CHEMICAL SCIENCES ROUNDTABLE

Diversity, Equity, and Inclusion in Chemistry and Chemical Engineering: A Workshop of the Chemical Sciences Roundtable

Keynote Speaker Biographies

Freeman A. Hrabowski, III has served as President of UMBC (The University of Maryland, Baltimore County) since 1992. His research and publications focus on science and math education, with special emphasis on minority participation and performance. He chaired the National Academies' committee that produced the 2011 report, *Expanding Underrepresented Minority Participation: America's Science and Technology Talent at the Crossroads*. He was named in 2012 by President Obama to chair the President's Advisory Commission on Educational Excellence for African Americans. He was named one of the 100 Most Influential People in the World by *TIME* and one of America's Best Leaders by *U.S. News & World Report.* He also received Teachers Insurance and Annuity Association of America (TIAA) and College Retirement Equities Fund (CREF's) *Theodore M. Hesburgh Award for Leadership Excellence,* the Carnegie Corporation's *Academic Leadership Award,* the *Heinz Award* for contributions to improving the "Human Condition," the American Council on Education's *Lifetime Achievement Award*, and the University of California, Berkeley's *Clark Kerr Award*. He serves on the boards of the Alfred P. Sloan Foundation, France-Merrick Foundation, T. Rowe Price Group, McCormick & Company, and the Baltimore Equitable Society. He served previously on the boards of the Urban Institute, the Marguerite Casey Foundation (Chair), the Carnegie Foundation for the Advancement of Teaching, and the Maryland Humanities Council (member and Chair). He received his Ph.D. in higher education administration and statistics from the University of Illinois at Urbana-Champaign.

Geraldine Richmond is the Presidential Chair in Science and Professor of Chemistry at the University of Oregon. Bridging the fields of chemistry and physics, Dr. Richmond's research focusses on understanding the molecular characteristics of water surfaces, studies that have relevance to environmental issues such as oil remediation, atmospheric chemistry and alternative energy sources. Her teaching and extensive outreach efforts have focused on science communication and building a strong and inclusive workforce. She has been honored by numerous honors and awards including the National Medal of Science from President Obama (2016), the Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring from President Clinton (1997) and the American Chemical Society's highest honor, the Priestley Medal (2018). Dr. Richmond is a member of the National Academy of Sciences, and is a Fellow of the American Academy of Arts and Sciences, the American Chemical Society, the American Physical Society and the Association for Women in Science. Dr. Richmond has served in many leadership roles throughout her career including as Chair of the DOE Basic Energy Sciences Advisory Committee (1998-2003), as U.S. Science Envoy to the Lower Mekong River Countries of Vietnam, Laos, Cambodia, Burma and Thailand (2015-2016) and as President of both the American Associate for the Advancement of Science (2015) and Sigma Xi, the Honorary Scientific Research Society (2019-2020), and She was appointed to the National Science Board by President Obama (2012-2018) and reappointed by President Trump (2018-present). Dr. Richmond is the Founding Director of COACh (1998-present) a grass-roots organization that has helped over 25,000 women scientists and engineers in career advancement in the U.S. and over two dozen developing countries. A native of Kansas, Dr. Richmond received her Ph.D. in physical chemistry at the University of California, Berkeley in 1980.

Workshop Speaker Biographies

David Asai is senior director for Science Education at the Howard Hughes Medical Institute. His group's portfolio of initiatives includes Inclusive Excellence, Driving Change, Gilliam graduate fellowships, HHMI Professors, and the Science Education Alliance. Dr. Asai is a cell biologist whose laboratory studied the structural and functional diversity of the microtubule motor protein dynein. Prior to coming to HHMI in 2008, Dr. Asai was on the faculty at Purdue University, where he was Head of Biological Sciences, and then on the faculty at Harvey Mudd College, where he was Stuart Mudd Professor and Chair of Biology. Currently, Dr. Asai is a member of several advisory committees, including: Understanding Interventions, the NIH Diversity Program Consortium (BUILD Initiative), Computing Alliance of Hispanic-Serving Institutions, Yale Ciencia Academy, American Society for Cell Biology DEI taskforce, and the Anti-racism Expert Group of the Wellcome Trust. He is an elected Fellow of the American Association for the Advancement of Science and of the American Society for Cell Biology. Dr. Asai received his Ph.D. in biochemistry from California Institute of Technology.

