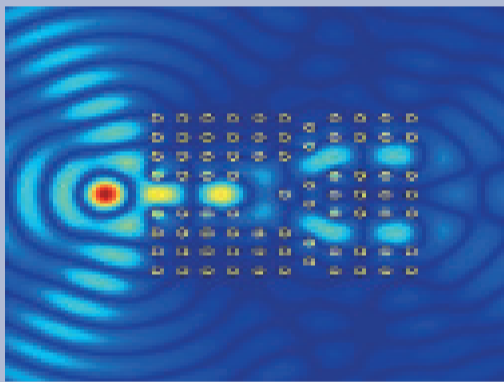


# KSOP Summer School 2010

Karlsruhe School of Optics & Photonics  
September 17-19, 2010 in Bad Herrenalb

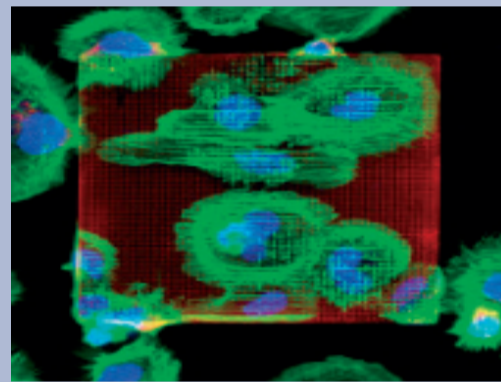
Connect your Perspectives



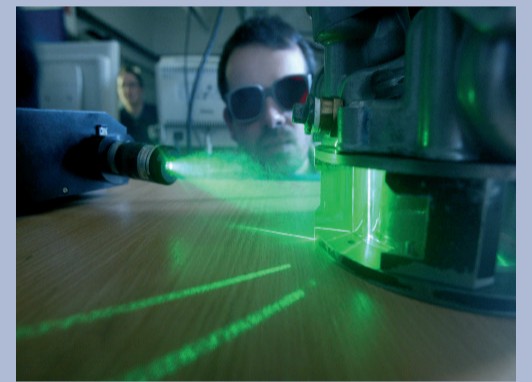
Research Area I:  
Photonic Materials & Devices



Research Area II:  
Advanced Spectroscopy



Research Area III:  
Biomedical Photonics



Research Area IV:  
Optical Systems

Supported by KHYS Karlsruhe House of Young Scientists and Carl Zeiss AG.

## Keynote Speakers:

Prof. Dr. Costas Soukoulis, Iowa State University, USA

Prof. Dr. Volker Sick, The University of Michigan, USA

Prof. Dr. Alexander Gottschalk, Johann-Wolfgang-Goethe Universität, D

Dr. Peter Vukusic, University of Exeter, UK

Prof. Dr. Paul French, Imperial College London, UK

# KSOP Summer School 2010

## Scientific Program:

### Time Friday, September 17

9.00 a.m.	Welcome and outline of the school (Martin Wegener)
9.15 a.m.	„Implications of causality on metamaterial losses“ (Mark Stockman)
10.45 a.m.	Coffee Break
11.15 a.m.	„Causality-based criteria must be used with care“ (Martin McCall)
1.00 p.m.	Lunch
2.30 p.m.	Discussion in groups on the question: Can zero loss in negative-index metamaterials be accomplished or not?
3.30 p.m.	Prepared statements by students on this question
4.00 p.m.	Coffee Break
4.30 p.m.	„The SPASER“ (Mark Stockman)
7.00 p.m.	Dinner

### Time Saturday, September 18

10.00 a.m.	Meeting for excursion to Karlsruhe Castle
12.30 a.m.	Lunch
2.00 p.m.	„Plasmonic structures with gain“ (Mikhail Noginov)
3.30 p.m.	Coffe Break
4.00 p.m.	“Self-consistent calculations on metamaterials with gain“ (Costas M. Soukoulis)
5.30 p.m.	Concluding remarks (Martin Wegener)

## Social Program:

Excursion to Karlsruhe Castle

Date: Saturday, September 18, 2010

Time: 10.00 a.m. at the International Department courtyard

Price: included for all registered KSOP Summer School participants