

## Abhay Sharma, Ph.D.

Associate Professor

Mechanical and Aerospace Engineering Department,  
Indian Institute of Technology, Hyderabad,  
Kandi Campus, Sangareddy, Telangana, 502 285, INDIA  
Phone: +9123016091, Mobile: +91 9494604429  
Email: abhay@iith.ac.in, adarsh23081013@gmail.com

### EDUCATION

- 2008 Ph.D. in Welding Engineering, Indian Institute of Technology Roorkee, India  
Thesis: Process modeling of twin-wire submerged arc welding.  
Distinction: National Doctoral Fellowship, Government of India.
- 2003 M.Tech. in Welding Engineering, Indian Institute of Technology Roorkee, India  
Dissertation: 3D heat transfer modeling of twin-wire welding process.  
Distinction: 1<sup>st</sup> position (9.58/10.00)
- 2000 B.E. in Mechanical Engineering, College of Technology and Engineering, Udaipur, India  
Distinction: Third University Position

### EXPERIENCE

**2015-present** Associate Professor, Mechanical and Aerospace Engineering, Indian Institute of Technology, Hyderabad, India

**2010 - 2015** Assistant Professor, Mechanical and Aerospace Engineering, Indian Institute of Technology, Hyderabad, India

Lead contributor in bachelor's and master's curriculum development as a founding faculty in manufacturing; introduced nine new courses and maintained good evaluation score; developed teaching and research facilities of USD 1 million for robotic welding, friction stirring, material characterisation, CNC machining, fabrication, measurement and inspection etc.

Established welding research facilities, trained 15 students in welding research; recognised as joint research office of Japan Welding Research Institute (JWRI) in India; seven collaborative research projects (completed /ongoing)

Coordinator (2011-2017) of national level engineering examination in surrounding region (50,000 candidates at 40 centres each year); Lead contributor in campus development – responsible for coordination of architectural design and facility planning of two major buildings; Coordinator of a major national symposium and five international events

**2007 - 2010** Assistant Professor Pandit Deendayal Petroleum University, Gandhinagar, India  
Developed fabrication technology laboratory, developed new courses on Drilling Engineering and Fabrication Technology, successfully handled large classes (>200 students) from freshman to junior level

**2004 - 2007** Research Scholar under National Doctoral Fellowship program, Welding Research Laboratory, Indian Institute of Technology Roorkee

Coordinated sponsored research project, guided three master's students

**2003 - 2004** Executive Member Production Engineering, Fabrication section, TVS Motors, Hosur, India

Planned, procured, coordinated installation and commissioning, and proved multi-robot multi station welding lines for fabrication of 3000 two-wheeler frames per day

**2001- 2003** Graduate Research/Teaching Assistant, Welding Research Laboratory, Indian Institute of Technology Roorkee

**2000 - 2001** Production Engineer, Cold Rolling Operations, Bhushan Steels, Chandigarh, India

### **CURRENT RESEARCH**

Wire arc additive manufacturing, Robotic arc welding with multiple wires, Friction stir welding and processing of metallic and nonmetallic materials, Magnetic pulse welding of similar and dissimilar materials, Sustainable Manufacturing

### **TEACHING INTERESTS**

Manufacturing Processes, Welding Engineering, Process Modeling and Optimization, Computational Intelligence

### **PUBLICATIONS**

#### **Book Chapter**

2. Angshuman Kapil, Abhay Sharma, 2015, Coupled Electromagnetic Structural Simulation of Magnetic Pulse Welding, *Advances in Material Forming and Joining*, Springer New Delhi, 2015, 255-272.
1. Zhao F., Sharma A.: Environmentally friendly machining. In: Nee A. (Ed.) *Handbook of Manufacturing Engineering and Technology*, Springer-Verlag Berlin Heidelberg, 2014, 1127-1154.

