

June 12, 2017

Advisory Committee Meeting, Education and Human Resources

Monday, June 12, 2017 and Tuesday, June 13, 2017

National Science Foundation, 4201 Wilson Boulevard, Arlington, VA

Stafford I, Room 1235

Meeting Goal: To provide advice with respect to the Foundation's science, technology, engineering, and mathematics (STEM) education and human resources programming.

Sunday, June 11, 2017: No-host dinner for Advisory Committee Members & Speakers
6 PM at **Rustico**, 4075 Wilson Blvd, Arlington, VA 571-384-1820

Monday, June 12, 2017

8:30AM – 8:45AM **Welcoming Remarks**
Dr. Francisco Rodriguez, *Chancellor, Los Angeles Community College District; Chair, EHR Advisory Committee*

8:45AM – 9:15AM **EHR Investments in the STEM Workforce**
Dr. William (Jim) Lewis, *Acting Assistant Director, EHR*

9:15AM – 10:15AM **Panel: Lifelong Learning for a Skilled Technical Workforce**
Moderator: Dr. Rebecca Blank, *Chancellor, University of Wisconsin, Madison; Member, EHR Advisory Committee*

(10 min) **Costs, Benefits, Skills, and Competencies for the Skilled Technical Workforce**
Dr. Nicole Smith, *Chief Economist, McCourt School of Public Policy, Georgetown Univ. Center on Education and the Workforce*

(10 min) **Building America's Skilled Technical Workforce: What Works**
Dr. Annette Parker, *President, South Central College; Member, NAS Committee on the Supply-Chain for Middle-Skill Jobs*

(10 min) **Hands-on, Minds-on: Highly Skilled Technical Workers in the American Workforce**
Dr. Celeste Carter, *Program Director, ATE (Advancing Technological Education), EHR Division of Undergraduate Education*

Q/A, Discussion

10:15AM – 10:30AM Morning Break

10:30AM – 11:30AM **Panel: The Many Faces of the STEM Workforce: Broadening Participation**

Moderator: Dr. Susan Brennan, Program Director, GRFP, EHR Division of Graduate Education

(10 min) **Increasing Participation of Women in the Skilled Technical Workforce**

Donna Milgram, Executive Director, National Institute for Women in Trades, Technology and Science (IWITTS)

(10 min) **Inclusion of People with Disabilities and Veterans in the STEM Workforce**

Dr. Rory A. Cooper, Distinguished Professor and FISA/PVA Chair, Department of Rehabilitation Science and Technology, U. Pittsburgh; Member of the EHR Advisory Committee.

(10 min) **Enhancing the College-to-Career Pathway for URM Students: The NACME Strategy**

Dr. Christopher Smith, Vice President, Scholarships, University Relations, and Research, NACME, National Action Council for Minorities in Engineering

(10 min) **Recruiting a Diverse, Highly Skilled Technical Workforce**

Dr. Francisco Rodriguez, Chancellor, Los Angeles Community College District; Chair, EHR Advisory Committee

Panel Discussion and Q/A

11:30AM – 11:50PM **Increasing Public Participation in and Ownership of Science: The Informal Public STEM Workforce**

(10 min) **Dr. Laura Trouille**, Director of Citizen Science, Adler Planetarium; Co-PI, Zooniverse

12:00PM – 12:10PM **Transition to assigned Working Lunch /Breakout locations**

(Pick up pre-ordered box lunches outside of 1235 and proceed to assigned locations: 1235, 805, and 830. 1240 is an extra lunch room.)

Attachment: Working Lunch Locations and Breakout Discussion Assignments

12:10PM – 1:10PM	WORKING LUNCH: The View from NSF’s R&RA Directorates (NSF ADs will join AC for lunchtime discussions.)
1:20PM – 2:40PM	BREAKOUT DISCUSSIONS: Preparing the Skilled STEM Workforce (<i>Rooms 1235, 805, and 830</i>) Topic: Given what you have heard so far in this meeting, what do you think are the most pressing needs and the most high-potential opportunities for EHR (or NSF more broadly) to nourish the preparation of the STEM workforce (with special attention to the skilled STEM workforce discussed earlier)?
2:40PM – 3:00PM	Afternoon break / transition back to Room 1235
3:00PM – 3:15PM	Synthesis: An AC member from each breakout discussion group will give a brief report of the highlights.
(3-4 min)	Group 1
(3-4 min)	Group 2
(3-4 min)	Group 3
3:15PM – 4:00PM	Advisory Committee Discussion and Lead-in for the Director’s Visit (<i>Room 1235</i>) Dr. Francisco Rodriguez , <i>Chancellor, Los Angeles Community College District; Chair, EHR Advisory Committee</i>
4:00PM – 4:55PM	NSF Director, Dr. France Córdoba NSF Chief Operating Officer, Dr. Joan Ferrini-Mundy
4:55PM – 5:00PM	First Day Wrap-up

Briefing materials to be provided:

Strategic Re-envisioning for the EHR Directorate (EHR AC, 2014);
Building America’s Skilled Technical Workforce (NAS, 2017);
Developing a National STEM Workforce Strategy (NAS, 2016);
STEM. Carnevale, A. P., Smith, N., & Melton, M. (2014).
Defining Skilled Technical Work (Rothwell, 2015)
Article(s) on disability and veterans - TBD
COV one-pagers and responses; Available presentation slides

June 12, 2017

Tuesday, 13 June 2017

8:30AM – 9:15AM	Welcome Dr. Francisco Rodriguez , <i>Chancellor, Los Angeles Community College District; Chair, EHR Advisory Committee</i>
8:30 – 8:45	Recap of Day 1
8:45 – 9:15	Advisory Committee's Recommendations to EHR

9:15AM – 10:15AM	New Business

9:15 – 10:00	Committees of Visitors (COVs) – Moderator: Dr. Corby Hovis, EHR * Update on Programs' Actions on COV Recommendations: Robert Noyce Scholarship Program – Dr. Sandra Richardson , Program Director, Noyce Program, DUE NSF Scholarships in STEM (S-STEM) Program – Dr. Ron Buckmire , Program Director, S-STEM, DUE * Discussion/Acceptance of HRD COV Report (findings from 11/2016)

10:00 – 10:15	Other new business

10:15AM – 10:30AM	Morning Break
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10:30AM – 11:00AM	Update on NSF INCLUDES Dr. William (Jim) Lewis , <i>Acting Assistant Director, EHR</i> , with Dr. Jolene Jesse , <i>Program Director, NSF INCLUDES</i>
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11:00AM – 11:45PM	Discussion between the AC and Division Directors , (moderated by Dr. Jim Lewis , <i>Acting Assistant Director, EHR</i>)
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11:45PM – 12:30PM	BOX LUNCH
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12:30PM – 2:00PM	Open Learning Resources: A Subcommittee Status Report and Discussion Dr. Catherine Casserly , <i>Strategist, Learning, Openness, and Innovation; Member of the EHR Advisory Committee</i> ; Dr. Lee Zia , <i>Deputy Division Director, EHR Division of Undergraduate Education</i> ; Meredith Jacob , <i>Creative Commons/USA</i> ; Kristina Peters , <i>New America</i> ; Joseph South , <i>IDEO; Former Director, Office of Educational Technology, U.S. Dept of Ed.</i>
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2:00PM – 2:15PM	Wrap-up and Adjournment
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