About the Contributors

**Monica Gray.** Ph.D., M.P.H., C.P.H., is an Assistant Professor of Civil and Environmental Engineering at The Lincoln University. She simultaneously received her Ph.D. in Civil and Environmental Engineering (Water Resources concentration) and Masters of Public Health (Environmental & Occupational Health concentration) from the University of South Florida, Tampa. She also received a Masters in Biological Engineering from the University of Georgia, Athens and B.S. in Agricultural Engineering from the University of the West Indies, Trinidad. Prior to arriving at The Lincoln University, Dr. Gray managed the global curriculum portfolio for over a hundred and twenty programs in sixteen countries at Arcadia University and work as an Environmental Engineer and Environmental Health Program Director at the Philadelphia Housing Authority and Organica Biotechnology. Her research interest is in the area of systems approaches for sustainable environmental management and community health with particular focus on water resources and sanitation systems. This includes water and wastewater treatment, reuse and management. Her current research project is the identification and modelling of Pharmaceutical and Personal Care Products (PPCPs) in community water.

**Ken D. Thomas** is the Associate Director for Student Affairs in the Honors College and Honors Lecturer in Biosystems Engineering of both the Honors College and Department of Biosystems Engineering at Auburn University. He received both his B.Sc. Chemical & Process Engineering and MSc Environmental Engineering from the University of the West Indies, St. Augustine and Ph.D. Civil Engineering (Environmental & Water Resources Engineering [EWRE]) from the University of South Florida (USF). His current research interests are in sustainability science, sustainable development and sustainable development engineering, especially in a West Indian context, and engineering education.

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Mary Ayre has had a long involvement working at tertiary level in the area of women and math-science education across several universities in the UK. In the late 1990s she led a project on gender inclusive curriculum at the University of South Australia, a project which inspired her to pursue her interest in equity in science and engineering leading to her recently completed doctoral study of women and engineering work. She has several publications in her area and was involved as a joint author in the 2010 book Gender Inclusive Engineering Education.

Anna Bouffier acquired her final degree “Magistra Artium” in the subjects sociology, philosophy and political sciences. Since 2012 she is research associate at the research unit “Gender and Diversity in Engineering” (GDI) in the faculty of Civil Engineering at RWTH Aachen University in Aachen, Germany. She works within the field of applied gender and diversity research in science and technology. Currently her work focuses on gender and diversity perspectives in higher education in engineering.

Rae Cooper is a designer, lecturer and researcher at Griffith University with a commercial background in Graphics and Communication Design. Her focus is on first year education and she is the first year co-ordinator across all the design disciplines, including Industrial students from the Engineering school. Cooper is very committed to innovative teaching practice to support diversity and to foster inclusion through the development of strategic extra-curricular activities. She is currently completing her doctorate, focusing on protest and agitation within design and media - an area that combines her professional experience and expertise for uncovering alternatives.

Gretchen Dietz is an undergraduate student at the University of Mount Union, Alliance, Ohio, USA, Gretchen is a senior in the civil engineering program.

Fabiola P. Ehlers-Zavala was named INTO Colorado State University (CSU)’s Center Director in November 2014, having previously fulfilled the role of INTO CSU Academic Director (March 2013-November 2014). She earned her B.A. in English Language and Literature together with her teaching certificate from the Pontificia Universidad Católica de Valparaíso in 1992. She then pursued graduate education in the U.S., and she earned both her M.A. (1994) in English and Ph.D. in English Studies (1999) from Illinois State University. Upon her graduation, she worked for Illinois State University (ISU) as Assistant Professor in Bilingual/Bicultural Education until she received her tenure and promotion to Associate Professor. While at ISU, in her last year, she directed the Bilingual/Bicultural Education Program in the College of Education. In 2006, she moved to Colorado to teach in the M.A.

Sonja Gaedicke works as research associate at the research group Gender and Diversity in Engineering (GDI) at RWTH Aachen University. In addition, she is writing her PhD thesis in the Sociology. Within the scope of her dissertation she analyses the connection between urban spaces and deviant, criminal behaviour in Berlin and Cologne. She studied Sociology, Political Science and English Literature at RWTH Aachen University and graduated with a Magister degree in 2007. Focus of Work: Gender and Diversity Studies, Gender and Diversity in Engineering Education, Urban Sociology.

