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Introduction

The SPIE Practical Holography XXX Conference is an important international event in the field of holographic applications and recording materials, which took place 15–17 February 2016, at the Moscone Center in San Francisco. The conference provides a venue for all aspects of holography: art, display, metrology, scientific, security, storage, materials and processes, CGHs and HOEs. The conference also brings together participants from all over the world. This year marks the 30th meeting of the Practical Holography conference which is part of SPIE Photonics West, with more than 20,000 attendees, 95 conferences, and with 4,900 presentations.

The materials and processes papers showed the continued innovations in ways of capturing and reproducing holograms, while digital holography presentations demonstrated the increasing maturity of methods for real-time acquisition and display of dynamic holographic imagery. Artistic and communicative uses of holography have always been an important part of this event. The oral presentations were divided into the following sessions: materials and processes, art and perception, applications and digital holography. Among the materials and processes papers, Stanislovas Zacharovas, Geola (United Kingdom) described the recording of Denisyuk colour holograms with pulsed RGB lasers. Thomas Fäcke, Covestro (formerly Bayer MaterialScience AG) (Germany) described the recording of HOEs in Bayfol© HX photopolymer. Hans Bjelkhagen reported on the Fabergé Egg OptoClone™ recording and display. Isabel Azevedo, University of Porto (Portugal), presented the joint work with Elizabeth Sandford-Richardson, University of the Arts (United Kingdom), on digitally printed art color holograms. In the application session, Meriç Özcan, Sabancı University (Turkey), reported on the development of a 3D endoscope. An application paper by Victor Dyomin, National Research Tomsk State University (Russian Federation), described the recording of plankton under water using digital holography. Hiroshi Yoshikawa, Nihon University (Japan), described image quality evaluation of computergenerated holograms. From MIT in the United States, Sundeep Jolly described a near-to-eye 3D display based on waveguide holography.

In addition to the main conference, the SPIE Holography Technical Evening Event took place on 16 February, at the InterContinental Hotel. This event focused on new developments, applications, holography events and demonstrations.
The conference chairs would like to thank the authors (both those new to this conference and returning authors) as well as the session chairs and the program committee members for their contributions to this conference. We look forward to seeing you again in San Francisco in early 2017. And we invite those readers of this volume who have not previously taken part to consider joining us.

Hans I. Bjelkhagen
V. Michael Bove Jr.