Dr. Sheryl Burgstahler founded and directs Accessible Technology Services—which includes the DO-IT (Disabilities, Opportunities, Internetworking, and Technology) and the IT Accessibility Technology (ITAT) Teams—at the University of Washington. These dynamic groups promote the development of self determination skills, use of mainstream and assistive technology, as well as other interventions to support the success of students with disabilities in postsecondary education along with careers and the universal design (UD) of learning opportunities; facilities; websites, media, documents and other IT; and services to ensure that they are accessible to, usable by, and inclusive of individuals with disabilities.

Lourdes Echegoyen is director of the Campus Office of Undergraduate Research Initiatives and Research Associate Professor of Chemistry at the University of Texas at El Paso (UTEP). She is also the lead principal investigator and director of the BUILDing SCHOLARS Center at UTEP, a National Institutes of Health (NIH) funded center of excellence dedicated to the training of the next generation of biomedical researchers from the U.S. Southwest region. For the past 10 years, Dr. Echegoyen's research interests have focused on the impact that participation in undergraduate research has on student success, particularly for students from underrepresented groups. She has received multiple grant awards from the National Science Foundation, the NIH, the Howard Hughes Medical Institute and the Department of Energy to support various approaches to student development and engagement in research. Dr. Echegoyen has served on numerous review boards and advisory committees, including as co-chair of the Executive Steering Committee (ESC) of the NIH Diversity Program Consortium (DPC). Among other initiatives, during her tenure as co-chair, the DPC-ESC handled the development of the DPC Hallmarks of Success, which are being used to evaluate multiple institutional, faculty and student development programs funded by NIH across the nation. Dr. Echegoyen is also deeply involved in local and national initiatives addressing Hispanic Serving Institution metrics and the operationalization of the word "servingness" across the wide-variety of institutions that constitute HSIs. Dr. Echegoyen received her Ph.D. degree in chemistry from the University of Miami.

Miguel A. Garcia-Garibay is a distinguished professor of chemistry and Dean of the University of California, Los Angeles (UCLA) Division of Physical Sciences. Dr. Garcia-Garibay attained international reputation for research in solid-state organic chemistry, including reactive intermediates and green chemical synthesis, and for his work in amphidynamic crystals with lattice-forming elements and moving parts as a promising platform for the design of smart materials and crystalline molecular machines. He has authored over 240 articles and delivered over 450 lectures worldwide. He served two terms on the Academies' Chemical Sciences Roundtable, and is now a member of the Advisory Committee of the National Science Foundation (NSF) Mathematical & Physical Sciences Directorate. He is a fellow of the American Association for the Advancement of Science and has been awarded the American Competitiveness and Innovation Fellowship, a Creativity Award from NSF, the 2013 Inter-American Photochemical Society Award, the 2015 American Chemical Society (ACS) Cope Scholar Award, and the 2016 UCLA Diversity, Equity and Inclusion Award. In 2019 he was elected Fellow of the ACS and in 2020

he became a member of the National Academy of Arts and Sciences. Dr. Garcia-Garibay received his Ph.D. in chemistry from the University of British Columbia and was a postdoctoral Fellow at Columbia University.

Christine Grant is a Professor of Chemical and Biomolecular Engineering at NC State, serving for 12 years as the College of Engineering's inaugural Associate Dean of Faculty Advancement, responsible for faculty development, promotion and tenure. She's conducted research in surface/interfacial science and developed a green chemical engineering curriculum. A Fellow, Life Member and 2021 President-elect of the American Institute of Chemical Engineers (AIChE: a global organization of 60,000+ members in 110 countries); Dr. Grant is also a Life Member of SWE, NSBE and AISES. Dr. Grant has been recognized for broadening participation, promotion and retention of underrepresented groups and women in STEM, receiving the: AAAS Mentor Award, NSF Presidential Award for Excellence in Science, Math and Engineering Mentoring (PAESMEM); AIChE Grimes Award for Excellence in Chemical Engineering; Cannon Award for Excellence in Chemical Engineering from the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE); Women in Engineering Pro-Active Network (WEPAN) Bevlee A. Watford Inclusive Excellence Award, ACS Stan Israel Award for Diversity: SERMACS and the Council for Chemical Research (CCR) National Diversity Award. She's been a Visiting Senior Scholar at AAAS, a Boeing Senior Fellow of the National Academy of Engineering's Center for the Advancement of Scholarship on Engineering Education (CASEE), grant expert and Program Director at NSF. She co-edited the Elsevier/ Academic Press book, "Success Strategies from Women in STEM: A Portable Mentor", contributing book chapters to "Growing Diverse STEM Communities: Methodologies, Impact and Evidence" (2019) and "Overcoming Barriers for Women of Color in STEM Fields" (2020).