#### **Journals**

33. Abhay Sharma, Bandari Vijendra, Kazuhiro Ito, Kazuyuki Kohama, M. Ramji, B.V. Himasekhar Sai, (2017), A new process for design and manufacture of tailor-made functionally graded composites through friction stir additive manufacturing, *Journal of Manufacturing Processes*, 26, 122–130
32. Syed Quadir Moinuddina, Angshuman Kapil, Kazuyuki Kohama, Abhay Sharma, Kazuhiro Ito, Manabu Tanaka, (2016), On process-property-structure relationship in anti-phase synchronised twin-wire GMAW, *Science and Technology of Welding and Joining*, Vol. 21(6), 452-459

31. M J Jose, S Surya Kumar, Abhay Sharma, (2016). Vibration assisted welding processes and their influence on quality of welds, *Science and Technology of Welding and Joining*, 21 (4), 243-258.
30. Nilanjan Banerjee, Abhay Sharma, (2016) Development of a friction model and its application in finite element analysis of minimum quantity lubrication machining of Ti-6Al-4V, *Journal of Material Processing Technology*, 238, 181–194
29. Abhay Sharma, D K Verma, Navneet Arora, (2016) A scheme of comprehensive assessment of weld bead geometry, *International Journal and Advanced Manufacturing Technology*, 82, (9), 1507–1515
28. Abhay Sharma, Multi-objective Meta-heuristic Optimization of Mechanical Properties: A comparative Study on Single- and Twin-wire Welded Joints, *International Journal of Manufacturing Research* ,11 (4), 374-393
27. Syed Quadir Moinuddin, Abhay Sharma. (2015) Arc stability and its impact on weld properties and microstructure in anti-phase synchronized synergic-pulsed twin-wire gas metal arc welding, *Materials & Design*, 67, 293-302.
26. Abhay Sharma, Navneet Arora, Bhanu K. Mishra. (2015) Mathematical model of bead profile in high deposition welds, *Journal of Materials Processing Technology*, 220, 65-75.
25. Angshuman Kapil, Abhay Sharma. (2015) Magnetic Pulse Welding: An efficient and environmentally friendly multi-material joining technique, *Journal of Cleaner Production*, 100, 35-58.
24. Navinkumar B Dahiwal, Angshuman Kapil, Abhay Sharma. (2015) An integrated model for assessment of electromagnetic force field due to arc welding, *Science and Technology of Welding and Joining*, 20 (7), 563-570
23. Bandari Vijendra, Abhay Sharma. (2015), Induction Heated Tool Assisted Friction Stir welding (i-FSW): A Novel Hybrid Process for Joining of Thermoplastics, *Journal of Manufacturing Processes*, 20, 234-244.
22. Nilanjan Banerjee, Abhay Sharma, (2015) Improving Environmental Friendliness through Multi-point Minimum Quantity Lubrication (MMQL): Machining of Ti-6Al-4V as a case in point, *Journal of Engineering Manufacture*, IMECHE Part B (in press)
21. Abhay Sharma, Fu Zhao, John W Sutherland, (2015)Econological Scheduling of a Manufacturing Enterprise Operating Under a Time-of-Use Electricity Tariff, *Journal of Cleaner Production*, 108( A), 256–270
20. Nilanjan Banerjee, Abhay Sharma. (2014) Identification of a friction model for minimum quantity lubrication machining, *Journal of Cleaner Production*, 83, 437-443.
19. Saranath K M, Abhay Sharma, Ramji M. (2014) Zone wise local characterization of welds using digital image correlation technique, *Optics and Lasers in Engineering*, 63, 30-42.

