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Introduction

This is the third biennial conference on High Power Lasers for Fusion Research. Our objective has been to showcase the continual progress made in high power laser development, which is associated with the goal of demonstrating inertial confinement fusion in the laboratory. In different parts of the world, scientists are making significant progress in constructing these large laser facilities (paper 1). In other parts, new laser subsystems are being added to develop novel diagnostics for visualizing and understanding the nature of the experimental reaction and possible methods of tuning (paper 16).

This year, the conference attracted twenty-six contributed and invited presentations in the areas of status of High Power Lasers Facilities around the world (with presentations from LLNL, LEA, ELI and RAL), High Power Optical Materials, Simulations and Experiments, and Laser Subsystems/Diagnostics. We were encouraged by the large number of attendees and the questions they asked every speaker. We attracted papers from many different countries around the globe including United States, France, United Kingdom, Czech Republic, Germany, Russian Federation and China. There was also interest from the industry in presenting results of lasers and components which may find future application in high power lasers. We did not see any gaps in papers from this conference.

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