CURRICULUM VITAE

1. Name : Dr. Arkanti Krishnaiah
2. Designation : Professor
3. Date of Birth : 7th September, 1970
4. Institution : University College of Engineering (Autonomous)
   Osmania University,
   Hyderabad-500 007, Telangana
5. Department : Mechanical Engineering
6. Field of Specialization : Materials Forming, Severe Plastic Deformation, Nanomaterials
7. Address for Correspondence :

   Department of Mechanical Engineering
   University College of Engineering (A)
   Osmania University, Hyderabad.
   E-mail: arakanti@gmail.com
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8. Academic Qualifications:

Degree	Institute/University	Specialization	Year of Pass	Division
B.E	University College of Engineering Osmania University	Mechanical Engineering	1994	FIRST
M.E	University College of Engineering Osmania University	Production Engineering	1998	FIRST
Ph.D	I.I.T. Madras	Processing of bulk Nanomaterials	2006	FIRST
Post Doc.	Chungnam National University, Daejeon, South Korea	Processing of bulk Nanomaterials	2007-2008	--

9. Teaching Experience: **19 Years**

Organization	Designation	Period	
		From	To
University College of Engineering (A) Osmania University	Assistant Professor	1997	2006
University College of Engineering (A) Osmania University	Associate Professor	2006	2012
University College of Engineering (A), OU	Professor	2012	Till date

10. Number of Publications : **82** (**38** Int. Journal + **29** Int. Conf. + **15** Nat. Conf.)

11. Number of Ph.Ds Guided : 2- Awarded, 2-Submitted and (**6** ongoing)

12. Number of M.E. Projects Guided : 100 completed (5 ongoing)

13. Research Projects :

Year of Funding	Sponsoring Organization	Title of Project	Amount of Grant	Co-Investigators (if any)	Duration of Project
2008	AICTE	Modernization & Upgradation of Production Engineering Laboratory	8 Lakh	--	**2** Years Completed
2009	AICTE	Development of ultrafine grained high strength materials by severe plastic deformation processes	16 Lakh	Dr. P. Ramesh Babu	**3** Years Completed
2013	UGC	Production of Ultra-fine grained Copper Tools by Equal Channel Angular Extrusion for micro-Machining	8.10 Lakh	--	**3** Years Ongoing

14. **Awards/Prizes:** Sudharshan Bhat Memorial Prize for the best Ph.D Thesis in Metallurgical & Materials Engineering for the year 2006 from I.I.T Madras, Chennai.

Fellowship: Post-doctoral fellowship from BK21Education Center for Advanced Intelligent Components and Materials, Chungnam National University, Daejeon, South Korea (2007-08).

Host: Prof. Hyoung Seop Kim, Chungnam National University, Daejeon, South Korea

Thesis Title: Investigations on Producing Ultrafine Grained Microstructures in Bulk Materials by Severe Plastic Deformation Processes.

Supervisor: Prof. Uday Chakkingal, Materials Forming Lab., IIT Madras

15. Countries Visited: **USA** (2005), **Canada** (2006), **South Korea** (2007-08 for PDF) **Australia** (2010), **Thailand** (2014), **China** (2014) and **France** (2014) **Switzerland** (2014)

16. Courses taught at PG and UG :

PG: Metal Forming Science
Metal Processing Science
Materials Science & Technology
Metal Cutting and Machine Tool Design
Computer Integrated Manufacturing
Advanced Manufacturing Techniques

UG: Manufacturing Processes
Metal Cutting and Machine Tools
Machine Drawing
Mechanical Technology
Nanomaterials & Technology

17. Contributions to Curriculum Development:
    (a) **Vice-Principal,** University College of Engineering (A), OU (Feb. 2017 to Till date)
    (b) **Visitor's Nominee for Pondicherry University,** Puducherry (2015-Till date)
    (c) **Head,** Dept. of Mechanical Engineering, UCE, OU (Feb, 2015-Feb. 2017)
    (d) **Additional Controller of Examinations**, Exam Branch, OU (March, 2013- May, 2015)
    (e) **Chairman**, Board of Studies in Mechanical Engineering (OU), (2010-2012)
    (f) **Chairman**, Board of Studies in Mechanical Engineering (Autonomous), (2009-2013)
    (g) **Director**, Entrepreneurship Development Cell, Osmania University (March, 2010-till date)
    (h) **Member,** DRC, Mechanical Engineering Dept., UCE, OU (2010-till date)
    (i) **Member,** DC, Mechanical Engineering Dept., UCE, OU (1998-2002 & 2011-till date)
    (j) **Faculty Adviser**, M.E. (Tool Design) (October 2011- 2015)
    (k) **Faculty Adviser**, M.E. (Production) (2005-07 and 2008-2011)
    (l) **In-charge**, Production Engineering Laboratory (2005-07, 2008-2011 & 2015- till date)
    (m) **Joint Director**, Publications & Press, Osmania University (2008-10)
    (n) **Chairman,** Board of Studies in Mechanical Engineering, Mahatma Gandhi University, Nalgonda, T.S
    (o) **Member,** Board of Studies in Mech. Engg.,Sri Vasavi Engg. College, Tadepallygudem, (Feb.2017-till date)
    (p) **Member,** Board of Studies in Mech. Engg. Institute of Aeronautical Engineering (IARE) (2015- Till date)
    (q) **Member**, Board of Studies in Mech. Engg., JNTU Kakinada (2016-till date)
    (r) **Member**, Board of Studies in Mech. Engg., SNIST, Ghatkesar, R.R Dist. (2009-2014)
    (s) **Member**, Board of Studies in Mech. Engg., CVRCE, Ibrahimpatnam, R.R Dist. (2010-till date)
    (t) **Member**, Board of Studies in Mech. Engg., GMRIT, Rajam, Srikakulam Dist, AP (2014-till date)
    (u) **Member**, Board of Studies in Mech. Engg., SREC, Warangal (2015-till date)
    (v) **Member,** Confidential Team **EAMCET-2010**, JNTUH.
    (w) Regional Co-ordinator, (Hyderabad Zone-IV) **EAMCET-2014**

