

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae



1. Name: V. Muthupandi
2. Designation: Professor
3. Office Address: Dept. of MME, NIT
Tiruchirappalli -620015
4. Telephone (Direct) (Optional): 0431 2503457
Mobile (Optional): 9486001126
5. Email (Primary): vmuthu@nitt.edu
Email (Secondary): vmuthupandi@gmail.com
6. Field(s) of Specialization: Welding Engineering, Surface modification through PEO, Corrosion Engineering

7. Employment Profile

Job Title	Employer	From	To
Research Associate	REC, Tiruchirappalli	24.09.1979	08.10.1983
Lecturer	RVCE, Bangalore	12.10.1983	21.11.1988
Lecturer	NIT, Tiruchirappalli	23.11.1988	08.06.1999
Assistant Professor	NIT, Tiruchirappalli	09.06.1999	22.04.2007
Professor	NIT, Tiruchirappalli	23.04.2007	till date

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
PhD	IITM	2006	--	Welding of duplex stainless steel
ME	REC, Tiruchirappalli	1983	First Class	Industrial Metallurgy
BE	REC, Tiruchirappalli	1979	First Class	Metallurgical Engineering

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9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Chairperson	M.Tech class committee	2005	2007
Officer	Placement	03.10.2006	31.10.2010
Chairman	School committee	2006	2018
Member	Department Administrative Council	07.02.2012	2014
Member	Academic Interface Cell	20.12.2012	Till date
Chairman	Students grievances	26.08.2014	Till date
Chairman	Library	31.05.2017	Till date
HOD	MME	16.01.2018	Till date

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Elsevier Journal Reviewer	Elsevier	2008	Till
Evaluation of Ph.D thesis	1. IIT Madras 2. Anna University, Chennai 3. JNTU, Telengana, 4. VTU, Karnataka	-	-
Question paper setter	1. CECRI, Karaikudi 2. PSG college of Technology, Coimbatore 3. Government College of Engineering, Salem 4. Annamalai University, Chidambaram	-	-
DC Member	1. Annamalai University, Chidambaram 2. Anna University, Chennai 3. Tagore Engineering College, Chennai 4. National Engineering College, Kovilpatti 5. SSN College of Engineering Chennai 6. Adhiparasakthi Engineering College, Kancheepuram 7. SRM Institute of Science & Technology, Kancheepuram 8. B.S.Abdul Rahman University	-	-

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Member board of studies	1. PSG College of Technology, Coimbatore 2. Government College of Engineering 3. Annamalai University		
Technical Committee Member	SOJOM	2012 2018	
Ph.D viva Examiner	1. JNTU, Hyderabad 2. Sri Sai Ram Institute of Technology 3. Cochin university of science and technology, Kerala 4. Anna University, Chennai 5. VTU, Karnataka	-	-
Member, Search Committee for Director, NIFFT, Ranchi	MHRD	2013	
Resource person for FDP	1. CGE, Chennai 2. Sai Ram Institute of Technology, Chennai 3. College of Engineering, Adoor, Kerala 4. Andhra university, Vizg 5. Central University, Thiruvarur 6. Kalasalingam University, Srivilliputhur 7. Anna University, Trichy Campus 8. Anna University, Pattukotai Campus 9. Annamalai University, Chidambaram	-	-
Faculty Selection Committee	NIT, Warangal	2015 2016	-
Member of Exam Audit Committee	PSG College of Technology, Coimbatore	-	-

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2000	Best Project Award	Tamilnadu state council for science and technology
2005	Govindaraju Memorial Award	International Welding Conference, Mumbai
2012	IWS SOJOM plenary Award	IWS

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2018	Dr. DRG ACHAR Memorial Award	SOJOM, 2018
2018	Faculty award	NITT

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

13. Details of Academic Work

(i) Curriculum Development

List of subjects

1. Welding Processes
2. Welding Metallurgy
3. Physical Metallurgy
4. Corrosion Engineering
5. Material Characterization
6. Testing, Inspection & Characterization
7. Nondestructive Testing

(ii) Courses taught at Postgraduate and Undergraduate levels

List of subjects

1. Welding Processes
2. Welding Metallurgy
3. Physical Metallurgy
4. Testing, Inspection & Characterization
5. Nondestructive Testing
6. Design of Weldments

