254th American Chemical Society National Meeting
Division of Chemical Education

Advancing Graduate Education: Opportunities & Challenges

N. S. Goroff, Organizer
B. Z. Shakhashiri, Organizer, Presiding

Sunday, August 20, 2017
Grand Hyatt Washington, Independence C
Washington, D.C.

Sunday Morning Session

8:30 Introductory Remarks

8:35 Advancing graduate education: Prospects and expectations
B.Z. Shakhashiri
Professor of Chemistry, UW-Madison

8:50 Catalyzing the modernization of graduate biomedical education
J.R. Lorsch
Director, National Institute of General Medical Sciences
National Institutes of Health

9:20 Supporting graduate education in the future: Views from the National Science Foundation
W.J. Lewis
Deputy Director, Directorate for Education and Human Resources,
National Science Foundation

9:50 Key issues in transforming graduate STEM education for the 21st century
A.I. Leshner
Chair, National Academies Committee on Revitalizing Graduate Education

10:20 Intermission

10:35 Fostering industrial and academic partnerships
K. Watson
Vice President, Corporate Research and Development, The Dow Chemical Company

11:05 Building an integrated university/workplace education model
M. Alger
Former Senior Vice President at Myriant Corp., Former Vice President and CTO, Air Products
Institute for Natural Gas Research & Professor of Chemical Engineering, Penn State
11:35  Addressing career preparation with foundation tools  
      V. McGovern  
      Senior Program Officer, Burroughs Wellcome Fund

12:05  Concluding Remarks

Sunday Afternoon Session

1:30  Balancing research training with professional skill building: Models for collaborative effort  
      N.S. Goroff  
      Department of Chemistry, SUNY Stony Brook

1:50  ACS development and implementation of career resources for graduate students and postdocs  
      C. Kuniyoshi, J.L. Wesemann, J. Schlatterer, M.E. Grow-Sadler  
      Education Division, American Chemical Society

2:10  From the safety beat: Incorporating lab safety into graduate training  
      J. Kemsley  
      Senior Editor, Chemical & Engineering News, American Chemical Society

2:30  Is the apprenticeship model in graduate education obsolete?  
      M.T. Ashby  
      Department of Chemistry & Biochemistry, University of Oklahoma

2:50  Educating STEM doctoral students for success in a rapidly changing employment landscape  
      A.L. Feig  
      Department of Chemistry, Wayne State University

3:10  Intermission

3:25  Supporting improved safety practices in graduate chemistry education  
      R. Stuart  
      Department of Environmental Health and Safety, Keene State College  
      S. Sigmann  
      Department of Chemistry, Appalachian State University

3:45  Conquer the challenge of change by communicating a shared vision of transformative graduate education  
      B.J. Natalizio  
      National Postdoctoral Association Board of Directors  
      Division of Graduate Education, National Science Foundation

4:05  Fostering an inclusive graduate education environment: Promising practices for promoting gender equity  
      J.L. Curtis-Fisk  
      STEM Program Leader and R&D Scientist, The Dow Chemical Company  
      Ashley Bear
Can we accept the idea that the wheel might already have been invented?

G.M. Bodner
Department of Chemistry, Purdue University

Concluding Remarks