CAREER DIRECTIONS FOR STUDENTS IN ARCHITECTURE, CONSTRUCTION AND ENGINEERING
WELCOME AFFILIATES

• All attendees are in listen only mode for the duration of the webinar. The webinar is being recorded.

• To submit a question, please use the chat box in your dashboard.

• There will be Q&A time at the end of the Webinar and we will do our best to answer questions in the time allotted. We will also compile the questions and will develop a FAQ document.

• Reach out to your RD with any additional questions or concerns.

• THANK YOU!
<table>
<thead>
<tr>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Update and Virtual Success</td>
<td>Diana Eidenshink</td>
</tr>
<tr>
<td>Student Resources</td>
<td>Tiffany Millner</td>
</tr>
<tr>
<td>Summer Programs</td>
<td>Paulette Dallas</td>
</tr>
<tr>
<td>Affiliate Regional Virtual Series</td>
<td>Monica Worheide</td>
</tr>
<tr>
<td>Fall Guidelines</td>
<td>Tzu Chen, Andrew Frankel</td>
</tr>
<tr>
<td>ACE Day of Action</td>
<td>Stephanie McNeely</td>
</tr>
<tr>
<td>Q&amp;A</td>
<td></td>
</tr>
</tbody>
</table>
THE ACE MENTOR PROGRAM — AN ORGANIZATION THAT NURTURES A CULTURE OF DIVERSITY AND INCLUSION — STANDS UNITED IN CONDEMNING RACISM.

OUR WORK OF OPENING CAREER OPPORTUNITIES — PARTICULARLY FOR PEOPLE WHO HAVE BEEN HISTORICALLY DISADVANTAGED — IS PARAMOUNT. EVENTS OF THE PAST WEEKS PROVIDE A STARTLING AND DISTURBING REMINDER OF THE IMPORTANCE OF OUR MISSION.

AS WE PUSH FORWARD IN OUR EFFORTS TO BUILD A MORE UNIFIED, INCLUSIVE, AND DIVERSE WORKFORCE, WE CONTRIBUTE TO THE FOUNDATION OF A MORE JUST SOCIETY.

OUR RESOLVE AND SENSE OF PURPOSE ARE STRENGTHENED. WE COMMIT TO BE AGENTS OF POSITIVE, LASTING CHANGE THROUGH CONTINUED ACTION AS WE STAND UP FOR JUSTICE, EQUALITY AND RESPECT.
ACE Mentor Program of America, Inc.
Core Values

Excellence - We strive to engage students by providing high-quality and creative content and strategies, basing or insights on knowledge and experience.

Integrity - We deal honestly and fairly with one another, we work hard to produce and deliver quality program and we use the financial support of our donors efficiently.

Inclusion – We value, nurture and practice respect for the talents, beliefs, backgrounds and ways of living of all our participants.

Diversity – We respect diversity of race, gender, sexual orientation, thought, interests and ideas.

Collaboration - We believe that through our commitment and working together, we will obtain greater results and make the best use of our resources.
Thank You!!

😊
What did affiliates do?

Degree of Virtual Programming

- Finished
- Ended
- Some Virtual
- Full Virtual
Survey - Positive Comments:

- Platforms worked well
- Schools appreciated that ACE continued to work with their students
- Parents sent very positive feedback
- More parents attended the presentations than other years
- Mentors wanted to keep the connection with their students & found it a bright spot in the situation
- The students that participated were very committed.
Survey - Comments:

• Schools were not involved in the virtual program because they were too overwhelmed figuring out their virtual platforms.
• The challenge was keeping the students engaged.
• Meetings needed to be shorter – two hours is too long.
• The students that participated were engaged but lost a large number of our students.
• With each meeting, there were less students.
• Technology inequality hurt many teams.
BEST PRACTICES

• Shorter meetings
• Preset agenda with activities
• Fun activities
• Homework
• “Office Hours” – time students can interact with mentors and ask questions.
• Specialized sessions - Sketchup
## GETTING READY FOR 2020-2021

### PLATFORMS
- Zoom
- GotoMeeting
- Teams
- Google Meet

### INSURANCE
- Exposure is not reduced being virtual
- Working on renewal

### COMPLIANCE
- Make sure the program is safe
- Mentor training
- Parent Consent Form

### VIRTUAL MATERIALS

#### PROGRAM
- Content – virtual templates
- Activities
- Ideas for engaging students
- Web/Video Series
- Guidelines/Best Practices

#### RECRUITMENT
- Marketing Pieces
- Emails
- Social Media

### ACE GOES VIRTUAL
GETTING READY FOR 2020-2021

- Washable and reusable
- 100% polyester
- For Non-Medical Use

$5.85 PER ITEM
The ACE Mentor Program is open to any high school student who has the curiosity and drive to learn about a career in design and construction — from contracting and engineering to architecture and landscaping.
ACE STANDS UNITED
The ACE Mentor Program – an organization that nurtures a culture of diversity and inclusion — stands united in condemning racism.

