

ASM Materials Education Foundation University Materials Council Discussion

Carrie Wilson
Executive Director, ASM MEF
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Subjects for Today

- I. Materials Camps for Teachers and Students
- II. Academic Affiliates program
- III. Impact Study of undergraduates and MSE Departments
- IV. Materials Genome Toolkit Competition and Undergraduate Design Competition



Materials Camps for Teachers ASM MATERIALS EDUCATION FOUNDATION

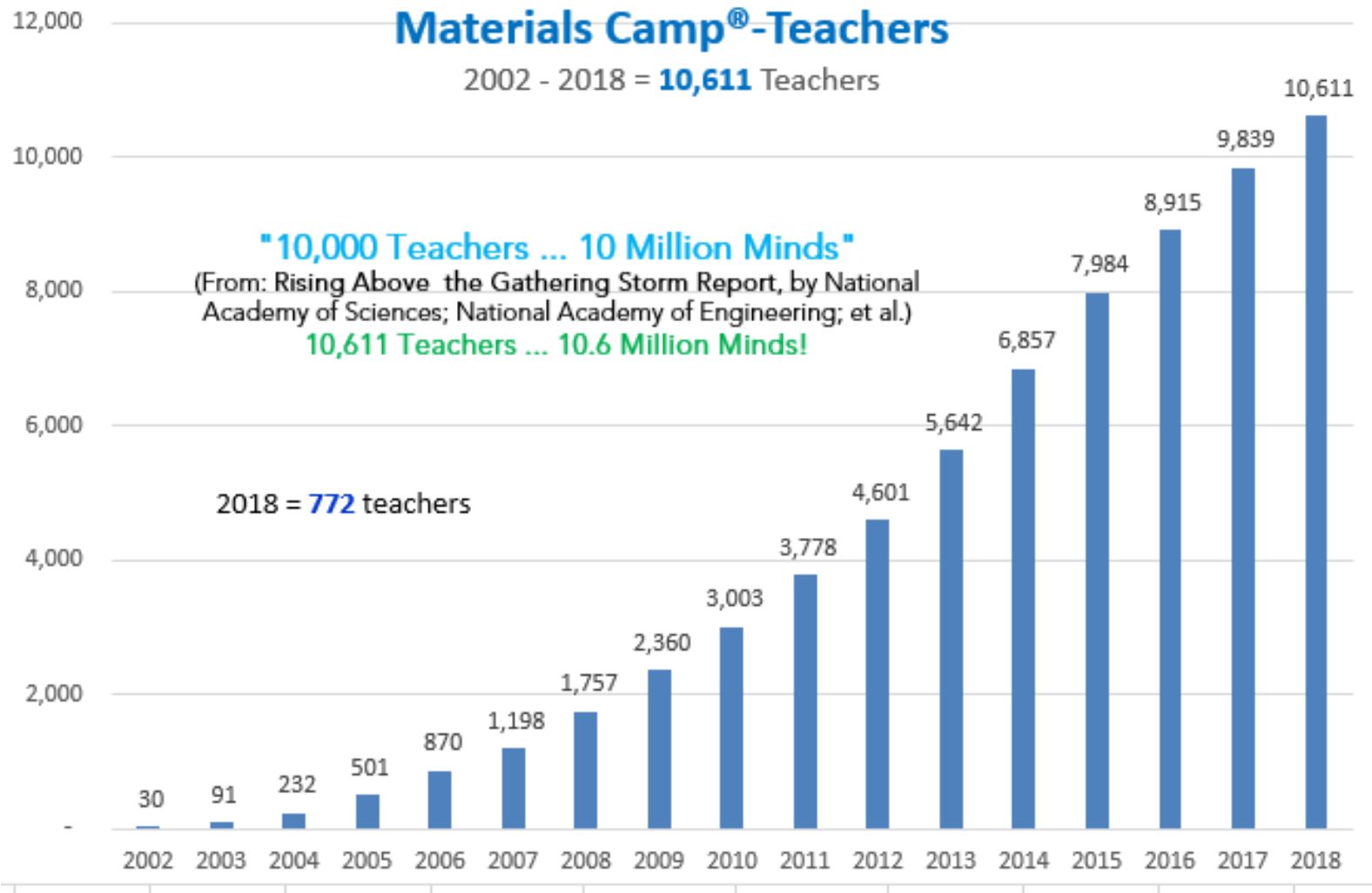
- More than 750 teachers attended 34 summer “camps”
- Two of the camps are “Year 2” and geared toward teachers who are or will be teaching Materials Science at their schools
- Currently updating our camp curriculum and accompanying workbook



Materials Camp - Teachers



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Materials Camps for Students



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- Flagship Eisenman Student Camp at headquarters will celebrate its 20th year in 2019
- 25 additional student camps around the country, and world
- Most camps take place at university departments, led by professors and/or graduate students



