Contribution ID: **240** Type: **Oral Presentation**

Pulsed laser deposition of multiwall carbon nanotube/NiO nanocomposite thin films

Thursday, 14 July 2011 08:45 (15 minutes)

<p>In this work, we report on the fabrication of multiwall carbon nanotubes (MWCNT)/NiO nanocomposite thin films by the pulsed laser deposition technique on to aluminium substrates. Samples were prepared with different MWCNT content, and varying substrate temperatures. Structural and optical properties were investigated by scanning electron microscopy, x-ray diffraction, Raman spectroscopy, UV-Vis spectroscopy and the thermal emissometer. The morphological and structural changes induced by laser beam will also be presented.

Level (Hons, MSc,
   PhD, other)?

PhD

Consider for a student
   award (Yes / No)?

Yes

Would you like to
 submit a short paper
 for the Conference
 Proceedings (Yes / No)?

Yes

Primary author: Mr YALISI, Brian (CSIR, UKZN)

Co-authors: Prof. FORBES, Andrew (CSIR); Dr RORO, Kittessa (CSIR); Mr TILE, Ngcali (CSIR,UKZN); Dr ROBERTS, Ted (CSIR)

Presenter: Mr YALISI, Brian (CSIR, UKZN)

Session Classification: CMPMS1

Track Classification: Track A - Condensed Matter Physics and Material Science