(iii) Projects guided at Postgraduate level

<i>S.No</i>	<i>Name of the student</i>	<i>Roll No.</i>	<i>Project Title</i>	<i>Period</i>	<i>Branch</i>
1.	Jobin Rose	212115013	Effect of sulphide compound flux on the bead geometry of A-TIG welded 316L stainless steel	May-17	WE
2.	Ajay Singh	212115011	Effect of skip distance on the bead geometry of ATIG welds of 6061 aluminium alloy	May-17	WE
3.	Jobin Rose	212115013	Effect of single and multiple component fluxes on the bead geometry of A-TIG welded 316L stainless steel	Dec-16	WE
4.	Ajay Singh	212115011	Effect of flux and welding	Dec-	WE

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			current on the bead geometry of ATIG welds of 6061 aluminium alloy	16	
5.	Satyendra Singh Patel	212115027	Studies on the geometry of Aluminium 6061 weld beads produced with TIG, A-TIG, FB-TIG and FZ-TIG welding	Dec-16	WE
6.	S Hari Hara Varaprasad	212114011	Microstructure and mechanical properties of explosive clad joints – Hastelloy (C 276) and carbon steel (SA 516 GR60)	May-16	WE
7.	Jithin James	212113022	Effect of vanillin thiosemicarbazone inhibitor on corrosion behaviour of stainless steel 304 welds	May-15	WE
8.	Jithin James	212113022	A study on the corrosion behaviour of TIG and A-TIG weldments of grade 409 ferritic stainless steel	Dec-14	WE
9.	Muhamed Najlan	212112002	Influence of welding current and FB-TIG welding of AISI 409 ferritic stainless steel	May-14	WE
10.	Ashok.N	212112005	Joining of 304L to SA516Gr65 by A-TIG welding	May-14	WE
11.	Venkateshwar Rao.M	212112010	Influence of A-TIG on cooling rate of 304H weld metals	May-14	WE
12.	Mukesh kumar	212112015	Use of single component fluxes in FB-TIG welding of carbon steel	May-14	WE
13.	Anoop K Unni	212112024	Study on soldering of Aluminium alloy 6061 T6 using active solders	May-14	WE
14.	A Vipin	212112026	Hot cracking studies on A-TIG weldments of aluminium alloy A6082	May-14	WE
15.	Jithimon T V	212112029	Studies on A-TIG welding of AISI 304L austenitic stainless steel	May-14	WE
16.	Muhamed Najlan	212112002	Design of multi component flux for A-TIG welding of AISI 409 ferritic stainless steel	Dec-13	WE
17.	Ashok.N	212112005	Effect of pulsing parameters in TIG welding of super 304H steel	Dec-13	WE
18.	Venkateshwar	212112010	Effect of cooling rates on	Dec-	WE

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	Rao.M		microstructure, hardness and toughness of simulated heat affected zone of SA106GRC steel	13	
19	Mukesh kumar	212112015	Optimization of flux bounded-TIG welding on 304L stainless steel with different fluxes	Dec-13	WE
20	A Vipin	212112026	A-TIG welding of Aluminium and hot cracking studies on A6061 aluminium alloy during A-TIG welding	Dec-13	WE
21	Jithimon T V	212112029	Effect of multi component activating fluxes on A-TIG welds of AISI 304L austenitic stainless steel	Dec-13	WE
22	Krishna Prasad.S	212111009	Development of new welding procedures for welding marine grade EH-36 steels using self-shielded flux cored arc welding	May-13	WE
23	Justine Jose	212111017	Effect of ternary fluxes on A-TIG welding of AISI 304L austenitic stainless steel	May-13	WE
24	Abdul Bari Fathah	212111019	Optimization of gap between flux coatings in flux bounded TIG welding of type 304L austenitic stainless steel	May-13	WE
25	Jimin George	212111022	Effect of single component and ternary fluxes on depth of penetration in A-TIG welding of AISI 409 ferritic stainless steel	May-13	WE
26	Krishna Prasad.S	212111009	Flux bounded tungsten inert gas welding on mild steel	Dec-12	WE
27	Justine Jose	212111017	A-TIG welding of type 304L austenitic stainless steel	Dec-12	WE
28	Abdul Bari Fathah	212111019	Dissimilar welding of super 304H and P92 steels for advanced super critical boiler application	Dec-12	WE
29	Jimin George	212111022	Effect of activated flux on A-TIG welding of low alloy steel and extended study on dissimilar weld between 304L austenitic stainless steel and low alloy steel	Dec-12	WE
30	Srinuvasarao	212110011	Metallurgical stability of	May-	WE

