



Warsaw, November 20, 2012

Prof. Gerard Mourou
Ecole Polytechnique - IZEST, RD 128,
F-91128 Palaiseau Cedex
France

Re: *Participation in the International Center for Zetta- Exawatt Science and Technology (IZEST)*

Dear Prof. Mourou:

I hereby express our intent to collaborate within the International Center for Zetta- Exawatt Science and Technology (IZEST) which was created a year ago (Nov29th 2011) under the initiative of the ECOLE POLYTECHNIQUE and the COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES.

The Institute of Optoelectronics (IOE) (www.ioe.wat.edu.pl) is an interdisciplinary academic research institute at Military University of Technology (MUT) which is the largest university of its kind in Poland and offers studies for all levels of university education. The IOE mission is to support research and education in optoelectronics and lasers. The research staff of 190, including 90 scientists and 70 engineers and technicians, pursues numerous research projects funded by the government or industry. The Institute of Optoelectronics is a leading research institution on laser development and application in Poland. The specific areas of research activities in the field include: laser optics and electronics, laser systems, laser-matter interactions, laser cleaning, laser nanotechnology, laser ranging and sensing. IOE was involved in several EU-sponsored projects, including ELI-PP and Laserlab Europe, and projects under the European programs (EUREKA, COST, and EDA).

The IOE team which would like to participate in the IZEST activity fully subscribe to IZEST mission that is:

1. to define novel laser architectures and road maps of the next generation of ultra high peak power/intensity and also the high average power lasers.
2. to facilitate the scientific and technical coordination among members of the international scientific community eager to discover new paradigms pinned by extreme high intensity lasers. Particular attention will be devoted to:
 - particle acceleration,
 - high energy fundamental physics, physics beyond the Standard Model,
 - vacuum structure,
 - dark matter search,
 - TeV astrophysics,
 - development of very high intensity lasers,
 - societal application like proton therapy, nuclear transmutation.

IOE contribution to IZEST will be in the areas of:

- interaction of high intensity lasers with matter,
- novel sources of high energy radiations and particles,
- solid state and fiber-based high peak power and high average power lasers.

The Institute of Optoelectronics will actively seek National and European funding for the research in the IZEST's relevant area of interest.

It is expected that IOE will be an active member of the IZEST consortium by participating in the scientific and technical meetings, exchanging personnel and submission joint research projects. We appear this letter of intent with a view that it will be replaced by an MOU between MUT and IZEST. Please don't hesitate to contact with us if you have comments or suggestions.

Sincerely yours,

A handwritten signature in blue ink, appearing to read 'K. Koczyński', with a stylized flourish extending downwards.

Krzysztof Koczyński
Director

A handwritten signature in blue ink, appearing to read 'H. Fiedorowicz', with a stylized flourish extending downwards.

Henryk Fiedorowicz
Professor