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RESEARCH AND ACADEMIC CONTRIBUTIONS

Sl. No.	Title of the Paper & Authors	Name of the Journal	Volume & Page
Publications – International Journals			
1.0	T. Ramesh, M. Prabhakar, R.Narayanasamy, <i>'Workability studies on Al-20% SiC Powder Metallurgy composites during cold upsetting'</i>	Advances in Production Engineering and Management	Vol. 5, No. 1, Pages 33 – 44, 2010
2.	T. Ramesh, M. Prabhakar, R.Narayanasamy, <i>'Workability studies on Al-5% and 10% SiC P/M composites'</i>	International Journal of Materials and Product Technology	Vol. 38, No.2/3, 2010 pages 264-274
3.0	T.Ramesh, M. Prabhakar, R. Narayanasamy, <i>Workability studies on AL-15% SiC powder metallurgy composite during cold upsetting</i>	International Journal of Materials and Structural Integrity (IJMSI)	Volume 3 - Issue 1 – 2009, Pages 1 - 27
4.0	S. Sivasankaran, R.Narayanasamy, T. Ramesh, M. Prabhakar, <i>Analysis of workability behavior of Al–SiC P/M composites using back propagation neural network model and statistical technique</i>	Computational Materials Science	Volume 47, Issue 1, November 2009, Pages 46-59
5.0	R. Narayanasamy, T. Ramesh, M. Prabhakar, <i>Effect of particle size of SiC in aluminium matrix on workability and strain hardening behaviour of P/M composite</i>	Materials Science and Engineering: A	Volume 504, Issues 1-2, 25 March 2009, Pages 13-23
6.0	R. Narayanasamy, T. Ramesh, K.S. Pandey, S.K. Pandey, <i>'Effect of particle size on new constitutive relationship of aluminium–iron powder metallurgy composite during cold upsetting'</i>	Materials & Design	Volume 29, Issue 5, 2008, Pages 1011-1026

7.0	T. Ramesh , M. Prabhakar and R. Narayanasamy <i>'Workability studies on Al-5%SiC powder metallurgy composite during cold upsetting'</i>	The International Journal of Advanced Manufacturing Technology	Volume 44, Numbers 3-4, (2008) 389-398
8.0	R. Narayanasamy, T. Ramesh , K.S. Pandey <i>Some aspects on cold forging of aluminium-iron powder metallurgy composite under triaxial stress state condition</i>	Materials & Design	Volume 29, Issue 4, 2008, Pages 891-903
9.0	R. Narayanasamy, T. Ramesh , K.S. Pandey, <i>Some aspects on cold forging of aluminium-alumina powder metallurgy composite under triaxial stress state condition</i>	Materials & Design	Volume 29, Issue 6, 2008, Pages 1212-1227
10.	P. Sathiya, N. Siva Shanmugam, T. Ramesh and R. Murugavel, <i>'Temperature distribution modeling of Friction Stir Spot Welding of AA 6061-T6 using Finite Element Technique'</i>	Multidiscipline Modeling in Materials and Structures	Vol. XX, No. XX, pp. 1-14(XXXX), (2007)
11.	R.Narayanasamy, T. Ramesh , K.S.Pandey, <i>An experimental investigation on strain hardening behaviour of aluminium - 3.5% alumina powder metallurgy composite preform under various stress states during cold upset forming</i>	Materials & Design	Volume 28, Issue 4, 2007, Pages 1211-1223
12.	R.Narayanasamy, T. Ramesh , K.S. Pandey, <i>Some aspects on strain hardening behaviour in three dimensions of aluminium-iron powder metallurgy composite during cold upsetting</i>	Materials & Design,	Volume 27, Issue 8, 2006, Pages 640-650
13.	R.Narayanasamy, T. Ramesh , K.S. Pandey, <i>Workability studies on cold upsetting of Al-Al₂O₃ composite material</i>	Materials & Design,	Volume 27, Issue 7, 2006, Pages 566-575
14.	R.Narayanasamy, T. Ramesh , K.S.Pandey <i>An investigation on instantaneous strain hardening behaviour in three dimensions of aluminium-iron composites during cold upsetting</i>	Materials Science and Engineering A,	Volume 394, Issues 1-2, 15 March 2005, Pages 149-160
15.	R.Narayanasamy, T. Ramesh , K.S. Pandey <i>Some aspects on workability of Aluminium - iron powder metallurgy composite during cold upsetting</i>	Materials Science and Engineering A	Volume 391, Issues 1-2, 25 January 2005, Pages 418-426
Publications – National Journals			
01	R. Narayanasamy, T.Ramesh and K.S. Pandey, <i>'Some aspects on workability studies in cold forging of pure aluminium powder metallurgy compacts'</i>	Materials Science and Technology	Volume 21, Numer 8, pp. 912 – 916 (5), (2005).
02	R. Narayanasamy, T.Ramesh and K.S. Pandey, <i>'Workability Studies on Cold Upsetting of Sintered Copper – Titanium Carbide Composite Materials'</i>	Metals Materials and Processes	Volume 17, No. 2, (2005).

