

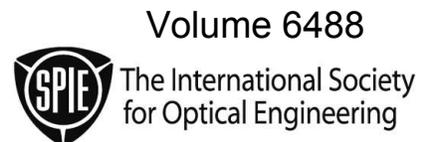
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Practical Holography XXI: Materials and Applications

**Roger A. Lessard
Hans I. Bjelkhagen**
Editors

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Contents

vii	<i>Conference Committee</i>
ix	<i>Introduction</i>

SESSION 1 RECORDING MATERIALS AND MATERIAL EVALUATION

- 648803 **Characterization of PVA doped with different metallic salts as conductor polymer and as holographic film sensitized with ammonium dichromate** [6488-02]
M. P. Hernández-Garay, A. Olivares-Pérez, I. Fuentes-Tapia, R. Baltasar-Arroyo, B. Ruiz-Limón, L. Ponce-Lee, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico)
- 648804 **Polyelectrolyte as holographic recording medium** [6488-03]
S. Toxqui-López, A. Olivares-Pérez, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico)
- 648805 **Organic photoluminescent holograms** [6488-04]
E. L. Ponce-Lee, A. Olivares-Pérez, B. Ruiz-Limón, M. P. Hernández-Garay, G. Páez-Trujillo, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico)
- 648806 **Photopolymers containing epoxy monomers for holographic recording** [6488-05]
J. Kim, B. D. Sarwade, K. Rameshbabu, E. Kim, Yonsei Univ. (South Korea); S.-G. Lee, Ibule Photonics, Co., Ltd. (South Korea)
- 648807 **Pulsed holographic gratings in azo-polymethacrylates with different molecular architectures** [6488-06]
P. Forcén, C. Sánchez, F. J. Rodríguez, R. Alcalá, L. T. Oriol, Univ. de Zaragoza (Spain); S. Hvilsted, K. Jankova, Technical Univ. of Denmark (Denmark); J. Loos, Eindhoven Univ. of Technology (Netherlands)
- 648808 **Quasi in situ microscopic study of hologram build-up in LiNbO₃ crystals** [6488-07]
I. Bányász, G. Mandula, Research Institute of Solid State Physics and Optics (Hungary)

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The CID number appears on each page of the manuscript. The complete citation is used on the first page, and an abbreviated version on subsequent pages.

- 648809 **Study for Bragg detuning effect and asymmetry of diffraction efficiency on the transmission and the reflection hologram** [6488-08]
Y.-Y. Kwon, K.-Y. Kim, J.-Y. Park, Daewoo Electronics (South Korea); J.-Y. Park, Hanyang Univ. (South Korea)
- 64880A **Measurement of refractive index of photopolymer for holographic gratings** [6488-09]
E. Watanabe, J. Mizuno, C. Fujikawa, K. Kodate, Japan Women's Univ. (Japan)
- 64880B **Electro-optical characteristics of holographic replication using a photopolymer and ZnCl₂** [6488-10]
M. P. Hernández-Garay, A. Olivares-Pérez, I. Fuentes-Tapia, B. Ruiz-Limón, L. Ponce-Lee, G. Páez-Trujillo, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico)

SESSION 2 TECHNIQUES AND APPLICATIONS

- 64880C **Polarization experiments in holographic interferometry (Invited Paper)** [6488-11]
G. Ackermann, J. Eichler, L. Dünkel, C. Schneeweiss, Technische Fachhochschule Berlin (Germany)
- 64880D **Problem of twin-image elimination in 2D computer synthesized hologram** [6488-12]
E. Braginets, National Taras Shevchenko Univ. of Kyiv (Ukraine); V. Girnyk, State Enterprise Polygraphcombinat Ukraina (Ukraine); S. Kostyukevych, Institute of Semiconductor Physics (Ukraine); A. Soroka, National Taras Shevchenko Univ. of Kyiv (Ukraine); I. Androsyuk, Institute of Semiconductor Physics (Ukraine)
- 64880G **Adaptive optics for holographic data storage** [6488-15]
N. Ishii, T. Muroi, N. Kinoshita, K. Kamijo, N. Shimidzu, NHK Science and Technical Research Labs. (Japan)
- 64880H **Novel diffraction grating light guide for LED backlight** [6488-16]
E. Miyamoto, S. Maruyama, A. Nagano, L. M. Murillo-Mora, T. Toda, F. Iwata, Toppan Printing Co., Ltd. (Japan)
- 64880I **Holographic wavefront sensor: fast sensing no computing** [6488-17]
G. Andersen, U.S. Air Force Academy (USA); F. Ghebremichael, K. Gurley, Lockheed Martin Missile and Fire Control (USA)
- 64880J **Harmonically related gratings-based quadrature phase interferometers** [6488-18]
Z. Yaqoob, J. Wu, X. Cui, X. Heng, C. Yang, California Institute of Technology (USA)

