# Astrophotonics

A technical meeting of the Scottish chapter of
the IEEE-Photonics Society (Formerly IEEE-LEOS)

30th March 2009
Postgraduate Centre - Heriot Watt University

## Meeting description

A revolution in astronomy is about to take place. Telescopes with apertures of up to 42 m are being designed and built to view further and more distance objects, examples of which include extrasolar planets and start-forming systems in the early universe. Simply scaling up the old instrumentation technology would be ineffective and costly. The application of photonics principals to astronomy (*Astrophotonics*) could solve many of the instrumentation issues. This meeting will consist of a networking event and talks from many of the leaders in this burgeoning field.

*The meeting is free to attend and all are welcome.*

## Schedule

| Time | | Speaker | Talk title |
|---|---|---|---|
| 12:00 | Arrival and registration | | |
| 13:00 | Talk | Prof. Colin Cunningham (*UK Astronomy Technology Centre / Royal Observatory, Edinburgh*) | Meeting introduction |
| 13:15 | Talk | Dr. Jeremy Allington-Smith (*Centre for Advanced Instrumentation / Durham University*) | Astrophotonics and highly-multiplexed spectroscopy |
| 14:00 | Talk | Prof. Tim Birks (*University of Bath*) | Astrophotonic crystal fibres |
| 14:45 | Networking event with cheese and wine | | |
| 16:00 | Talk | Dr. Pierre Kern (*Laboratoire d'Astrophysique de Grenoble*) | Photonics applied to interferometric instrumentation for astrophysics, practical experience and prospects |
| 16:45 | Talk | Dr. Ettore Pedretti (*University of St Andrews*) | Astrophotonics in infrared long-baseline interferometry |
| 17:30 | Meeting close | | |

*This meeting is sponsored by….*

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More details of the meeting (e.g. talk abstracts / speaker biographies) are available on the chapter website **http://www.leos-scot.ac.uk/**. For all enquiries, please contact Robert Thomson (**R.R.Thomson@hw.ac.uk**).