18. Membership of Professional Bodies

    (a) **Life Member**, The Indian Society for Technical Education (ISTE)
    (b) **Fellow,** Indian Society of Mechanical Engineers (ISME)
    (c) **Life Member**, Indian Society of Theoretical and Applied Mechanics (ISTAM)

19. Seminars/Conferences/Symposia/Workshops etc. Attended: ---- List Enclosed

20. Orientation/Short-term Courses Attended: ---- List Enclosed

21. Workshops/Training Programmes Conducted: ---- List Enclosed

22. Entrepreneurship Programmes Organized: ---- List Enclosed

Sd/-
Dr. ARKANTI KRISHNAIAH

LIST OF PUBLICATIONS

Refereed International Journals

1. Ravi, P.S., **Arakanti Krishnaiah**, Dr. Azizuddin, Md., Design and Experimentation of Roll Bond Evaporator for Room Air Conditioner with R 22 as Refrigerant" International Journal of Engineering, Islamic Republic of Iran on 11th February 2017, Manuscript ID: OMS-16-1043. **Accepted**

2. Viquar M. Mohammed, **Krishnaiah Arkanti**, and Ferhathullah H. Syed, Optimization of Sand Mould Type and Melting Parameters to Reduce Porosity in Al-Si Alloy Castings; 'Leonardo Electronic Journal of Practices and Technologies', Issue 28, pp. 93-106, Jan-Jun. **2016**.

3. Mohammed Viquar Mohiuddin, Syed Ferhathullah Hussainy, **Arkanti Krishnaiah** and P. Laxminarayana, Experimental Investigation to Produce Thin-Walled Sand Casting Using Combination of Casting Simulation and Additive Manufacturing Techniques, 'International Journal of Advanced Manufacturing Technology', Springer, DOI: 10.1007/s00170-016-9659-6, October **2016.**

4. G.Narendar, A.V.S.S Kumara Swami Gupta and **A. Krishnaiah,** Experimental investigation on Transient State Performance of Natural Circulation Loop. Int. Journal of Engineering Research & Technology, 2016. 5(6): p.15-18.

5. G.Narendar, A.V.S.S Kumara Swami Gupta and **A. Krishnaiah**, Investigation on Natural Circulation Loop with Nanofluid. Int. Journal of Engineering Research and Application, 2016. **6**(3): p.53- 58.

6. G.Narendar, A.V.S.S Kumara Swami Gupta and **A. Krishnaiah**, Investigation on Natural Circulation Loop with Compact Heat Exchanger as Heat Source and using Nanofluid as Loop Fluid. International Journal of Systems, Algorithms & Applications, 2013.Volume **3**: p. 31-34.

7. M. Viquar Mohiuddin, **A. Krishnaiah**, S. Ferhathullah Hussainy, P. Laxminarayana, Influence of Process Parameters on Quality of Al7SiMg Alloy Casting using Statistical Techniques; 'Materials Today: Proceedings', Elsevier, DOI: 10.1016/j.matpr.**2016**.11.020. **Accepted**

8. Syed Ferhathullah Hussainy, Viquar Mohiuddin**,** P. Laxminarayana, S. Sundarrajan, and **A. Krishnaiah,** Analysis of Shrinkage Characteristics of Aluminium Silicon Alloy; Journal for Manufacturing Science and Production', De Gruyter, DOI: 10.1515/jmsp-2016-0002, **August 2016**.

9. Ravi, P.S., **Arakanti Krishnaiah**, Boda Hadya, Azizuddin, Md., "Design of Roll Bond Evaporator for Room Air Conditioner using Eco-friendly Refrigerant, R32 (DiFluoroMethane)", International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), ISSN (Print) : 2347 – 6710, Vol. 5, Issue 6, June 2016, pp: 9537-9543.