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	Bobbari		friction welded dissimilar joints between AA2014-T6 and 304SS	12	
31	Dhavale Shivaji Ashok	212110008	Studies on the microstructure and mechanical properties of P91-304 stainless steel welded joint	May-12	WE
32	Ramachandraiah.T	212109024	Studies on metallurgical behaviour in 9Cr1Mo steel using cold wire addition technique in SAW process	May-11	WE
33	Deshmukh Mahesh	212109001	Studies on microstructure development and corrosion behaviour of HAZ of borated stainless steel	May-11	WE
34	Narella Siva Prasad	212109022	Effect of Micro Arc Oxidation coatings on corrosion behaviour of friction stir welded AA5083 aluminium alloy	May-11	WE
35	Nazeerbasha Shaik	212109018	Application of scroll tool over probe tool in friction stir spot welding	May-11	WE
36	Murali mohan Cheepu	212109020	Friction welding of CP-Titanium to 304 Stainless steel with interlayers	May-11	WE
37	Srinuvasarao Bobbari	212110011	Metallurgical stability of friction welded dissimilar joints between AA6082-T6 and 304SS	Dec-11	WE
38	Nittala Raja Sekhar	212108023	Joining of dissimilar metals using friction welding	May-10	WE
39	Nazeerbasha Shaik	212109018	A study on friction stir spot welding of commercially pure aluminium	Dec-10	WE
40	Surya Rao	212107014	Metal active gas welding of T-91 tubes with TIG torch preheating	May 10	WE
41	Ravikiran Rao. A	212108025	Characterization of simulated heat affected zone in P92 steel	May-10	WE
42	Ravikiran Rao. A	212108025	Characterization of simulated heat affected zone of P92 steel	Dec-09	WE
43	Nittala Raja Sekhar	212108023	Effect of interlayers on friction welding of Titanium to 304SS	Dec-09	WE
44	Arun Kumar. V	212107002	Multi- Objective optimization of A-TIG welding process for	May-09	WE

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			modified 9Cr-1Mo steel using Genetic Algorithm		
45	Thayananth .T	MTA 0613	Effect of activated flux on the properties of stainless steel welds	May-08	WE
46	Rajapandian .S	MTA0612	Studies on the corrosion behavior of low nickel austenitic stainless steel weldments	May-08	WE
47	Ramesh .C	MTA 0617	Corrosion behaviour of nitrided low nickel austenitic stainless steel weldmetal	May 208	WE
48	Surya Rao .R	212107014	Al-Cu dissimilar friction weld: Process parameter optimization and study on growth of intermetallic layer at the interface	Dec-08	WE
49	Lingarajan .R	212107007	A study on the effect of plasma electrolytic oxidation on AZ31B magnesium alloy and its friction stir weldment	Dec-08	WE
50	Arun Kumar. V	212107002	Effect of activated flux on microstructure & mechanical properties of 9Cr-1Mo steel welds	Dec-08	WE
51	Rajapandian .S	MTA0612	Studies on the corrosion behavior of simulated HAZ of an age hardenable aluminum alloy	Dec-07	WE
52	Narasimha Murthy.K.P	MTA 0413	Studies on hot and cold cracking of a P92 steel and microfissuring of weld deposits of different SMAW electrodes	Jun-06	WE
53	Ravisankar .V	MTA 0408	Evaluation of temper embrittlement behaviour and fracture toughness of P22,P91 and P92 steels	Jun-06	WE
54	Naga Mahesh Appala	MTA 0401	Feasibility studies of cast martensitic stainless steel turbine runner (CA6NM) for repair welding using different consumables	Jun-06	WE
55	Karthikeyan .A	--	Studies on thick section austenitic stainless steel weldments	Jan-03	WE
56	Sakthivel . N	--	Influence of small additions of	Jan-03	WE

