

Biosketch

DR. ESTHER S. TAKEUCHI

Dr. Esther S. Takeuchi is a SUNY Distinguished Professor and the William and Jane Knapp Chair in Energy and the Environment at Stony Brook University. She holds a joint appointment at Brookhaven National Laboratory as Chief Scientist and Chair of the Interdisciplinary Science Department. She is Director of an Energy Frontier Research Center funded by the Department of Energy. Prior to her academic appointments, she was employed at Greatbatch, Inc., where her achievements in lithium battery research, particularly for implantable applications, led to several technological innovations. Her work was instrumental in the successful development of the lithium/silver vanadium oxide (Li/SVO) battery, the power source of life-saving implantable cardiac defibrillators (ICDs). Dr. Takeuchi is a prolific inventor with > 150 patents.

Dr. Takeuchi's accomplishments have been widely recognized. She is a member of National Academy of Engineering, was awarded the National Medal of Technology and Innovation by President Obama, inducted into the National Inventors Hall of Fame, a member of the American Academy of Arts and Sciences, and is a Charter Member of the National Academy of Innovation. She received the E. V Murphree and Astellas Awards from the American Chemical Society and the Electrochemical Society (ECS) Battery Division Technology award. She is a Fellow of the ECS, the American Institute of Medical and Biological Engineering, and the American Association for the Advancement of Science. She received the 2018 European Inventor Award for non-EPO countries. In 2019, she received the Walston Chubb Innovation Award from Sigma Xi and an honorary Doctorate in Engineering from Notre Dame University and the Edward G. Acheson award from the Electrochemical Society in 2020. She is past president of the Electrochemical Society.

Dr. Takeuchi received a BA from the University of Pennsylvania with a double major in chemistry and history and a Ph.D. in chemistry from the Ohio State University.