10. Ravi, P.S., **Arakanti Krishnaiah**, Suresh Akella, Azizuddin, Md., "Evaluation of Refrigerant Side Heat Transfer Coefficient for R 410A to be used in Roll Bond Evaporator for a Window Air Conditioner", International Journal Of Modern Engineering Research (IJMER), ISSN: 2249-6645, 2nd National Conference On Developments, Advances & Trends in Engineering Science [NC- DATES2K16], pp: 53-58.

11. P.S.Ravi, **Arkanti Krishnaiah**, Suresh Akella, Md. Azizuddin, Design of Roll Bond Evaporator for Room Air Conditioner, International Journal of Engineering Research & Technology (IJERT), Vol. 4 Issue 11, (**2015**), 315-320.

12. P.S.Ravi, **Arkanti Krishnaiah**, Suresh Akella, Md. Azizuddin, Evaluation Of Inside Heat Transfer Coefficient of Roll Bond Evaporator for Room Air Conditioner, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 4, Issue 5, (**2015),** 3378-3384**.**

13. S. Ferhathullah Hussainy, M. Viquar Mohiuddin, P. Laxminarayana, **A. Krishnaiah**, S. Sundarrajan, A Practical Approach to Eliminate Defects in Gravity Die Cast Al-Alloy Casting Using Simulation Software, International Journal of Research in Engineering and Technology, Volume: 04 Issue: 01, 114-123, Jan. **(2015)**.

14. Siva Prasad Arikatla, K.Tamil Mannan and **Arkanti Krishnaiah**, Experimental Investigations on Kerf width and Material Removal Rate in Wire Electric Discharge Machining of Titanium Alloy, International Journal of Emerging Research in Management & Technology (IJERMT), Vol. 4, Issue 11, **2015.**

15. M. Viquar Mohiuddin, **A. Krishnaiah**, S. Ferhathullah Hussainy, Effect of Composition of Sand Mold on Mechanical Properties and Density of Al-Alloy Casting Using Taguchi Design Approach, International Journal of Engineering Research and Application, ISSN : 2248-9622, Vol. 5, Issue 3, **(2015)**, pp.37-41.

16. M. Viquar Mohiuddin, **A. Krishnaiah**, S. Ferhathullah Hussainy, Influence of Sand Molding Process Parameters on Product Quality of Al-Si Alloy Casting - An Anova Approach, Published in International Journal of Advance Research in Science and Engineering, ISSN-2319-8354(E), Vol. 4, Special Issue (01), **(2015)**, pp. 1751-1760.

17. Mohammed Viquar Mohiuddin, Syed Ferhathullah Hussainy, **A. Krishnaiah**, P. Laxminarayana and S. Sundarrajan, Experimental Study of Sand Mold Process Parameters on Al-Alloy Sand Casting using DoE, ISOR Journal of Mechanical and Civil Engineering, Volume 11, Issue 6, **(2014)**, pp. 01-06.

18. Ganesh B.K.C, W. Sha, N. Ramanaiah**, Arkanti Krishaniah,** Effect of Shot Peening on Sliding Wear and Tensile Behavior of Titanium Implant Alloys, *International Journal of Materials & Design,* Volume-56, April **(2014)**, Pages 480-486.

19. Narender G, **Arkanti Krishaniah,** N.V.S.S Gupta**,** Experimental Investigation on Natural Circulation Loop with Different States of Loop Fluid at the Starting of Activation of the

Circulation Loop, International Journal of Engineering Research & Technology, Vol. 3 Issue 11, November-(**2014),** 456-1459.

20. Chandrakanth Achelker, N. Srinivasa Rao, R. Rajendra, **Arkanti Krishaniah**, Performance Evaluation of Machine Tool Probe for In-process Inspection of 2D and 3D Geometries, *International Journal of Procedia Technology***,** Volume-14 (**2014**), 244–251.

21. Siva Prasad Arikatla, **Arkanti Krishnaiah** and K.Tamil Mannan, Optimization of Electric Discharge Machining Response Variables using Design of Experiments, *International Journal of Mechanical and Production Engineering,* Volume-2, Issue-1, (**2013**) 82-87.

22. K.Tamil Mannan, Arkanti Krishnaiah and Siva Prasad Arikatla, "Surface Characterization of Electric Discharge Machined Surface of High Speed Steel" International Journal of Advanced Materials Manufacturing and Characterization, IJAMMC, ISSN No. : 2277 – 3886, p no 161-168, Vol 3, Issue 1, 2013.

23. Siva Prasad Arikatla, K.Tamil Mannan & **Arkanti Krishnaiah**, Investigations on Surface Characterization of Wire Electric Discharge Machined Surface of Titanium Alloy, International Journal of Engineering Research and Tech., IJERT, ISSN No. : 0974-3154, p no 773-780, Vol. 6, No. 6, 2013.

