

Tim Anderson
Distinguished professor, University of Florida



Tim Anderson received his education in chemical engineering from Iowa State University (B.S.) and the University of California, Berkeley (M.S., Ph.D.). He joined the Chemical Engineering Department at the University of Florida in 1978, served as chairman from 1991 until 2003, and was Associate Dean of Research and Graduate Programs in the College of Engineering until 2009. Tim currently holds the rank of Distinguished Professor. He is also Director of the Florida Energy Systems Consortium (FESC), consisting of the 11 State of Florida universities and dedicated to research, education, and outreach in Florida-centered energy systems. His research includes the deposition of advanced electronic and photonic materials. In particular, his group has an active program in the growth of $\text{CuIn}_x\text{Ga}_{1-x}\text{Se}_2$ absorbers for photovoltaics, group III nitrides for solid state lighting applications, and barrier materials for Cu metallization.

Tim has been recognized for his research accomplishments through several awards, including the AIChE Charles M. A. Stine Award, the California Institute of Technology's W.N. Lacey Lectureship, the Professional Achievement Citation in Engineering Award from Iowa State University, the Michigan/Michigan State Joint Lectureship, and the DOE Research Partnership Award. Tim also spent a sabbatical year at the University of Grenoble as a Fullbright Senior Research Scholar. His group is credited with over 230 publications in his discipline research and he has supervised over 60 Ph.D. graduates. Prof. Anderson is editor-in-chief of the *IEEE J. of Photovoltaics*, member of the editorial advisory board of *J. Energy Systems*, and is a Fellow of the American Institute of Chemical Engineers (AIChE).

Professor Anderson has long been active in engineering education. He is editor of the *Chemical Engineering Education* journal. In addition, he served as director of the NSF SUCCEED Engineering Education Coalition until its completion in 2003. This coalition of 8 colleges of engineering in the southeastern U.S. was an incubator of educational innovations whose mission was to effect systemic change in undergraduate engineering education. He is recipient of the Warren K. Lewis Award for Chemical Engineering Education (AIChE), ConocoPhillips Lectureship, Benjamin J. Dasher Award, and Union Carbide Lectureship Award. He has offered a workshop on career development for new faculty to more than 1500 people over the past 10 years. Tim has over 80 publications and presentations in engineering education research to his credit, and is a Fellow of the American Society for Engineering Education.

Angus Rockett
Professor, University of Illinois at Urbana Champaign



ANGUS ROCKETT is a Professor in the Department of Materials Science and Engineering at the University of Illinois. He is Past President and a Fellow of the American Vacuum Society and 2012 Program Chair of the IEEE Photovoltaic Specialists Conference. He was a rotating Research Program Administrator at the Office of Basic Energy Sciences at the U.S. Department of Energy in 2000. He holds a Sc.B. in Physics from Brown University (1980) and a Ph.D. in Materials Science from the University of Illinois (1986). He has won numerous awards for teaching and advising from the College of Engineering at the University of Illinois. His teaching has ranged from introductions to materials engineering for business and engineering students to senior and graduate courses on electronic materials (including a recent book *The Materials Science of Semiconductors*). His research has concerned ion-assisted growth of semiconductors and fundamental science of growth of materials by molecular beam epitaxy. This was extended to theoretical treatments of the same subject by lattice Monte Carlo and density functional theory methods. At the same time he worked on sputtered hard coatings deposited by reactive magnetron sputtering. He has studied the basic science of solar cell materials and the operation of solar cell devices for 20 years using virtually all of the common materials microchemical and microstructural analysis techniques from SIMS and TEM to STM and photoluminescence. He has also worked on self-assembled nanostructures, MEMS devices, silicide reactions for VLSI contacts, Si-Ge oxidation kinetics for gate dielectrics, superconducting cavity resonators as temperature probes, and optical spectroscopic analysis of combustion. He is an AVS Short Course Instructor for the Photovoltaics and Sputter Deposition of Thin Films short courses. He has also given short courses in fundamentals of thin film solar cells at the IEEE Photovoltaic Specialists Conference, on characterization of photovoltaic materials at the Materials Research Society, and has given short courses on sputter deposition, thin films and photovoltaics in China, Mexico, Sweden, Israel, Brazil, and elsewhere. He has published over 130 papers and has given many invited and plenary talks on subjects related to his research.