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Front Matter: Volume 9345

, "Front Matter: Volume 9345," Proc. SPIE 9345, High Power Lasers for Fusion Research III, 934501 (16 April 2015); doi: 10.1117/12.2183972

SPIE.

Event: SPIE LASE, 2015, San Francisco, California, United States

PROCEEDINGS OF SPIE

High Power Lasers for Fusion Research III

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Editors

10 and 12 February 2015

San Francisco, California, United States

Sponsored and Published by

SPIE

Volume 9345

Proceedings of SPIE 0277-786X, V. 9345

SPIE is an international society advancing an interdisciplinary approach to the science and application of light.

High Power Lasers for Fusion Research III, edited by Abdul A. S. Awwal, Monya A. Lane, Proc. of SPIE
Vol. 9345, 934501 · © 2015 SPIE · CCC code: 0277-786X/15/\$18 · doi: 10.1117/12.2183972

Proc. of SPIE Vol. 9345 934501-1

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Author(s), "Title of Paper," in *High Power Lasers for Fusion Research III*, edited by Abdul A. S. Awwal, Monya A. Lane, Proceedings of SPIE Vol. 9345 (SPIE, Bellingham, WA, 2015) Article CID Number.

ISSN: 0277-786X

ISBN: 9781628414356

Published by

SPIE

P.O. Box 10, Bellingham, Washington 98227-0010 USA

Telephone +1 360 676 3290 (Pacific Time) · Fax +1 360 647 1445

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Printed in the United States of America.

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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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