ACE VIRTUAL PRESENTATIONS 2020
This Spring, ACE programs across the country took the time to continue to celebrate their...

INTRODUCING ACE at HOME
ACE @ Home is a series of pre-recorded webinars with corresponding at-home student activities. Each...
GETTING READY FOR 2020-2021

CAREER DIRECTIONS IN ARCHITECTURE, CONSTRUCTION + ENGINEERING

Prof. Development
01 | EFFECTIVE ESSAY WRITING
05 | A JOURNEY THROUGH ARCHITECTURE

Architecture
02 | ARCHITECTURAL DRAWINGS

Construction
04 | CONSTRUCTION SITE TOUR

Engineering
03 | ENGINEERING TECHNOLOGY
An overview of various programs and techniques used in the design industry that help represent projects to collaborators, clients, and contractors.

The programs shown in this program are Revit (BIM Modeling) and Enscape (Rendering software).

**Did you know?**

As a student, you can access hundreds of FREE architectural and engineering software programs from top industry providers!

**ARCHITECTURAL DRAWING RESOURCES**

- Autodesk Revit
- Enscape

**HAND-SKETCH DESIGN CHALLENGE**

**LOCKER SKETCH**

What do you use your locker for? Do you store more than just your books in it? What if you could enhance your locker for extra storage? You can get creative! 

**Design Challenge**

- Cost: longer = $; shorter = 
- Bag storage = 1/2 yd²
- Space = 5 inch

**Tips + Tricks!**

- Archival solution for your locker

**ARCHITECTURAL DRAWINGS + RENDERINGS**

Presented by ACE Charlotte NC

**Watch a video**

ACE @ HOME: Architectural Drawing

#aceathome
Now What?

SUMMER CAMPS CANCELLED

VIRTUAL SUMMER CAMP

FALLINGWATER INSTITUTE

Jefferson
Thomas Jefferson University
HOME OF VIDETTI KAMAL MEDICAL COLLEGE

AUTODESK
SKETCHUP LIVE SESSIONS

Dates & Details Coming Soon!

MENTORS
Aaron Olko - HDR
Ricky Vega – Gensler

INFORMATION
Anne Ettley – Executive Director LA/OC
anne@ACEmentorla.org
The 2020 Virtual Series will kick off with a one-hour regional meeting for each region followed by a series of meetings open to all affiliates.

- Regional Discussions - **REQ.**
- Fall Planning
  - Curriculum/Technology
- Diversity & Inclusion
  - Training/Resources
- Fundraising
- Administration – **REQ.**
  - Database/Student & Mentor
  - Affiliate Documents
- Financials – **REQ.**
- Annual National Programs
  - CMiC/CIRT/Outstanding Mentors
- Internships
- Ask the National Board
- Alumni
- Scholarships / Task Force
- Small or New Affiliates
- Larger Affiliates
1. Follow all local mandates and guidelines.

2. Work with school champions to understand the school’s policy and guidelines for their students. Some schools will not be allowing outside visitors into their buildings.

3. Check in with Mentor Firms. Some may not allow any outside visitors to their office or allow employees to attend outside meetings.

4. ACE is currently in discussion with our insurance company and legal team to understand the liability faced by the program if and when teams meet at company locations or schools.

5. Affiliates will need to make sure all participants of the program are safe and will need to decide when to start the year. Some affiliates are considering an abbreviated schedule.
1. **Short Virtual Workshops** (Individual Homework)

2. **Pool Resources**

3. **Optional Teams** for CIRT Competition (Virtual Group Work)

4. **Virtual Office Hours**

5. **Office tours and construction site visits** to keep things fresh and engaging.

6. Invite **Guest Speakers** from outside your area!
1. Take inventory of mentors and in-person lessons that can be translated into a virtual environment.

2. Utilize the new ACE @ Home Module to help supplement the curriculum if there are any gaps

3. Use this virtual platform as a recruiting tool to maintain and grow student interest.

4. Have a Game Plan/curriculum set before marketing to perspective students and mentors.
<table>
<thead>
<tr>
<th>General Topic</th>
<th>Session/Module Topic</th>
<th>Project Based Activity</th>
<th>Optional RFP Activity</th>
<th>Group Activity vs. Individual</th>
<th>Online vs. Printed</th>
<th>Lead Mentor</th>
<th>Presenter/Presenters</th>
<th>Meeting Info/Link</th>
<th>Virtual Office Hour Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1: Introductions/Ice Breaker</td>
<td>Ice Breaker Activity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ice Breaker Activity</td>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 2: Design Intro/RF</td>
<td>Project based or Full RFP/CR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Project based/Case study activity</td>
<td></td>
<td></td>
<td>x</td>
<td></td>
<td>x</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 3: Field trip to project site or other virtual construction tour</td>
<td>Virtual Construction Tour</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Project Case Study</td>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 4: Site Analysis</td>
<td>Site Planning</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Landscape Architecture</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Urban Planning</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Civil Engineering</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Geotechnical Engineer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 5: Design</td>
<td>Sketching</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Predesign</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Program Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Space Planning</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Architecture</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sustainability</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accessibility</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Life Safety</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Floor Plans &amp; Blueprint Reading</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3D Modeling/Software</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 6: Structural Engineering</td>
<td>Bridge Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skyscraper</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 7: MEP Engineering</td>
<td>Mechanical Engineering (HVAC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electrical Engineering</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plumbing Engineering</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fire Safety</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sustainability</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 8: Construction</td>
<td>Construction Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cost Estimating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Project Schedule</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Staging Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ACE NATIONAL PROCURED FREE 90-DAY LICENSES FOR AFFILIATES IN MARCH 2020

