Ilesanmi Adesida is Vice Chancellor for Academic Affairs and Provost of the University of Illinois. He oversees the campus' academic programs, policies and priorities. As the chief academic officer, Provost Adesida works closely with the Chancellor, the other vice chancellors, the deans of academic colleges and other units, academic staff, the Faculty Senate, and various committees in setting overall academic priorities for the campus. He is currently the Donald Biggar Willett Professor of Engineering, Professor of Electrical and Computer Engineering, and Professor of Materials Science and Engineering. Provost Adesida's research interests include nanofabrication processes and ultra-high-speed optoelectronics. He received his PhD degree in electrical engineering from the University of California, Berkeley.

Tim Barnes is Director of Illinois Strategic International Partnerships (ISIP). He has worked in the offices of Overseas Projects and Foreign Visitors (OPFV), East Asian and Pacific Exchange Programs (EAEP), and Institutional and Faculty International Collaboration (IFIC) prior to assuming his current position as director of ISIP. Tim now manages all formal institutional linkages between the Urbana-Champaign campus and international partners, as well as fostering increased international engagement among faculty and serving as the campus liaison officer for the Fulbright Senior Scholar program.

Rashid Bashir is the Abel Bliss Professor of Electrical and Computer Engineering & Bioengineering, Director of the Micro and NanoTechnology Laboratory at the University of Illinois, and Director of the campus-side Center for Nanoscale Science and Technology, a collaboratory aimed to facilitate center grants and large initiatives around campus in the area of nanotechnology. He completed his PhD from Purdue University and has authored or co-authored over 150 journal papers, over 200 conference papers and conference abstracts, and has been granted 34 patents. His research interests include nano-biotechnology, interfacing biology and engineering from molecular to tissue scale, and applications of semiconductor fabrication to biomedical engineering.

Douglas Beck is a professor of physics at the University of Illinois. He earned his PhD in physics from MIT. Professor Beck is the creator, spokesman, principal driving force, and intellectual leader of the G0 experiment at Thomas Jefferson National Accelerator Facility. This collaboration of more than 80 senior physicists from 18 institutions is designed to elucidate a detailed spatial distribution of charge and current densities for strange quarks. The Illinois group, under Professor Beck’s leadership, is responsible for the main instrumentation for the experiment, a superconducting toroidal spectrometer. The $2M magnet for the spectrometer was designed and tested at Illinois before being successfully installed at JLab.

Abbas Benmamoun is the Vice Provost for Faculty and Academic Affairs with responsibilities to provide leadership in the areas of academic affairs and faculty affairs. He is the Romano Professorial Scholar in the Department of Linguistics. His research focuses on comparative syntax and morphology of natural language and on heritage languages. He is the author of The Feature Structure of Functional Categories (2000), co-author of The Syntax of Arabic (2010). He is also co-editor of the book series Studies in Arabic Linguistics (John Benjamins). He previously served on the faculty of the University of Wisconsin at Madison and the School of Oriental and African Studies, University of London.
Nicholas Burbules is the Gutgsell Professor in the Department of Educational Policy, Organization and Leadership at the University of Illinois, Urbana-Champaign. His primary research focuses on philosophy of education; teaching through dialogue; and technology and education. He has published several papers and given numerous talks on “ubiquitous learning.” He is currently the Education Director for the National Center on Professional and Research Ethics, located at Illinois. His most recent books are Showing and Doing: Wittgenstein as a Pedagogical Philosopher, coauthored with Michael Peters and Paul Smeyers (2010, Paradigm Press) and Feminisms and Educational Research, coauthored with Wendy Kohli (2012, Rowman and Littlefield).

Carla Cáceres is the Director of the School of Integrative Biology and Professor of Animal Biology at the University of Illinois. Dr. Cáceres and her colleagues focus on questions at the interface of population, community and evolutionary ecology. At its core, her research focuses on how biodiversity arises, how it is maintained, and what is its functional significance from the scale of organismal traits to ecosystems. She has a PhD in Ecology and Evolutionary Biology from Cornell. She has written or co-written more than 50 papers and six book chapters or other publications.

