Attendees at Women Leaders in Science, Technology, and Engineering +10 came to discuss their successes and obstacles.

“All of our societies remain deeply gendered, and men continue to benefit disproportionately from socioeconomic advance, whether in employment, opportunities to innovate, or research prospects,” Princess Sumaya said. “Ten years on,” she said, referring to the time that has elapsed since the first WLSTE was held, “we have lost much of another generation of women.”

Princess Sumaya pointed out that women make up only about 15% of the board members in the world’s biggest innovation hub, Silicon Valley.

Shirley Malcom, director of AAAS education and human resources programs, also cited a stark illustration of gender inequity in a WLSTE+10 session on women scientists in leadership roles. Although women receive approximately half of the medical degrees awarded in the United States, she said, only 16% of medical school deans are women.

“So access is one thing. Leadership is another,” said Malcom. Malcom listed interventions that can improve women’s participation in science, such as STEM education programs for girls, prizes that recognize women scientists, international collaboration among and recognition of women in science, women’s organizations and conferences, and programs that examine policies that keep women out of leadership roles.

Other speakers referred to a AAAS-organized initiative called SEA Change, which is designed to recognize and distinguish departments, colleges, and institutions of higher learning for their diversity and inclusion, including gender diversity—with bronze, silver, and gold awards. The program was inspired by Athena SWAN in the United Kingdom. Institutions would voluntarily collect data, set goals, and develop action plans for improving their recruitment, hiring, and retention of diverse STEM faculty and their recruitment and success rates among diverse graduate and undergraduate STEM students.

In a WSF presentation, Princess Sumaya, who was instrumental in bringing the forum to Jordan, said that in her country and the Arab world, men and women have been working together in science “for a very long time.” She said, however, that like in many other places, the struggle for gender equity continues, and Jordan has begun implementing initiatives to, for instance, keep more talented women in the workforce after they graduate.

Éva Kondorosi said that research by the European Research Council, where she is a vice president, showed a problem in how women scientists perceive of or present their capabilities. More men say they can be “excellent leaders” and use “superlatives when they [talk] about themselves” on grant applications, while women find it difficult to speak “enthusiastically about themselves,” Kondorosi said.

Grace Naledi Pandor, South African science and technology minister, stressed the need to gather the data on women’s participation in order to implement effective solutions. “We should stop assuming that women are a minority,” Pandor said, “and ask why we aren’t using 50% of our talent.”

“We need to look at the presence, the performance, the impact, and the degree to which women are seen in the science sector and matter within science. Decisions rely on data.”

MacKenzie agreed, adding that it is necessary “to scrutinize the data and ask more questions,” examining which women still don’t have access, which fields of STEM are least attended by women, whether women are staying in the workforce and achieving leadership positions, and what is holding women back.

AAAS, MacKenzie said, “is committed to asking and answering those questions.”

2017 AAAS Fellows approved by the AAAS Council

In October 2017, the Council of the American Association for the Advancement of Science (AAAS) elected 396 members as Fellows of AAAS. These individuals will be recognized for their contributions to science and technology at the Fellows Forum to be held on 17 February 2018 during the AAAS Annual Meeting in Austin, Texas. Presented by section affiliation, they are:

Section on Agriculture, Food, and Renewable Resources
Alice Barkan, Univ. of Oregon
Sylvie M. Brouder, Purdue Univ.
E. Charles Brummer, Univ. of California, Davis
David W. Emerich, Univ. of Missouri-Columbia
Thomas Hertel, Purdue Univ.
Autar K. Mattoo, USDA-Agricultural Research Service
Wayne Allen Parrott, Univ. of Georgia
Changhui Peng, Univ. of Quebec at Montreal (Canada)
Christine D. Smart, Cornell Univ.
Thomas Edward Spencer, Univ. of Missouri-Columbia
Chung-Jui Tsai, Univ. of Georgia
Alison L. Van Eenennaam, Univ. of California, Davis

Section on Anthropology
Alexandra Brewis Slade, Arizona State Univ.
María L. Cruz-Torres, Arizona State Univ.
Dorothy Hosler, Massachusetts Institute of Technology
Marilyn A. Norconk, Kent State Univ.
Michael E. Smith, Arizona State Univ.
Steadman Upham, Univ. of Tulsa
Andrea S. Wiley, Indiana Univ.

Section on Astronomy
Ana P. Barros, Duke Univ.
Andrew E. Dessler, Texas A&M Univ.
Richard A. Feely, National Oceanic and Atmospheric Administration/Pacific Marine Environmental Laboratory
Efi Foufoula-Georgiou, Univ. of California, Irvine
Richard H. Johnson, Colorado State Univ.
Binayak P. Mohanty, Texas A&M Univ.
Christopher J. Poulsen, Univ. of Michigan
Peter A. Raymond, Yale Univ.
Susan Jean Roberts, The National Academies of Sciences, Engineering, and Medicine
Gavin A. Schmidt, NASA Goddard Institute for Space Studies

