

# PROCEEDINGS OF SPIE

## ***Metamaterials III***

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**Nikolay I. Zheludev**  
**Richard W. Ziolkowski**  
*Editors*

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**Nikolay I. Zheludev**, University of Southampton (United Kingdom)

**Richard W. Ziolkowski**, The University of Arizona (USA)

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## Introduction

Metamaterials, artificial subwavelength structures which involve the interaction of electromagnetic radiation, is now an established research area and gathering momentum each year. In this meeting we placed emphasis on optical (and infra-red) metamaterials as evidenced by the large number of contributions on superlensing. Surface plasmons also brought a significant number of contributions with interest apparent from other neighbouring conferences such as nanophotonics. As the subject matures, we have seen more contributions to novel device applications (including waveguides and transmission lines, hole arrays and photonic crystals) backed by new theory.

This conference is the third in the series of metamaterials, the first at the SPIE *Europe* meeting in Warsaw 2005, followed by the 2007 meeting in Prague. It is hoped that the tradition of an eastern and western European venue will continue.

The chairs of the meeting would like to thank all contributors to the conference, the SPIE team, and the programme committee, many of whom were drawn from METAMORPHOSE Network of Excellence.

**Nigel P. Johnson**  
**Ekmel Özbay**  
**Nikolay I. Zheludev**  
**Richard W. Ziolkowski**