03	P. Sathiya, N. Siva Shanmugam, T. Ramesh, <i>'Orthogonal metal cutting of SA105 Carbon Steel - a feasibility study, Manufacturing Technology and Management'</i>	Indian Institution of Production Engineers (IIPE)	Accepted for Publication, (2007).
Publications – International Conferences			
01	T. Ramesh , R. Narayanasamy and K.S. Pandey, <i>'Experimental Investigation and Finite Element Verification of Powder Metallurgy Composites during Cold Upsetting'</i>	First International and 22 nd AIMTDR Conference, IIT Roorkee,	21 st to 23 rd December 2006
02	T. Ramesh , R. Narayanasamy and R. Bharanidharan, <i>'Experimental studies and Numerical Simulation of compressibility of Al – 10%Cu Powder Metallurgy composites'</i>	Third International Conference on Heterogeneous Materials Mechanics, Shanghai University, Shanghai, China	22 nd to 26 th May 2011
03	T. Ramesh, R. Bharanidharan and S. Malarvizhi , <i>'Piezo-electric Actuation based Microgrippers for MEMS applications'</i>	International Conference on Innovative Technologies, IN-TECH 2011, Bratislava, Slovak Republic	1 st to 3 rd September, 2011
Publications – National Conferences			
01	P. Sathiya, T. Ramesh , S. Badriprasad and A. Pradeep, <i>'A Finite Element approach on mechanical properties of steel rod'</i>	National conference on modeling and simulation in manufacturing held at Annamalai University, Chidambaram	15, 16 March 2003, Pages C13 - C16.
02	P.Sathiya, T. Ramesh , S. Madhanagopal and R. Nandha Kumar, <i>'A Finite Element approach – Friction Welding of Stainless Steel'</i>	National conference on modeling and simulation in manufacturing held at Annamalai University, Chidambaram	15, 16 March 2003, Pages C13 – C16,
03	P. Sathiya and T. Ramesh <i>Evaluation of stainless steel and medium carbonated friction welds</i>	Proc. on the National Conference on World Class Manufacturing, Amirta Institute of Technology, Coimbatore	116 – 121 7 – 9 May 2003
04	P. Muralidharan and T. Ramesh , <i>'Finite Element Analysis for an effective cross sectional beam''</i>	NATCON.ME-2004 M.S. Ramaiah Institute of Tech. Bangalore,	12-13, March 2004

05	R. Narayanasamy and T. Ramesh , 'Workability of Conventional Metals'	21st AIMTDR conference held at Vellore Institute of Technology, Vellore	20-22 Dec. 2004.
06	T. Ramesh , M.Prabhakar, 'Deformation behavior of Aluminium Component during Cold forging'	K.S.Rengasamy college, Tiruchengode	21.02.07 – 22.02.07

RESEARCH PROJECTS

Sponsored Research Project

Sl. No.	Project Title	Sponsoring Agency	Amount	Duration
01	Experimental Investigation and Finite Element Simulation of Workability of Al – TiC Metal Matrix Composite During Cold Upsetting	Department of Science & Technology, New Delhi	Rs. 12,96,000/-	2008 – 2011

Consultancy Research Project

Sl. No.	Project Title	Sponsoring Agency	Amount
01	Support system for CFBC FBHE coils and Back pass surfaces in CFBC boilers	Bharat Heavy Electrical Limited, Tiruchirappalli	Rs. 9,00,000/-
02	Study and Development of Design guidelines for Drag Link Chain feeder	Bharat Heavy Electrical Limited, Tiruchirappalli	Rs. 22,00,000/-
03	Distribution of Load Transfer Pattern and Stress Distribution with large openings in the Furnace walls of CFBC boilers	Bharat Heavy Electrical Limited, Tiruchirappalli	Rs. 7,50,000/-
04	Failure analysis of High Pressure Feed water Heaters of TPS I Expansion	NLC Neyveli	Rs. 5,34,000/-
05	Design and Analysis of Leak Proof Joints for Supercritical Boiler Tubes Test Facility	Bharat Heavy Electrical Limited, Tiruchirappalli	Rs. 9,04,000/-
06	Comparative study and analysis of FBHE coil support arrangement between BORL and Koniambo CFBC boiler – Milestone I Predicting metal tube temperature for FBHE coils of Koniambo & BORL	Bharat Heavy Electrical Limited, Tiruchirappalli	Rs. 20,34,000/-

RESEARCH GUIDANCE

Name of the Student	Title of the Thesis
K. Vijayamaruthi (MEB0506)	Reliability Analysis of Equipments involved in water treatment plant Phase I