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			copper and tungsten on the microstructure and corrosion behaviour of duplex stainless steel weld metals		
57	Kamalakaran . K	--	NDT method in resistance spot welding: Resistivity measurement – Correlation of resistivity to nugget size and strength	Jan-03	WE
58	Thiyagarajan . P	MTA 0106	Finite element analysis of weld thermal cycles and residual stresses in GMA weldments	Jan-03	WE
59	K. Kumar	MTA 0109	Laser beam welding of austenitic stainless steel and its metallurgical characterization	Jan-03	WE
60	Subin Sebastian	--	Spot welding monitoring system	Jan-02	WE
61	Sudheesh V S	MTA 0009	Feasibility study of using CO ₂ welding for shipbuilding	Jan-02	WE
62	G. Rajamurugan	MTA 0013	Optimizing the parameters for local post weld heat treatment of pipes by resistance heating method	Jan-02	WE
63	J Kamaraj	MTA 9903	Evaluation of dissimilar weld joint between P92-P22 and P91-P91 with austenitic stainless-steel backing	Jan-01	WE
64	V. Chinnaswamy	MTA 9802	Effect of pulsed current on mechanical properties of AISI 430 ferritic stainless-steel welds	Jan-00	WE
65	Premchander .V	MTA 9809	Investigation on the properties of dissimilar metal joint comprising duplex stainless steel UNS 32900 and low alloy steels SA 387 grade 11	Jan-00	WE
66	S. Muthukumaran	MTA 9808	Crack opening displacement studies of narrow gap submerged arc welds at low temperatures	Jan-00	WE
67	P. Sathiya	--	Effect of shielding gas mixture on weld metal properties in GMAW	Dec-96	WE
68	Raj Kumar Jain	--	Ageing characteristic of Al-Zn-Mg Alloys	Apr-90	WE
69	Mohit Vishnoi	212211020	Development of hydrophobic	May-	MSE

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			coating on AA2014 alloy by MAO process and study on the corrosion behavior of coating	13	
70	Rekhlal Udali	212211016	Erosion – Corrosion behaviour of AZ31 magnesium alloy	May-13	MSE
71	Mohit Vishnoi	212211020	Development of hydrophobic coating on aluminium alloy (AA2014) by Plasma Electrolytic Oxidation	Dec-12	MSE
72	Rekhlal Udali	212211016	Erosion – Corrosion behaviour of Mg-Al alloy of uncoated and PEO coated sample	Dec-12	MSE
73	Venkateswararao.M	212208012	Corrosion behaviour of PEO treated β -Titanium alloy in synthetic biofluid	May-10	MSE
74	Palli Srinivas	212208008	Effect of plasma electrolytic oxidation coatings on corrosion and erosion behavior of commercially pure aluminium	May-10	MSE
75	Venkateswarlu . K	212207016	Surface modification of Ti-6Al-4V alloy implant material by Plasma Electrolytic Oxidation and characterization for biomedical applications	May-09	MSE
76	Selvakumar . M	212207011	Optimization of the Plasma Electrolytic Oxidation process for corrosion protection of AM50 magnesium alloy using response surface method	May-09	MSE
77	Palli Srinivas	212208008	Protective coatings by plasma electrolytic oxidation on inner surface of aluminium tubes	Dec-09	MSE
78	Venkateswararao Mannava	212208012	Corrosion behaviour of anodized and PEO treated β -Titanium alloy in synthetic biofluid	Dec-09	MSE
79	Swarna Latha.V		Corrosion behaviour of cryorolled Al-Cu-TiB ₂ in situ composite	May-08	MSE
80	Hari Prasad Jhawar	212207004	Plasma electrolytic boriding of steels	Dec-08	MSE
81	Selvakumar. M	212207011	Studies on surface morphology and the corrosion properties of Plasma Electrolytic oxidized AM50 manganese alloy	Dec-08	MSE

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82	Venkateswarlu . K	212207016	Surface modification of Ti-6Al-4V alloy implant material by Plasma Electrolytic Oxidation and characterization for biomedical applications	Dec-08	MSE
83	Manikandan .R.V	--	Characterization of $\text{La}_{2-2x}\text{Sr}_{1+2x}\text{Mn}_2\text{O}_7$ ($0.325 \leq X \leq 0.425$) colossal magneto resistance materials	Jan-03	MSE
84	Rajasekaran .B	--	Evaluation of properties of stainless steels produced through powder metallurgy	Jan-03	MSE
85	Ravichandran .R	MTB 9808	Development and characterization of synthetic shielded metal arc welding duplex stainless steel electrodes	Jan-00	MSE
86	Monu Sathyapal	212315002	Testing and characterization of borided 304 stainless steel	May-17	IM
87	Nithin Padmanabhan	212315007	The effect of sodium molybdate on the pitting corrosion behaviour of heat treated duplex stainless steel in saline solution	May-17	IM
88	T Nagabushanam Reddy	212313012	Effect of fluxes on characteristics of A-TIG welds of ferritic stainless steel	May-15	IM
89	T Nagabushanam Reddy	212313012	Optimization of process parameters on performance measures of Tungsten inert gas welding of ferritic stainless steel	Dec-14	IM