Affiliates: 12
Total Licenses: 35
Total Sessions: 241
Total Attendees: 2,058
Total Minutes: 10,898
Average Session: 45 mins
VIRTUAL PLATFORMS

**GOOGLE MEET**
Google Meet – Google has re-engineered and integrated their meeting and chat services to offer Google Meet which is perhaps the best all-around free virtual meeting program available (as of June 2020). Allowing up to 100 participants, it is easy to invite multiple outside users (they don’t need a google account) and integrates the G suite apps such as google docs, google calendar and gmail.

- LEARN MORE
- GETTING STARTED

**EZTALKS WEBINAR**
ezTalks Webinar – Like Google Meet, this free virtual classroom platform allows up to 100 students and offers many of the same features, some of which are tailored for a classroom-style learning environment. Users can join the meeting through a browser to avoid having going through the install process. It also offers an IT support remote control feature where the organizer can control a user’s screen to troubleshoot any connection issues.

- FEATURES
- GETTING STARTED

- All participants must be registered in database
- Students must have complete consent form
- Mentors must have background check and training complete
Did you participate in any virtual ACE sessions or events as a result of the COVID-19 public health crisis?

Answered: 2,393   Skipped: 474

- Yes: 41.3% (989)
- No: 58.7% (1404)
Why didn't you participate in any virtual sessions?

Answered: 1,375  Skipped: 1,492

- Program ended before COVID: 36.1%
- Virtual sessions not offered: 33.9%
- Sessions offered but I didn't join: 11.8%
- Other: 18.2%
In what types of virtual events did you participate? (check all that apply)

Answered: 969   Skipped: 1,096

- Regular mentoring sessions: 88.16%
- Year-end project presentations: 54.2%
- Other virtual event (please describe below): 10.1%
- Please describe other virtual event: 10.0%
<table>
<thead>
<tr>
<th>Question</th>
<th>Strongly Agree</th>
<th>Moderately Agree</th>
<th>Agree</th>
<th>Disagree</th>
<th>Strongly Disagree</th>
<th>No Opinion</th>
<th>Total</th>
<th>Weighted Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>They are an effective learning environment for me</td>
<td>12.1%</td>
<td>22.4%</td>
<td>34.9%</td>
<td>21.4%</td>
<td>5.0%</td>
<td>4.1%</td>
<td>973</td>
<td>3.03</td>
</tr>
<tr>
<td>They are an effective way to collaborate with my team</td>
<td>15.1%</td>
<td>19.1%</td>
<td>35.9%</td>
<td>21.3%</td>
<td>5.4%</td>
<td>3.3%</td>
<td>969</td>
<td>3.07</td>
</tr>
<tr>
<td>ACE should consider incorporating more virtual learning tools in the future (after the COVID-19 crisis)</td>
<td>10.9%</td>
<td>11.4%</td>
<td>25.6%</td>
<td>29.0%</td>
<td>13.8%</td>
<td>8.2%</td>
<td>970</td>
<td>2.52</td>
</tr>
<tr>
<td>They allowed me and/or my team to do things we couldn't do at in-person ACE meetings/events (please describe below)</td>
<td>6.4%</td>
<td>7.1%</td>
<td>16.3%</td>
<td>40.0%</td>
<td>17.2%</td>
<td>13.1%</td>
<td>971</td>
<td>2.06</td>
</tr>
</tbody>
</table>
The first ever ACE Day of Action will be an online show and tell of all the things we love about ACE – with various calls to action, based on your specific needs.
TAKE ACTION

BECOME A MENTOR
HELP SHAPE THE FUTURE OF THE NEXT GENERATION

REACH OUT AND SUPPORT YOUR LOCAL ACE AFFILIATE
#ACEDAY2020

TAKE ACTION

INSPIRE A STUDENT
HELP SHAPE THE FUTURE OF THE NEXT GENERATION

REACH OUT AND SUPPORT YOUR LOCAL ACE AFFILIATE
#ACEDAY2020

TAKE ACTION

PROVIDE OPPORTUNITY
HELP SHAPE THE FUTURE OF THE NEXT GENERATION

REACH OUT AND SUPPORT YOUR LOCAL ACE AFFILIATE
#ACEDAY2020

#ACEDay2020
Please submit your questions via the chat box in your GoToWebinar dashboard.

We will compile the questions and provide answers in a follow-up document with a link to the recording of today's session.