18. Bhoopati M. Kumar, Nitin J. Panaskar, Abhay Sharma. (2014) A fundamental investigation on rotating tool cold expansion: numerical and experimental perspectives, *International Journal of Advanced Manufacturing Technology*, 73(5-8), 1189-1200.
17. Nitin Panaskar, Abhay Sharma. (2014) Surface modification and nanocomposite layering of fastener-hole through friction- stir processing, *Material and Manufacturing Processes*, 29, 726-732.
16. Parag Bandyopadhyay, Abhay Sharma. (2011) Development of a new semi analytical model for prediction of bubble point pressure of crude oils, *Journal of Petroleum Science and Engineering*, 78:3-4, 2011,719-731.
15. Abhay Sharma, Navneet Arora, S. R. Gupta. (2011) Investigation into Arc Behavior during Twin-wire Submerged Arc Welding, *Materials and Manufacturing Processes*, 25, 8,873-879.
14. Abhay Sharma, Navneet Arora, Bhanu K. Mishra. (2010) Predictive Modelling and Sensitivity Analysis of Flux Consumption Rate in Twin-wire Submerged Arc Welding, *Journal of Manufacturing Technology Research*, 1(3-4), 99-116
13. Abhay Sharma, Ajay Kumar Chaudhary, Navneet Arora, Bhanu K. Mishra. (2009) Estimation of Heat Source Model Parameters for Twin-wire Submerged Arc Welding, *International Journal of Advanced Manufacturing Technology*, 45(11-12), 1096-1103.
12. Abhay Sharma, Navneet Arora, Bhanu K. Mishra. (2009) Statistical Modelling of Deposition Rate in Twin-wire Submerged Arc Welding, *Journal of Engineering Manufacture, IMECHE Part B*, 223(7), 851-863.
11. Abhay Sharma, Navneet Arora, Bhanu K. Mishra. (2008) A Practical Approach towards Mathematical Modeling of Deposition Rate during Twin-Wire Submerged Arc Welding, *International Journal of Advanced Manufacturing Technology*, 36 (5-6), 463-474.
10. Abhay Sharma, Navneet Arora, Bhanu K. Mishra. (2008) Mathematical Modeling of Flux Consumption during Twin-wire Welding, *International Journal of Advanced Manufacturing Technology*, 38, (11-12), 1114-1124.
09. Jigar Bhatia, J.P. Srivastava, Abhay Sharma, Jitendra S. Sangwai. (2014) Production performance of water alternate gas injection techniques for enhanced oil recovery: effect of WAG ratio, number of WAG cycles and the type of injection gas, *International Journal of Oil, Gas and Coal Technology*, 7,2, 132-151.
08. Abhay Sharma, Navneet Arora, Bhanu K. Mishra. (2007) Artificial Neural Network Modelling of Deposition Rate during Twin-Wire Welding, *Australasian Welding Journal*, 52 (Fourth Quarter), 39-48.
07. Nilanajan Banerjee, Abhay Sharma, (2015) Multi-point injection minimum quantity lubrication machining, *Material Engineering Forum*, Vols. 830-831 (2015) pp 108-111.
06. P Mastanaiah, Abhay Sharma G. Reddy, (2016) Dissimilar friction stir welds in AA2219-AA5083 aluminium alloys: Effect of process parameters on material inter-mixing, defect

- formation, and mechanical properties, *Transactions of Indian Institute of Metals*, Springer 69 (7), 1397-1415
05. Panaskar, Nitin J., and Abhay Sharma. (2016), Combined Cold Expansion and Friction Stir Processing of Fastener Holes in Aluminum Alloy Al-2014-T6. *Transactions of the Indian Institute of Metals* (2016): 1-8.
  04. Vivek Araya, Abhay Sharma, Navneet Arora. (2009) Enhancement in Mechanical Properties of Tailored Welded Blanks due to Pulsed TIG Welding, *Indian Welding Journal*, 42(4), 38-45.
  03. Abhay Sharma, Navneet Arora, Bhanu K. Mishra. (2008) Impact of process modelling on current direction of welding research and future targets, *Indian Welding Journal*, 41(4), 43-50.
  02. Abhay Sharma, Navneet Arora, Bhanu K. Mishra. (2007) Modified Mathematical Models for Melting Rate during Submerged Arc Welding, *Indian Welding Journal*, 40(4), 21-32.
  01. Dinesh Kumar, Abhay Sharma, Amit Kumar N Shukla. (2014) Mathematical modeling of managed pressure drilling, *Journal of Petroleum Engineering & Technology*, Vol 4, No 3, 9-17.

