Short Bio-data

Name: Dr. Sandhya Rao

Designation: Senior Principal Scientist

Division: ACD

Area of Expertise: Polymer composites processing, characterization & testing, Shape Memory Polymers, Rapid & Energy-efficient composites processing, Radome resins

Specialisation: Microwave assisted rapid curing of polymer composites; Smart Shape memory polymers for structural applications; Characterization of polymer matrices & composites for Radome applications

Projects as Principal Investigator: ARDB Sponsored projects: 02; CSIR Sponsored projects: 02; DST Sponsored projects: 01; ADA Sponsored projects:02

Subject area willing to guide the student:

Chemistry / Mechanical / Chemical Engineering / Polymer Science & Engineering /Nanocomposites /

R& D Profile

- **Two GRANTED Indian patents** related to:
  (1) Microwave assisted curing of polymer composites (2015) &
  (2) Recoverable deformations in shape memory polymers (2018)
- **One Book Chapter on Shape Memory Polymers**
- **15 National & International Journal papers**
- **~ 30 Conference Papers**

Awards & Recognition

- **Best Innovation Award (Team award) 2021** (CSIR-NAL Foundation Day)
- **Best woman scientist: 2015** (CSIR-NAL Foundation Day)
- **Award for Excellence in Research: Shape memory polymers for structural applications: 2014** (Team Leader, CSIR-NAL Foundation Day)
- **Secretary of (i) ISAMPE, Bangalore Chapter and (ii) Indian Carbon Society Bangalore Chapter**
- **Invited lectures** given at national / international (SMART'11, Saarbrucken, Germany) conferences in niche areas of research related to SMPs and Microwave processing
- **Chief Editor, KANAADA,** Annual Science Journal in Kannada language published by Kannada Samskritika Sangha ® , CSIR-NAL