TEXAS ENGINEERS CHANGE THE WORLD

KAREN
WILLCOX

Engineering

Professor of Aerospace Engineering and Engineering Mechanics Karen E. Willcox is the director of the Oden Institute for Computational Engineering and Sciences. A researcher in computational methods for engineered systems, she is a recipient of a SIAM SIGEST paper award, three AIAA best paper awards, and has served in leadership positions within AIAA and SIAM.

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MARY F.
WHEELER

Ernest and Virginia Cockrell Chair in Engineering Mary F. Wheeler has been with UT Austin since 1995 and is the director of the Center for Subspace Modeling at the Oden Institute for Computational Engineering and Sciences. A researcher in the behavior of fluids in geological formations through computer simulations and modeling, she helped start the SIAM Activity Group in the Geosciences and the Journal on Computational Geosciences.

Engineering

TEXAS ENGINEERS CHANGE THE WORLD

JOAN
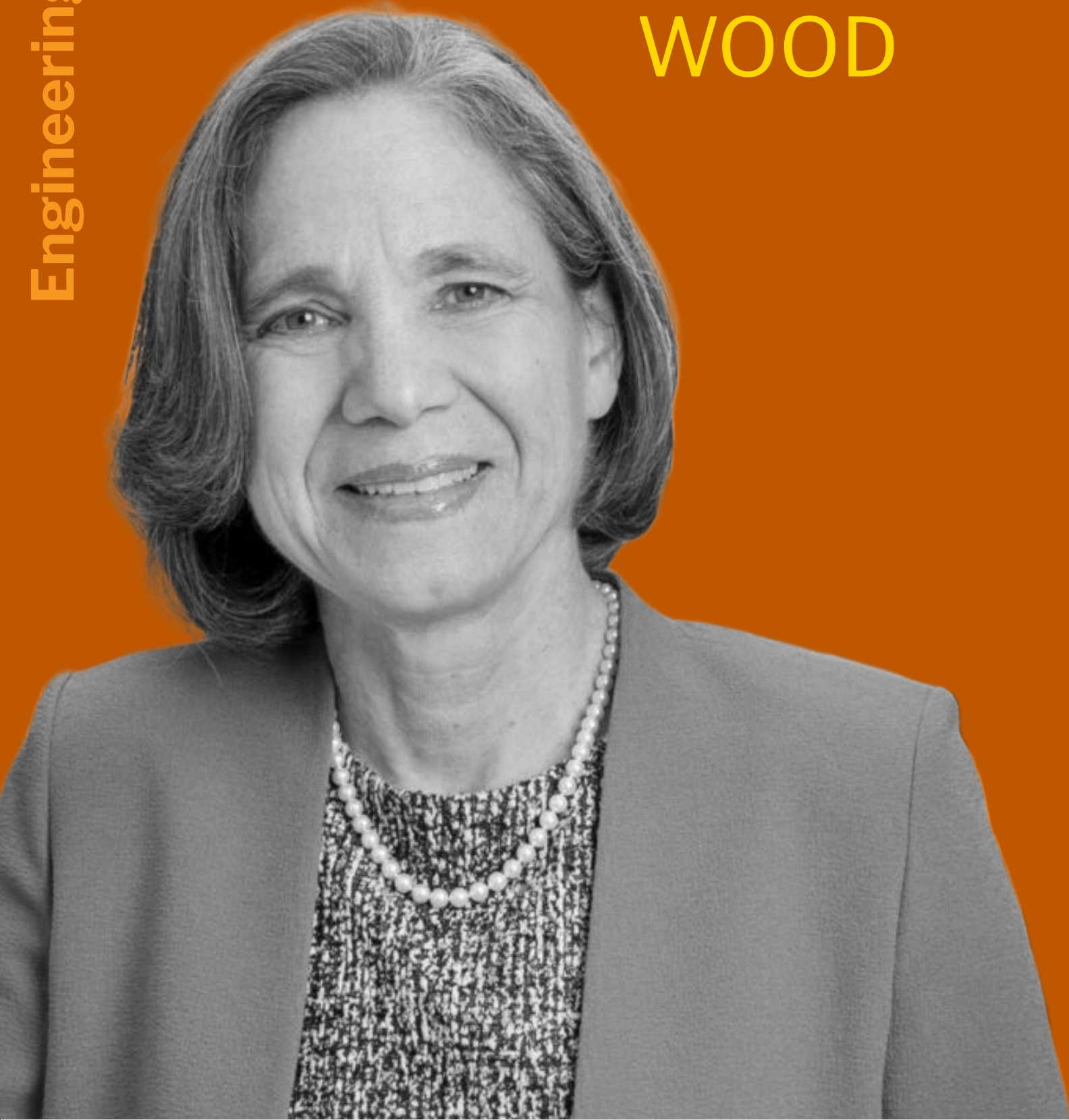### BRENNECKE

The Cockrell Family Chair in Engineering in the Mcketta Department of Chemical Engineering, Joan Brennecke is widely recognized for her research on ionic liquids and carbon dioxide for environmentally friendly chemical processes. She has been the Kavli Lecturer at the 2014 ACS National Meeting in San Francisco and has won the 2014 E.V. Murphree Award from American Chemical Society.

Engineering

SHARON WOOD

Engineering

The University of Texas at Austin Executive Vice President and Provost, Sharon L. Wood leads strategic planning for the university's academic mission. The recipient of the 2018 Outstanding Projects and Leaders Award from the American Society of Civil Engineers, Wood's research on concrete structure responses to earthquakes gained international recognition.

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NANSHU

LU

The Cullen Trust for Higher Education Endowed Professor in the Cockrell School of Engineering, Nanshu Lu researches bio-integrated and bio-metric soft electronics. A recent inductee into the American Institute for Medical and Biological Engineering College of Fellows, Lu has been on the Clarivate's 2022 Highly Cited Researchers List and elected as a member of the ASME and to the directory board of Society of Engineering Science.

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PAOLA
PASSALACQUA

The Leland Barclay Fellow in Engineering in the Maseeh Department of Civil, Architectural and Environmental Engineering, Paola Passalacqua researches the evolution and analysis of topographic patterns. An Professor of Water Resources Engineering, Passalacqua has won the 2022 Ralph Alger Bagnold Medal of the European Geosciences Union, 2017 University of Texas Regents' Outstanding Teaching Award, and 2014 NSF CAREER Award.

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DONGLEI
"EMMA" FAN

The Robert & Jane Mitchell Endowed Faculty Fellow in Engineering, Donglei "Emma" Fan is widely recognized for her research on micro and nanoscale structures and precision tools in for biomedical applications. A recent inductee into the American Institute for Medical and Biological Engineering College of Fellows, Fan has won the 2022 NSF Mid-Career Advancement Award and the 2012 NSF CAREER Award.

Engineering

Physics

KATHERINE
FREESE

Katherine Freese, the Jeff and Gail Kodosky Endowed Chair in Physics, won the 2019 Lilienfeld Prize from the American Physical Society for her research on dark matter and the origins of the universe. Her work in the field of cosmology and book *The Cosmic Cocktail: Three Parts Dark Matter* have greatly contributed to our understanding of physics.

TEXAS SCIENTISTS CHANGE THE WORLD

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JEN
MOON

Biology

A Professor of Instruction in the Biology Instructional Office and Department of Molecular Biosciences, Jennifer Moon specializes in teaching genetics and developmental biology as well as training undergraduate teaching assistants. The Chair of Faculty Council at UT, Moon has won the 2017 President's Associates Teaching Excellence Award, 2015 Regents' Outstanding Teaching Award, and 2022 Turnitin Americas Higher Ed Award.

JANICE A.
FISCHER

The Director of the Biology Instructional Office, Janice A. Fischer teaches genetics to undergraduate students and researches cell communication in developmental biology. During her time at UT, Fischer has won the 2021 Regents Outstanding Teaching Award, 2021 Natural Science Council Faculty Service Award for Teaching Excellence, and 2019 President's Associates Teaching Excellence Award.

TEXAS SCIENTISTS CHANGE THE WORLD

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ALISON
NORMAM

Alison Normam, an Associate Professor of Instruction in the Department of Computer Science, specializes in teaching principles of computer systems to undergraduates. As the Associate Chair of Undergraduate Education, Norman has won the 2019 Regents Outstanding Teaching Award and the 2017 President's Associates Teaching Excellence Award.