#### **Conferences Proceedings**

16. Abhay SHARMA, Jayprakash SHARMA, Kazuhiro ITO, Surya S KUMAR, Hajime YAMAMOTO, and Kazuyuki Kohama, Investigation on Cooling Strategies during Wire Arc Additive Layer Manufacturing, Visual-JW 2016, Osaka, October 17 -18, 2016
15. Jayaprakash Sharma Panchagnula, Surya Kumar Simhambhatla, Abhay Sharma, Thermal management in manufacture of thin-walled components produced by arc-based additive manufacturing, 10th International Conference on Trends in Welding Research in Tokyo, Japan, October 11 -14, 2016
14. Syed Quadir Moinuddin, Abhay Sharma, On Melting Efficiency in Anti-Phase Synchronized Twin-wire Gas Metal Arc Welding, 10th International Conference on Trends in Welding Research in Tokyo, Japan, October 11 -14, 2016
13. Nilanajan Banerjee, Abhay Sharma, Multi-point injection minimum quantity lubrication machining, International Conference on Advanced Materials and Manufacturing Processes for Strategic sectors, Indian Institute of Metals, Trivandrum, May 13-15, 2015
12. Angshuman Kapil, Abhay Sharma, A Parametric Study of the Tube Deformation during Electromagnetic Forming through a Coupled Magnetic-Structural Finite Element Model” (Paper No. B04), 5th National Conference, RAM-2015, SVNIT, Surat during 15-17<sup>th</sup>May, 2015
11. Angshuman Kapil, Abhay Sharma, Coupled Electromagnetic Structural Simulation of Magnetic Pulse Welding, Proceedings of the 5th International and 26th All India Manufacturing Technology, Design and Research Conference, AIMTDR 2014, Indian Institute of Technology Guwahati, ISBN: 978-8-19274-612-8,

10. Angshuman Kapil, Abhay Sharma, Weldability criteria in Magnetic pulse welding Process, Technical Presentation, International Symposium of Globalization in Joining Technology and Materials Science, Bangkok, Thailand 11/2014
9. Magnetic Pulse Welding, Proceedings of the Two day National workshop on Advanced welding Techniques, 11-12th September 2014, Guru Nanak institute of Technology, Hyderabad; 09/2014
8. Nitin Jayawant Panaskar and Abhay Sharma, On feasibility of friction stir processing of cylindrical hole, IJS-JW2013, International symposium on Friction Based Welding and Processing, JWRI, November 06-08, 2013,Osaka, 143-146
7. Nitin Panaskar, Bhupesh K Ram, Abhay Sharma, Joining of Nano-Composite using Friction Stir Welding, 1st National Conference on Micro and Nano Fabrication, January 21-23, 2013, CMTI Bangalore.
6. Abhay Sharma, Navneet Arora, Bhanu K. Mishra, 'Application of Computational Intelligence in Welding', RDFTME, NIT Hamirpur, 3- 5 December 2006, 281-291
5. Abhay Sharma, Prashant Chubachi and Navneet Arora, 'Application of Artificial Neural Networks for Predicting Weld Bead Geometry in Twin-wire Submerged Arc Welding', National Welding Seminar (NWS- 2005), The Indian Institute of Welding, Bhilai, December 15-17, 2005, 101-107.
4. Abhay Sharma, Dhaneskant Verma and Navneet Arora, Modeling and optimisation of Weld Quality of Pulsed TIG Welding by Aggregate Quality Index Method, First International and 22nd AIMTDR Conference, Indian Institute of Technology, Roorkee, 21-23 December, 2006, 515-520.
3. Abhay Sharma, Navneet Arora and S.R. Gupta, Simulation of effect of weld variables on thermal cycles during twin wire welding', Proc. of 7th International Conference on Trends in Welding Research, Pine Mountain, Georgia, USA, May 16-20, 2005,71-77.
2. Abhay Sharma, Navneet Arora and S.R. Gupta, Simulation of behaviors of leading and trailing arcs during submerged twin arc welding process, Proc. of IIW International Congress 2005, Mumbai, February 16-19, 2005, 11.
1. Abhay Sharma, Navneet Arora and S.R. Gupta, 'Three dimensional transient heat transfer modeling of submerged twin arc welding process', Proc. of 2nd International Conference, Welding and Joining 2005, Frontiers of Materials Joining, Israel, January 25-28, 2005, 222-230.