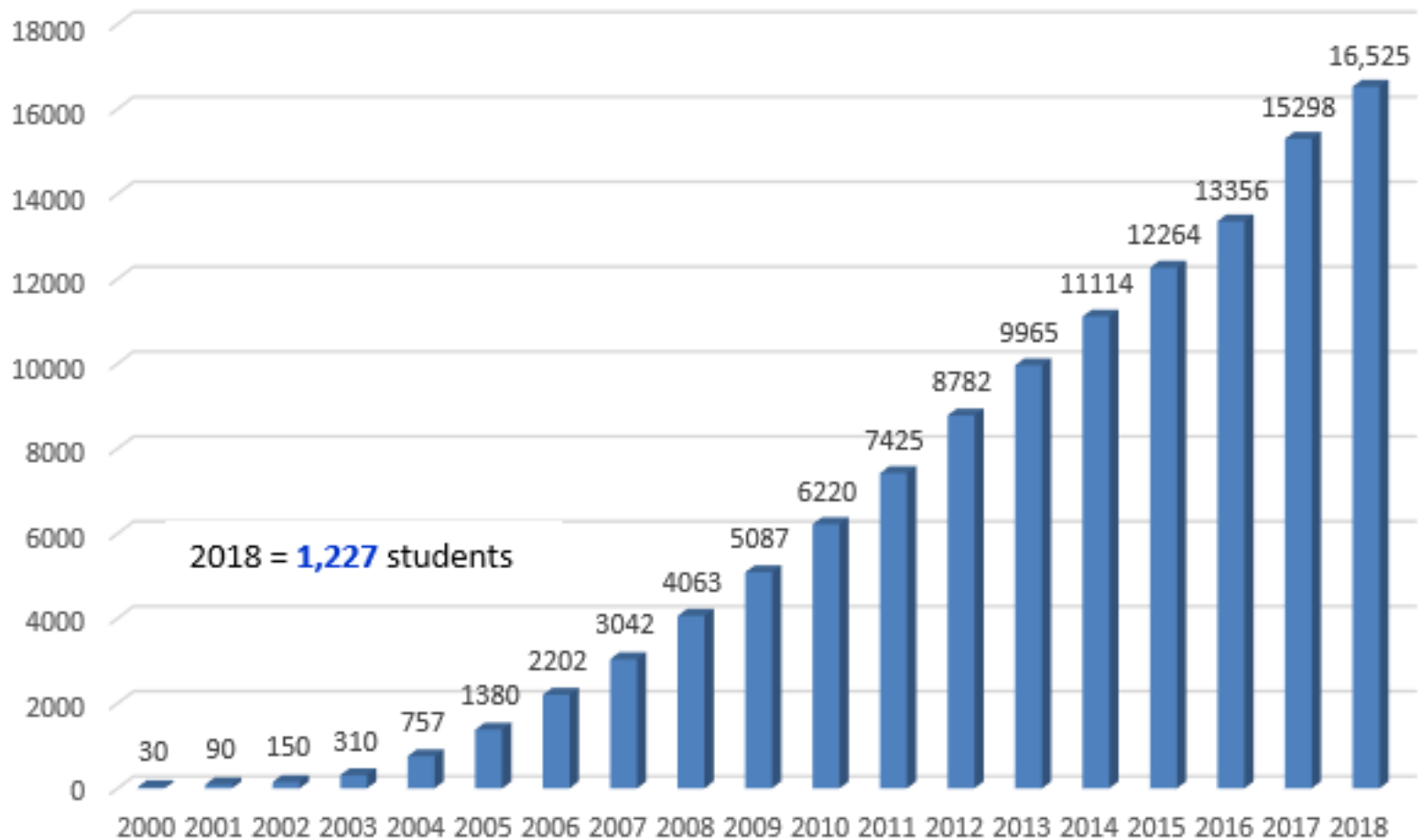
Materials Camp - Students



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Materials Camp®-Students

Cumulative since 2000 = **16,525** students



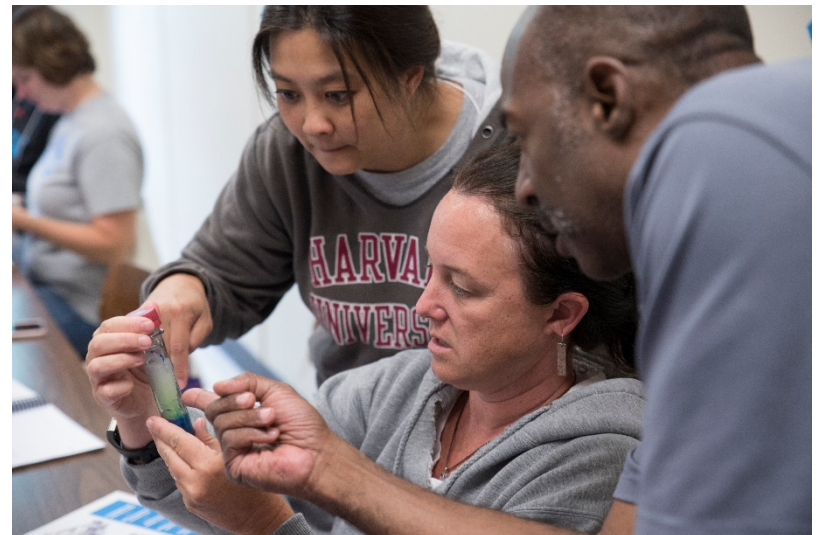
Academic Affiliates

- Coordinated relationship with Materials Camps and other programming to meet outreach and “broader impacts” grant requirements
- Allows for scaling impact, promotion of faculty research findings, sharing work with teachers across the country
- Foundation can develop units for web resources



Impact Study

- Department survey
 - Number of majors over past 20 years
- Student survey
 - How major decision made
 - Previous exposure to Materials
 - Best format to use?

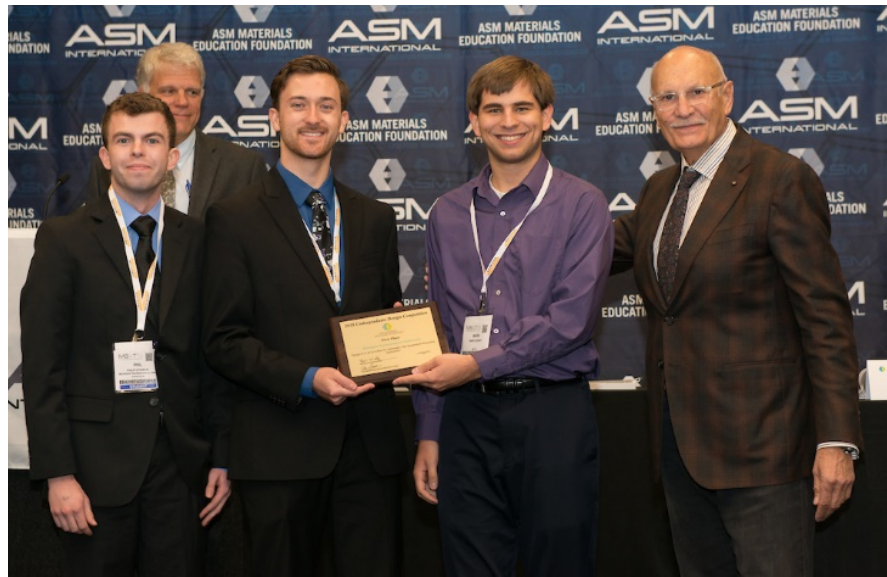


- August/September application opportunity