SESSION 3 DISPLAY AND COLOR HOLOGRAPHY

- 64880L **Holographic video display based on guided-wave acousto-optic devices (Invited Paper)** [6488-19]
D. E. Smalley, Q. Y. J. Smithwick, V. M. Bove, Jr., MIT Media Lab. (USA)
- 64880M **Ethereal presences in holography and photography** [6488-46]
M. Richardson, K. Byrne, DeMontfort Univ. (United Kingdom)

- 64880P **Method of reduction of zeroth order intensity in computer generated holograms by use of phase addition technique** [6488-23]
D. W. K. Wong, G. Chen, Nanyang Technological Univ. (Singapore)
- 64880Q **Full-color image-plane holographic video display** [6488-24]
T. Yamaguchi, G. Okabe, H. Yoshikawa, Nihon Univ. (Japan)
- 64880R **Quality evaluation of full color hologram** [6488-25]
M. Kurashige, T. Kumasawa, A. Kitamura, T. Yamauchi, M. Watanabe, K. Ueda, Dai Nippon Printing Co., Ltd. (Japan)

SESSION 4 DIGITAL, ELECTRONIC, AND COMPUTER HOLOGRAPHY

- 64880S **Simultaneous recording of practical 3D color images by phase-shifting in-line holography** [6488-26]
K. Sato, H. Fujiwara, M. Morimoto, K. Fujii, Univ. of Hyogo (Japan)
- 64880T **Digital holographic tomograph: the tool for microelements investigation** [6488-27]
A. Jozwicka, M. Kujawinska, T. Kozacki, Warsaw Univ. of Technology (Poland)
- 64880U **Computer-generated holograms allowing 360-degree viewing** [6488-28]
Y. Sakamoto, A. Kashiwagi, Y. Murarya, Hokkaido Univ. (Japan)

POSTER SESSION

- 64880V **Three-dimensional TV using holographic stereogram** [6488-22]
K. Sato, S. Koizumi, K. Chou, Shonan Institute of Technology (Japan); K. Takano, Tokyo Metropolitan College of Industrial Technology (Japan)
- 64880W **A system of enlarging visual field and viewing zone simultaneously for electro-holography** [6488-29]
T. Nagai, Y. Yabe, Y. Sakamoto, Hokkaido Univ. (Japan)
- 64880X **Holographic display system using combination of exchangeable holograms and intelligent illuminations** [6488-30]
A. Tanaka, K. Sakamoto, Shimane Univ. (Japan)
- 64880Y **Event driven illumination system for image reconstruction of hologram** [6488-31]
K. Sakamoto, K. Uchida, Shimane Univ. (Japan)
- 64880Z **Development of lighting system for hologram using high power LEDs** [6488-32]
J. Baba, A. Yaeda, Tokai Univ. (Japan); H. Asakawa, Marumo Electric Co., Ltd. (Japan); T. Shibuya, M. Wakaki, Tokai Univ. (Japan)
- 648810 **Holographic data calculating algorithm and new digital hologram recorder** [6488-33]
M.-L. Cruz-López, M. Alcaraz-Rivera, J. J. Báez-Rojas, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico); D.-K. Kang, Holotec Inc. (USA)