## RESEARCH GRANTS

- The melting phenomenon in waveform-controlled submerged arc welding, A joint project between Hitachi, Zosen, IIT Hyderabad, and Joining and Welding Research Institute (JWRI) Osaka University (60,00,000 JPY, 2016-2018)

- Thermal Management Approaches for Distortion Control in Metal Additive Manufacturing (15,000 USD, 2017-2018)
- Evaluation of machinability characteristics of Ti-6Al-4V Titanium alloy with conventional and eco-friendly cutting fluids, Aeronautical Research and Development Board (9,80,000 INR, 2016-2018)
- Simulation and experimental studies in dissimilar metal weld procedure for turbine casing applications Bharat Heavy Electricals Limited (17,00,000 INR, Approved)
- Machining of pure tungsten with improved productivity and quality, Defence Research and Development Laboratory (24,92,000 INR, 2015-2017)
- Development of magnetic pulse welding technology for joining dissimilar materials: stainless steel and aluminium alloys, Defence Research and Development Laboratory (9,76,000 INR, 2013-2015)
- Friction stir welding of thermoplastics, Department of Science and Technology (16,20,000 INR, 2012-2015)
- Friction stirring of cylindrical surfaces, Seed grant IITH (5,00,000 INR, 2011-2013)

#### COURSE EVALUATION

Course	Course title	Year	Role	Average score out of 5
ME5230	Design & Analysis of Welded Joints	2014, 2015, 2016	Founding Faculty, Developed syllabus for theory courses and facilities for lab courses	4.4
ME5720	Advance Material Joining Processes	2011, 2012, 2013		4.5
ME5220	Material Removal Processes	2011, 2012, 2013		4.7
ME5150	Computational Intelligence	2015, 2016		4.2
ME5140	Process Modelling & Optimization	2015, 2016		4.1
ME5431	Design & Manufacturing (Lab.)	2013, 2014, 2015, 2016		4.4
ME5971	Manufacturing (Lab.)	2012		5.0
ME5190	Manufacturing Processes	2014		4.1
ME3120	Machining and Metrology	2010,2011,2012		3.9
ME3010	Manufacturing Science - II	2013, 2014, 2015, 2016		4.0
ME 7100	Advance Topics in Mathematical Methods	2014, 2015, 2016	Co-instructor	-

- Teaching Excellence Award, IIT Hyderabad 2012

#### INTERNATIONAL COLLABORATIONS

- “The melting phenomenon in waveform-controlled submerged arc welding”, A joint project between Hitachi, Zosen, IIT Hyderabad, and Joining and Welding Research Institute (JWRI)

Osaka University (Coinvestigator – Prof. Manabu Tanaka, JWRI, Osaka University, Japan) (ongoing)

- “Studies on weld bead formation in vibration assisted welding” ( Coinvestigator - Prof. Kazuhiro Ito, JWRI, Osaka University, Japan (ongoing)
- “Modelling of residual stress in wire arc additive manufactured thin-wall components” ( Coinvestigator - Prof. Hidekazu Murakawa, JWRI, Osaka University, Japan (ongoing)
- “Microstructural characterisation of Additive manufacturing components”, (JIJREC 2016) (Completed)
- “Arc stability in Twin wire welding”, Sakura Science Program ( Coinvestigator – Prof. Manabu Tanaka and Prof. Kazuhiro Ito, JWRI, Osaka University, Japan) (Completed)
- “Econological scheduling of a manufacturing enterprise operating under a time-of-use electricity tariff”, IIT Hyderabad - Purdue University collaboration program, (Coinvestigators: Prof. Fu Zhao, Purdue University, USA) (completed)

## **RESEARCH GUIDANCE**

PhD :1( Awarded) + 2 ( Expected date of completion, September 2017)