Section on Biological Sciences
Gustavo Aguirre, Univ. of Pennsylvania
Chris Tsuyoshi Amemiya, Univ. of California, Merced
Heidi M. Appel, Univ. of Toledo
Karen M. Arndt, Univ. of Pittsburgh
Daniel Barbash, Cornell Univ.
Vivian Bellofatto, Rutgers, The State Univ. of New Jersey

Section on Atmospheric and Hydroospheric Science
Ana P. Barros, Duke Univ.
Andrew E. Dessler, Texas A&M Univ.
Richard A. Feely, National Oceanic and Atmospheric Administration/Pacific Marine Environmental Laboratory
Efi Foufoula-Georgiou, Univ. of California, Irvine
Richard H. Johnson, Colorado State Univ.
Binayak P. Mohanty, Texas A&M Univ.
Christopher J. Poulsen, Univ. of Michigan
Peter A. Raymond, Yale Univ.
Susan Jean Roberts, The National Academies of Sciences, Engineering, and Medicine
Gavin A. Schmidt, NASA Goddard Institute for Space Studies

Section on Chemistry
Mary Reed, Univ. of North Carolina at Chapel Hill
Lora Hooper, Univ. of California, Berkeley
Craig J. Hawker, Univ. of California, Santa Barbara
K. Barry Sharpless, California Institute of Technology
Frederick M.ried, Yale Univ.
Nancy W. Pantsur, Univ. of California, San Diego

Section on Geosciences
Mike Kirby, Univ. of California, Santa Barbara
William D. Carey, Univ. of California, Santa Barbara
Sandra G. Conklin-Brittain, Smithsonian Institution
Laura Wallis, Yale Univ.
Pablo M. Schoof, Columbia Univ.

Section on Mathematics
Sally K. Popple, National Institute of Standards and Technology
G. Baris Coskun, Georgia Tech
Ciara Dugan, Fordham University
Barry Cipra, Science

Section on Medicine
Julian F. Hume, Harvard Medical School
Pamela A. Silver, Massachusetts Institute of Technology
Harriet S. Glickman, Yale Univ.
Suzanne M. Eaton, National Institutes of Health
William Kaelin, Harvard Medical School

Section on Physical Sciences
Maria Katerina Kallitsi, Harvard University Department of Chemistry and Chemical Biology
Audra Renée Thompson, Harvard University
Kathleen M. Stebe, University of California, San Diego
Sevasti G. Papadakis, University of Athens

Section on Physics
Barbara Yaffe, University of California, San Diego
J. Stephen Gardner, Harvard University
Valerie V. Bertinelli, Curtin University
Janet J. Wiles, Curtin University

Section on Psychology
Lora Hooper, Univ. of California, Berkeley
Richard A. Friedman, Salk Institute for Biological Studies
Gary W. Beauchamp, Tufts University
David A. Glaser, Stanford University

Section on Science, Technology, and Society
Alicia Barrel, National Academy of Sciences
Amy E. Williams, University of California, Berkeley
Martha E. Stoecker, University of Arizona
John S. Marshall, University of Wisconsin-Madison

Section on Social Sciences
William W. Collins, University of Wisconsin-Madison
Richard S. Zeckhauser, Harvard University
Susan L. Vitale, University of California, Berkeley
Marc D. Ross, University of California, Berkeley

Section on Space Sciences
Stephen R. M. Beckwith, NASA Goddard Space Flight Center
Ryan H. inger, NASA's Jet Propulsion Laboratory
Jane Howison, NASA Goddard Space Flight Center
Kathleen M. Stebe, University of California, San Diego

Section on Statistics
Sharon L. McFarland, University of California, Berkeley
Elizabeth A. Stuart, University of California, Berkeley
Michael D. Winkler, University of California, Berkeley
Sheryl S. Terry, University of California, Berkeley

Section on Statistics in the Physical Sciences
Leslie Ann Smith, University of California, Berkeley
Sharon L. McFarland, University of California, Berkeley
Elizabeth A. Stuart, University of California, Berkeley
Michael D. Winkler, University of California, Berkeley
Sheryl S. Terry, University of California, Berkeley
The next meeting of the AAAS Council will take place during the 2018 AAAS Annual Meeting in Austin, Texas, and will begin at 9:00 a.m. on 18 February 2018 at the Hilton Austin Hotel.

Individuals or organizations wishing to propose new resolutions for possible consideration by the council should submit them in written form to AAAS Chief Executive Officer Rush Holt by 10 January 2018. This will allow time for them to be considered by the Committee on Council Affairs at its winter meeting.

Items should be consistent with AAAS’s objectives and be appropriate for consideration by the council. Resolutions should be in the traditional format, beginning with “Whereas” statements and ending with “Therefore be it resolved.”

Late proposals or resolutions delivered to the AAAS chief executive officer in advance of the February 2018 open hearing of the Committee on Council Affairs will be considered, provided that they deal with urgent matters and are accompanied by a written explanation of why they were not submitted by the 10 January deadline. The Committee on Council Affairs will hold its open hearing at 2:30 p.m. on 17 February 2018 in the Hilton Austin Hotel.
2017 AAAS Fellows approved by the AAAS Council

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