STEM and Mentoring Programs

Moderator:
Marc Bialek, Director of Membership & Post Operations, SAME HQ

Speakers:
• Col. Kurt Ubbelohde, F.SAME, USA (Ret.), VP, Corporate Director of Federal Programs, LEO A DALY
• Heather Wishart-Smith, P.E., F.SAME, Vice President, Jacobs
• Corey Weaver, EIT, Structural Engineer, USACE Huntington District
• Carrie Ann Williams, CPSM, Marketing Director, ARGO Systems LLC
Engineering & Construction Camps

Col. Kurt Ubbelohde, F.SAME, USA (Ret.), VP, Corporate Director of Federal Programs, LEO A DALY

Developing future engineers through mentoring and outreach!
Support STEM

Proposed 2014 – 2019 Strategic Plan

• Goal 5: Leadership and Mentoring
  – Cultivate...mentoring within SAME,...mentor and inspire boys and girls to pursue a career in Science, Technology, Engineering and Math.

So the big question is how can Posts do this??
Some Ideas

• Engage your local schools
  – Sponsor / participate in STEM activities
    • Robotics
    • Math Counts
    • Science Fairs
    • Speak about career

  – Publicize all E&C Camps – widen recruiting net
    • Advertise in media
    • Contact Guidance Counselors
    • Refer to SameCamps.org for camper eligibility details
    • Competitive scholarships available for camp alumni
Another Idea

• Sponsor YM mentors to E&C camps
  – Recruit from within Post / SM firms
  – Serves as credit for Streamer
  – Excellent way to engage our future engineers!
Academy of Fellows (AOF) Mentoring Initiatives

Heather Wishart-Smith, P.E., PMP, LEED AP BD+C, F.SAME
AOF Vice Chair for Mentoring
Jacobs
Heather.Wishart@jacobs.com
Agenda

• Introduction to Academy of Fellows (AOF)
  – AOF Charge and Pledge
  – Fellows nomination process

• Mentoring activities
  – Emerging Leaders Alliance (ELA)
  – Online mentoring toolkit
  – Support of anticipated USACE HQ initiative
  – Mentoring Award
  – Support of Engineering Camps
  – Future initiatives
Introduction to Academy of Fellows

• AOF Charge and Pledge
  – Support SAME’s mission and Strategic Plan
  – Be a role model
  – Be a mentor
  – Support SAME Posts
  – Be patriotic and respectful
  – “I pledge to fulfill the charges to me as a SAME Fellow. I will be a role model and mentor, supporting SAME’s mission and being active in our Posts. I will live honorably, with courage and integrity, and lead by example. I will support those who serve to protect our freedom and way of life. So help me God.”
Fellows Nomination Process

• Annual Nomination: September 4th
• Tenure: Minimum Ten (10) years of membership
• Society Leadership Positions: Elected & appointed, National, Regional & Post – dates held
• Outstanding Service to SAME: Cite the significant achievements
• Career Leadership Positions
• Outstanding Service to the Engineering Profession
• Awards and Honors
AOF Mentoring Role

- Bring value as Fellow
- Continuation of journey, not a destination
  - Ripple effect
- Formal mentoring activities
- Individual mentoring: professional, SAME, social/personal
Mentoring Activities: Emerging Leaders Alliance

• ELA Conference
  (www.emergingleadersalliance.org)
  – 3 day multi-disciplinary leadership training
  – 10-12 Nov 2014, Reston, VA
  – Registration fees & hotel covered; travel by others
Mentoring Activities: Emerging Leaders Alliance

• Selection Process
  – One nominee per Region; eight recipients
  – RVPs solicit applications from Post Presidents or BOD
  – RVPs submit one applicant by 9 Jul 14

• Selection Requirements
  – YM, 39 or younger, as of 12 Nov 14
  – Join date before 1 Jan 13
  – No prior ELA sponsorship

• Selection Criteria
  – Endorsement letter(s)
  – SAME Participation and Leadership
  – Professional Accomplishments and Recognition.
  – Professional Development
Mentoring Activities

• Online mentoring toolkit (in conjunction with STEM Committee)
  – General mentoring/STEM resources
  – College-level *Intro to A&E Industry*
  – K-12 talking points

• Support of anticipated USACE HQ initiative
  – Tied to local recruiting commands
Mentoring Activities