Judith Gill, currently Adjunct Associate Professor at the University of South Australia, is a former senior mathematics teacher who came into education research to investigate girls and math learning. For the past 30 years she has worked in teacher education, focussing on issues of gender in education and work. Her research has concerned school gender contexts, workplace learning, women and engineering and gender and citizenship. To date she has published 7 books and numerous journal articles in these areas.
Jennifer Groh joined the Purdue Women in Engineering Program (WIEP) team in 2009. She received a B.S. in microbiology from Purdue University, and a Ph.D. in microbiology from the University of Oklahoma. Prior to joining WIEP, she was the Graduate Program Coordinator in the Purdue Weldon School of Biomedical Engineering. As Associate Director of WIEP, Jennifer administers the undergraduate Mentee & Mentor Program and the Graduate Mentoring Program, teaches two Women in Engineering seminars (ENGR 19400 and 49400), and oversees WIEP’s K-12 outreach programming. Dr. Groh has also invested over 100 hours of training in academic coaching to become a certified Affiliate Coach with LifeBound, Inc. with a specialized focus in serving Science, Technology, Engineering, and Math (STEM) populations nationwide. Additionally, she has facilitated numerous national workshops on academic coaching which have been well received by a variety of audiences, including undergraduate and graduate students, faculty and staff in higher education, and corporate representatives. In addition to leading these engaging sessions, Dr. Groh integrates coaching into WIEP programming, student mentoring, and her personal life.

Juile Hessedence is a senior undergraduate student studying civil engineering at the University of Mount Union in Alliance, Ohio. She currently works at Chagrin Valley Engineering and serves as the Vice-President of the Society of Women in Engineering. She lead the efforts to get a Society of Women in Engineering Chapter recognized on campus in order to help women reach their full potential as students, leaders, and engineers. Over the course of her engineering career, Julie has had the opportunity to study abroad in Guatemala and Panama. Both experiences required Julie to apply her engineering knowledge to solve real-world problems. Her experience in Panama gave her the opportunity to encourage women and minorities to go into STEM related fields. Upon graduation, Julie hopes to obtain a job in the civil engineering field as an engineer in training.

Yvonne Hilton, Ed.D. has worked in higher education for over two decades. She holds a Bachelor’s Degree in Therapeutic Recreation from Lincoln University (1988), a Master’s Degree in Physical Education from the University of Delaware (1990) and a Doctor of Education degree in Organizational Leadership and Innovation from Wilmington University (2009). Dr. Hilton began her tenure at Lincoln in the fall of 2000. She demonstrates a passion and willingness to address the needs of a diverse population of students in a challenging and caring learning environment. Dr. Hilton has given herself to the service of the university community: she has served on various university faculty standing committees; been a panelist in a women’s health program; served as a facilitator in an anti-drug workshop for student athletes; been a faculty advisor to the department’s major’s club.
Simon Howell is a lecturer in the Griffith School of Engineering with a particular responsibility for teaching professional skills in the engineering program. He is also a member of the teaching team for Creative Engineering. Howell has a focus on experiential learning and cross-cultural communication. He is heavily involved with the development of the first year experience in engineering at Griffith University and has a background in student support and academic skills development.

Melissa L. Johnson currently serves as the Associate Director of the University of Florida Honors Program. She has the unique opportunity to work with students from their admission into the program through alumni development activities. She advises honors students on academic, co-curricular, and career development matters, while also teaching innovative courses in professional development, civic engagement, and leadership. Melissa received her Ph.D. in educational technology from the University of Florida. Professionally she has served as an editorial board member for Honors in Practice, the Journal of Student Affairs Research and Practice, the NACADA Journal, and the Journal of The First-Year Experience and Students in Transition. She has served as the chair of the Advising High Achieving Students Commission through the National Academic Advising Association and recently was elected to the Board of Directors for the National Collegiate Honors Council.

Carmen Leicht-Scholten, PhD, holds a bridging professorship at the faculty of Civil Engineering. Political scientist by training she has been published in the field of gender and diversity in higher education and science and technology studies for many years. Carmen Leicht-Scholten was responsible for the development of the Gender- and Diversity-Strategy of RWTH University that succeeded in the German Excellence Initiative. She has been the first German gender expert to discuss gender and diversity in the process of the excellence initiative. With the development of the concept of gender and diversity for Aachen University she has been a pioneer and best practice for many other German universities. Carmen Leicht-Scholten has been expert in many national and international projects and is evaluator for the European Commission. She is German representative of the cost action GenderSTE and representing Aachen University in CDIO, an innovative educational framework for producing the next generation of engineers. Currently she is working in different national and international projects to integrate gender perspectives in engineering education (see http://www.gdi.rwth-aachen.de/engl/research/). She is coeditor of “Gender- Zeitschrift für Geschlecht, Kultur und Gesellschaft” and author of various publications on gender in science and engineering.
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Terry Long is an undergraduate student at the University of Mount Union in Alliance, Ohio, USA. Terry is a senior studying mechanical engineering.

