

Sastry S. Indrakanti, PhD

Head and Associate Professor (2016-till date),
Coordinator, UGC and other Apex bodies
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Curriculum Vitae

EDUCATION

- 1994** **Ph D** in Metallurgical Engineering and Materials Science
Indian Institute of Technology (IIT), Bombay, India.
- 1987** **M.Tech** in Metallurgical Engineering with Materials Technology specialization
Indian Institute of Technology (IIT), Bombay, India. (8.16/10)
- 1985** **BE** in Metallurgical Engineering (73.9%)
Regional Engineering College, Burdwan University, Durgapur, India.

EXPERIENCE in USA (1996-2005) and thereafter in India

More than 25 years of post PhD experience covering a broad range in the areas of academics and research as a teaching faculty, head of the institution, individual researcher, Promoter of collaborative research, Mentor, supervisor, Program organizer and a resource person in the subject of Materials Science and Engineering in India and USA.

- **University of California, San Diego (UCSD)** in various capacities as post doctoral researcher and staff researcher between 1996 and 2004 in AMES, MAE and FERP. With funding from NSF, DARPA, DOE, ONR -MURI, Micro-PTCOE, J. von Liebig Center for Entrepreneurism and Technology Advancement and UCSD. Actively collaborated with various scientists from LANL, UDRI, UCB, SDSU, PPPL, UCSD-CMRR, UCSD-Physics and UCSD-Bio Engg.
- **San Diego State University (SDSU)** in the department of Mechanical Engineering for two semesters during 2000-2001, as Guest Lecturer and taught Mechanical Behavior of Materials (for MS) and Materials Engineering for BS.
- **Space Micro, San Diego** as a Consultant between 2004 and 2005 and submitted a proposal for DOD-SBIR on Development of high strength alternative materials for beryllium copper alloys as replacement parts in military aircraft (N005-009) based on P/M approaches.
- **National Institute of Technology (NIT) Warangal** in the capacity of a Visiting Faculty member for 4 years (2006-2008 and 2010-2012) in the departments of Metallurgical and Materials Engineering and Mechanical Engineering.
- **Principal and Professor of Mechanical Engineering** of Christu Jyothi Institute of Technology and Science, JNTU affiliated College during June 2008 and 2009

Papers published: 42

Patent applications: 1

Major contributions: Consolidation of bulk Magnesium Diboride Superconductors, Hot Isostatic (HIP) Consolidation of ballistic targets for high gradient composite armor based on Ti-6Al-4V, Pressure assisted (HIP) crystallization of Mn-Al-C thin films

Contributions in Titanium based Composite Armor by HIPing, High Pressure bonding of Semiconductor Wafers, Consolidation and characterization of superconductors (MgB₂, YBCO), coatings for biological and magnetic applications and Synthesis of Phosphors by combustion and rapid metathesis reactions and their characterization

Organization of Conferences and Workshop

- Organized National workshop on Powder Metallurgy and Advanced Ceramics, September 2018 at RGUKT Basar
- Jointly Organized National Conference on Advances in Manufacturing with PVP Siddartha College, Vijayawada Feb 2019
- Session Chair at the International conference (ICAM 2019) at NIT Warangal
- Collaborated in MMED on sponsored research projects by NRB, Govt. of India (on Testing and Evaluation of Superni C-276 for marine fastener applications) and by ISRO, Govt. of India (on Titanium based alloys for fastener applications).

Technical workshops and Seminars

- As a coordinator, Organized two student workshops (2011, 2012)
- As a Co-coordinator organized a Two day workshop on composite Materials, 2008
- Member of Organizing committee for the National Seminar on Advanced Materials 2007
- As a Faculty Advisor for student activities, arranged several technical lectures from time to time
- As a faculty member, Advised students in arranging the student competitions from the department as part of Technozion, annual technical event of NIT Warangal for three years.

