



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, ENGINEER RESEARCH AND DEVELOPMENT CENTER
INFORMATION TECHNOLOGY LABORATORY
WATERWAYS EXPERIMENT STATION, 3909 HALLS FERRY ROAD
VICKSBURG, MISSISSIPPI 39180-6199

CEERD-IZP

29 July 2019

MEMORANDUM FOR HIGH PERFORMANCE COMPUTING ADVISORY PANEL

SUBJECT: Selection of Fiscal Year 2020 Department of Defense (DoD) High Performance Computing Modernization Program (HPCMP) Frontier Projects

1. Frontier Projects were established in FY 2014 to enable research, development, test, and evaluation outcomes that could not be achieved using typically available HPCMP resources alone. These projects are aligned with DoD mission priorities and are supported by multi-year investments in multi-disciplinary teams leveraging exceptional amounts of high performance computing resources.
2. Based upon the recommendation of my management team and the evaluation criteria specified in the FY 2020 call for proposals, I have selected the following projects for award:
 - a. High Fidelity Modeling and Simulation to Support Army Aviation Acquisition Programs, Andy Wissink, Army Aviation Development Directorate
 - b. CVN 78 Modeling and Simulation Validation for Full Ship Shock Trial (FSST) Alternative, Brian Lang, NSWC
 - c. High-Fidelity Physics-Based Simulation of Kinetic and Directed Energy Weapons Integration Strategies for Future Air Dominance Platforms, Scott Sherer, AFRL
3. These three projects were selected from ten proposals submitted in response to the FY 2020 call. Each was subjected to extensive peer review by a technical evaluation panel and examined closely by the Services and Office of the Secretary of Defense for mission relevance.
4. The HPCMP will allocate resources for each selected project with a planned start date of 1 October 2019. The HPCMP resource management team will evaluate the progress of each project on a quarterly basis. Each project will be required to report its status (highlighting notable achievements and mission impact) each fiscal year.

CEERD-IZP

SUBJECT: Selection of Fiscal Year 2018 Department of Defense (DoD) High Performance Computing Modernization Program (HPCMP) Frontier Projects

5. Please join me in congratulating the members of these new Frontier Projects. My point-of-contact for this activity is Mr. Michael Ausserer, Associate Director for Resource Management. He may be contacted by phone at 937-255-6614 or by e-mail at michael.ausserer@us.af.mil.

WILL MCMAHON, PhD, PE
Director, High Performance
Computing Modernization Program