Jennifer Loy has a background in design for manufacturing in the UK and Australia. She teaches Creative Engineering across all engineering disciplines in the first year at Griffith University on the Gold Coast in Queensland. Loy has a particular interest in teaching experiential learning and interdisciplinary education. She is the Program Leader of Industrial Design and Deputy Director of the Griffith Centre for Creative Arts Research.

Constance Lundy, MA, has over three decades of experience in study abroad and higher education administration, and as Director of International Programs and Services at Lincoln University, the nation’s oldest degree granting HBCU. In this position, she is responsible for promoting and preparing students for study abroad experiences. Under her direction, Lincoln has seen a steady increase in the number of students opting to participate in an international education experience. She has served as an evaluator for the International Gilman Scholarship, the Boren Fellowship, Fulbright Pre-Academic and Gateway Orientation programs, and the National Council for International Visitors. For three years, she directed the Institute of International Education’s South African Education Program Orientation which was held at Lincoln University during the post-apartheid era, and from 2006-2008, she directed a Fulbright program that brought 30 foreign scholars to Lincoln University for a summer pre-academic orientation experience, and Lincoln was again selected to host a 2010 Fulbright Gateway orientation that will bring 60 scholars to the campus for academic and cultural experiences. She serves on the board of directors of the College Consortium for International Studies (CCIS), and under her management, Lincoln University sponsors the KCP International Language program, based in Tokyo, Japan, and a Liberal Arts, Business and Economics, and Legal Studies program at the Anglo American University in Prague, Czech Republic.

Anthony A. Maciejewski received the B.S. (summa cum laude), M.S., and Ph.D. degrees in Electrical Engineering in 1982, 1984, and 1987, respectively, all from The Ohio State University under the support of a National Science Foundation (NSF) graduate fellowship. From October of 1985 to September of 1986 he was an American Electronics Association Japan Research Fellow at the Hitachi Central Research Laboratory in Tokyo, Japan where he performed work on the development of parallel processing algorithms for computer graphic imaging and simulation. In 1988, Prof. Maciejewski joined the faculty of Purdue University as an Assistant Professor of Electrical Engineering. He was promoted to Associate Professor in 1993 and Full Professor in 1998. In August of 2001 he joined Colorado
State University (CSU) where he is currently a Professor and Head of the Department of Electrical and Computer Engineering. His research and teaching interests center on the analysis, simulation, and control of kinematically redundant robotic systems. His current work focuses on how kinematic redundancy can be utilized to design failure tolerant robotic systems for remote operations. He has over 200 publications, directs a research laboratory and has developed graduate courses in these areas. His commitment to education resulted in his receiving four teaching awards. His research has been supported by NSF, Sandia Nat’l Lab, Oak Ridge Nat’l Lab, DARPA, NASA, Nat’l Imagery and Mapping Agency, Missile Defense Agency, Non-lethal Technology Innovation Center, the NEC Corporation, Caterpillar, AT&T, H-P, Intel, Wolf Robotics, and the TRW Foundation. Prof. Maciejewski has served on eight editorial boards including the IEEE Transactions on Robotics and Automation and the IEEE Transactions on Systems, Man, and Cybernetics. He is a Fellow of the Institute of Electrical and Electronics Engineers “for contributions to the design and control of kinematically redundant robots,” and has served as the VP for Financial Activities, AdCom member and Secretary for its Robotics and Automation Society. He was Technical Program Co-chair for the 1997 International Conference on Robotics and Automation (ICRA), Technical Program Chair for ICRA 2002 and has served on over 100 other conference program committees. He is also a member of the Association for Computing Machinery.

Julie Mills, after graduating with an Honours degree in Civil Engineering, spent over a decade working as a professional engineer across two Australian states. She returned to University where she completed her PhD in engineering education and has taught engineering for the past 20 years. She is currently Head of School in engineering and has achieved national and international recognition for her commitment to gender equity in engineering teaching and learning. She was also involved in the jointly authored publications “Gender Inclusive Engineering Education” (2010) and “Challenging Knowledge, Sex and Power: Gender, Work and Engineering” (2013).