24. Siva Prasad Arikatla, **Arkanti Krishnaiah** and K.Tamil Mannan, Analysis of White Layer and Heat Affected Layer in Electric Discharge Machined Surface of AISI T1 High Speed Steel International Journal of Composites Materials and Manufacturing, IJCMM, ISSN No. : 2249 – 4030, p no. 1-7, Vol 1, Issue 1, 2013.

25. Siva Prasad Arikatla, K.Tamil Mannan and **Arkanti Krishnaiah**, "Influence of Pulse Current & Pulse on Time on MRR and Surface Roughness in Electric Discharge Machining of AISI T1 HSS", Advances in Engineering and Technology Series 03, ACEEE, ISSN: 2214-0344.

26. M. Ramulu, DVR Murty and **A. Krishnaiah,** The Study of Plastic Deformation behaviour of IF Steel during Equal Channel Angular Pressing through 120° die angle by FEM, *IJNT:* Volume 3, Number 2, (**2012**) 49-53.

27. G.Narendar, A.V.S.S Kumara Swami Gupta and **A.Krishnaiah**, CFD analysis of Natural Circulation Loop. International Journal on Mechanical & Automobile Engineering, 2012. **22**(1): p. 46-52.

28. G. Mrudula, B. Srinivasulu and **A. Krishnaiah**, Investigation on Mechanical and Microstructural Behaviour of Friction Stir Weldments of ZE42 Magnesium Alloy, *International Journal of Emerging Technology and Advanced Engineering*, Volume 2, Issue 8, (**2012**) 190-197.

29. H. J. Jeong, **A. Krishnaiah,** S. C. Yoon, U. Chakkingal, S.Y. Kang and Hyoung Seop Kim, Finite Element and Experimental Analyses of Repetitive Bending and Straightening of Commercially Pure Copper, *Reviews on Advanced Materials Science* 28 (**2011**) 79-84.

30. **A. Krishnaiah,** K. Kumaran and Uday Chakkingal, Finite Element Analysis of Multi-Pass Equal Channel Angular Extrusion/Pressing Process, *Material Science Forum,* **654-656** (**2010**) 1574-1577.

31. Pham Quang, **A. Krishnaiah**, Sun Ig Hong and Hyoung Seop Kim, Coupled Analysis of Heat Transfer and Deformation in Equal Channel Angular Pressing of Al and Steel, *Materials Transactions*, 50 (**2009**) 40-43.

32. Seung Chae Yoon, **A. Krishnaiah**, Uday Chakkingal and Hyoung Seop Kim, Severe Plastic Deformation and Strain localization in Groove Pressing, *Computational Materials Science*, 43 (**2008**) 641-645.

33. **A. Krishnaiah,** Uday Chakkingal and Hyoung Seop Kim, Mechanical Properties of Commercially Pure Aluminium Subjected to Repetitive Bending and Straightening Process, *Transactions of Indian Institute of Metals*, **61**(**2008**) 1-3.

34. Seung Chae Yoon, Min Hong Seo, **A. Krishnaiah**, Hyoung Seop Kim, Finite element analysis of rotary-die equal channel angular pressing, *Materials Science & Engineering **A***, **490** (**2008**) 289-292.

35. **A. Krishnaiah,** Uday Chakkingal and P. Venugopal, Microstructure and Mechanical Properties of Commercial Purity Copper Resulting from Repeated Groove Pressing Followed by Cold Rolling. *Material Science Forum,* **539** (**2007**) 2198-2203.

36. **A. Krishnaiah,** Uday Chakkingal and P. Venugopal, Microstructure and Mechanical Properties Resulting from Cold Rolling of Equal Channel Angular Extruded Commercial Purity Copper. *Material Science Forum*, **503** (**2006**) 733-738.

37. **A. Krishnaiah,** Uday Chakkingal and P. Venugopal, Applicability of the Groove Pressing Technique for Grain Refinement in Commercial Purity Copper. *Material Science and Engineering A,* **410** (**2005**) 337-340.

38. **A. Krishnaiah,** Uday Chakkingal and P. Venugopal, Production of Ultrafine Grain Sizes in Aluminium Sheets by Severe Plastic Deformation Using the Technique of Groove Pressing. *Scripta Materialia*, **52** (**2005**) 1229–1233.

Presented/Proceedings: International Conferences

1. G.Narendar, A.V.S.S Kumara Swami Gupta and **A. Krishnaiah**, Experimental investigation on the preparation and applications of Nanofluids, 4th international conference on Materials processing and characterisation 12th -13th March 2016.(ID No. 1727) Proceedings will be published by Elsevier Journal "Materials Today: Proceedings" and will be available in

www.sciencedirect.com. (Materials Today: Proceedings is a new journal specializing in the publication of conference proceedings.)