• Mentoring Award
  – Presented at Fellows Investiture
  – Selection; enhancements

• Support of Engineering Camps
  – National recruiting program for future engineers
  – Recruiting mentors
  – Long-term support and internships
  – Outreach to candidates (particularly underrepresented groups)

• Future initiatives
  – Exploring alliance with MentorNet
Conclusion

Get involved- be a mentor.
Lift as you Rise!
Bring value to SAME.
Let me know if you want to help!
College Outreach Committee
STEM Session

Corey Weaver, EI
Huntington District, USACE
Mission

Assist SAME Posts in:

- **Mentoring** and building professional relationships between Post members and students majoring in engineering and related programs at colleges and universities;

- Introducing students to job opportunities in military engineering.
# Student Chapters

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**Student Chapters:** 55  
**Student Members:** 2,732
Post Mentors

• Serve as liaison between Faculty Advisor and mentoring Post;
• Assist with and participation in Student Chapter operations and programs;
• Facilitate **professional development** of skills necessary for transition to the workforce;
• **Recognition and nomination** of Student Leaders for SAME Awards.
Faculty Advisors

- Serve as liaison between Student Chapter, university/college and Post Mentor;
- Interact with students on **day-to-day** basis, encouraging student leadership and professional development;
- **Facilitator, guide,** and **mentor** with the goal of assisting students in making informed **professional development** and **networking** decisions, while helping them develop as leaders.
Programs/Events

- Student Leaders Workshop
- Student Chapter Workshop
- Distinguished Student Chapter Streamer
- Spring/Fall Newsletters
- Membership Brochure
- Student Chapter Guidance Manual
- Pumpkin Carving Contest
Distinguished Student Chapter Streamer

• Created to **reward success** of Student Chapters;

• Encourages activities such as:
  – Mentoring students on engineering and related careers including industry, federal civil and military service;
  – K-12 outreach promoting engineering;
  – Multi-disciplinary engineering and non-engineering competitions/events;
  – Community service involving engineering and/or support to Wounded Warriors or Veterans.
Thank You For Your Time

Questions?
Science, Technology, Engineering & Math Outreach Briefing

Carrie Ann Williams, CPSM, Marketing Director, ARGO Systems LLC
STEM = Science, Technology, Engineering & Math

- STEM Task Force
- STEM Previous Focus
- Other Post STEM Activities
- USACE/DoDEA STEM Program
- SAME STEM Website
- Combining Efforts with Academy of Fellows
- Future Focus
STEM Task Force

• Sharon Krock-chair
  – Carrie Ann Miller
  – Kurt Ubbelohde
  – Joe Manous
  – Marilyn Lewis
  – Brian Balukonis
  – Amy Lines
  – Wesley Hamill

• New members always welcome
STEM Previous Focus

- SAME Summer Camps
- West Point Bridge Design Contest
- Boy Scouts of America (merit badge program)
- Girl Scouts of America (engineering patch)
- MATHCOUNTS
- Future City Competition
- Learning for Life

Legend:
- Green: Participate
- Brown: Do Not Participate
Other Post STEM Activities

• Local, Regional & State Science Fairs
• Engineering Week Activities
• Mentoring Programs
• Robotics Teams
• Custom Post Programs
• Rocket Clubs, Lego Teams
• Scholarship Program
SAME DoDEA STEM Program

• Adds engineering design concepts to middle school curriculum
• USACE engineers and scientists collaborating with educators
• Explore STEM challenges related to the USACE mission
• Experience engineering applications through a realistic, hands-on, problem-solving approach
• 7 Pilot Middle Schools – (West Point, Ft. Benning, Quantico, Ft. Knox, Wiesbaden, Seoul, Camp Zama)
SAME Website

- SAME.org/STEM is now active
- No shortcut from home page yet, but direct link
- Website resources (links, videos) already listed
- Academy of Fellows compiled resources as well, which will be added soon
- Further additions welcome
STEM Future Focus

• Resource Availability (website)
• Post Involvement – streamer requirements
• Post Involvement – suggestion to offer conference calls to share STEM ideas
STEM Future Focus

SAME STEM Website

- Conference Calls
- Events
- Links/Videos
- Talking Points
- Post Examples
STEM Positive Impact

- Resources Available
- Repetition of Information
- Engagement of the Posts
SAME STEM

• Questions

• Discussion

• Suggestions