Andreas Cangellaris is the Dean of the College of Engineering at the University of Illinois. He is broadly recognized for his research in applied and computational electromagnetics and its applications to the signal integrity of integrated electronic circuits and systems. His research has produced several design methods and computer tools that are used widely in the microelectronics industry. He has written or co-written more than 250 papers. He is the M.E. Van Valkenburg Professor in Electrical and Computer Engineering, and he has served as the head of the department since 2008. He earned his doctorate in electrical engineering at the University of California, Berkeley.

Jie Chen is a professor of cell and development biology at the University of Illinois. Her research is primarily interested in signaling mechanisms that underlie fundamental cellular and developmental processes. She received her PhD in Biochemistry from Rice University and is the recipient of numerous awards, including the Faculty Excellence Award, School of Molecular and Cellular Biology. She has written or co-written more than 250 papers.

Mary Sue Coleman is President Emerita of the University of Michigan, having served as President from 2002 to 2014. She was a Professor of Chemistry in the University of Michigan Medical School and College of Literature, Science and the Arts. From 1995 to 2002, Dr. Coleman served as President of the University of Iowa. Additionally, Dr. Coleman served as Provost and Vice President for Academic Affairs at the University of New Mexico, Vice Chancellor for Graduate Studies & Research and Associate Provost and Dean of Research at the University of North Carolina at Chapel Hill, and a member of the biochemistry faculty and an administrator at the Cancer Center of the University of Kentucky. Elected to the National Academy of Sciences’ Institute of Medicine in 1997, Dr. Coleman is a Fellow of the American Academy of Arts and Sciences and the American Association for the Advancement of Science.
Peter Constable is the Dean of the College of Veterinary Medicine at the University of Illinois. Dr. Constable oversees a veterinary college recognized for its innovative approach to veterinary education, which gives students greatly expanded clinical experience. He has worked as an agricultural animal veterinarian in Australia and as a mixed animal practitioner in England. He is the editor, a co-editor, or a co-author of three books, and has co-written more than 180 articles in peer-reviewed publications and 30 book chapters. He serves on the editorial board of three journals. He earned his veterinary degree in from the University of Melbourne, Australia.

Larry DeBrock is the Dean of the College of Business and Professor of Business Administration and Economics at the University of Illinois. He teaches courses in introductory and microeconomics and industrial competition and monopoly. His research interest in applied microeconomics focuses on topics in industrial organization, regulatory issues, and health economics. He earned his PhD from Cornell University. He has long been associated with the Illinois MBA and has won many awards in graduate and professional teaching.

Fritz Drasgow is Dean and Professor in the School of Labor & Employment Relations and Department of Psychology at the University of Illinois. His research focuses on psychometric theory for personality assessment. He developed the “tailored adaptive personality assessment system” (TAPAS), which is based on an ideal point model of the response process. He is a member of the editorial review board of eight journals, including Applied Psychological Measurement, Journal of Applied Psychology, and the International Journal of Selection and Assessment.

Larry Faulkner is President Emeritus of the University of Texas at Austin, having served as President from 1998 to 2006. He is the retired President of the Houston Endowment, a private philanthropy. Over four decades, Dr. Faulkner served on the chemistry faculties of Harvard University, the University of Illinois, and the University of Texas. At Illinois, he was department head, dean, and provost. He is a member of the American Academy of Arts and Sciences and chaired the National Mathematics Advisory Panel. He now serves on the boards of Exxon Mobil, Southern Methodist University, Discovery Green Conservancy, Houston Grand Opera, Reasoning Mind, the Philosophical Society of Texas, and Al Akhawayn University in France.

Edward Feser is Dean of the College of Fine and Applied Arts at the University of Illinois. His research includes technology-based regional economic development; design, institutional innovation and implementation in public sector organizations; regional analysis methods; and policies supporting business formation and growth in cities and regions. Dr. Feser has served as Davies Chair of Entrepreneurship and Head of the Division of Innovation, Management and Policy at the Manchester Business School. He also headed the Department of Urban and Regional Planning at the University of Illinois. He is a Senior Research Fellow with the Center for Regional Economic Competitiveness, and is a frequent consultant to local, regional, and state governments in the U.S. and abroad on issues of economic development strategy, policy and planning. Dr. Feser holds a PhD in Regional Planning from the University of North Carolina.
Mark Frankel directs the Scientific Responsibility, Human Rights and Law Program at the American Association for the Advancement of Science and is responsible for developing and managing AAAS activities related to science, human rights, ethics, and law. He is editor of Professional Ethics Report, the Program’s quarterly newsletter, and is a Fellow of AAAS. Dr. Frankel has directed projects on human subjects research on the Internet; promoting research integrity, including a joint endeavor with the China Association for Science & Technology; the ethical and legal implications of advances in genetics and neuroscience; personalized medicine; and advocacy in science. He earned his Ph.D. in political science from the George Washington University.

