

## **Curriculum Vitae**

**Name :** Dr. Poulami Maji

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**Present position:** Assistant Professor

### **Education qualification**

Ph.D Met. & Mat. Engg. (IIT Kharagpur)

M.Tech. Mat. & Met. Engg. (IIT Kanpur)

B. E. Metallurgy (Jadavpur University)

**PhD Thesis Topic:** *“Structure-property relationships in Nb-Si-Cr and Nb-Si-Ti Alloys”*

**M.Tech Thesis Title:** *“Preparation of Cu-W composite by Powder Metallurgy route, and it’s tribological behavior”*

**B. E Thesis Title:** *“Recovery of vanadium from titani ferrous magnetite of eastern region of India”*

### **Presentation**

(1) Poulami. Maji, K. Neelima, R. Mitra, and K. K. Ray, “Microstructure, Mechanical Properties and Oxidation behavior of Cast Nb-Si-Ti alloys”, The 46th NMD and the 62nd ATM of IIM, Greater Noida, Delhi, India November 14 - 16, 2008.

(2) S. K. Jha, P. Maji, A. Verma, , and K. K. Ray, “Tempering and wear behaviour of high manganese forged air cooled steel, The 46th NMD and the 62nd ATM of IIM, Greater Noida, Delhi, India November 14 - 16, 2008.

(3) P. Maji, A. Das, A. Verma and K. K. Ray, “Effect of bainite tempering on the mechanical properties of a high strength steel”, The 47th NMD and the 63rd ATM of IIM, Science City ,Kolkata, India, November 14 - 16, 2009.

(4) Poulami Maji, K. Neelima, R. Mitra, and K. K. Ray, “Effect of third element on microstructures and mechanical properties of ternary Niobium-Silicide-based composites”, The 48th NMD and the 64th ATM of IIM, National Science Seminar Complex, Indian Institute of Science, Bangalore, India, November 14 - 16, 2010.

(5) Poulami Maji, R. Mitra, and K. K. Ray, “Effect of Cr and Si on evolution of microstructures in ternary Niobium-Silicide-based composites”, The 49th NMD and the 65th ATM of IIM, DMRL, Hyderabad, India, November 14 - 16, 2011.

(6) Poulami Maji, R. Mitra, and K. K. Ray “Effect of Ti and Cr on the evolution of microstructures in ternary Niobium-Silicide-based composites”, Advances in Materials and Materials Processing (ICAMMP-2011) IIT Kharagpur, December 19-20, 2011.

(7) Poulami Maji, R. Mitra, and K. K. Ray, “Effect of Ti on microstructures and fracture resistance of Nb based institu composites”, The 51th NMD and the 67th ATM of IIM, Banaras Hindu University, Varanasi, India, November 12 - 14, 2013.

(8) Poulami Maji, R. Mitra, and K. K. Ray, “Effect of Cr on the evolution of microstrutres in as cast Nb rich Nb-Si-Cr ternary alloys”, The 52th National Metallurgist Day (NMD) and the

68th Annual Technical Meeting (ATM) of Indian Institute of Metals, College of engineering Pune, Maharashtra, India, November 12 - 14, 2014.

### **Publications**

(1) Poulami Maji, Bikramjit Basu, and R.K. Dube, "Enhancement of wear resistance of copper with tungsten addition (< 20 wt. %) by powder metallurgy route", Journal of Tribology, 131[4], 0416021, 2009

(2) Poulami Maji, Rahul Mitra, K. K. Ray, "Effect of Cr on the evolution of microstructures in as-cast ternary niobium-silicide-based composites", Intermetallic, 85, 34-47, 2017.

### **Teaching Experience**

Total 2.5+ years of teaching experience at NIT Jamshedpur

### **Laboratory courses conducted**

- i) Metallography (U.G.)
- ii) Heat treatment laboratory (U.G.)
- iii) X-Ray diffraction laboratory (U.G.)

### **Courses taught**

- i) Characterization of Materials (P.G.)
- ii) Fracture, Fatigue and Failure analysis (U.G.)
- iii) Phase Transformation (U.G.)
- iv) Principles of physical Metallurgy (U.G.)
- v) Inspection and quality control of castings (P.G.)
- vi) X-Ray diffraction and electron microscope (U.G.)

### **Administrative Responsibilities**

- 1 Faculty Advisor (M.Tech/Ph.D)
- 2 Assistant warden of girls hostel