Allyn M. Kaufmann is currently the innovation and whitespace lead in research and development, for GSK Consumer Healthcare's U.S. Market where he leads front-end innovation on Advil, Tums, Benefiber, Robitussin, Emergen-C, Chapstick and Excedrin. He began his career working in consumer healthcare research and development at The Procter & Gamble Company, addressing stability challenges in over-the-counter drug products and dietary supplements. Throughout his career and now at GSK Consumer Healthcare, Dr. Kaufmann has directly contributed to over $1 billion in new product launches utilizing experience in stability science, analytical chemistry, intellectual property, external innovation/information research and business development/licensing. Dr. Kaufmann has created, developed and led Native American employee resource groups at multiple Fortune 500 STEM-driven healthcare companies. His passion has been to bring forward organizational programming highlighting the value of indigenous leadership styles, professional development, tackling and overcoming invisibility bias, and STEM recruitment and retention of indigenous employees. He is a member of the Society for the Advancement of Chicanos/Hispanics and Native Americans in Science having served as an executive Board of Directors Member, and the Quapaw and Pawnee Nations of Oklahoma and Pawnee Nation of Oklahoma where his ceremonial name is "His Shield is Knowledge." Dr. Kaufmann received his Ph.D. in pharmaceutical chemistry from the University of Kansas in 2008.

Rebecca T. Ruck is an executive director at Merck Process Research & Development. She leads the Enabling Technologies group, a role she proposed that has created an innovation incubator of biologists, chemists and engineers. Her team is making impressive contributions across all pipeline projects, including the application of an unprecedented biocatalytic cascade sequence to the manufacturing route of islatravir, a pioneering photochemical flow process for belzutifan and an immobilized enzymatic flow reaction for a late-stage oncology asset. Dr. Ruck has been actively involved in the external research community through academic collaborations, creation of Merck's university lectureship series and recruiting efforts that have led to an unrivaled increase in the number of women in the process research and development team. She has expanded her women in chemistry efforts externally through the Women Chemists Committee Merck Research Award and Empowering Women in Organic Chemistry conference and internally through expanded diversity and inclusion accomplishments such as a series of diversity and inclusion-themed TED-style talks that have greatly impacted the department's understanding and appreciation of these important topics. For these efforts, Dr. Ruck has been recognized with the 2018 American Chemical Society (ACS) Award for Encouraging Women into Careers in the Chemical

Sciences and as a 2020 Healthcare Businesswomen's Association Rising Star and ACS Fellow. In addition, she currently holds positions on the National Academies Board on Chemical Sciences and Technology, the ACS Petroleum Research Fund, the Massachusetts Institute of Technology Visiting Committee, and is on the Editorial Advisory Boards for ACS Catalysis, Reaction Chemistry & Engineering and Advanced Synthesis & Catalysis. She obtained her Ph.D, in organic chemistry from Harvard University.

Dontarie Stallings is presently an Assistant Teaching Professor of chemistry and biochemistry at the University of California, San Diego. Dr. Stallings' current scholarship includes working to increase the success of underrepresented chemistry and biochemistry majors by assessing the commonalties for success and the barriers to retention among past students. In 2015, Dr. Stallings joined the Open Chemistry Collaborative in Diversity Equity (OXIDE, Georgia Institute of Technology | Johns Hopkins University) as the Research and Program Manager. During his 5 years with OXIDE, Dr. Stallings generated strategies for developing organization specific policies, assessments, and procedures to improve equity, diversity, and inclusion within the academic chemistry ranks. Dr. Stallings received his PhD in Chemistry from the University of Alabama.

