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Practical Holography XXIII: Materials and Applications

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Raymond K. Kostuk**
Editors

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Introduction

The SPIE Holography Conference which takes place every year in January is an important international event in the field of practical holography and holographic materials. This year marks the twenty-third meeting of the Practical Holography conference which is part of the Photonics West event in San Jose, California. The 2009 conference was the last time we met there, next year Practical Holography takes place in San Francisco.

The conference provides a venue for all aspects of holography: art, display, metrology, scientific, security, storage, and HOEs. The conference also brings together participants from all over the world including Europe, Australia, Asia, and America. This year's meeting consisted of 26 oral and 14 poster papers. In addition a Holography Technical Event took place during an evening meeting on new developments in materials and applications. A presentation of the 8th International Symposium on Display Holography, which will take place in July 2009 in China, was provided by Tung H. Jeong during this event.

This year's conference featured many interesting contributions in various fields during two days of oral presentations. It was divided into eight sessions on four main topics: Holographic Displays, Holographic Applications, Digital Holography, and Materials.

One important contribution in the material secession this year was a paper on the new photopolymer materials from Bayer MaterialScience in Germany. The interest in panchromatic polymers is increasing, mainly caused by the simplicity of using it for recording holograms and HOEs, no processing is required after recording. It is welcome that a main corporation such as Bayer is going to introduce a photopolymer material on the market which will not be restricted to only a few privileged customers such is currently the case with the DuPont materials. In addition GE Global Research is working on a new thermoplastic material for holography.

Every year the amount of papers on digital holography systems are increasing. This year was no exception; it is now possible to generate full-color real-time displays as well as improved quality of electronic holograms.

We would like to thank all the authors and the Practical Holography XXIII Program Committee members for their contribution. The session chairmen: M. Richardson, T. Jeong, F. Iwata, A. Okorogu, and H. Yoshikawa are acknowledged for helping with the paper presentations during the sessions. The Practical Holography Conference, the Holography Technical Event, and the Short Course on

Holographic Techniques for Advanced Photonics Systems provide a good collection of activities for those interested in holography.

We look forward to seeing you in San Francisco in January 2010.

Hans I. Bjelkhagen
Raymond K. Kostuk