

UK-India Network on Electrical Contacts for Radiation Sensors and Solar Cells

UK UTP 201100322

Partners

India : Prof. B. Ghosh, Jadavpur University

UK: Dr. A. Lohstroh University of Surrey &

Prof. N.J. Cowern, Newcastle University

Objectives of the Networking

- Development electrical contacting technology to nano-structured Materials & Devices
- Joint supervision of PhD program
- Exchanges of researchers
- Enhance future Networking

Work schedule

- Nano-structured films fabricated at Jadavpur University and some was procured at UK.
- Electrical contact was provided on the fabricated films at Jadavpur University.
- Films were characterized at University of Surrey & Newcastle University, UK.
- Optimization of the overall processing are in progress.
- Publications, Patent generation and increasing of networking window.

Action taken

- PhD student selected jointly by the UK Partner and Indian Partner.
- The student joined and working at the Indian University
- Proposed to registered for PhD studies at the University of Surrey, UK in October-2013 session under the joint supervision of Indian & UK partner

Outcome till date

Publications

Journal Paper:

1. Thin Solid Films, vol. 531, pp. 203-207, 2013

Papers at International Conference Proceedings:

1. Technical Proceedings of the 2012 Nanotechnology Conference & Exhibition, NST1-Nanotech-12, pp. 196-199.
2. Proceeding of 27th EUPVSEC, paper No. 6CV.4.2., 2012.
3. Proceeding of the 28th EUPVSEC, paper Nos. 1AV.3.2, 5CV7.9, & 5CO.5.5. 2013.

Future Action Plan

Forthcoming visit by Indian Researchers

September-2013 to short out the work schedule and overall supervision of the PhD student.

June & July-2014 PhD Student to carrying out the research activities related to the work schedule.

Forthcoming visit by UK Researchers

April-May, 2014 to evaluate the progress of the overall research work schedule and performance of PhD student.

Problem of Sustainability

- Variation in exchange rate will affect the activities.
- Project need extension for completion of the projected work schedule
- Need for support of Research student for completion his targeted research.

Avenue for Further Networking

The novel electrical contacting technology increased the application window as a result this developed further networking with many other groups in UK and also in EU and USA.

The proposed contacting technology proved its potential applications in Graphene, thus another linkage has been developed in between UK, USA and India.

Some laboratories in EU are also in touch with the partner organizations for further collaboration on this aspect.



THANK YOU