2. M. Viquar Mohiuddina, **A. Krishnaiahb**, S. Ferhathullah Hussainy, P. Laxminarayana, Influence of Process Parameters on Quality of Al7SiMg Alloy Casting using Statistical Techniques, Materials Today: Proceedings 3 (2016) 3726–3733.

3. **M. Viquar Mohiuddin, A. Krishnaiah**, S. Ferhathullah Hussainy, P. Laxminarayana, Influence of process parameters on quality of Al7SiMg alloy casting using statistical techniques; 'International conference on Materials Research and Applications', CMR technical campus, Hyderabad, ICMRA – 2016.

4. **A. Krishnaiah** and M. Ramulu, Experimental Study on Mechanical Properties of Commercially Pure Copper Processed by Severe Plastic Deformation Technique-Equal Channel Angular Extrusion, 18th International Conference on Manufacturing Engineering and Technology (ICMET-2016), Los Angeles, USA, April 4-5, 2016.

5. M. Viquar Mohiuddin, **A. Krishnaiah**, S. Ferhathullah Hussainy, Influence of Sand Molding Process Parameters on Product Quality of Al-Si Alloy Casting-An ANOVA Approach, International Conference on Recent Trends in Engineering Science and Management, JNU New Delhi, ICRTESM , **2015.**

6. Siva Prasad Arikatla, Arkanti Krishnaiah and K.Tamil Mannan, "Optimization of Electric Discharge Machining response variables using Design of Experiments", International Conference on Advanced Research in Mechanical Engineering, Nov 2012, IRNet, Pune, India.

7. K.Tamil Mannan, Arkanti Krishnaiah and Siva Prasad Arikatla, "Surface Characterization of Electric Discharge Machined Surface of High Speed Steel", 2nd Annual International Conference on Material Processing and Characterization (ICMPC 2013), March 2013, GRIET, Hyderabad, India.

8. Siva Prasad Arikatla, K.Tamil Mannan and Arkanti Krishnaiah, "Investigations on Surface Characterization of Wire Electric Discharge Machined Surface of Titanium Alloy", International Conference on "Advances in Mechanical, Automobile & Aerospace Engineering (AMAEE 2013), September 2013, New Delhi, India.

9. Siva Prasad Arikatla, Arkanti Krishnaiah and K.Tamil Mannan, "Analysis of White Layer and Heat Affected Layer in Electric Discharge Machined Surface of AISI T1 High Speed Steel" 2nd International Conference on Applications of Optimization Techniques in Engineering (ICAOTE 2013), September 2013, Kodaikanal, India.

10. Siva Prasad Arikatla, Arkanti Krishnaiah and K.Tamil Mannan, "Influence of EDM Process Parameters on Surface Integrity of AISI T1 HSS", 1st International Conference on Emerging Trends in Engineering and Technology, October 2013, Munnar, India.

11. Siva Prasad Arikatla, K.Tamil Mannan and Arkanti Krishnaiah, "Influence of Pulse Current & Pulse on Time on MRR and Surface Roughness in Electric Discharge Machining of AISI T1 HSS", 4th International Conference on Emerging Trends in Engineering and Technology (IETET 2013), October 2013, Kurukshethra, India.

12. Ravi, P.S., **Dr Arakanti Krishnaiah**, Dr Suresh Akella, Dr Azizuddin, Md., presented paper entitled, "Fanno Line Analysis for selection of a Capillary Tube", at *RITS International Conference on Advancements in Engineering & Management - 2012*, Royal Institute of Technology and Sciences, Hyderabad.

13. Siva Prasad Arikatla, K.Tamil Mannan and Arkanti Krishnaiah, "Optimization of Wire Electric Discharge Machining Process Parameters on kerf width in Machining of Titanium Alloy using Response Surface Methodology", International Conference on Recent Trends in Science and Engineering, December 2015, Amaravathi, Maharastra, India.

14. Siva Prasad Arikatla, K.Tamil Mannan and Arkanti Krishnaiah, "Optimization of Wire Electric Discharge Machining Process Parameters on MRR in Machining of Titanium Alloy using Response Surface Methodology", International Conference on Advanced and Agile Manufacturing Systems (ICAM 2015), December 2015, Sulthanpur, UP, India.

15. Siva Prasad Arikatla, K.Tamil Mannan and Arkanti Krishnaiah, "Optimization of Wire Electric Discharge Machining Process Parameters on Surface Roughness in Machining of Titanium Alloy using RSM", International Conference on Productivity, Efficiency and Competitiveness in Design and Manufacturing (PECDM 2016), January 2016, Coimbatore, TN, India.

16. **Arkanti Krishnaiah,** Nitish S, The sixth International Conference on Nanomaterials by Severe Plastic Deformation (NanoSPD6-2014) Metz, France 30 June-04 July, 2014.

