

Peter de Bock

Program Director

Advanced Research Projects Agency -
Energy (ARPA-E)

Seminar: Friday, June 23, 11:00 am

WALC 3090



Abstract:

ARPA-E is the Advanced Projects Research Agency -Energy of the Department of Energy. The focus of the agency is to support transformational research in the fields of energy technologies. Many processes and systems are limited by temperature and heat. Innovations in these areas can yield solutions that can help us reduce energy use, carbon emissions and prepare us for a more sustainable future. ASCEND and COOLERCHIPS are focused programs on electrified aviation and energy efficiency of data centers with as goals to increase the efficiency of electrified propulsion and reduce the energy use of cooling data centers. Program Director de Bock will present these program areas.

Bio:

Dr. Peter de Bock currently serves as Program Director at the Advanced Research Projects Agency-Energy (ARPA-E) for the US Department of Energy. At ARPA-E Dr. de Bock manages and supports over teams in zero-carbon hybrid aviation propulsion systems through the \$63M ASCEND program and efficiency of cooling of Data Centers through the \$42M COOLERCHIPS program.

Prior to joining ARPA-E, Dr. de Bock worked at GE Research as Principal Engineer ThermoSciences. Dr. de Bock is the former chair of ASME K-16 committee on Heat Transfer in Electronics equipment, ASME Fellow, AIAA member and holds 50+ patents and publications with over 1000 citations.

Dr. de Bock received his Ph.D. in Mechanical Engineering from the University of Cincinnati and holds MSc degrees from University of Twente in the Netherlands, and University of Warwick in the UK.