

### **Rudra Gnawali**

76040 Del Paso street , apt # 240, Euless, TX Phone number 2393319453, [rgnawali@memphis.edu](mailto:rgnawali@memphis.edu) or [gyawali.rudra@gmail.com](mailto:gyawali.rudra@gmail.com)

### **EDUCATION**

#### **M.S in Physics (Material Science)**

*University of Memphis, TN, USA*

Jan 2012 – Dec-2013

#### **M.Sc in Physics**

*Banaras Hindu University, (BHU), India*

2007 - 2009

#### **B.Sc in Physics**

*Tribhuvan University Kathmandu, Nepal.*

2003 - 2006

### **WORK EXPERIENCE**

- **Graduate teaching assistant and Research assistant** Jan 2012 – Dec-2013  
*University of Memphis, TN, Supervised by Dr. M. Shah Jahan*
- **Assistant Lecturer** Aug 2009 - Dec 2011  
*Patan Multiple Campus, Tribhuvan University, Nepal*  
*- Taught Statistical Mechanics to graduate students.*
- **Physics Lecturer** Aug 2009 - Dec 2011  
*Golden Gate International College, Kathmandu, Nepal*  
*-Taught Basic Physics : Text Physics by Resnick , Halliday & Karne (Vol I & II)*
- **Assistant lecturer** June 2009 - Oct 2011  
*St. Xavier College Maitighar, Kathmandu, Nepal*  
*- Taught Bio medical Physics to graduate students*
- **Lab Co-ordinator** Jan 2012 – Dec 2013  
*Material lab co-ordinator ( Handling instruments ESR, FTIR,TSL, UV-VIS and NIR, XRD,VSM, AFM) – University of Memphis, TN, U.S.A.*

### **CONFERENCES AND PRESENTATIONS**

- Attended a two day seminar on “New trends of research in physics” at Banaras Hindu University (BHU), India in 2007.
- Participated at symposium on spectroscopic studies, BHU, India in 2008.
- Attended international conference on “Disorder, complexity and biology II” (DISCOMB), January 9-11, 2009, India.
- Presented poster on topic “Reentrant phase transition on ferroelectric liquid crystal” at (DISCOMB)
- Participated in an International conference on “Frontier’s of physics” (ICFP), June 2009, Kathmandu, Nepal.

- Attended a meeting on “Soft matter physics” March, 2010 at Jawaharlal Nehru University (JNU), India.
- Attended a workshop at Amrit science campus, Kathmandu, 2011.

### **Recent Activities on Research**

1. **“Thermoluminescence in UV and X-Irradiated PEEK”** (Accepted)  
SOCIETY FOR BIOMATERIALS MEETING (9-13 April , 2013), Boston , MA
2. **“ Detection of thermally-stimulated luminescence in polyetheretherketone (PEEK)”**  
(Accepted)  
FIRST INTERNATIONAL PEEK MEETING, PA (25- 26 April, 2013)
3. **“Effects of irradiation on optical and thermoluminescence properties of medical-grade polycarbonate urethane ( PCU )”**  
(Abstract submitted for Society for Biomaterials meeting)
4. **“Effects of irradiation on optical and thermoluminescence properties of medical-grade polycarbonate urethane ( PCU )”**  
(Abstract submitted for Society for Biomaterials meeting)
5. **“ESR and FTIR study on medical grade (PCU)”**, Kathmandu University Journals, Nepal.  
(Under review)
6. **“Radiation effects on medical grade Polycarbonate Urethane (PCU)”** published on  
<https://umwa.memphis.edu/etd/> (Author: Gnawali Rudra)
7. **“X-irradiated PEEK: Thermoluminescence observations with DSC correlation”**  
(Under review)
8. **“X ray- and UV-induced Free Radicals in Polycarbonate Urethane (PCU)”**  
(Under review)

### **ACHIEVEMENTS**

- Received an award of Rs. 50,000 (\$700) from district education foundation government of Nepal for my high score in general knowledge competition at district level in 1998.
- Received a grant of Rs. 60,000 (\$800) for “Training in Medical transcriptionist” from the Ministry of Education, Government of Nepal in 2002.
- Received a grant under graduate full fellowship for three years Bachelor in science from Tribhuvan university, Kathmandu in 2003.
- Received an award of “Graduate Fellowship” from Indian embassy Kathmandu, Nepal in 2007.
- Teaching and Research assistantship from The University of Memphis, TN in Jan 2012 - Present.

### **PROFESSIONAL TRAINING**

- **Software engineering** 2002 - 2003  
*College of software Engineering Kathmandu (Affiliated by MICROSOFT CO, USA)*

- **Medical transcriptionist (3 month course)** 2002  
*Lord Buddha education foundation, Maitidevi, Kathmandu, Nepal*

## **SKILLS**

- FORTAN 77/90 ,Visual C++ , Matlab
- Database management (SQL) and web page designing