17. **Arkanti Krishnaiah,** Finite Element Modeling of Copper by Equal Channel Angular Extrusion, 5th International Conference on Manufacturing Science and Engineering (ICMSE-2014) Shanghai, **China** 19 -20 April, 2014.

18. **Arkanti Krishnaiah** Padavala Anand and Maloth Ramulu, Evaluation of Mechanical Properties of Commercially Pure Aluminium Deformed by Equal Channel Angular extrusion, International conference on Advances in Civil, Structural and Mechanical Engineering (ACSME-2014), Bangkok, **Thailand**, 4-5 January, **2014**

19. Hyoung Seop Kim and **A. Krishnaiah,** Processing Design of Groove Pressing for Homogeneous Ultrafine Grained Materials, The 7th Pacific Rim International Conference on Advanced Materials and Processing, Cairns, **Australia,** 1-6 August, **2010**.

20. **A. Krishnaiah,** K. Kumaran and Uday Chakkingal, Finite Element Analysis of Multi-Pass Equal Channel Angular Extrusion/Pressing Process, The 7th Pacific Rim International Conference on Advanced Materials and Processing, Cairns, **Australia,** 1-6 August, **2010**.

21. Syed Yousuful Haq and **A. Krishnaiah,** Experimental Investigations on Influence of Process Parameters on Weld Strength of Friction Stir Welded Aluminium Alloy, Symposium on Aluminum Alloys: Fabrication, Characterization and Applications, Seattle, **USA**, 14-18 February, **2010**.

22. Seung Chae Yoon, **A. Krishnaiah**, and Hyoung Seop Kim, Finite Element Analysis of Equal Channel Five-angular Pressing, 2nd International & 23rd AIMTDR Conference (AIMTDR-2008), **I.I.T Madras**, December 15-17, **2008**.

23. **A. Krishnaiah,** Seung Chae Yoon, Uday Chakkingal, Hyoung Seop Kim, Finite Element and Experimental Analyses of Repetitive Bending and Straightening of Commercially Pure Copper, The Eighth Asia-Pacific Conference on Materials Processing (8Th APCMP, 2008**),** June15-20, **2008**, Guilin-Guangzhou, **China.**

24. **A. Krishnaiah**, Uday Chakkingal and Hyoung Seop Kim, Mechanical Properties of Commercially Pure Aluminium Subjected to Repetitive Bending and Straightening Process, International Conference on Metals and Alloys: Past, Present and Future" (METALLO-2007), **I.I.T Kanpur**, India, December 7-10, **2007**.

25. **A. Krishnaiah,** Uday Chakkingal and P. Venugopal, Microstructure and Mechanical Properties of Commercial Purity Copper Resulting from Repeated Groove Pressing Followed by Cold Rolling. International Conference on Processing & Manufacturing of Advanced Materials (THERMEC'2006), 4-8 July, **2006** Vancouver, **Canada**.
26. **A. Krishnaiah,** Uday Chakkingal and P. Venugopal Microstructure and Mechanical Properties Resulting from Cold Rolling of Equal Channel Angular Extruded Commercial Purity Copper. The Third International Conference on Nanomaterials by Severe Plastic Deformation (NanoSPD3), Fukuoka, **Japan**, 22-26 September, **2005**.

27. **A. Krishnaiah,** Uday Chakkingal and P. Venugopal, Applicability of the Groove Pressing Technique for Grain Refinement in Commercial Purity Copper. The Langdon Symposium: Flow and Forming of Crystalline Materials, San Francisco, California, **USA**, 13-17 February, **2005**.

28. **A. Krishnaiah,** K. Kumaran, Uday Chakkingal and P. Venugopal Finite Element Analysis of Equal Channel Angular Extrusion (ECAE) Process. International Symposium for Research Scholars (ISRS-2004), **IIT Madras**, 20-22 December, 2004.

29. **A. Krishnaiah,** Uday Chakkingal and P. Venugopal Production of Ultrafine Grain Sizes in Aluminium Sheets by Severe Plastic Deformation Using the Technique of Groove Pressing, The Eighth International Conference on Non-Ferrous Metals (Non-ferrous Meet-2004), **Bangalore**, 6-7 August 2004.

