



Student Mentoring Program - Nicole Hunter

September 8, 2022

Why a Student Mentoring Program



- ▶ Started in 1994 by the Omaha Post
- ▶ Not enough college graduates going into engineering
- ▶ Very few high school programs
- ▶ Middle School student without any knowledge of engineering
- ▶ Firms need this
- ▶ Students need this
- ▶ Community Outreach / Student Outreach Program

Mission Statement



The program is designed to stimulate interest and excitement among area students with an interest in architectural, engineering and science-related fields.

This is done by allowing students to learn from a professional work environment, rather than an academic one. It gives the students the opportunity to participate in a “real-world” project facilitated by professionals who are employed in the field.

The competition process is designed to provide the students with an experience in how professionals define the scope of a problem, work through and finally present their solutions on projects utilizing teams of people with different talents.

SAME Scholarships



- ▶ One **\$1,000** Scholarship to SMP participants that apply as seniors
- ▶ Renewable each college year – must re-apply
- ▶ Mentor from Post assigned to follow & guide student through college experience
- ▶ An additional one \$1,000 Needs Based Scholarship
- ▶ Application Deadline: March 1st for both scholarships

See SAME Omaha Post Website for more information and applications.



SAME Engineering Camps

Engineering & Construction Camps

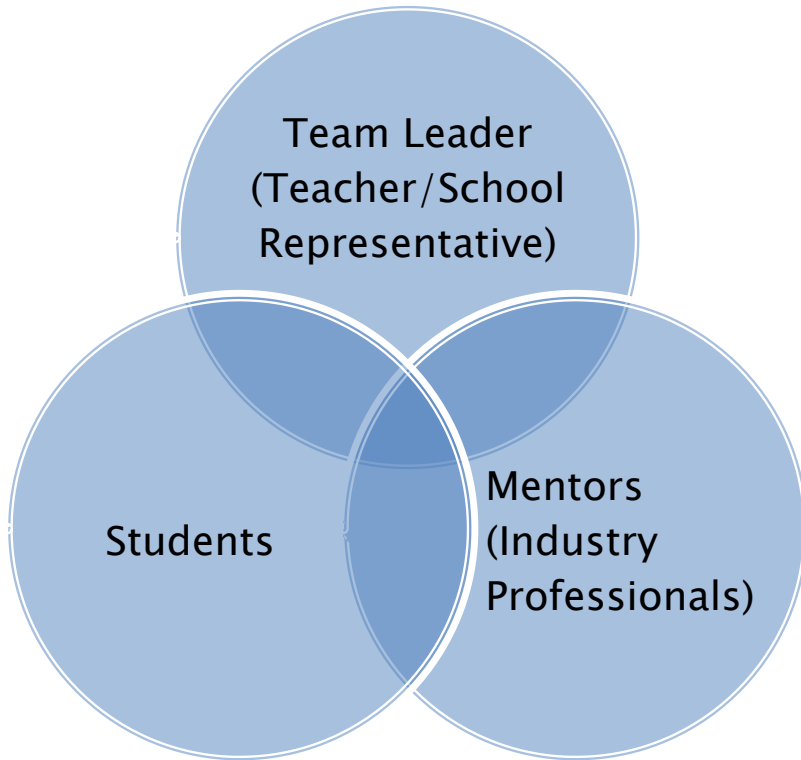
- ▶ U.S. Army Camp- Vicksburg, MS
- ▶ U.S. Air Force Academy Camp - Colorado Springs, CO
- ▶ U.S. Air Force Camp – Scott AFB, IL
- ▶ U.S. Marine Corps – Camp Lejeune, Jacksonville, NC
- ▶ U.S. Coast Guard – New London, CT

Camp Candidates:

- ▶ Application Deadline: March 1st

See SAME Omaha Post Website for more information and applications

Participants



Teams, Teachers and Mentors



Teams

- ▶ Currently 16 MS Teams and 19 HS Teams
- ▶ 42 Teams before COVID
- ▶ Trying to get into new schools

Teachers

- ▶ We value our teachers!