Angela Goh is Associate Provost (Faculty Affairs) at Nanyang Technological University. During her two decades at NTU, she has headed the Division of Software Systems and has been the Associate Chair (Academic) and Acting Chair in the School of Engineering. Professor Goh’s research interests include the Semantic Web with focus on web service discovery and composition and software agent technology. She has collaborated with researchers in the Singapore Institute of Manufacturing Technology (SIMTech) in various A*Star funded projects. She has a PhD from the University of Manchester Institute of Science and Technology and has published more than 150 journal and conference papers.

C.K. Gunsalus is the Director of the National Center for Professional and Research Ethics, Professor Emerita of Business, and Research Professor at the Coordinated Science Laboratory at the University of Illinois at Urbana-Champaign. She has taught Leadership and Ethics in the MBA program and has served as Associate Provost responsible for a range of academic policy and administrative duties. Her experience includes technology transfer, management of conflicts of interest, human subject protection, and long-term service as the campus Research Standards Officer. She is a fellow of the AAAS, has an ethics book for young professionals from Harvard University Press and is a member of the Committee on Responsible Science of the National Academy of Sciences.

Robert Hauser is Dean of the College of Agricultural, Consumer and Environmental Sciences at the University of Illinois. Dr. Hauser received his PhD in agricultural economics from Iowa State University. His research and teaching focus is on grain transportation, the use and pricing of options and futures, and the effects of economic and policy changes on Illinois and U.S. agriculture. He was appointed the Clearing Corporation Foundation Professor in the Department of Agricultural and Consumer Economics and served as Head of that department. He has developed and led exceptional Extension programs, has taught several undergraduate and graduate courses, and has received numerous research and extension awards.

Mark Henderson is Chief Information Officer of the University of Illinois. He leads an office responsible for creating the vision and strategy that enable delivery of technology solutions that support education, research and the day-to-day functions of the university. He has more than 30 years’ experience in higher education and the private sector.
Leading the Research University of the Future
November 20-21, 2014 Participants

David Irwin is the Head of the Department of Psychology at the University of Illinois. He received his PhD from the University of Michigan. He is a professor in the Department of Psychology and an affiliate faculty member in the Beckman Institute Human Perception and Performance Group. His fields of professional interest include visual cognition, attention, visual perception, visual memory, eye movements, spatial cognition, and psycholinguistics.

Mary Kalantzis is Dean of the College of Education at the University of Illinois. Her academic research crosses a number of disciplines, including history, linguistics, education and sociology; and examines the varied themes of immigration, education, ethnicity, gender, culture, leadership and workplace change, professional learning and training, pedagogy and literacy learning. Dr. Kalantzis has a PhD from the School of History, Philosophy & Politics at Macquarie University in Sidney, Australia. Her research activities in Australia have involved 116 research and development projects.

Pradeep Khanna is the Associate Chancellor for Corporate and International Relations at the University of Illinois. He works closely with offices of the vice chancellors as well as academic and other units to accomplish the campus goals of the offices that he oversees. He provides leadership for campus strategic planning to enhance international engagement. Dr. Khanna began his career as an Assistant Professor with H.P. University, Shimla, India. He was also a member of Diplomatic Corps of India.

Wynne Korr is Dean of the School of Social Work at the University of Illinois. Her current research is on mental health services and on social innovation. She is the Vice President of The Society for Social Work and Research (SSWR). She is a site visitor for Commission on Accreditation of the Council on Social Work Education (CSWE). She is past President of the St. Louis Group – the association of social work schools in major research universities. She received her PhD in psychology from SUNY at Buffalo. She has taught courses in program evaluation, mental health policy, and social entrepreneurship and has published on evaluation of mental health services, and legal issues in mental health.

