



Virginia H. Dale is Director of ORNL's Center for BioEnergy Sustainability at Oak Ridge National Laboratory. She obtained her Ph.D. in mathematical ecology from the University of Washington. She has authored 10 books and more than 220 published articles and has served on national scientific advisory boards for five federal agencies.



Since 1990, Keith has been affiliated with the Oak Ridge National Laboratory where he investigates opportunities for management systems that integrate food, feed, renewable energy and other ecosystem services. Recent research has focused on issues of global land-use change and causal analysis; the design, monitoring and evaluation of development assistance; and sustainability indicators for production systems, standards and certification.



Esther Parish is a research scientist at Oak Ridge National Laboratory. Her interests include bioenergy sustainability and climate change impacts. She holds a BSc in Geology and Geophysics from Yale University and an MSc in Geography from the University of Tennessee. She is pursuing a PhD in Energy Science and Engineering through the Bredesen Center.



Emma Tobin is from Kingston, TN and is currently a sophomore at the University of TN. She is majoring in biology with a concentration in ecology and evolutionary biology, and double minoring in wildlife and fisheries sciences, and international agriculture and natural resources. She has worked as an intern at ORNL since May of 2015 under Dr. Virginia Dale.