

# PROMIS

## PROMIS – Postgraduate Research on Dilute Metamorphic Nanostructures and Metamaterials in Semiconductor Photonics



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*Training Report*



By the end of Month 12, all ESRs were in post. The 16 ESRs (15 Marie Curie, 1 non-Marie Curie), include 10 male and 6 female researchers: 8 being from EU- and 8 from non-EU-countries. Two ESRs have been elected to serve on the Supervisory Board.

The first PROMIS Workshop was hosted by the University of Sheffield from 21<sup>st</sup> -23<sup>rd</sup> September 2015 and included a 1-day Communication Skills course followed by an intensive 2-day programme of technical presentations. During the Communication Skills course, the ESRs were given the opportunity to prepare a short presentation, which they then presented to the whole meeting after constructive feedback. The 2-day technical programme was comprised of introductory lectures from high-profile speakers on growth and fabrication techniques pertinent to the PROMIS work packages. This included introductions to both MBE and MOVPE growth, Materials Characterisation, Defect Behaviour in Semiconductor Devices, Device Fabrication, Hydrogen in Semiconductors, Materials and Processing for ICT and Antimonide Materials. Twenty-one ESRs attended the workshop including 11 non-PROMIS researchers.

The ESRs are also receiving training appropriate to their own projects in their home institutions, this includes, for example, training in the safe use of cryogenic liquids and lasers, in the use of the characterisation tools (XRD, C-V profiles, Hall effect measurements and Transmission Electron Microscopy), in TEM sample preparation, device –processing and MBE and MOVPE growth and substrate preparation. In addition to undertaking their own literature reviews, some ESRs have also attended conferences and workshops to widen their subject knowledge and to take advantage of networking opportunities.

Career Development Plans have been received from 14 of the ESRs (including the non-Marie Curie ESR): 2 ESRs were recruited recently (1<sup>st</sup> November and 1<sup>st</sup> December 2015 respectively) and their CDPs are in preparation.