- Three-year no-cost license for Thermo-Calc and suite of design software
- Opportunity for renewal after three years



Design Competition

- Recognizes design curricula
- Teams of undergraduate students
- Design-focused projects from capstone courses or team projects

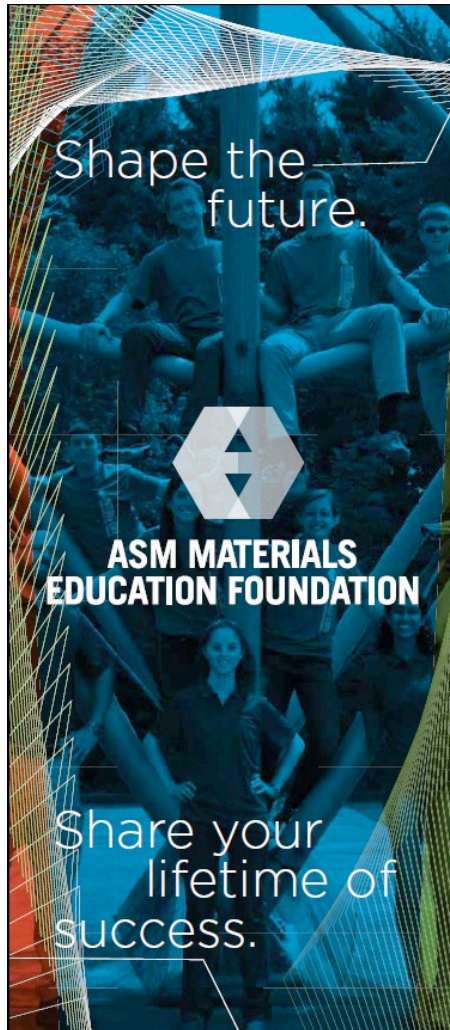


Scholarships

- 15 undergraduate scholarships for materials majors (Sophomore year +)
- One application for all
- Presentation at ASM Leadership Awards Luncheon



We Ask For Your Help



Shape the Future

- Share survey results
- Support ASM MEF programming
- Join Academic Affiliates when appropriate
- Applications for Materials Genome Toolkit, Undergraduate Design Competition

Thank You

Questions? Contact me at 440-338-5151 or
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