Served as Faculty Advisor for SanDiego Chapter of ACerS and IMAPS between 1998-2004

- Founded and Served as Faculty Advisor for the student chapter of IMAPS at UC San Diego
- Organized lectures for the benefit of students in the areas of Electronics Packaging at UCSD
- Served as Session chairman during SoCal 2000 and 2004

Served as Faculty for ASM International, San Diego Chapter's Fall Education Series between 1998 and 2005

Invited Member of Internal committees

- To deliberate and suggest plan of proposed New building for the Metallurgical and Materials Engineering department
- To guide and frame course content for the New Masters Program of Materials Technology in MMED in the Year 2011
- To Reorganize Course for B.Tech and M.Tech (industrial Metallurgy) Programs 2012
- To review the Classes
- To Advise on modernization of laboratory facilities.
- To Discuss on the development of Center for Advanced Materials of NIT W

Professional Affiliations and Society Volunteerism

- American Ceramic Society
 - Student Member between 1989 and 1985 Since 1996
 - Member from 1996
 - Education Chair of San Diego Chapters of IMAPS and ACerS
 - Judge, Student Poster Contest, 106th Annual meeting, 2004
 - Reviewer of Papers, Ceramic Transactions Vol. 85
 - Participant / Speaker of Annual meetings, 1997, 1999, 2002, 2004
 - Speaker of PACRIM meeting, Seattle, 1995
 - Subscriber of hard copy of Journal (1989 – 2004) for personal use
- ASM International
 - Member since 1997

- Faculty for the Fall Education Series, ASM San Diego Chapters 1998, 1999, 2002
Covering Wear Failures, Heat Treatment and Mechanical Properties
- Indian Ceramic Society
 - Member since 1994
 - Technical presentations at ICAC, Bombay 1990, Workshop at Hyderabad Chapter, 1990
- Indian Institute of Metals
 - Executive Member of IIM Hyderabad Chapter since 2019
 - Member Since 2010
 - Invited Presentation as part of Golden Jubilee Celebrations of Bombay Metallurgical Society, IIM Bombay Chapter 1995
 - Faculty Advisor, NIT Warangal Student Chapter (2010-2012)
 - Organized Guest Lectures by experts from National Laboratories for students of NIT Warangal
 - Organized a lecture cum demonstration workshop for 40 students from other colleges on “Environmental Degradation of Metals and Prevention” as part of Student Chapter of NIT Warangal, 2011
 - Organized a lecture cum demonstration workshop for 120 students from other colleges on “Powder Processing Technologies” Anubodhan’12 as part of Student Chapter of NIT Warangal, 2011
 - Arranged an Industrial tour to Visakhapatnam Steel Plant for students
 - Local Organizing Member of Annual Meeting and NMD 2011 at Hyderabad
 - Coordinated the Technical presentations and acted as Vice Chair for a session.
 - Facilitated Student participation and experience for students at NMD 2011
- Powder Metallurgy Association of India
 - Governing Council Member of PMAI since 2018
 - Member of the Editorial Board PMAI Transactions since 2016
 - Member since 1993
 - Member of the Editorial Board of PMAI Publications
 - Member of the Organizing Committee of PMSC 2013, 2014
 - Educator during PM Short Courses 2013, 2014
 - Invited speaker at Annual Technical Meeting of PMAI 2006, Hyderabad
 - Judge for Poster Presentations of ATM 2008, 2010
 - Technical Presentations in the Years 1987, 1990, 1993, 1994, 2006 and 2010, 2015
 - Reviewer of Transactions of PMAI
 - Chairman Technical Programs for the ATM and International Conference 2013, 2014, 2015 and 2016
- International Microelectronics and Packaging Society (IMAPS)
 - Member between 1999 - 2006
 - Education Chair of San Diego Chapters (1999 - 2005)
 - Promoter and Faculty Advisor of IMAPS student chapter at UCSD
 - Executive member of IMAPS events of Southern California (SOCAL) Chapters, SOCAL-2000 and SOCAL-2003
 - Chairman, Student Programs, (Member Advisor to Students and Organizer for Convention) Annual Meeting of IMAPS, Long Beach (November 2004)