## Department of Mechanical Engineering Government of Engineering College Thrissur. <u>Bio-Data</u>

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2.	Designation	:Associate Professor
3.	Date of birth:02.05.1967	
4.	Highest qualification	: PhD
5.	Date of joining service	:29.07.1996
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7.	No. of FDPs/STTPs or other events conducted	: 2
8.	No. of FDPs/STTPs or other events attended	:18
	as resource person	
9.	No. of FDPs/STTPs/Workshops attended	:24
	as participant*	
10.	No. of Conferences attended as participant	:34
11.	Details of awards/ recognition/ Achievements	:Best Paper Award - 2
12.	Details of additional charges at department level	:Group Tutor UG & PG, TEQIP
		Purchase, Staff in charge Mech. Engg.
		Association
13.	Details of additional charges at institute level	:CEC Committee, Anti-Sexual
		Harassment Cell, NBA Accredatation
14.	Details of responsibilities at university level or other	:Expert Commissioner, CDRFs, Kerala
	social organization (more than 150 inspections so far)	
15.	No. of Journal Publications	:12
16.	No. of publication in International conferences	:28
17.	No. of publication in National conferences	: 4

## PUBLICATIONS

## INTERNATIONAL CONFERENCE

- 1 Numerical Simulation of Flow, Heat Transfer, Mass Transfer and Electrochemical Reactions in PEM Fuel Cell, *International conference on materials for future*, *ICMF2013*, *GEC Thrissur*
- 2 Numerical Simulation of Semiconductor Type Thermoelectric Generator, *International Conference on Environment and Sustainable Technologies iCEST – 2014, 3 - 5 January, 2014, MIT, Manipal, India.*
- 3 An assessment on friction stir welding of high melting temperature materials, , *International Mechanical Engineering Congress (IMEC 214)*, *NIT Trichy, Tamil Nadu, India*
- 4 Mechanical properties and microstructural characteristics of friction stir welded dissimilar AA5052H32 aluminium alloy and IRSM42-97 micro alloy steel butt joints', *Twenty-Third*

International Conference on Processing and Fabrication of Advanced Materials PFAM XXIII 2014, IIT Roorkee, India.

- 5 Friction stir welding of dissimilar alluminium alloy:AA 5502 H 32 and high strength low alloy steel:IRS M 42 -93 Butt joints, *International welding symposium (IWS 2014), Mumbai*
- 6 Effect of heat input on mechanical properties of friction stir welded 316 L Austenitic stainless steel, *International welding symposium (IWS 2014)*, *Mumbai*
- 7 Effect of interface position and geometry of tool pin on the performance of friction stir welded dissimilar aluminium alloy:AA 5052 H 32 and HSLA steel:IRSM 42-93 BUTT JOINT, *ISRS* 2014 , *IIT MADRAS,Chennai India*
- 8 Friction Stir Welding of 316L Austenitic stainless steel Microstructure and Mechanical properties, 23<sup>rd</sup> International Conference on Processing and Fabrication of Materials *PFAM23*, 2014, 5 7 December 2014, IIT Roorkee, India
- 9 Friction stir dissimilar butt welding of aluminum alloy, AA5052 and high strength low alloy steel using a modified FSW process, 1. *International Conference on Advanced Materials and Manufacturing for Strategic Sectors ICAMPS 2015, ISM, Thruvananthapuram, India.*
- 10Effect of cooling rate on Mechanical and Microstructural Characterization of Friction Stir Welded 316 L Austenitic Stainless Steel Joints, International Conference on Advanced Materials and Manufacturing for Strategic Sectors, *ICAMPS 2015*, *ISM*, *Thruvananthapuram*, *India*.
- 11Influence of axial pressure on the characteristics of friction stir dissimilar butt welded aluminium alloy, AA5052 and HSLA steel, *International Workshops Conferences and Expo on Military and Marine Applications IWCEM 2015, NIRDESH, Pune, India.*
- 12Effect of tool tilt angle on the characteristics of dissimilar friction stir welded aluminium alloy AA5052 and HSLA steel butt joints, *International Conference on Cutting Welding and Surfacing CWS2015, IWS, Tamil Nadu, India.*
- 13 Tool materials for friction stir welding of high temperature materials a review, *National Seminar on Recent Advances in Welding and Non Destructive Testing, IWS, Tamil Nadu, India,* 2013

## International Journal

1 An assessment on friction stir welding of high melting temperature materials

Applied Mechanics and Materials, vol. 592-594, pp. 43-47, 2014,2

- 2 Effect of tool axis offset and geometry of tool Pin profile on the characteristics of friction stir welded dissimilar joints of aluminium alloy AA5052 and HSLA steel, *Materials Science And Engineering A*, *vol.* 639, *no.* 15, *pp.* 219–233
- 3 An Assessment on Mechanical and Microstructural properties of Friction Stir Welded 316 L Austenitic Stainless Steel, *Applied Mechanics and Materials*, Vol. 787, pp 381-385
- 4 Study on dissimilar butt joining of aluminum alloy, AA5052 and high strength low alloy steel through a modified FSW process, *Materials Science Forum*, vol. 830-831, pp. 278-281
- 5 Friction stir welding of aluminum Alloy AA5052 and HSLA steel: mechanical and microstructural characterization of dissimilar friction stir welded butt joints, *The Welding Journal*, vol. 94, pp. 291-300 (American Welding Society)
- 6 Effect of cooling rate on Mechanical and Microstructural Characterization of Friction Stir Welded 316 L Austenitic Stainless Steel Joints, *Materials Science Forum Vol. 830-831*, pp 314-318
- 7 Influence of tool traverse speed on the characteristics of dissimilar friction stir welded aluminium alloy, AA5052 and HSLA steel joints, *Archives of Civil and Mechanical Engineering*, vol. 15, pp. 822-830

- 8 Performance analysis of dissimilar friction stir welded aluminum alloy AA5052 and HSLA steel butt joints using response surface method, *International Journal of Advanced Manufacturing Technology*
- 9 Influence of tool material on mechanical and microstructural properties of friction stir welded 316L austenitic stainless steel butt joints, *Int. Journal of Refractory Metals and Hard Materials*, *Vol. 58, pp 196–205*
- 10Influence of Axial Force on the Characteristics of Friction Stir Butt Welded Aluminium Alloy/Steel Joints, *Journal of Materials Engineering and Performance (accepted for publication)*
- 11Effect of tool tilt angle on mechanical and microstructural characteristics of fricion stir welded 316L austenitic steel joints, *Int. Journal of Metals and Alloys (under review)*