to rent Foothills for a STEM event Planning meeting on Thursday, March 5

(Liz Rickard)

Regional STEM connections

STEM Ecosystems

<https://www.tiesteach.org/>

National survey of STEM education resources: in-school, organizations, libraries, etc

Southern Tier STEM Hubs

working on microcredentials, etc. (Also SUNY [microcredentials](#))

Greater Southern Tier BOCES Science / STEM Resource Center

<http://www.gstboces.org/stem/>

Eastern Southern Tier STEM Hub <https://eststem.com/>

Listserv link?

<Most at-risk local schools: Oxford, Norwich>

Opportunity for upcoming seniors:

Oakridge National Laboratory (TN)

https://www.arc.gov/program_areas/ARCOakRidgeSummerPrograms.asp

Appalachian Entrepreneurship Academy

https://www.arc.gov/program_areas/appalachianentrepreneurshipacademy.asp

Catskill Regional Teacher Center newsletter reminder: Submit information that may be of interest to teachers & their students to Aaron

Upcoming meetings: January 30, March 5 (event planning) March 26, May 28
9AM, Morris Hall
(Theme suggestions welcome)