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Shu Chen  
Xiaolin Tang**  
*Editors*

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## Introduction

The 20th International Symposium on High Power Systems & Applications 2014 (HPLS&A 2014) was held 25–29 August 2014, in Chengdu, China. It is the first time that the HPLS&A symposium was held outside of Europe in Asia. The oral sessions and poster sessions covered the fields of solid state laser sources and system engineering (including disk, fiber, hybrid lasers); high power diode laser, gas and chemical lasers (including DPALs); resonators and laser beam control; ultra-short pulsed laser system, theory and simulation; laser materials (crystal, ceramic), UV, VUV, EUV lasers; as well as applications and novel approaches.

The symposium provided an excellent opportunity for researchers in gas, chemical, and high power lasers, along with the end-users of these lasers to exchange ideas, review the state of the art, and foresee emerging trends within the fields. Overall, the sessions were well attended and the presentations were followed by interesting and insightful discussions.

These proceedings, which provide a detailed account of the symposium, will be useful for the scientists, researchers, and engineers in the fields of high power laser systems and applications.

**Cangli Lliu**  
**Willy L. Bohn**  
**Robert Walter**  
**Jarmila Kodymova**