Laurie Kramer is Associate Dean of Agricultural, Consumer and Environmental Sciences at the University of Illinois. She is also a professor of Applied Family Studies in the Department of Human and Community Development. She earned her Ph.D. in Clinical Psychology from the University of Illinois and performed her residency at Northwestern University Medical School. She was the founding Director of the Family Resiliency Center and The Pampered Chef Family Resiliency Program, initiatives which are aimed at enhancing the well-being of children, youth, and families through multidisciplinary research, education and outreach.

Ravi Kumar is the Shaw Chair Professor and Dean of Nanyang Business School at NTU in Singapore. He has been a professor in the Department of Information and Operations Management at the Marshall School of Business at the University of Southern California. He has also served as Distinguished Professor and Dean of the College of Business at Korea Advanced Institute of Science and Technology (KAIST). He has a PhD in Industrial Engineering and Management Sciences from Northwestern University. His research interests include management issues in continuous quality improvement, flexible and cellular manufacturing systems, and developing sustainable information technology industries in developing countries.
Melanie Loots is the Associate Vice Chancellor for Research at the University of Illinois. She has responsibility for policy development, strategic and tactical planning, implementation of the University Policy on Conflicts of Interest, and liaison to several cross-disciplinary campus units. She has served on federal panels and committees, including NSF’s Advisory Committee for the Office of International Science and Engineering. She has directed the Applications Division of the National Center for Supercomputing Applications. She has also worked in drug discovery and information services at E. R. Squibb and Sons. She received her PhD in Organometallic Chemistry from Princeton and conducted postdoctoral research at the University of Chicago.

Michael Loui is Professor of Electrical and Computer Engineering at Purdue University. His interests include computational complexity theory, professional ethics, and engineering education research. He serves as Editor of *Journal of Engineering Education* and as a member of the editorial boards of *College Teaching* and *Accountability in Research*. He is a co-principal investigator of the National Center for Professional and Research Ethics, a member of the Advisory Group for the Online Ethics Center at the National Academy of Engineering, and a member of the Executive Board of the National Institute for Engineering Ethics. He is a Carnegie Scholar and an IEEE Fellow.

Michele Mariscalco is the Regional Dean of the College of Medicine at the University of Illinois. She is an accomplished clinician-scientist with extensive leadership experience in a regional campus setting to integrate research and scholarship with quality patient care and education. Her academic career has focused on preparing trainees and faculty for careers in academic medicine with a focus on research development. Dr. Mariscalco received her MD at the University of Cincinnati. Her research focus has been on the developmental biology of inflammation. She has published more than 70 peer-reviewed articles and book chapters and has served on the editorial board of Pediatric Critical Care Medicine.

Brian Martinson is Senior Research Investigator and Director of Science Programs at HealthPartners Institute for Education and Research, Minneapolis. Brian holds a PhD in sociology and demography from the University of Wisconsin at Madison. Over the past 10 years, he has led several federally funded research projects studying research integrity, largely as it relates to aspects of organizational climates in academic research settings. The most recent of these projects, completed in 2012, was focused on the development and validation of the Survey of Organizational Research Climates (SOuRCE), an instrument for universities to use in assessing their research integrity climates. He serves as a member of the U.S. National Research Council panel charged with undertaking a revision of the 1992 publication, Responsible Science: Ensuring the Integrity of the Research Process.

Klara Nahrstedt is the Acting Director of Coordinated Science Laboratory and professor in the Computer Science Department at the University of Illinois. She is the co-author of the textbooks “Multimedia Computing, Communications and Applications”, and, “Multimedia Systems”; and the author of the online book “QoS in Wireless Networks over Unlicensed Spectrum”. She was the editor-in-chief of the ACM/Springer Multimedia Systems Journal, and currently the associate editor of IEEE Transactions on Multimedia (2012-now), associate editor of IEEE Transactions on Information Forensics & Security. She was a research scientist in the Institute for Informatik in Berlin until 1990. She received her PhD from the University of Pennsylvania in the Department of Computer and Information Science. She is the ACM Fellow, IEEE Fellow, and the Member of Leopoldina German National Academy of Sciences.
Louis Phee is the Chair of the School of Mechanical & Aerospace Engineering at NTU. His PhD is from Scuola Superiore Sant’Anna, Pisa, Italy; and his research interests include medical robotics and mechatronics in medicine. He has served as the program manager of A*STAR’s inaugural MedTech program. Currently, he is the CEO of EndoMaster Pte Ltd, a company he co-founded to commercialize a surgical robotic system he developed. He has published over 50 international journals, book chapters and a few licensed intellectual properties.

