Purnima Chakravarty

PhD Scholar
Savaria Institute of Technology
Faculty of Science, Eötvös Loránd University
Károlyi Gáspár tér 4, Szombathely, H-9700, Hungary, Office +36-94/504-445
Mail: pc@inf.elte.hu

1. Profile

At present, working on investigation of crystallographic texture evolution of certain Aluminum alloys during recrystallization by various analytical techniques such as orientation imaging microscopy, indentation techniques and investigation of mechanical properties, which will enable the modeling of plastic anisotropy in the investigated alloys.

2. Education

- **2014-2016 M.Sc. in Physics**
  North Eastern Regional Institute of Science and Technology
  Arunachal Pradesh, India
- **2011-2014 B.Sc. (Hons/Major) Physics**
  (Pass course-Mathematics and Chemistry)
  Dibrugarh University, Assam, India

3. Professional Career

- PhD Scholar – Department of Material Physics, Eötvös Loránd University (Sept 2019 – Present), Szombathely, Hungary
- STEM lab trainer- ENTECRES Lab Pvt. Ltd. (June 2018- July 2019), Bangalore, India
- Trainer (physics), Brilliant Academy (August 2017 – May2017) , Bangalore, India

- Analyst (physics data indexing and patent screening), Molecular Connections (January 2017- July 2017) Bangalore, India
- Trainer (physics), Paathshala Tutorials (November 2016 – January 2017) Bangalore, India
- Trainer (Physics), (May 2014 – July 2014), Digboi Oil Valley School, Digboi, India

4. Research interests

- Investigation and Modification of crystallographic texture of FCC metal alloys and thereby to analyze their mechanical properties w.r.t behavior of texture.
- Investigation of practical use of liquid crystalline / liquid crystal elastomer substance (by modifying their properties) on the basis of their physical properties including phase transition, chirality and different structural properties.

5. Honours, Awards and Fellowships

- **"** Anundoram Borooah Award" – State Government of Assam – 2007
- **"** Rubi Boruah Khaund Memorial Award" – Assam Sahitya Sobha (Digboi) - 2007
- Felicitation by Assam Sahitya Sobha (Jagun branch)- year 2007
- Felicitation by National Student's Union of India (Jagun mondal comitee) -2007
- Felicitation by Digboi College – Dibrugarh University 39th position in physics- 2014
- Winner of Assay writing, Poem writing, English poem recitation and painting competition – 46th Annual college week celebration- Digboi College- 2013

6. Workshops and seminars attended/participated

1. Attended UGC sponsored national seminar on "Recent trends in mathematics and its applications"- Diboi College (Assam) 2013

2. Attended "A discussion on Higgs Boson" – Digboi College (Assam) 2013

3. Attended Workshop on Stress Management – Digboi College (Assam) 2014

4. Seminars presented as parts of course work during M.Sc. and B.Sc. classes, few of them are:

- Physics of eye anatomy
- Entropy of universe
- Utilities of Bragg's Diffraction law
- Prospective of photoelectric effect
- Working of Michelson interferometer
- Application of KVL on signal chopper circuits
- Presentation on throat cancer (biophysics)
- Presentation on Protein mutation (biophysics)

7. Short-term courses attended

- Junior Diploma in classical painting- Ranbindra Bharati University, India, 2002
- Diploma in computer application and maintenance, duration 6 months– year 2012
- Diploma in Data Analysis using statistical tools, duration – 5months – 2018- Nikhil Analytics. India

8. Other Skills

- **IT:** Applications: Microsoft Office Suite, Tableau, Google Chrome
  Programming: R- language, SAS- Statistical Analysis System, Python (basic), SQL

  Languages: English: B2

  Assamese, Bengali, Hindi : C2 (native)

  Nepali : B2
- **Driving**: Full, clean driving license.

9. Academic Projects

- **P.G. (M.Sc.) Project**
  Title: Synthesis and characterization of Smectogenic liquid crastal 8O.5

  Abstract: In this project the no.m compound (4-n-octyloxybenzylidene)4′-n-pentyl aniline 8O.5 is synthesized and characterized via Differential scanning calorimetry and polarizing thermal microscopy to identify different liquid crystal phases exhibited by the compound, along with their transition temperatures. The project work also includes the temperature dependent dielectric study of the sample, from which we

obtain dielectric anisotropy for the material under experiment as well dielectric loss and ionic conductivity variation with temperature, can be plotted for it.

12. Personal Profile

Name:	Ms. Purnima Chakravarty
Father's Name:	Randhir Chakravarty
Hobbies:	Reading Books ,Cycling, Painting, Writing articles in regional language and Taking part in social service
Permanent address:	Jagun Bazar, P.O- jagun, P.S- lekhapani, pin-786188 Dist- Tinsukia (Assam) (India)
Signature: