



NIF-0118059

March 13, 2012

*From the Desk of:*  
Dr. Edward Moses  
Director, National Ignition Facility  
Lawrence Livermore National Laboratory

Subject: Support letter for IZEST

To whom it may concern,

Recently, Professor Gerard Mourou and Professor Toshiaki Tajima informed Lawrence Livermore National Laboratory (LLNL) and the National Ignition Facility (NIF) about the intended creation of a new entity called IZEST (International Center on Zetta and Exawatt Science and Technology).

IZEST plans to investigate and promote the science and technology of frontier, ultrahigh peak power lasers that are 3-to-6 orders of magnitude beyond the current state of the art. Such lasers will enable new investigations of high-field fundamental physics in regimes complimentary to those studied by particle accelerators.

We believe that the creation of exawatt laser power and beyond will likely require the capabilities of megajoule-class facilities such as the NIF in the U.S. or the Laser Mégajoule (LMJ) in France.

We at the Lawrence Livermore National Laboratory have been working for some time in the deploying short-pulse technology on NIF beam lines and in the future to the extension of NIF to regimes of ultrahigh peak power operation for ultrahigh intensity laser-matter interaction studies.

As such, we welcome and support the creation of the IZEST and look forward to participation in its activities.

Sincerely,

A handwritten signature in black ink, appearing to read "Ed Moses", written in a cursive style.

Dr. Edward Moses  
Director, National Ignition Facility  
Principal Associate Director, LLNL for NIF and Photon Science