Peter Preiser is the Acting Chair in the School of Biological Sciences at Nanyang Technological University. Professor Preiser has a PhD in Biology from the University of Delaware and had a postdoctoral appointment at the Worcester Foundation for Experimental Biology. He was also a research scientist at the London National Institute for Medical Research. His research interests are in parasitic diseases, such as malaria; he has published seminal papers on the ability of malarial parasite to simultaneously invade a host cell and escape host immunity successfully. He is also an active member of the infectious disease inter-disciplinary research group with the Singapore-MIT Alliance for Research and Technology (SMART).

Allen Rinear is the Dean of the Graduate School of Library and Information Science at the University of Illinois. When his dean duties allow, he teaches courses and lead research in information modeling, data curation, digital humanities, scientific publishing, and the conceptual foundations of information organization. He received his PhD from Brown University. Recently his work has focused on fundamental issues in the curation of scientific datasets and conceptual models for data management and preservation.

Gene Robinson is the Director of the Institute for Genomic Biology at the University of Illinois. He pioneered the application of genomics to the study of social behavior, led the effort to gain approval from the National Institutes of Health for sequencing the honey bee genome, and heads the Honey Bee Genome Sequencing Consortium. He is the author or co-author of over 250 publications, including 26 published in Science or Nature; has been the recipient or co-recipient of over $42M in funding from the National Science Foundation, National Institutes of Health, US Department of Agriculture and private foundations; he serves on the National Institute of Mental Health Advisory Council.

Rob Rutenbar is the Head of the Computer Science Department at the University of Illinois. He received the PhD from the University of Michigan and spent 25 years in Electrical and Computer Engineering at Carnegie Mellon University. His research has focused in three broad areas: tools and algorithms for a wide variety of integrated circuit design problems; methods to manage the messy statistics of nanoscale chip designs; and custom silicon architectures for perceptual and data analytics problems, notably in applications like speech recognition and machine learning. In 2006 he founded the Silicon Vox Corporation, now called Voci Technologies Inc., to commercialize high-speed speech recognition hardware; he is currently Chief Scientist at Voci.

Charles T. Salmon is the Chair of the Wee Kim Wee School of Communication and Information at NTU. Prior to joining the faculty of NTU, he served as Dean of the College of Communication Arts and Sciences at Michigan State University. His research converges at the intersection of public communication, public health, and public opinion. He recently received the Outstanding Scholar Award in Health Communication, given by the National Communication Association. His latest book (with Wolfgang Donsbach) is: The Spiral of Silence: New Perspectives on Communication and Public Opinion.
William Sanders is the Head of the Department of Electrical and Computer Engineering at the University of Illinois. He is a Fellow of the IEEE and the ACM, a past Chair of the IEEE Technical Committee on Fault-Tolerant Computing. He was the founding Director of the Information Trust Institute (www.iti.illinois.edu) at Illinois and served as Director of the Coordinated Science Laboratory. His research interests include secure and dependable computing and security and dependability metrics and evaluation, with a focus on critical infrastructures. He has published more than 200 technical papers in those areas. He is co-developer of three tools for assessing computer-based systems, and more than 500 licenses for the tools have been issued to universities, companies, and NASA for evaluating the performance, dependability, and security of a variety of systems.

Susan Schantz is Interim Director of the Department of Neuroscience at the University of Illinois. She is a professor in the Department of Comparative Biosciences, and is well-known for her research in the area of environmental toxicology. Her research focuses on the effects of environmental toxicants on human cognitive development and behavior – mainly focusing on how prenatal exposure to chemical affects brain development and cognition. She received her PhD in environmental toxicology from the University of Wisconsin, Madison.

Peter Schiffer is the Vice Chancellor for Research and Professor of Physics at the University of Illinois. He is a condensed matter experimentalist, with a PhD in physics from Stanford University. Prior to coming to Illinois, he was the associate vice president for research and director of strategic initiatives at Penn State. Current research topics under study by his group include geometrically frustrated magnets, exotic oxides, and frustrated lattices of interacting ferromagnetic nanostructures. He is a Fellow of the American Physical Society.