M. Tech : 14 (Awarded) + 1(ongoing)

### **Ph.D**

Nialnjan Banerjee, Ecological Metal Cutting through Multi-point Metal Working Fluid Injection (Awarded)

1. Syed Quadir Moinuddin, Arc Stability of in Twin wire Gas metal Arc Welding, (Expected date of completion, September 2017)
2. P. Mastanaiha, Friction-stir welding of Dissimilar Alloys, (Expected date of completion, September2017)

### **M.Tech.**

1. Santhan Reddy, Thermal Modeling of Wire-arc additive manufacturing ( 2017)
2. Sanatan Choudhry, Mathematical modeling of bead profile in waveform Submerged arc welding, ( 2017)
3. Imran Khan, Modelling of temperature profiles for the plunge stage of friction stir welding process (2016)
4. Vinayak Matur, Heat Transfer Modelling of AC Waveform Submerged Arc Welding Process, (2016)
5. Angshuman Kapil, Magnetic pulse welding of similar and similar materials, (2015)
6. Bandari Vijendra, Induction Assisted Friction Stir welding (i-FSW) Process for Joining of Thermoplastics (2015)
7. Mritunjaya Kumar, Arc stability in Vibration Assisted Welding, (2015)
8. B.V. Himasekhar Sai, Development of Functionally Graded Material through Friction Stir Processing, (2014)



9. Saranath K.M. Zone Wise Local Characterization of Welds Using Digital Image Correlation: Uniform Stress and Virtual Fields Method (2014)\*
10. Motali Bhoopati Kumar, Rotating Tool Cold Expansion (2013)
11. Nitin J. Panaskar, A novel concept of combined cold expansion and surface processing of fastener holes using rotating tool (2013)
12. Menakshi Devi Parre, Heat transfer modelling in twin wire welding(2011)\*
13. Jlgar C Bhatia, Comparative Studies of Gas injection Methodology for Enhanced Oil Recovery, (2010)\*
14. Dinesh Kumar, Managed Pressure Drilling: Experimental and Modelling based investigation, (2010) \*

### **FELLOWSHIPS AND AWARDS**

- Best M.Tech. Thesis guidance Award by Indian Institute of Welding, 2016
- JWRI International Joint Research Collaborators (JIJReC), Award, Osaka University Japan, 2016
- Teaching Excellence Award, Indian Institute of Technology Hyderabad, 2012
- National Doctoral Fellowship AICTE, Gov. of India. 2004- 2007
- GATE Fellowship, Government of India, 2001-2003
- 3rd university position in order of merit B.E. (Mech.) 2000 Rajasthan Agriculture University, Bikaner
- Certificate of merit, Government of India, Recognition of the high position secured in the list of meritorious candidates 1992

### **SERVICES AND LEADERSHIP**

#### **Indian Institute of Technology, Hyderabad**

- Senate member, 2013-present
- Members senate committees
  - Course work and Grades' requirement in PhD program - guidelines
  - Declaration by PhD candidates – guidelines, consolidation of existing rules and practices
  - Initiation of All course M.Tech. program – guidelines, admission process and publicity
  - Admission of Foreign National Admissions in IIT Hyderabad — guidelines, admission process
- Member Library Committee, 2012-Present
- Coordinator, Graduate Aptitude Test in Engineering, IIT Hyderabad Operations, 2012-2017
- Chief Election Officer, Senate Faculty Representative, 2016
- Member, Campus Development Committee 2011-present

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\* Co-guided

- Coordinator, Annual i.school workshop 2012-present
- Coordinator, Coupled Internship Program with Osaka university , 2014-15, 2017
- Faculty-in-charge, Manufacturing Laboratory, 2010-2015
- Deputy-in-charge, Central Workshop, 2010-present
- Faculty Advisor, M. Tech. (Design and Manufacturing), 2014-present
- Deputy-preceding officer for Joint Entrance Exam Centre at IITH, 2011
- Member, Selection Committee, Lab staff 2015