Mentors

- ▶ Can't do this without you!
- ▶ Around 50 mentors each year!

Students

- ▶ Decide on the project
- ▶ Do the research
- ▶ Develop UNIQUE solution options
- ▶ Choose best solution
- ▶ Prepare submittals
- ▶ Prepare written proposal
- ▶ Prepare presentation materials
- ▶ Give the presentation
- ▶ Answer questions from Judges
- ▶ LEARN FROM THE EXPERIENCE 😊



Mentors and Subject Matter Experts Needed



Mentors

- ▶ Meet with the team on a regular basis
- ▶ Provide direction in accomplishing project goals
- ▶ Demonstrate how a professional would develop a project solution
- ▶ Give insight into architectural, engineering or related professions
- ▶ Arrange field trips to projects, office or job site under construction
- ▶ QC Proposal and help with Presentation practices

Subject Matter Experts (SME)

- ▶ Volunteers with expertise in various fields
- ▶ Willing to meet with teams on limited basis
- ▶ Support mentors

Judges

- ▶ Read and evaluate proposals
- ▶ Listen to and evaluate presentations
- ▶ Give feedback to both



Getting Started

- ▶ Project selection
- ▶ Download Manual
- ▶ Review Schedule
- ▶ Problem solving
- ▶ Teamwork



Manual

- ▶ Program Requirements/Expectations
- ▶ Program Schedule
- ▶ Evaluation Forms/Judging
- ▶ Information about the Competition



2016 - 2017

Proposal, Presentation and Evaluation Manual



Submittals, Proposal and Presentation

- ▶ 3 Submittals, last one is a rough draft
- ▶ Written Proposals
- ▶ Presentations the day of the Competition
- ▶ All Day Competition



Scoring



- ▶ Two divisions: **High School & Middle School**
- ▶ Highest Overall score = **Post President's Award**
- ▶ Merit Category points = Gold and Silver Levels of Achievement
 - Plaque medals
 - Medal points
- ▶ Medal Points = **Awards of Distinction**
 - Overall score considered in case of medal point tie

Merit Categories

- ▶ Applied Science
- ▶ Innovation
- ▶ Research
- ▶ Sustainability
- ▶ Teamwork
- ▶ Technology
- ▶ Proposal
- ▶ Presentation



Awards

▶ Post President's Honor Award

- ▶ \$1,500 award each
- ▶ \$1,500 scholarship for team member(s) High School only
- ▶ Crystal Trophy


▶ Gold and Silver Achievement Awards

- ▶ Acknowledged at ceremony
- ▶ Medals on Plaques

▶ Awards of Distinction

- ▶ From Industry Sponsors
- ▶ Five in each division (10 total)
- ▶ \$500 award each
- ▶ Crystal Trophy

▶ Award Ceremony

- ▶ Scott Conference Center
 - ▶ Project Displays
 - ▶ Keynote Speaker
- 

Team Plaques



Examples of Top Projects



- ▶ **The Missouri River Initiative (MS 2022)**
- ▶ **Green Wind and Water (HS 2022)**
- ▶ **Faulkland Park Community Project (MS 2021)**
- ▶ **Pop Topper (HS 2021)**
- ▶ **Gretna's Water Complex (MS 2020)**
- ▶ **Our Journey to Prosthesis: Leg's Go (HS 2020)**
- ▶ **H2O Filtration Backpack (MS 2019)**
- ▶ **Neptune 19 – The Future of Oil Cleanup (HS 2019)**



2022-2023 Schedule

- Sept 15** Teacher/Mentor Orientation
- Nov 3** Submittal 1 Due
(permission slips also)
- Jan 12** Submittal 2 Due
- Feb 16** Submittal 3 Due –
Working Draft
- Mar 16** Written Proposal Due
- Mar 30** Competition Day/Awards
Ceremony



Questions/Discussion

WEBSITE:

<https://sites.google.com/site/samesmp/>

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Thank you!