Jan Slater is the Dean of the College of Media at the University of Illinois. Prior to her appointment at Illinois, Dr. Slater was an associate professor and the associate director of the E. W. Scripps School of Journalism at Ohio University. She had a long career as an advertising practitioner, working in private industry, as well as advertising agencies. She serves as president of the Association for Educators in Journalism and Mass Communication. She received her PhD from the Newhouse School of Public Communications, Syracuse University. Her research focus is on brand strategy, media strategy and building brand relationships. She continues to consult for national and international companies and was recently invited to China to discuss automobile branding in China.

Victoria Stodden is an associate professor in the Graduate School of Library and Information Science at the University of Illinois. She is a leading figure in the area of reproducibility in computational science. She co-chairs the NSF Advisory Committee for CyberInfrastructure and is a member of the NSF Directorate for Computer and Information Science and Engineering Advisory Committee. She also serves on the National Academies Committee on Responsible Science: Ensuring the Integrity of the Research Process. She co-edited two books released this year, Privacy, Big Data, and the Public Good: Frameworks for Engagement and Implementing Reproducible Research. She earned both her PhD in statistics and her law degree from Stanford University.
K.C. Ting is Head of the Department of Agricultural and Biological Engineering at the University of Illinois. He teaches and conducts research on automation, systems analysis, alternative energy, thermal control, and computerized simulation, optimization and decision support for bio-production and bio-processing systems. He is holds a patent on a robotic end-effector for transplanting of seedlings. He is a recipient of many awards and honors, including Fellows of ASABE and ASME and the ASABE 2008 Kishida International Award and 2011 James R. and Karen A. Gilley Academic Leadership Award.

Charles Tucker is the Vice Provost for Undergraduate Education and Innovation at the University of Illinois. He is also the Rankin Professor of Mechanical Science and Engineering. His research interests include processing of polymers and composite materials, modeling and simulation, numerical methods, fluid mechanics, and rheology. He earned his PhD degree in mechanical engineering from the MIT. He is a Fellow of the American Society of Mechanical Engineers (ASME), and a member of the Society of Plastics Engineers, the Society of Rheology and the Polymer Processing Society. He serves on the editorial board of *International Polymer Processing*.

Subbu Venkatraman is the Chair of the School of Materials Science and Engineering at NTU. He has a PhD in Polymer Chemistry from Carnegie-Mellon University. Prior to joining NTU, he spent 15 years in biomedical R&D in the United States. He has published extensively in the field of biomaterials, and holds 12 issued US patents and 20 filings in biomaterials. Besides designing and modifying polymers for biomedical applications in association with local hospitals and researchers, he is interested in nanomedicine, drug/gene delivery, biodegradable polymers, and injectable implants and nanoparticles.

Craig Williams is interim head of Germanic Languages and Literature and Professor of Classics at Illinois. His publications include *Roman Homosexuality*, a commentary on Book 2 of Martial’s epigrams, *A Martial Reader, Reading Roman Friendship*, and articles and reviews on Latin literature and Roman culture. His current projects include a study of animal-human relations in Greek, and Latin literature and exploration of the role of Greek and Latin in the European colonization of the American Northeast. He has several times been a Fellow of the Alexander von Humboldt Foundation at the Humboldt-Universität and the Freie Universität in Berlin.

Barbara Wilson is the Dean of the College of Liberal Arts and Sciences at the University of Illinois. Formerly she was the Executive Vice Provost for Faculty and Academic Affairs with responsibilities to provide leadership in the areas of academic affairs and faculty affairs. She is also the Kathryn Lee Baynes Dallenbach Professor in the Department of Communication. Her research focuses on the social and psychological effects of the media, particularly on youth. She is co-author of *Children, Adolescents, and the Media* and three book volumes of the *National Television Violence Study*. She also co-edited the *Handbook of Children, Media, and Development*. She is a Fellow of the International Communication Association.

Phyllis Wise is the Chancellor of the University of Illinois at Urbana-Champaign. She was interim President of the University of Washington, as well as as Provost. Previous academic roles included dean of the College of Biological Sciences at the University of California-Davis, professor and chair of the Department of Physiology at the University of Kentucky,. Her research interests have been in areas concerning women’s health and gender-based biology. She holds a doctorate degree in zoology from the University of Michigan. Dr. Wise also holds an honorary doctorate from Swarthmore College.