INDRANIL LAHIRI

PhD Scholar

Department of Mechanical & Materials Engineering

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Education

- Fall 2008, joined PhD, Dept. of Mechanical & Materials Engineering, Florida University, Miami, Florida
- February, 2007, submitted PhD thesis to Dept. of Materials & Metallurgical Engineering, Indian Institute of Technology (IIT) Kanpur, India (CPI 9.44/10.00)
- May, 2000, M.Tech., Dept. of Materials & Metallurgical Engineering, Indian Institute of Technology (IIT) Kanpur, India (CPI 8.56/10.00)
- July, 1998, B.E., Dept. of Metallurgy, Bengal Engineering College, India (79.37 %)

Honours & Achievements

- Reviewer for
  - Bulletin of Materials Science
  - Journal of Materials Processing Technology
- Ranked 2nd in a class of 36 in B.E.
- National Merit Scholarship (India) holder for Secondary and Higher Secondary education

Work Experience

- Organization – Non Ferrous Materials Technology Development Centre, Hyderabad, India
- Period – May, 2000 to June, 2007 (Duration - 7 years and 2 months)

- Position – Senior Scientist
- Fields of work –
  - Functionally gradient materials, Mechanical alloying, Powder metallurgy,
  - X-ray diffraction, line profile analysis, SEM, AFM
  - Materials testing and characterization, destructive and non-destructive testing, microscopy, image analysis,
  - Alloy, process and product development, thermo-mechanical processing,
  - Processing and characterization of Cu and Cu-alloys, Ag alloys, Ti alloys,
  - Project management (principal coordinator of a project equivalent to US$ 1 million)

Leadership Activities (in work)

1. In-charge of Materials Testing Lab for 5 years.
2. In-charge of "Nano-materials by mechanical alloying" group.
3. Principal co-ordinator for "Alloy melting, processing and testing" group.
4. Chief co-ordinator for many sponsored projects from ISRO, BEL, BHEL, Indian Navy etc.
5. Supervised two B.Tech dissertation (Students from MGIT, Hyderabad, India) and one M.Tech dissertation (Student from NIT, Warangal, India)

Teaching Role

- Worked as teaching assistant in IIT Kanpur in courses like Engineering Metallurgy, Phase Transformation in Materials.

Research Interests

- Carbon Nanotubes
- Functionally gradient materials
- Mechanical alloying, Powder metallurgy
- Superplasticity, Deformation processing of metals and alloys

- Structure-property correlation, materials characterization by XRD, SEM, AFM

Publications

1. Application of mechano-chemical synthesis for protective coating on steel grinding media prior to ball milling of copper, **Indranil Lahiri**, K.Balasubramanian, **, Bulletin of Materials Science**, Vol. 30, No. 2, April 2007, pp. 157-61.
2. The knoop hardness yield locus of Ti-24Al-11Nb alloy, Satyam Suwas, **I.Lahiri,** R.K.Ray, S.Bhargava, **Materials Letters**, Vol. 57,No. 21, July 2003, pp. 3251-56.
3. Effect of prior β-processing on superplasticity of (α+β) thermomechanically treated Ti-6Al-4V alloy, **Indranil Lahiri,** Debrupa Lahiri (Mondal), S.Bhargava, **Materials and Manufacturing Processes**, Vol. 18, No. 4, 2003, pp. 621-35 (2 citations).
4. Superplasticity in titanium alloys", **Indranil Lahiri**, S.Bhargava, **Titanium**, Vol. 5, No. 2, May, 2000, pp. 11-21.
5. Five more papers are under review in different peer-reviewed journals.

Dissertations

1. Ph.D (IIT Kanpur, India)

   Development of Functionally Gradient Cu-Cr Materials
2. M.Tech (IIT Kanpur, India)

   Effect of β Processing during Thermo-mechanical Treatment of Ti-6Al-4V alloy on its Grain refinement and Superplastic Behaviour
3. B.E. (Bengal Engineering College, India)

   Effect of thermo-mechanical treatment on low carbon manganese micro alloyed dual phase steel

Personal Information

Date of birth – 2nd August, 1975

Marital status – Married

Information updated on 15th January, 2008