Presented/Published in National Conferences

1. Poojitha V, **A. Krishnaiah,** Defect prediction in Friction Stir Welding using Zener Hollomom Parameter at the National Conference on Emerging Trends in Mechanical Engineering **(ETIME-2014)** 29-30 December 2014, Dept. of Mechanical Engineering, Osmania University, Hyderabad, ISBN 978-9383635-55-9
2. Hazya B, **A. Krishnaiah,** Effect of Process Parameters on Machining Glass by Abrasive Jet Machine- A study at the National Conference on Emerging Trends in Mechanical Engineering **(ETIME-2014)** 29-30 December 2014, Dept. of Mechanical Engineering, Osmania University, Hyderabad, ISBN 978-9383635-55-9
3. G Narender, **A. Krishnaiah,** Preparation and Characterization of Nanofluids for use in Natural Circulation Loop, National Conference on Emerging Trends in Mechanical Engineering **(ETIME-2014)**, 29-30 December, 2014, UCE, Osmania University, ISBN 978-9383635-55-9
4. G.Narendar, A.V.S.S Kumara Swami Gupta and **A. Krishnaiah,** *Experimental Investigation on Natural Circulation Loop with Compact Heat Exchanger at Heat Source and using Nanofluid as Loop Fluid*, Proceedings of the 22nd National and 11th International, ISHMT-ASME Heat and Mass Transfer Conference, December 28-31, 2013, IIT Kharagpur, Accession code: HMTC 1300817.
5. G.Narendar, A.V.S.S Kumara Swami Gupta and **A. Krishnaiah**, *Performance of Natural circulation loops with nanofluids*, International conference on Nanotechnology & Functional Materials, SNIST and University of South Africa, Jan 4-7, 2012.
6. M. Ramulu, **A. Krishnaiah** and S. Ramachandram Processing of Materials by Equal Channel Angular Pressing Recent Advances in Mechanical Engineering (RAME 2012), Osmania University, Hyderabad, 16-17 March, 2012.
7. B.K.C Ganesh, N. Ramanaiah and **A. Krishnaiah** Effect of Heat Treatment and Shot-Peening on Dry Sliding Wear of Ti-6Al-4V Titanium implant Material, Recent Advances in Mechanical Engineering (RAME 2012), Osmania University, Hyderabad, 16-17 March, 2012.
8. C. Jai Siva Rao and **A. Krishnaiah** Finite Element Simulation on the Deep Drawing of Ti alloy, Recent Advances in Mechanical Engineering (RAME 2012), Osmania University, Hyderabad, 16-17 March, 2012.
9. G. Narendar, **A. Krishnaiah** and A.V.S.S.K Gupta CFD Study of Natural Circulation Loop, Recent Advances in Mechanical Engineering (RAME 2012), Osmania University, Hyderabad, 16-17 March, 2012.

10. P.S Ravi, **A. Krishnaiah** and Suresh Akella Futute AC's – Aesthetic Beauties (Air Conditioners with Roll Bond Evaporators), Recent Advances in Mechanical Engineering (RAME 2012), Osmania University, Hyderabad, 16-17 March, 2012.

11. Ravi, P.S., **Dr Arakanti Krishnaiah**, Dr Suresh Akella., presented paper entitled, "Design Modifications for HC Refrigerators", at National Conference on Advances in Mechanical Engineering, AIME - 2012, conducted by, Kamala Nehru Institute of Technology and Science, Singapur, Huzurabad.

12. **A. Krishnaiah, J. Deepa and K. Buchaiah,** Influence of Process Parameters on Machining of 304 SS and Al by EDM. National Conference on Recent Trends in Manufacturing Technology (**RTMT 2011**), **Anna University, Chennai**, 11-12 March, 2011.

13. **A. Krihnaiah, Uday Chakkingal and P. Venugopal** Study of Constrained Groove Pressing Technique for Grain Refinement and Property Enhancement in Bulk Metallic Materials. Annual Technical Meeting & NMD, organized by Indian Institute of Metals **(IIM), Kolkata**, 14-16 November, 2003.

14. **A. Krishnaiah, Uday Chakkingal and P. Venugopal** Repetitive Bending and Straightening for Grain Refinement of Commercially Pure Copper. Conference of Research Scholars on Materials Science and Engineering (**CRSMSE-2003), IIT Kharagpur**, 30-31 August, 2003.

15. **A. Krishnaiah, Uday Chakkingal and P. Venugopal** Development of Microstructures and Mechanical Properties in Commercial Purity Copper After a Combination of Equal Channel Angular Extrusion and Cold Rolling. Annual Technical Meeting & NMD, organized by Indian Institute of Metals **(IIM), Trivandrum**, 17-19 November, 2004.

