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***Polymer Optics Design,
Fabrication, and Materials***

David H. Krevor
William S. Beich
Editors

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Introduction

These proceedings represent the second symposium on polymer optics since the topic was reinstated by SPIE.

Polymer optics is a maturing field, as exemplified by more than a billion cellphone and camera lenses produced annually from polymeric materials. The relative markets and niches for optical plastics and glasses continue to evolve, usually according to the cost of mass production. As some applications for plastic optics wax and wane, such as the diminishing use of optical storage media in CDs and DVDs, other applications emerge, such as mass produced Fresnel lenses for concentrated photovoltaic (CPV) systems and, potentially, automotive windscreens.

The papers presented represent both industry and academia, ranging from micro-electronics to macro-applications, from replication to the predominant injection molding. The authors represent three continents and seven countries, indicating the global nature of both the industry and academic research. In recent years, the excellent monographs by Michael Schaub and Stefan Baumer have significantly advanced the understanding and sophistication of plastic optics. These symposia and proceedings are a progression of that knowledge.

I thank all of the authors for their fine presentations and papers. I thank my co-chair, Will Beich, and SPIE for their assistance and support.

Our next symposium is August 2012 in San Diego. We invite your participation.

David H. Krevor
William S. Beich

POLYMER OPTICS SYMPOSIUM AUTHORS



Polymer Optics authors. Left to right, top row: Jayan Thomas (The University of Arizona), Tianxin Yang (Tianjin University), Minseog Choi (SAMSUNG Electronics Company, Ltd.), Will Beich (G-S Plastic Optics); middle row: Axel Bäuerle (RWTH Aachen University), Michael Schaub (Raytheon Missile Systems), Valentina Doushkina (Qioptiq Polymer, Inc.), Roman Bruck (Austrian Institute of Technology); bottom row: Raphael Guerrero (Ateneo de Manila University), Hsiang-Chun Wei (National Taiwan University), Jyun-Cing Tang (National Taiwan University), David Krevor (SolFocus, Inc.)