Helen Muga, Ph.D., is an Assistant Professor in civil engineering at the University of Mount Union, Alliance, Ohio. She worked as a postdoctoral researcher in the Civil & Environmental Engineering department at the University of South Florida, Tampa, Florida. She received a Ph.D. in Environmental Engineering from Michigan Technological University, Michigan, USA, a Masters degree in Environmental Engineering from Michigan Technological University, Michigan, USA, a Masters degree in Chemical Engineering from Curtin University of Technology, Australia, and a Bachelors degree in Chemistry from the University of Papua New Guinea. Her research interests include water and wastewater engineering, sustainability, life cycle engineering, green engineering, diffusion and adoption of green technology, and international development work.
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**Amy Peterson** is an Assistant Professor in the Department of Chemical Engineering at Worcester Polytechnic Institute (WPI). She earned her PhD in Chemical Engineering at Drexel University and completed her postdoctoral research in the Interfaces Department at the Max Planck Institute of Colloids and Interfaces, where she was the recipient of an NSF Graduate Research Fellowship and Alexander von Humboldt Postdoctoral Research Fellowship. Her research focuses on functional polymer surfaces and interfaces and she has received a WPI Teaching Innovation Grant.

**Tatyana Plaksina** is an assistant professor of petroleum engineering at the department of Chemical and Petroleum Engineering at University of Calgary. She received her PhD in Petroleum Engineering at Texas A&M University, TX, USA. She also holds an MS in Petroleum Engineering from Louisiana State University, Baton Rouge, and a BA in Math/Computer Science from Lawrence University, WI. In addition to reservoir engineering and optimization, her research interests include geothermal energy, CO₂ sequestration, advanced petroleum economics and risk analysis, and petroleum engineering education. Dr. Plaksina is an author of multiple peer-reviewed publications in reputable journals and a frequent speaker at numerous SPE and AAPG conferences.

**Aaron Sakulich** is an Assistant Professor in the Department of Civil and Environmental Engineering at Worcester Polytechnic Institute (WPI). His professional background is in the investigation of concrete systems that incorporate various industrial wastes in order to improve durability and reduce environmental impact. As a Fulbright Scholar to Morocco, Aaron wrote the only widely available English-language grammar textbook for colloquial Moroccan Arabic in addition to performing research focused on Moroccan mining wastes. Recent experiences as the principal investigator on grants funded through the National Science Foundation’s REU and IRES programs have demonstrated to Aaron the value of diversity in the research and industrial settings.
Kristy Spear is currently an Advisor for the University of Florida Honors Program. She serves as an instructor for the program as well, teaching Honors Professional Development, in addition to other courses. Prior to joining the Honors Program, she spent several years in human resources with responsibilities ranging from training and development to global faculty recruitment. Capitalizing on the experience she gained in HR, Kristy transitioned to a role in career services. As the Assistant Director for Career Development she designed and implemented programs to aid students in career exploration and preparation. Many of these programs were presented at national conferences and used as model initiatives at other institutions. Kristy earned an interdisciplinary B.S. from the University of Central Florida with a focus on Health and Communication and graduated with a minor in Hospitality Management. She received her M.Ed. from the University of Florida in Educational Leadership and is currently finishing her Ph.D. in Curriculum and Instruction with a specialization in Educational Technology and a certificate in Digital Humanities.

Chandra Austin Stallworth graduated from North Carolina A & T State University in Graphic Communications Systems with an emphasis in CAD and received a M.Ed and Ph.D. from the University of Minnesota Twin Cities. Chandra has been inducted into Phi Beta Kappa, Epsilon Phi Tau, and Gold Key Honor Society and has also been involved with VICA. She has several years of experience working with different engineering firms as a CAD technician. The title of her dissertation is Factors influencing African-American high school students in career decision self-efficacy and engineering-related goal intentions. Chandra was a post-doctoral research associate at Utah State University during academic year 2009-2010 and then she was post-doctoral teaching fellow in the Honors College at Auburn University. Dr. Stallworth left this position to further her education and is currently in Law School.

Linda Steuer is research associate at the research group “Gender and Diversity in Engineering” (GDI), RWTH Aachen University. The gender and diversity chair investigates, places and publishes new themes in gender and diversity research. As “bridging professorship”, the chair is designed to strengthen the interdisciplinary research between technological, engineering, natural, human, social and economical sciences. In the course of numerous projects in the field of interdisciplinary and diverse teaching, such as a transatlantic course with the Stanford University, Linda Steuer has gained scientific experiences.