NSF Education and Human Resources Directorate Briefing Materials

for June 12-13, 2017 Advisory Committee Meeting

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**Working Lunch and Breakout Group Assignments**

**Panel Speakers’ Biographies**

**Slides for Panel Presentations**

***Pre-meeting materials***

*(\* provided in hard copy in AC meeting folder; full documents available online at AC website)*

\*NSF Federal Advisory Committee for Education and Human Resources (2014). ***Strategic Re-envisioning for the Education and Human Resources Directorate.***

National Academy of Sciences, Engineering, Medicine (2017).***Building America’s Skilled Technical Workforce.*** Recommended chapters:

*\*Summary* (see also Chapter 7, *Findings and Recommendations,* for more detail).

*\*Chapter 1: The Skilled Technical Workforce Development Challenge*

*\*Chapter 2: Labor Market Patterns and Trends*

*Chapter 5: Challenges in Developing a Skilled Technical Workforce*

National Academy of Sciences, Engineering, Medicine (2016). ***Developing a National STEM Workforce Strategy***.

Recommended reading:

*\*Chapter 1: Introduction*

*\*Chapter 2: The STEM Workforce Landscape*

*\*Chapter 6: Successful Strategies for Aligning Higher Education Programs, Curricula, and Lab*

*Experiences with Workforce Needs*

*Chapter 8: K-12 STEM Education and Workforce Readiness*

Carnevale, A. P., Smith, N., & Melton, M. (2014). ***STEM: Science, Technology, Engineering, Mathematics***.

\**Executive Summary*

\**Part 4: Students and workers divert from STEM.* Georgetown University Center on Education and the Workforce.

***EHR Committee of Visitors materials:***

* ***\*EHR\_Response\_to\_Noyce\_COV\_2015.pdf***:  Noyce program staff's initial plans for responding to recommendations in the COV report. (This COV met on March 12-13, 2015.)
* ***\*Noyce\_one-pager--NSF\_16-091.pdf***:  Overview of the Noyce program (as currently structured).
* ***\*EHR\_Response\_to\_S-STEM\_COV\_2015.pdf***:  S-STEM program staff's initial plans for responding to recommendations in the COV report. (This COV also met on March 12-13, 2015.)
* ***\*S-STEM\_one-pager--NSF\_15-107.pdf***:  Overview of the S-STEM program (as currently structured).
* ***\*COV\_Report--HRD--Nov\_2016--FINAL.pdf***:  Report of the HRD division-wide COV, which met on November 29, 2016. Francisco Rodriguez, COV chair, presented a summary of the COV's findings at the last EHR Advisory Committee meeting on December 1, 2016. *[NOTE: This document is not publicly available until approved.]*

**List of Advisory Committee Members, Followed by Biographies**

**Other Recommended Reading:**

National Academy of Sciences, Engineering, Medicine (2016).***Barriers and Opportunities for 2-Year and 4-Year STEM Degrees.***

*Cooper R.A.*, Goldberg, M., Milleville, M., Williams, R. (2016). *The Experiential Learning for Veterans in Assistive Technology and Engineering (ELeVATE) program*, **Journal of Military, Veteran, and Family Health**, Vol. 2, No. 2, 96-100.

Goldberg M, Milleville M, Donaldson A, Hill V, Marino DJ, Rivera V, Grindle G, Sporner M, Relich D, *Cooper RA* (2016). *Evaluating and Modifying an Advanced Manufacturing Curriculum for People with Disabilities*, **Journal of Applied Rehabilitation Counseling**, Vol. 47, No. 4, 36-42.

Jeannis, H., Joseph, J., Goldberg, M., Seelman, K., Schmeler, M., *Cooper, R.A.* (In press, 2017). *Full-participation of Students with Disabilities in Science and Engineering Laboratories*. **Disability and Rehabilitation: Assistive Technology**, doi: 10.1080/17483107.2017.1300348.

Rothwell, J. (2015). ***Defining skilled technical work***. Prepared for the Committee on the Supply-Chain for Middle-Skill Jobs, NASEM.