

## 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

**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:01

**Subject area willing to guide the student:**

**Aero / Chemistry** / Computer Science / Electronics / Electrical / Mathematics / **Mechanical** / Physics / **Chemical Engineering / Polymer Science & Engineering /Nanocomposites** / etc.,

### 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