PRESENTING:
Eric Stahlberg
Director, Biomedical Informatics and Data Science (BIDS) for the Frederick National Laboratory for Cancer Research (FNLCR)

FRONTIERS FOR PREDICTIVE ONCOLOGY - INTEGRATING BIOMEDICAL INFORMATICS, DATA SCIENCE AND HIGH-PERFORMANCE COMPUTING

New approaches and technologies are appearing everyday with potential to improve the lives of cancer patients. Spurred forward by growing amounts of new and valuable data provided through next generation sequencing, imaging, medical records and even social media, artificial intelligence approaches are showing promise to enable faster and better predictions for new treatments, improved diagnosis, and accelerated research insights. The presentation will discuss exciting new developments, including the critical role that integrating biomedical data with HPC-enabled AI is having today in addressing current challenges and shaping progress for future innovations with promise to translate to clinical trials and applications that will help patients.

BIOGRAPHY
Dr. Stahlberg was named director of Biomedical Informatics and Data Science (BIDS) at the Frederick National Laboratory for Cancer Research in September 2018. He has been instrumental in establishing the Frederick National Laboratory’s high-performance computing initiative and in assembling scientific teams across multiple, complex organizations to advance predictive oncology. Stahlberg has played a leadership role in many key partnerships, including a major collaboration between the NCI and the Department of Energy (DOE). Under the Joint Design of Advanced Computing Systems for Cancer (JDACS4C), NCI and DOE are accelerating progress in precision oncology and computing. The collaboration is rooted in three major national initiatives; the Precision Medicine Initiative, the National Strategic Computing Initiative, and the Cancer Moonshot. Stahlberg has spearheaded the Frederick National Laboratory’s contributions to a number of JDACS4C projects, including ATOM and CANDLE. Dr. Stahlberg holds a Ph.D. in computational chemistry from The Ohio State University.