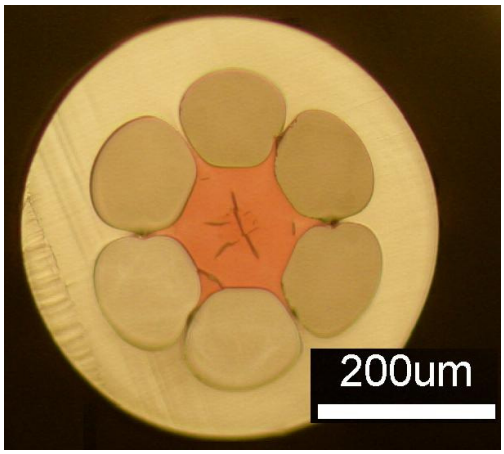
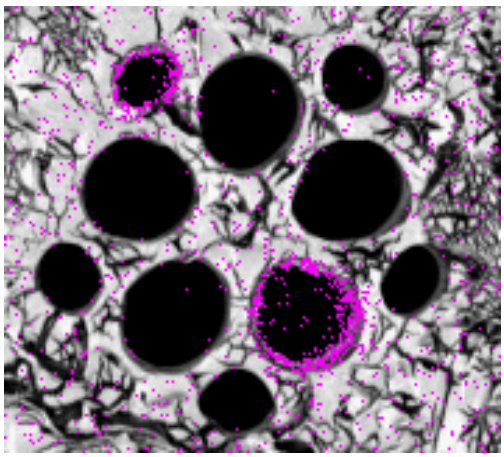
OSA Sydney University Student Chapter of the Optical Society of America

# Functionalizing microstructured polymer optical fibre

Injecting new materials into the holes of microstructured polymer optical fibre (mPOF), or incorporating dopants in the polymer core itself leads to dramatic changes in the light guiding properties of these fibres. This talk will focus on functionalizing mPOF and cover the topics of embedding nanoparticles, in-fibre surface enhanced Raman scattering for chemical sensing, the fabrication of a fibre polarizer as well introducing novel fibre designs for chemical sensing applications.



## Come to a lunchtime OSA session:

Short presentation by Felicity Cox, a physics PhD student
And of course **FREE Pizza**!

---

**1pm, Tuesday 8th May, 2007**
Slade Lecture Theatre, School of Physics
Cost is FREE but please RSVP to Bill:
billc@physics.usyd.edu.au or 9351 5978