- 648812 **Optical encryption of binary data information with 2-step phase-shifting digital holography** [6488-35]
S. K. Gil, H. J. Byun, H. J. Lee, The Univ. of Suwon (South Korea); S. H. Jeon, The Univ. of Incheon (South Korea); J. R. Jeong, Suwon Science College (South Korea)
- 648813 **Computer generated hologram for phase-only optical encryption** [6488-36]
T. V. Vu, N. Kim, Chungbuk National Univ. (South Korea); S.-K. Gil, Suwon National Univ. (South Korea); J.-W. An, Prism Tek, Chungbuk National Univ. (South Korea); E.-K. Kim, Yonsei Univ. (South Korea)
- 648814 **Chirp volume grating recorded in photopolymer for the optical demultiplexer** [6488-37]
D. D. Do, N. Kim, O. W. Kwon, Chungbuk National Univ. (South Korea); J. W. An, Prism Tek (South Korea); S. H. Jeon, Univ. of Incheon (South Korea); K. Y. Lee, Suncheon National Univ. (South Korea)
- 648815 **Field-of-view extender for a novel camera system** [6488-38]
S. H. Lim, Univ. of Arizona (USA); R. K. Kostuk, Univ. of Arizona (USA) and The College of Optical Science, Univ. of Arizona (USA)
- 648816 **Photoluminescent conductor polymer holograms** [6488-39]
B. Ruiz-Limón, A. Olivares-Pérez, E. L. Ponce-Lee, M. P. Hernández-Garay, G. Páez-Trujillo, I. Fuentes-Tapia, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico)
- 648817 **Holograms in colored dichromate gelatin with natural colorant** [6488-40]
G. Páez-Trujillo, A. Olivares-Pérez, M. P. Garay-Hernández, I. Fuentes-Tapia, E. L. Ponce Lee, B. Ruiz-Limón, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico)
- 648818 **Processing techniques for quality improvement of phase added stereogram** [6488-41]
H. Kang, T. Yamaguchi, H. Yoshikawa, Nihon Univ. (Japan)
- 648819 **Polyvinyl alcohol and crystal violet as photosensitive film** [6488-42]
M. Ortiz-Gutiérrez, Univ. Michoacana de San Nicolás de Hidalgo (Mexico); K. Alemán, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico); M. Pérez-Cortés, Univ. Autónoma de Yucatán (Mexico); J. C. Ibarra-Torres, Univ. de Guadalajara (Mexico); A. Olivares-Pérez, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico)

Author Index

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- 3 Display and Color Holography
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Introduction

This conference which takes place every year in January is an important international event in the field of practical holography and holographic materials. This year featured many interesting contributions in various fields during two intensive days of oral papers as well as a special poster session. The conference was divided into four main sessions: Recording Materials and Material Evaluation, Techniques and Applications, Display and Color Holography, and Digital, Electronic, and Computer Holography.

Many papers are devoted to conventional and new recording materials. The papers on photopolymer materials are increasing every year. For example, this year there was a paper on organic photoluminescent holograms. An invited paper on photo-thermo-refractive glass for large-aperture HOEs was one of the interesting new recording materials. Another invited paper was demonstrating polarization effects in holographic interferometry. Among applications, a new diffraction grating light guide for LED backlight can be mentioned. More real-time digital holography systems are now able to generate full-color displays. It is also interesting to note that MIT's Media lab continues the important work on holographic video, which started when Stephen Benton was responsible for the holographic R&D program at MIT. He was also the chair of this conference for many years.

The poster papers describe, for example, new materials, lighting systems for holograms, digital holography, and encryption. A new holographic camera system with an extended field of view was described in a poster from University of Arizona.

This year's conference program was lacking art-related papers, which in the past has been an interesting addition to papers dealing with scientific, industrial, and technology topics. Only one paper is included this year and it would be nice to see more art holography papers next year.

I would like to thank the Practical Holography XXI program committee members for their contribution. The session chairmen: Gerald L. Heidt, Jean-Marc R. Fournier, Tung H. Jeong and Christopher W. Slinger are acknowledged for helping with the paper presentations during the four sessions. The co-chair Roger A. Lessard, Université Laval, Canada, was not able to be involved in this year's conference caused by health problems.

I look forward to seeing you in San Jose in January 2008.

Hans I. Bjelkhagen