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Creep of alloys and composites in aggressive environments	AICTE	1998	2003	completed
Modernization of welding laboratory	MHRD	2002	2005	completed
Corrosion behavior of super duplex and super martensitic stainless steels weldments in marine environments	NRB	2007	2010	completed
Role of interlayers in dissimilar materials joining by solid state	NRB	2008	2010	completed

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welding process				
Surface modification of titanium and titanium alloy bio-medical implant materials by plasma electrolytic oxidation and characterization for biomedical applications	Department of biotechnology, New Delhi	2009		completed
Development of bioactive and antibacterial nanocrystalline hydroxyapatite coatings on Ti and Ti-alloy implant materials by PEO technique	NRC-M	2009		completed
The effect of micro arc oxidation process on corrosion and fatigue properties of aluminium alloy and its weldments used in naval applications	NRB	2009		completed
Development of improved friction stir welding process to weld high strength materials	NRB	2009		completed
A study on the properties of dissimilar weldments between P92-S304H materials for power plant applications	UGC-DAE, CSR	2012	2014	completed
Strength enhancement of AA2219 Alloy Sheets/Plates by Cryorolling for usage in tankage applications.	VSSC, ISRO	2017		Ongoing

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Dr.S.Muzhumathi	High temperature corrosion behavior of molten carbonate fuel cell and plates	Co-supervisor	2003
Dr.S. Manimozhi	Weldability studies in 9Cr- 2W Material- A New Generation steel for Power Plant Application	Supervisor	2013
Dr.C. Sajith babu	Studies on structural aspects and corrosion behavior of nanocrystalline high entropy alloys	Co-supervisor	2015
Dr.G. Venkatesan	Activated tungsten inert gas and flux bounded tungsten inert gas welding of steel and	Supervisor	2017

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	aluminium alloy		
Dr.P. Rajeshkannan	A Study on the properties of Dissimilar weldments between T92-S304H materials for power plant Application	Supervisor	2018
Mr M Ramakrishnan	Studies on Cold Wire Addition in Submerged Arc Welding and Hardfacing	Supervisor	2018 (to be defended)

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
17.08.1990to 18.08.1990	Workshop- Welding Research	National	Paper presenter	Dept. of science and technology	Technology bhavan, New Delhi
18.05.1992 to 14.08.1992	Training- Experimental studies on corrosion behavior of metals and alloys	Local	participant	CECRI, Karaikudi	CECRI, Karaikudi
7.06.1993 to 18.6.1993	Workshop- Modern Instrumental methods in the structural Elucidation of Materials	International	participant	IITK	IITK, Kanpur
8.12.1993to 18.12.1993	Workshop- (Processing characterization of advanced ceramics)	International	participant	IITK	IITK, Kanpur
16.03.1994 to 17.03.1994	Workshop- Advanced powder metallurgy	International	participant	IITM	IITM, Chennai
16.08.1994	Workshop-	International	participant	IISC,	IISC,

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to 26.08.1994	Application on fracture mechanics in engineering design			Bangalore	Bangalore
10.11.1994 to 11.11.1994	Conference- IX ISME conference	International	Paper presenter	University of Roorkee	University of Roorkee
27.06.1997 to 28.06.1997	Workshop- Welding of stainless steel and corrosion resistance alloys	National	Participant	IIW, Chennai	IIW, Chennai
04.12.1998 to 05.12.1998	Workshop- Welding of steels and stainless steels	National	Participant	IIW, Chennai	IIW, Chennai
18.12.2006 to 07.01.2007	Training- Polymer clay nanocomposites	International	participant	IITM	IITM, Chennai
19.12.2007 to 20.12.2007	Workshop- Design of Experiments for engineers and researchers	International	Participant	NITT	NITT
9.12.2009 to 11.12.2009	Conference- (International Conference on Advanced Nanomaterials and nanotechnology)	International	participant	IITG	IITK, Guwahati
23.02.2011 to 25.02.2011	Conference- Materials for the future	International	Paper presenter	Government Engg. College	GEC, Thrissur
06.11.2011 to 09.11.2011	Symposium- International society for ceramics in medicine (ISCM)	International	Participant	ISCM	Istanbul, Turkey
24.11.2012 to 25.11.2012	Conference- Future bioengineering	International	Paper presenter	APCBEEES	Bangkok, Thailand
19.4.2013 to 20.4.2013	Symposium- Aerospace and	International	Participant	Visvesvaraya technological	VTU, Belgaum