#### **PDP University**

- Faculty -in-charge, Fabrication Technology Laboratory, 2007-2010
- Member: Selection committee, Lab staff (Engineering), 2009
- Chairman: Selection committee, Lab staff and Supervisor, 2009
- Member: Committed for Prevention of Unfair Means, 2009-2010
- Chairman, Students Sport Board, 2007-2009

#### **Organization of conferences/workshop/Symposium**

- **Co-Coordinator**, i.school workshop on Human-centered innovation on e-health in India, March 11-14 2017, co-organized by University of Tokyo and Indian Institute of Technology Hyderabad
- **Organising Member**, 6th Welding Research and Collaboration Colloquium, International Institute of Welding, 7-9 April 2016, Hyderabad, India
- **Co-Coordinator**, i.school workshop on Experience Design in India, 19-21 February, 2016, co-organized by University of Tokyo and Indian Institute of Technology Hyderabad
- **Co-Coordinator**, i.school workshop on Service Innovation in India, January 7-8, 2015, co-organized by University of Tokyo and Indian Institute of Technology Hyderabad
- **Co-Coordinator**, i.school workshop on Innovation on Service in India, January 7-8, 2014 , co-organized by University of Tokyo and Indian Institute of Technology Hyderabad
- **Co-Coordinator**, i.school workshop on Foresight India, 14-15 September 2012, co-organized by University of Tokyo and Indian Institute of Technology Hyderabad
- **Co-organized** JWRI-Indo Workshop 2013 on November 11, 2013 at Osaka university along with Welding Research Institute - Trichi and Joining and Welding Research Institute –Osaka University
- **Convener** , Symposium on National Frontiers of Engineering (NatFoE), an annual flagship event of Indian National Academy of Engineering (INAE), September 2-3, 2011
- **Coordinator** : A three day workshop on ‘CFD Applications in Energy Sector using ANSWER™ and PORFLOW™’ from March 12-14, 2009 at School of Petroleum Technology in collaboration with ACRI USA
- **Organizing member**: 1<sup>st</sup> International and 22<sup>nd</sup> All India Manufacturing Technology and Design Research Conference, Indian Institute of Technology, Roorkee, 21-23 December, 2006.

## **PROFESSIONAL ACTIVITIES**

- Member, Managing Committee, Indian Institute of Welding (Member Society of International Institute of Welding) Hyderabad branch
- Life Member, IIW
- Member, American Welding Society

### **Journals and Proceedings Reviewed for**

- Journal of Material Processing Technology
- Material and Design
- International Journal of Intelligent Manufacturing
- Science and Technology of Welding and Joining
- Metallurgical and Materials Transactions A
- Journal of Manufacturing Science and Engineering ASME
- Journal of Manufacturing Processes
- International Journal of Heat and Mass Transfer
- International Journal of Advanced Manufacturing Technology

### **Invited Speaker**

- On Cooling Strategies during Wire Arc Additive Layer Manufacturing Visual-JW 2016, Osaka University, Japan, October 17 -18, 2016
- Manufacturing Process Modeling and Optimization, BITS Pilani, Hyderabad campus, April 2016
- Guest Speaker, Faculty Development Program, Energy conscious multi-shop manufacturing grid scheduling using multi-criteria heuristic optimization, Sreenidhi Institute of Science and Technology, June 22,2015
- Guest Speaker, Some observations in Multiple-wire Welding and Magnetic pulse welding, Gurunank Institute of Technology, September 11, 2014
- Invited Speaker, Some observations in Twin-wire welding with dissimilar arcs, One Day Workshop on "Advances in Welding and Surface Engineering (AWSE)" organised by IIW Hyderabad, October 14,2016
- Design of Experiments and Optimization of Welding Processes , CEP on Joining of Advanced Materials, November, 18-22, 2013 at DMRL Hyderabad

**PERSONAL DATA**

**Address Home:** J 602, Aparna Cyber Commune  
Lingampalli, Hyderabad  
500 019, INDIA  
Phone: +9129802962

**Date of birth** 9<sup>th</sup> January 1977

**Marital status** Married