K-12 STEM Outreach COI Webinar/Telecon

28 July 2020

Presenters

Jeff Leonard, COI Chair
Liza Grudin, COI Vice-Chair for Strategic Alliances
K-12 STEM Outreach COI Webinar/Telecon

Agenda

Opening/Welcome
Strategic Partner Profile – ACE Mentor Program
Best Practice Virtual Outreach Discussion
K-12 STEM Outreach Annual Work Plan/Call for volunteers
Post STEM programming Reports
Discussion of TME STEM Corner Ideas
Items to consider for the next call
Open Forum - Needs of Posts
Opening Remarks

1. Welcome everyone
2. Thank you to ACE Mentor Program for participating
3. RVP Discussion
4. COVID - 19
STEM Partner Profile

Diana Eidenshink
President
deidenshink@acementor.org
MISSION

To ENGAGE, EXCITE and SUPPORT high school students through mentoring and internships to pursue a career in architecture, engineering and construction.
ACE’s primary goals are to:

- Create a **diverse, better** prepared workforce for our industry

- Assist and guide students as they proceed along their pathways to opportunities related to our industry
STATISICAL PROFILE

- ACE currently operates in **77 affiliates** covering 36 states, the District of Columbia, Puerto Rico and in more than 200 cities.
- Over **10,000 students** and about **4,100 mentors** each year.
- ACE has awarded more than **$20 million in scholarships** to students.
- **92% of ACE graduates enroll in higher education** and two-thirds enter majors linked to the design and construction industry.
- Students come from over **1,100 high schools** and 2/3 come from underserved or minority communities.
- Almost **70% of students are minorities** and one-third are young women.
In terms of gender and race, ACE college freshmen planning majors in architecture and engineering are more diverse than their counterparts nationwide, in some cases by almost double.

### Women College Freshmen

<table>
<thead>
<tr>
<th>Category</th>
<th>2019 (%)</th>
<th>Nationwide 2018 (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture</td>
<td>56%</td>
<td>50%</td>
</tr>
<tr>
<td>Engineering</td>
<td>31%</td>
<td>18%</td>
</tr>
</tbody>
</table>

### African American + Hispanic College Freshmen

<table>
<thead>
<tr>
<th>Category</th>
<th>2019 (%)</th>
<th>Nationwide 2018 (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture</td>
<td>24%</td>
<td>15%</td>
</tr>
<tr>
<td>Engineering</td>
<td>27%</td>
<td>15%</td>
</tr>
</tbody>
</table>

**DATA SOURCES**

1. ACE Database of Registered Students
3. ACE 2019 Survey of Students (n=2,609, margin of error +/- 1.8%).
4. Higher Education Research Institute, UCLA. 2018 CIRP Freshman Survey. This survey is based on responses from 126,056 first-time, full-time students beginning their studies at 202 four-year colleges and universities of varying selectivity and type in the U.S. The data was statistically weighted to reflect all first-time, full-time baccalaureate students in the U.S. in
A variety of networking opportunities with other professionals in the local design and construction community.

The gratification that comes with sharing knowledge and wisdom with students.

The program helps you develop a variety of skills, such as leadership, teamwork, and communicating technical concepts to lay audience.

The program may help satisfy requirements associated with professional licensure.
Virtual STEM Camp at USNA
SAME Announces First Virtual STEM Camp
In Collaboration with the US Naval Academy
Made Possible by a Network of Sponsoring Posts
July 27-31st

This virtual camp experience is being offered FREE of charge to all the campers that were part of our Engineering & Construction camp selection process thanks to the generous support of the following SAME Posts:

Albuquerque     Cincinnati     Kentuckiana       Omaha     Sacramento
Anchorage       DelMarVa       Kittyhawk         Orange County San Diego
Arkansas         Denver          Lake Michigan       Oxnard     San Francisco
Atlanta          Emerald Coast   Mobile            Panama City Scott Field
Baltimore        Ft. Leonard Wood Narragansett Bay Philadelphia Pittsbug
Big Sky          Great Basin     Nashville          Pikes Peak Vicksburg
Cape Fear        Hampton Roads   New York Capital District Pittsburg Vicksburg
Central VA       Huntington      Norther Virginia   Robins AFB Vicksburg
Chicago          Huntsville     New York City      Rock Island Washington, DC
Updates to the K-12 STEM Outreach COI Work Plan

1. Fill out K-12 STEM Outreach Leadership Team
2. Update Webpage/SharePoint sight
3. Hold Monthly telecons
4. Feature one of our Strategic Alliances on the Monthly COI Telecon
5. Increase the number of Posts who have identified a STEM POC
6. Update our charter to include language/verbiage to align with the new 5-Year Strategic Plan
K-12 STEM Virtual Outreach Discussion

1. Open forum discussion of ideas of virtual outreach
2. Are your K-12 schools going virtual this fall? Or are they in session, but limiting guest appearances
3. Platforms
4. Projects
5. Presentations
K-12 STEM Outreach Post Programs Report

1. What has your Post been up to . . .?
TME STEM Corner Article Ideas

Goal is to provide a K-12 STEM Outreach message to the membership:
• STEM Activities
• Partnerships
• Resources
• Best Practices
• Opportunities

Next STEM Corner article will feature the Virtual STEM Camp.
Items to consider for the next call

1. What to Feature?
2. Leadership Team does not have to present.
3. We are always looking for someone to present their Post’s Best Practice for the good of the COI. It could be how to organize an event, how to do an activity, how to make contact with other STEM organization or anything your Post does that you wish to share with entire COI.
Open Forum - Needs of Posts

1. Anything that we have not yet discussed
In closing . . .