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	energy sectors			university	
20.07.2013 to 30.07.2013	Conference- International conference on light metals technology	International	participant	Brunel University	Brunel University, London,UK
01.06.2015 to 05.06.2015	Workshop- Advance aerospace Materials	International	Participant	IIT Roorkee	IIT Roorkee
13.11.2015to 16.11.2015	Symposium- NMD ATM 15 (new horizons in materials processing and applications	International	Participant	IIM, Kolkata	Coimbatore
18.08.2016 to 20.08.2016	Conference-	International	participant	National University of Singapore	Singapore
11.06.2017	Conference- International conference on engineering technology science and management innovation	International	Paper presenter	Academic science	IETE, Delhi
09.08.2017 to 10.08.2017	Workshop- Advanced materials characterization techniques	International	Participant	IIM, Trivandrum	IIM, Trivandrum
16.03.2018 to 18.03.2018	Conference – Key Engineering Materials	International	Paper presenter	Osaka University	Osaka, Japan

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/	Date (s)	Role	Venue
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	National/ Local)			
Workshop-Mechanical behavior of Materials	National	25.03.1992 to 27.03.1992	Co-ordinator	REC, Tiruchirappalli
Workshop-Welders Training course for self-help group women	National	26.12.2007 to 31.12.2007 & 02.01.2008 to 07.01.2008	Convener	NITT
Workshop-surface modification of Structural Materials	National	27.05.2013 to 28.05.2013	Convener	NITT
Workshop-Microscopic Techniques in materials	National	10.10.2014 & 14.10.2014	Co-ordinator	NITT
Conference-Emerging trends in materials and manufacturing	International	10.03.2017 to 12.03.2017	Chairman	Breeze residency, Tiruchirappalli
Workshop-Advancements in welding technology	International	19.06.2018 to 23.06.2018	Convener	NITT
Symposium-symposium on joining of materials	International	27.04.2018 to 28.04.2018	Co-chairman	Breeze residency, Tiruchirappalli

18. Invited Talks delivered

Topic	Date	Inviting Organization
Corrosion of stainless steel weldments	06.04.2018	CECRI, Karaikudi
Welding of steels	12.10.2012 to 13.10.2012	Annamalai University, Chidambaram
Green Nanotechnology in materials engineering and energy applications	16.12.2015	College of Engineering, Adoor, Kerala

19. Membership of Learned Societies

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Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life member	Indian Institute of Metals	LM02-22958
Life member	Indian Institute of Welding	L8125
Life member	Indian Welding Society	L00405
Life member	Indian Society for Technical Education	LM12408
Senior member	Hong Kong Society for Mechanical Engineers	2016

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Germany	10.11.2007 to 10.12.2007	Training at GKSS Research Centre, Geesthacht

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Vol (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
V. Muthupandi P. Bala Srinivasan S. Sundaresan	Influence of nitrogen addition on the microstructure and mechanical properties of duplex stainless steel weld metals	Steel Research	73(9)	409-413	2002	
Sathiyarayanan S Marikkannu C P. Bala Srinivasan Muthupandi V	Corrosion behaviour of Ti6Al4V and duplex stainless steel (UNS31803) in synthetic bio-fluids	Anti-Corrosion Methods and Materials	49(1)	33-37	2002	
P. Bala Srinivasan V. Muthupandi S. Balaji S. Vasudevan N. Krishnaraj	Corrosion behaviour of salt bath nitrocarburised steels	Bulletin of Electrochemistry	18(10)	451-456	2002	
V. Muthupandi P. Bala Srinivasan S.K. Seshadri S. Sundaresan	Effect of weld metal chemistry and heat input on the structure and properties of	Materials Science and Engineering A	358(1-2)	9-16	2003	