M. Tech.	K. Vijayamaruthi (MEB0506)	Reliability Analysis of Equipments involved in water treatment plant Phase II
	D. Murali Krishna (MEA0611)	CFD Analysis of FBC coal mixing nozzle
	D. Murali Krishna (MEA0611)	A microgripper using piezoelectric actuation for micro object manipulation
	D. Rajeshkumar (211309028)	Experimental and Computational Aerodynamic investigations of a simplified car model
	V.G. Kasi (211309025)	Thermal Analysis of Heat Pipe using water and 0.1% Al ₂ O ₃ + Water Nanofluid
	Jacop P Mathew (211209006)	Numerical Simulation and Experimental validation of forced ventilation compartment fire model
Ph. D.	M. Prabhakar (MEK0601)	Effect of Reinforcement particle sizes on pore closure and workability in sintered Al – SiC powder metallurgy composite during cold upsetting ,

CONFERENCE/SEMINARS/WINTER/SUMMER SCHOOLS/WORKSHOPS ATTENDED

Sl. No.	Topic of the Lecture	Name of the Institute / Department	Date
AICTE Sponsored Programmes			
01	Recent Advances in Modeling and Simulation of Joining Materials	Dept. of Mech. Engg., NITT	29.12.08 – 10.01.09
02	Instruction Design and Delivery System	NITTR, Chennai	21.08.08 – 27.08.08
03	Advanced Tools and Techniques for Research in Engineering Problems	NIT, Tiruchirappalli	25.02.08 – 29.02.08
04	Metallurgy and Materials: Today and Tomorrow	NIT, Tiruchirappalli	11.02.08 – 15.02.08
05	Energy Conservation Measures for Manufacturing and Process Industries	NIT, Tiruchirappalli	10.12.07 – 14.12.07
06	Recent Trends in I.C. Engine Testing and Analysis	NIT, Tiruchirappalli	09.02.07 - 14.02.07
07	Thermal and Manufacturing aspects of Composites	Annamalai University, Chidambaram	26.05.03 – 31.05.03
08	Workshop on Finite Element Methods and Applications in Engineering	Anjalai Ammal Mahalingam Engineering college, Thanjavur	17.03.03 – 21.03.03
09	Computer Networking and Internet	TTTI, Chennai	09.12.02 – 13.12.02
10	Induction training Programme in Engineering	Academic College, Pondicherry university, Pondicherry	18.05.99 – 07.06.99
ISTE Sponsored Programmes			
01	Reaching the Unreached : A challenge to Technical Education	Kumaraguru College of Technology	27.12.03 – 30.12.03

02	Workshop on “ CAD/ CAM & Virtual Factories	Kumaraguru College of Technology	06.08.99 – 07.08.99
Other Continuing Education Programme			
01	Summer School in Tribology	Tribology Society of India, IIPM, Gurgaon	10.06.09 – 13.06.09
02	Introduction to ABAQUS	Dassault Systems, New Delhi	21.04.08 – 25.04.08
03	Workshop on Nanostructures and Devices	Dept. of Physics, NIT, Tiruchirappalli	23.02.08
04	Application of Design of Experiments	NIT, Tiruchirappalli	04.10.07 – 06.10.07
05	Faculty Development Training Programme on ANSYS	NIT, Tiruchirappalli	04.07.07 – 13.07.07
06	Workshop on Finite Element Method for Engineers	Dept. of Civil Engineering, NIT, Tiruchirappalli	01-02.07 – 02.02.07
07	Laser materials Processing	Dept. of Physics, NIT, Tiruchirappalli	09.01.07 – 10.01.07
08	Preconference tutorials on NANO/NERO, BIO and Info Technologies, MEMS, NEMS and Neuro Surgery	Dept. of ICE, NIT, Tiruchirappalli	04.01.07
09	MEMS and Smart Structures	Institute for smart Structures and Systems	11.12.06 – 16.12.06
10	Training on LATEX	Dept. of CSE, NIT, Tiruchirappalli	27.10.06 – 28.10.06
11	Train the Trainer Programme	Autodesk and JNTU college of Engineering	01.03.06 – 02.03.06
12	Recent trends in Manufacturing & Materials	Dept. of Production Engg. NIT, Tiruchirappalli	06.01.06 – 07.01.06
13	Workshop on Forging, Heat treatment & Welding	Indian Metal Component Manufacturers Association	24.09.04 – 26.09.04
15	Virtual Modelling language in Cyberspace	J.J. College of Engineering & Technology, Tiruchirappalli	27.07.02
16	Faculty empowerment Workshop on Mechanism and Applications	Vellore Institute of Technology	20.03.02 – 22.03.02
Conferences Attended			
01	3 rd National Conference on Instrumentation and Control Engineering	NIT, Tiruchirappalli	27.12.07
02	National Conference on “ Recent Advancement in Mechanical Engineering”	K. S. Rangasamy College of Technology, Tiruchengode	21.02.07 – 22.02.07
03	First International and 22 nd AIMTDR Conference	IIT, Roorkee	21.12.06 – 23.12.06
04	All India Manufacturing Technology, Design and Research Conference	Vellore Institute of Technology	20.12.04 – 22.12.04
05	National Conference on Mechanical Engineering	M. S. Ramaiah Institute of Technology	12.03.04 – 13.03.04

Undergone a training program on MICRO/NANO Machining and Fabrication at National University of Singapore, Singapore during 20.05.2008 – 17.06.2008.