

Carl Zeiss Abstract

Carl Zeiss's mission is to advance mankind's knowledge and that of all our customers, partners, and employees. In this talk the Zeiss RMS Materials Research and Electronics team will present characterization techniques centered around charged particle technology on how to optimize data acquisition to enable accurate materials modelling and the Zeiss RMS Life Science team will present detailed characterization techniques on how to optimize data acquisition to enable accurate materials modelling. Specific research examples will be presented with the relevant characterization techniques linking materials performance to microstructure. At the end of this presentation the audience will understand how ZEISS Research Microscopy Solutions enable leading researchers to find answers to our society's pressing challenges.

Carl Zeiss Presenters

Philipp Bastians, PhD.

Sales Manager Life Sciences Electron and X-ray Microscopy, North America

Philipp is the Life Science Sales Manager for Zeiss Research Microscopy in North America. He started his career with Zeiss more than four years ago as a Product and Applications Sales Specialist in the Asia Pacific Region. He graduated from Max-Planck-Institute for Brain Research, Frankfurt am Main, Germany with a PhD on "Comparative Cortical Connectomics". His work includes many years of 3D SEM, cryo EM and MultiSEM imaging technology in the labs of Prof. Winfried Denk and Prof. Moritz Helmstaedter. Philipp holds an MBA from the Quantic School of Business and Technology.

Cheryl Hartfield

Product Marketing Manager, Crossbeam, North America Materials Research & Electronics

Cheryl is the product marketing manager for Crossbeam in materials research and electronics (MRE) industries in North America. She received her MA and BS in Microbiology from UT Southwestern Medical Center, and Texas A&M, respectively. She has >25 years of electron microscopy experience across life science, materials science, and semiconductors. She was elected Senior Member Technical Staff at Texas Instruments, is a Fellow of ASM, and co-founded Omniprobe to revolutionize the world of TEM sample preparation. She has 15 patents and authored >70 papers including 3 best presentation awards. She received the 2020 EDFAS President's Award for exceptional service to the electronic device failure analysis society.

Anthony Lisi

Product and Applications Sales Specialist (MRE)

Anthony is a Product and Applications Sales Specialist for Zeiss Materials Research and Electronics. He started his career at IBM and has over seventeen years of experience with the materials and process technologies required for the fabrication and characterization of semiconductor devices. Anthony received his undergraduate degree from the University of Rochester in Chemical Engineering and his Masters in Microelectronics Engineering from The Rochester Institute of Technology. He has coauthored multiple patents in methods and processes for semiconductor technologies.

Jeffrey Streger

Sales Engineer, Materials Research & Electronics (MRE), Central Atlantic Region

Jeff is the Central Atlantic Sales Engineer for EM, XRM and Crossbeam technologies for Carl Zeiss Materials Research and Electronics (MRE) and founder of Rave Scientific. He started his career with Zeiss more than 30 years ago after serving as an Electronic Warfare technician/engineer in the United States Navy and has held various positions within the Zeiss organization including, Field Service Engineer, Director of Sales, Service and Applications. Jeff received his Bachelor of Science (BS) degree in Marketing and Management from Penn State University and resides with his family in the great state of New Jersey.