Computer Science

KRISTEN
GRAUMAN

A member of the Academy of Distinguished teachers, Kristen Grauman leads the UT-Austin Computer Vision Group as a Professor in the Department of Computer Science. As a Research Director in Facebook AI Research, Grauman has won the NSF CAREER and ONR Young Investigator awards and continues to research computer vision and machine learning at UT.

TEXAS SCIENTISTS CHANGE THE WORLD

NANCY
MORAN

The Warren J. and Viola Mae Raymer Chair in the Department of Integrative Biology, Nancy Moran researches genome evolution and the ecological consequences of symbiotic relationships. As an evolutionary biologist, Nancy Moran has won the James Tiedje Award for the International Society for Microbial Ecology and the 2010 International Prize for Biology from the Japan Society for the Promotion of Science.

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CAMILLE
PARMESAN

An Adjunct Professor in Earth and Planetary Sciences and the Plan II Honors Program, Camille Parmesan researches the impacts of global warming on wildlife. Her work has gained the attention of the United States White House and France's Elysee Palace. She has been a member of the Intergovernmental Panel on Climate Change spanning 25 years.

Photo by Lloyd Russell

TEXAS
SCIENTISTS
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SARAH POWELL

Sarah Powell, an Associate Professor in the Department of Special Education at the University of Texas at Austin, researches and teaches mathematics for students who have different learning experiences. In addition to being the Principal Investigator of an Institute of Education Sciences grant for Grade 4 education, Powell has won the Dean's Distinguished Research Award and Presidential Early Career Award for Scientists and Engineers.

TEXAS EDUCATORS CHANGE THE WORLD

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ANGELA
VALENZUELA

Education

The Director of the University of Texas Center for Education Policy and a professor in educational policy and planning program, Angela Valenzuela has contributed greatly to the fields of education and sociology. As the author of several books, including *Growing Critically Conscious Teachers: A Social Justice Curriculum for Educators of Latino/a Youth*, Valenzuela has directed local service organizations and won the Henry T. Trueba Award for Research Leading to the Transformation of the Social Contexts of Education.

ELIZABETH
McCRACKEN

A Professor of English in the College of Liberal Arts and award-winning author, Elizabeth McCracken instructs graduate students in advanced fiction and literature. The author of works such as *Thunderstruck* and *The Giant's House*, McCracken has won the 2023-24 President's Associates Graduate Teaching Excellence Award and the The Story Prize in 2014.

TEXAS
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NAMKEE G.
CHOI

Namkee G. Choi, a UT Austin professor and the Louis and Ann Wolens Centennial Chair in Gerontology in the Steve Hicks School of Social Work, has investigated how to increase the availability of treatments for depression in older low-income adults. Her research on mental health services has led her to win several awards, including the Presidential Early Career Award for Scientists and Engineers and The University of Texas at Austin Steve Hicks School of Social Work Diana DiNitto Faculty Peer mentor Award.

Social Work

TEXAS SCIENTISTS CHANGE THE WORLD

LAUREN ANCEL MEYERS

The Cooley Centennial Professor in the Department of Population Health, Lauren Ancel Meyers is widely recognized for her research on machine learning for the detection of emerging viral threats. The Founding chair of the Department of Statistics and Data Sciences, Meyers has won the 2017 Joseph Lieberman Award for Significant Contributions to Science and been part of the 2004 top 100 global innovators under age 35 by the MIT Technology Review.

Medicine

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DAWNA
BALLARD

An Associate Professor of Organizational Communication and Technology, Dawna Ballard researches human communication with respect to time and instructs undergraduate students in chronemics and team and group communication. The author of an ongoing book, *Time by Design*, Ballard has won the 2022-23 William David Blunk Memorial Professorship and 2023-24 President's Associates Graduate Teaching Excellence Award.

Communication

TEXAS EDUCATORS CHANGE THE WORLD

Iliana
Sosa

An Assistant Professor and award-winning filmmaker in the Department of Radio-Television-Film, Iliana Sosa instructs students in filmmaking, production, and directing in the Moody College of Communication. The maker of films such as "What We Leave Behind" and "La Frontera", Sosa has been placed on prestigious lists such as DOC NYC's "40 Under 40" and Filmmaker Magazine's "25 New Faces of Independent Film".