Hoby Wedler a chemist and entrepreneur, is an insightful, disarming, and passionate thinker who loves to bring people together to help them see new possibilities. With the heart of a teacher, Dr. Wedler helps turn your dreams into realities. Dr. Wedler has been completely blind since birth. He is a scientist, an entrepreneur, a sensory expert, and is driven by his passion for innovative, creative, and insightful thinking. He is remarkably tuned into his surroundings and has frequently chosen to walk the unbeaten paths in life over known territories. In 2011, he founded a non-profit organization to lead annual chemistry camps for blind and visually impaired students throughout North America. In the same year, he began opening doors to the world of wine aromas by developing Tasting in the Dark, a truly blindfolded wine experience, in collaboration with the Francis Ford Coppola Winery. He has since expanded the program to a global market in a variety of industries and special projects. Over the years, Dr. Wedler has become a motivational speaker, a mentor, and an educator. He is also committed to making the world an inclusive, equitable, and accessible place for everyone. In his work, you will find a unique trilogy between sensory awareness, scientific knowledge, and a love for sharing his insights. Numerous people and organizations have recognized Dr. Wedler's work over the years. To name a few, President Barack Obama recognized Dr. Wedler by naming him a Champion of Change for enhancing employment and education opportunities for people with disabilities. Also, Forbes Media named him as a leader in food and drink in their 30 under 30 annual publication. Dr. Wedler is dedicated to impacting everyone he works with by unlocking doors, overcoming challenges, increasing awareness, and expanding their horizons. In 2016, Dr. Wedler earned his Ph.D. in organic chemistry from University of California, Davis. His fearlessness is infectious, and he has actively paved the way for others to join him in his quest to follow passions regardless of the challenges that lie ahead.

Ellen Wang Althaus is director of the Sloan University Center of Exemplary Mentoring (UCEM) at the University of Illinois Urbana-Champaign (UIUC) since its launch in 2015. She is responsible for developing strategy, implementing vision, and overseeing day-to-day operations at the UCEM, which aims to broaden participation of U.S. racial/ethnic minority groups underrepresented in advanced engineering, physical and mathematical sciences by providing doctoral students with scholarship, mentorship, networking, and professional development opportunities. To date, the UCEM has recruited over 100 scholars and affiliates to UIUC in 19 STEM departments. Dr. Althaus has a longstanding passion for broadening the participation and fostering the personal, academic, and professional development of graduate students underrepresented in STEM. Through her work at the Graduate College and previously in the Chemistry department at the University of Illinois, Dr. Althaus has been collaborating over the past 15 years with diversity champions to develop and implement new programs and initiatives for promoting inclusion, diversity, equity, and inclusion in STEM. She serves on both the campus leadership team and the cross-institutional steering committee for the Big Ten Academic Alliance Advancing Women initiative. Dr. Althaus holds a Ph.D. in chemistry from Northwestern University.

Travis T. York is the director of Inclusive STEM Ecosystems for Equity & Diversity (ISEED) at the American Association for the Advancement of Science (AAAS). Dr. York's research and work focus on catalyzing and

sustaining systemic change and transformation to achieve inclusive and equitable access and progress through Science, Technology, Engineering, and Mathematics (STEM) pathways into the STEM workforce. Dr. York provides leadership to a talented team who collaborate to create change in over 20 grant-funded projects and initiatives spanning all STEM fields and the entire educational pathway including AAAS's SEA Change Initiative, Science in the Classroom, ARISE Network, S-STEM Initiative, L'Oreal USA Women in Science Fellowships, and Historical Black Colleges and Universities (HBCU) Making & Innovation Showcase. Dr. York is a Co-Principal Investigator on the NSF Inclusion across the Nation of Communities of Learners of Underrepresented Discovers in Engineering and Science (INCLUDES) Aspire Alliance and Founder of the Institutional Change Network—an effort to develop a more inclusive and diversified STEM faculty; and serves as a Co-Principal Investigator on a U.S. Department of Education Institute of Education Sciences Assessment Grant titled, Affording Degree Completion: A Study of Completion Grants at Accessible Public Universities in collaboration with the Coalition of Urban Serving Universities and Temple University's Hope Center for College. Dr. York has authored numerous peer-reviewed articles and book chapters, and his most recent article, Completion Grants: A multi-method examination of institutional practice, is available in the Journal of Student Financial Aid. Dr. York is active within several professional associations and serves on the editorial review board of the Journal of Diversity in Higher Education. A native of Charleston, South Carolina, Dr. York received his Ph.D. in higher education administration from The Pennsylvania State University.