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	duplex stainless steel welds					
P. Bala Srinivasan V. Muthupandi S. Balaji S. Vasudevan N. Krishnaraj	Microstructure and Mechanical Properties of Salt Bath nitrocarburised Thin Section Steels	Surface Engineering	19(2)	91-96	2003	
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S.Sudaresan, V.Muthupandi	Physical Metallurgical considerations in the joining of duplex stainless steel	TWS'98	263-274			1998
B Krishnamoorthy, G M Gupta, V. Muthupandi, P.Bala Srinivasan, K.S.Pandey	Failure analysis of failed seamless carbon steel super heater tube	National Conference on Material Processing and Failure analysis			REC Trichy	2003
P Premkumar, Meenu Srivastava, V.Muthupandi, K.S.Pandey, R.Nagalakshmi	Weldability investigation of 1Cr-0.5Mo low carbon sintered but hot forged P/M plates	National Conference on Material Processing and Failure analysis			REC Trichy	2003
S.Muthukumar, V.Muthupandi	Experimental setup to conduct low temperature fracture toughness test	National Conference on Material Processing and Failure analysis			REC Trichy	2003
M.Ramakrishnan, V.Muthupandi, K.Padmanaban	Influence of cold wire addition technique in submerged arc welding Process for boiler structure and wind mill tower	Proceeding of IWS 2008	38, 1-8		IWS	2008
Venkateswara rao, M.B Bharathi rajkumar, V. Muthupandi	Corrosion behaviour of anodized and PEO treated Titanium alloy in Synthetic bio- fluid			Crome 2010		2010
T. Thayananth · V. Muthupandi S. R. Koteswara	Effect of Nanocrystalline Ceramic Coats	International Conference on Advanced	131-136 Volume	ICANN 2009		2010

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Rao	Produced by Plasma Electrolytic Oxidation on Corrosion Behavior of AA5083 Aluminum Alloy	Nanomaterials and Nanotechnology	1276. Issue 1			
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T Thayananth, V. Muthupandi	A brief study on the properties of ceramic coatings synthesized on AA5083 aluminium alloy through PEO process with and without electrolyte additives	Proceeding of National workshop on surface engineering (sure 10)				2010
M Ramakrishnan, K Padmanaban, V Muthupandi	Establishment of cold wire addition technique in tandem submerged arc welding for ring header fabrication in boiler manufacturing	Proceeding of symposium on joining of materials	221-228	SOJOM 2012		2012
N.Sathish pandian, V. Muthupandi	Erosion – Corrosion of a super duplex stainless weld metal in saline sand slurry			SOJOM 2012		2012
P. Srikanth, V. Muthupandi	Influence of Single component flux on bead geometry			SOJOM 2012		2012

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M.Ramakrishnan, G.Buvanasekaran, R.Easwaran, V.Muthupandi	Evaluation of fracture toughness of thick section welds made with cold wire addition in narrow groove submerged arc welding process	Proceedings of the International Welding Symposium			Mumbai	2012
CH. Murali mohan, V. Muthupandi	Friction welding of CP-Titanium to AISI 304 stainless steel using electroplated nickel interlayer			SOJOM 2012		2012
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C. H. Muralimohan S. Haribabu Y. Hariprasada Reddy V. Muthupandi K.Sivaprasad	Evaluation of Microstructures and Mechanical Properties of Dissimilar Materials by Friction Welding	Procedia Materials Science	Volume 5, Page 1107 – 1113			2014
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C. Sajith babu K. Sivaprasad V. Muthupandi Jerzy. A. Szpunar	Characterization of Nanocrystalline AlCoCrCuNiFeZn High Entropy Alloy Produced by Mechanical Alloying	Procedia Materials Science	Volume 5, Pages 1020 – 1026			2014
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P. Rajesh kannan, V.Muthupandi	Study on metallurgical and mechanical properties of super304HCu stainless steel welds	NMD 2015				2015
R. Jayachitra, K.Vijayalakshmi, V. Muthupandi	Characterization of Austenitic stainless steel by Ultrasonic testing	Proceedings of the International conference on research in condensed matter Physics	234-238		University of madras, Chennai	2015
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Muthupandi.V, Devakumaran.K	temperature coefficient of surface tension on shape and geometry of weld beads in hot wire gas tungsten arc welding process	material science		Trends in Materials and Manufacturing		
G. Venkatesan, T. Nagabhusanam Reddy, V. Muthupandi	Optimization of process parameters on performance measures of tungsten inert gas welding of ferritic steel	IMME 17		Emerging Trends in Materials and Manufacturing		2017
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(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
N. Kishore Babu, Mahesh Kumar Talari, Sun Zheng Pan Dayou S. Jerome, V. Muthupandi	Handbook of Manufacturing Engineering and Technology, pp.593-615	Springer-Verlag London Ltd	Jan 1 2015	9781447146704/ 9781447146698