



Bio-inspired Optics and Photonics – From Metamaterials to Applications

International Focus Workshop 24 - 27 June 2019

A close look at nature's light manipulation strategies can provide inspiration for bio-inspired multifunctional materials with applications in optics and photonics. This Focus Workshop will bring together experts from different scientific disciplines working in the interdisciplinary fields of bio-inspired optics and photonics in order to stimulate scientific exchange and new collaborative projects.



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Topics

- Biological light manipulation strategies
- Structural vs. absorption-based and fluorescent coloration
- Disorder and order in biological and bio-inspired optical materials
- Multi-functional and dynamic optical materials
- Thermal regulation
- Perfect white scattering materials
- Fabrication techniques for bio-inspired optical materials and devices
- Scalable fabrication strategies
- Application scenarios for bio-inspired optical materials

Invited speakers

L. Addadi (IL)
 J. Aizenberg (US)
 J. J. Baumberg (GB)
 S. Berthier (FR)
 H. Fabritius (DE)
 A. Fery (DE)
 G. Gomard (DE)
 O. Karthaus (JP)
 M. Kreysing (DE)
 R. Martin-Palma (ES)
 F. Omenetto (US)
 A. R. Parker (GB)
 R. Potyrailo (US)
 F. Scheffold (CH)
 F. Schenk (GB)
 G. Schroeder-Turk (AU)
 M. Shawkey (BE)

R. H. Siddique (US)
 D. Stavenga (NL)
 U. Steiner (CH)
 S. Vignolini (GB)
 G. von Freymann (DE)
 P. Vukusic (GB)

Scientific coordinators

Hendrik Hölscher
 Karlsruhe, DE

Mathias Kolle
 Cambridge, US

Organisation

Jenny Kuehne
 MPIPKS Dresden

Applications received before 22 February 2019 are considered preferentially.

Applications are welcome and should be made by using the application form on the event's web page. The number of attendees is limited. The registration fee for the international focus workshop is 140 Euro and should be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute. Limited funding is available to partially cover travel expenses.

For further information please contact:

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