Planning Committee Biographies

Carlos Gonzalez has been the Chief of the Chemical Sciences Division of the National Institute of Standards and Technology (NIST) since 2012. Dr. Gonzalez joined NIST in 1997 as a member of the Computational Chemistry Group within the Physical and Chemical Properties Division. He was appointed to the position of Chief, Chemical and Biochemical Reference Data Division in 2008. Previously, Dr. Gonzalez was a Postdoctoral Scholar at Carnegie Melon University under the mentorship of Prof. John A. Pople, a 1998 Nobel Laureate in Chemistry. He is an ex-officio member of the National Academies' Chemical Sciences Roundtable. Dr. Gonzalez received his Ph.D. in Chemistry from Wayne State University.

Ian Henry is a Director in research and development (R&D) at Procter & Gamble (P&G), the world's largest consumer products company. Currently, he leads Analytical for P&G's global Feminine Care business. Prior to Feminine Care, Dr. Henry led the Qualitative Mass Spectrometry group in the Trace Analysis Capability and the Analytical Digital Platforms group in corporate R&D. An analytical chemist with a background in bioanalytical Nuclear Magnetic Resonance Spectroscopy, Dr. Henry started his P&G journey in the Beauty business, supporting innovation programs for brands such as Olay, Safeguard, Pantene, and Head and Shoulders. During his tenure in Beauty, he was an original member of the Centric Team, a grassroots-led group of black PhD scientists who led fundamental hair studies and value proposition creation that resulted in the startup of focused product initiatives for Consumers of African-Ancestry, most notably Pantene Gold Series, Head and Shoulders Royal Oils and, more recently, the My Black Is Beautiful brand. The team's work garnered P&G's CRDIO Pathfinder and Diversity and Inclusion Award honors. Dr. Henry is also the Vice President of the Cincinnati Chapter of National Organization for the Professional Advancement of Black Chemists and Chemical Engineers and active in the local Cincinnati Section of the American Chemical Society, where he is involved in STEM outreach throughout the greater Cincinnati region. Since 2012, Dr. Henry has been a member of the Board of Trustees at Earlham College, where he leads the Diversity, Equity and Inclusion Committee. He is also a mentor in the Big Brothers Big Sisters program, serving since 2010. In 2016, he was selected as a Great Leader Under 40 by LEAD Cincinnati and, recently, he was appointed to the Academies' Roundtable for Black Men and Black Women in Science, Engineering, and Medicine. Dr. Henry earned his PhD in Analytical Chemistry from Purdue University in 2008, where he studied under Dr. M. Daniel Raftery.

Rigoberto Hernandez is the Gompf Family Professor in the Department of Chemistry at the Johns Hopkins University as of July 1, 2016, and remains as the Director of the Open Chemistry Collaborative in Diversity Equity (OXIDE) since 2011. OXIDE is a 5-year initiative to change the academic chemistry infrastructure from the top down by working with the chairs of leading research-active chemistry departments to reduce inequitable policies and practices that have historically led to disproportionate representation on academic faculties with respect to gender, race-ethnicity, disabilities, and sexual orientation. Before Hopkins, Dr. Hernandez was a Professor in the School of Chemistry and Biochemistry at Georgia Tech, and Co-Director of the Center for Computational Molecular Science and Technology he co-founded. Dr. Hernandez is the recipient of a National Science Foundation (NSF) CAREER Award, Research Corporation Cottrell Scholar Award, the Alfred P. Sloan Fellow Award, a Humboldt Research Fellowship, the American Chemical Society (ACS) Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences, the Council for Chemical Research Diversity Award, the Research Corporation or Science Advancement (RCSA) Transformative Research and Exceptional Education Award, Herty Medal, the ACS Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences, and the RCSA IMPACT Award. He is a Fellow of the American Association for the Advancement of Science, the ACS, the American Physical Society and the Royal Society of Chemistry. He holds a BSE in Chemical Engineering and Mathematics from Princeton University, and a PhD in Chemistry from the University of California, Berkeley.

Malika Jeffries-El is the Associate Dean of the Graduate School in Arts and Sciences at Boston University. She joined the Department of Chemistry and Division of Materials Science at Boston University in 2016. Previously, she was a Martin Luther King Jr. Visiting Professor in the chemistry department of the Massachusetts Institute of Technology, and was an associate professor in the Chemistry Department at Iowa State University. After spending one year at Smith College as a Mendenhall Fellow she worked as a post-doctoral researcher under the direction of Professor Richard D. McCullough at Carnegie Mellon University. Dr. Jeffries-EL's research focuses on the development of organic semiconductors–materials that combine the processing properties of polymers with the electronic properties of semiconductors. She has authored over 40 publications, received over 3700 citations and given over 100 lectures domestically and abroad. She has won numerous awards including the 3M Non-Tenured Faculty Award, the Lloyd Ferguson Award from the National Organization of Black Chemist and Chemical Engineers, National Science Foundation CAREER award, the American Chemical Society (ACS)-Women Chemist Committee Rising Star award, the Iota Sigma Pi Agnes Fay Morgan Award, and ACS Fellow. She is currently an Associate Editor for the Journal of Materials Chemistry C. She has also served on the editorial advisory boards for Macromolecules and Chemical and Engineering News. Dr. Jeffries-EL is also a staunch advocate for diversity and dedicated volunteer that has served in several activities within the ACS including the advisory board for the Women Chemist of Color Initiative and the Women Chemist Committee. She also serves the community through her work with Alpha Kappa Alpha Sorority, Incorporated. Dr. Jeffries-EL received bachelor degrees in Chemistry and Africana Studies at Wellesley College and a PhD degree in chemistry from The George Washington University.

Mary Kirchhoff is the Executive Vice President for Scientific Advancement and the Director of the Green Chemistry Institute at the American Chemical Society (ACS). Prior to her current role, Dr. Kirchhoff served as the Director of the ACS Education Division for 11 years. Dr. Kirchhoff taught at Trinity College in Washington, D.C. for nine years, serving as Chair of the Division of Natural Sciences and Mathematics. She began working in green chemistry as an American Association for the Advancement of Science (AAAS) Environmental Fellow and Visiting Scientist with the U.S. Environmental Protection Agency's Green Chemistry Program. Dr. Kirchhoff is a member of the National Academies' Chemical Sciences Roundtable and was elected an AAAS Fellow in 2006. Mary holds a Ph.D. in Organic Chemistry from the University of New Hampshire.

Cheryl Leggon is an Associate Professor in the School of Public Policy at the Georgia Institute of Technology (Georgia Tech). Before coming to Georgia Tech, she was Director of Women's Studies and Associate Professor of Sociology at Wake Forest University; before that, she was a Staff Officer in the Office of Scientific and Engineering Personnel at the National Academies. Her research and evaluation work focuses on policies, programs and practices to increase and enhance participation of race/ethnic groups and women of color in the science and engineering workforces. Her most recent work includes: *STEM and Social Justice: Teaching and Learning in Diverse Settings* (Springer 2017); and "African American Engineering Deans of Majority-Serving Institutions in the United States," in *Changing the Face of Engineering: The African American Experience* (edited by John Slaughter, Yu Tao, and Willie Pearson, Jr., Springer 2017). She is a Fellow of the American Association for the Advancement of Science and Sigma Xi. Dr. Leggon received her PhD from the University of Chicago in sociology.

Leyte L. Winfield is the Division Chair for Natural Science and Mathematics at Spelman College. Since joining Spelman in 2003, she has established a research program that investigates the relationship between the structure of a molecule, particularly benzimidazoles, and its utility as a therapeutic agent against breast, ovarian, and prostate cancers. Her research has been recognized by the American Association of Cancer Research and the Council for Undergraduate Research, and has resulted in publications in leading industry journals and six patents. Additionally, Dr. Winfield is dedicated to nurturing potential and agency in Women of African descent pursuing careers in STEM. Previously as Department Chair of Chemistry and Biochemistry, Dr. Winfield helped establish new strategies for structured curricular reform. She led the department's efforts to broaden the curriculum to meet the ideals of a liberal arts education while simultaneously providing students with resources that promote improved engagement and performance in the majors. A hallmark of the effort is its rigor, which challenges exceptional students while providing mechanisms that nurture the success of underperforming students. In addition to her role as department chair, her record of leadership has included service as Interim Associate Provost of Research as well as directorships of the National Science Foundation-funded Historically Black Colleges and Universities – Undergraduate Program Advancing Spelman's Participation in Informatics Research and Education, the ExxonMobil WISE Scholars, the National Institute of Health-funded Women of Color Legacy, and the endowed Department of Chemistry & Biochemistry Scholars programs. Additionally, in collaboration with the Spelman College Chemistry Club and the Atlanta Area Professional Chapter of the National Organization of Black Chemists and Chemical Engineers, she is involved in a number of outreach activities including Super Science Saturday and the Girl Scouts STEM Expo, which engages more than 20,000 youths in the metro Atlanta area in STEM activities. Dr. Winfield earned her PhD in chemistry from the University of New Orleans.