1. Seminars/Conferences/Symposia/Workshops etc. Attended

Sl. No.	Name of the Seminar, Conference etc.	Sponsored by	Place & Date
1	The 6th International Conference on Nanomaterials by Severe Plastic Deformation (NanoSPD6-2014)	Labex, DAMAS	Metz, **France** 30 June-04 July, 2014.
2	The 5th International Conference on Manufacturing Science and Engineering (ICMSE-2014)	Beijing Institute of Science & Technology	Shanghai, **China** 19 -20 April, 2014.
3	International conference on Advances in Civil, Structural and Mechanical Engineering (ACSME-2014)	IRED	Bangkok, **Thailand**, 4-5 January, **2014**
4	The 7th International Conference on Advanced Materials & Processing (PRICM 7)	Materials Australia	Cairns, Queensland, **Australia** 2-6 August, **2010**
5	National Workshop on Overview of Nanotechnology and its Emerging Applications-2009	TEQIP UCE, AU	MED, Andhra University, **Visakhapatnam** 18-20 March, 2009
6	2nd International & 23rd AIMTDR Conference (AIMTDR-2008)	I.I.T Madras	I.I.T Madras December 15-17, 2008
7	National Conference on Advanced Materials and Processing	CNU, South Korea	Daejeon, **South Korea**, 18-19 February, **2008**
8	International Conference on Metals and Alloys: Past, Present and Future (METALLO 2007)	I. I. T Kanpur	**I. I. T. Kanpur, UP** 7-10 December, 2007
9	Services to Community and Tribal Development	TEQIP UCE, OU	**UCE, OU, Hyderabad** 21-22 February, 2007
10	Networking activities for TEQIP Institutions	TEQIP UCT, OU	**Hyderabad,** 25-26 September, 2006
11	Non-Destructive Testing (NDT)	TEQIP UCE, OU	MED, UCE, OU Hyderabad, 23-24 September, 2005
12	Entrepreneurship Skills for Professionals	IPE, OU	**Hyderabad** 18-19 August, 2006
13	International Conference on Processing & Manufacturing of Advanced Materials (THERMEC'2006)	THERMEC	Vancouver, **Canada** 4-8 July, **2006**
14	Productivity Summit 2006	IMTMA Bangalore	Chennai 20-22 April, 2006
15	Advances in Computational Structural Mechanics and Fluid Flows	TEQIP UCE, OU	MED, UCE, OU **Hyderabad,** 5th December 2005
16	The Langdon Symposium: Flow and Forming of Crystalline Materials	TMS	**San Francisco**, **USA** 13-17 February, **2005**
17	International Symposium for Research Scholars (ISRS-2004)	I. I. T Madras	**I. I. T. Madras** 20-22 December, 2004

18	Annual Technical Meeting & NMD	Indian Institute of Metals (IIM)	**Trivandrum** 17-19 November, 2004
19	The Eighth International Conference on Non-Ferrous Metals (Non-Ferrous Meet-2004)	Non-Ferrous Society of India	**Bangalore** 6-7 August, 2004
20	Annual Technical Meeting & NMD	Indian Institute of Metals (IIM)	**Kolkata** 14-16 November, 2003
21	Conference of Research Scholars on Materials Science and Engineering (CRSMSE-2003)	IIT Kharagpur	**IIT Kharagpur** 30-31 August, 2003

2. List of Orientation / Short-Term Courses Attended:

Sl. No.	Name of the Orientation and Short-term Course	Organized by	Sponsored by	Duration
1	Management Development Programme on Academic Leadership Programme for TEQIP Institutions	I.I.M Kozhikode	MHRD, NPIU New Delhi	3rd -13th June, **2013**
2	Analysis of Modern Manufacturing Processes	I. I. T. Bombay Mumbai	CEP, QIP IIT Bombay	29th November to 12th December, **2006**
3	Entrepreneurship Development Programme for Faculty of Engineering Colleges	NISIET Hyderabad	DST New Delhi	5th -16th June, **2006**
4	Teaching Methodologies	TTTI Chennai	IIT Madras Chennai	31st January to 2nd February, 2004
5	Computer Applications in Manufacturing Technology	MED, UCE (A), OU, Hyderabad	AICTE ISTE	27th May to 1st June 2002
6	Training Programme for Young Faculty of Engineering Colleges.	UCE (A), OU, Hyderabad	AICTE	26th December 2000 to 13th January 2001
7	6TH SERC School on Advanced Manufacturing Technology	I. I .T. Kanpur	DST	March 15-27, 1999
8	Orientation Course for Degree College Teachers	Academic Staff College, O.U, Hyderabad	UGC	June 7-29, 1999

3. Conferences/Workshops/Training Programmes Conducted:

Sl. No.	Name of the Programme	Organizing Institute	Month & Year	Organized
1.	National Seminar on Recent Trends in Production Engineering	MED, UCE, OU, Hyd	18 January, 2017	Organized
2.	International Conference on Advances in materials and Manufacturing **(ICAMM-2016)**	Jointly by MED and DRDL	8-10 December, 2016	Organized
3.	Advanced Welding Techniques	MED, UCE, OU, Hyd	21-22 October, 2016	Organized
4.	Non- Destructive Testing (NDT)	MED, UCE, OU, Hyd	22-23 April, 2016	Organized
5.	National Conference on Emerging Trends in Mechanical Engineering **(ETIME-2014)**	MED, UCE, OU, Hyd	29-30 December 2014	Organized
6.	National Conference on Recent Advances in Mechanical Engineering **(RAME-2012)**	MED, UCE, OU, Hyd	16-17 March 2012	Organized
7.	Metrology GD &T as per ASME Y14.5	MED, UCE, OU, Hyd	21-22 March 2013	Organized
8.	Advanced Manufacturing Systems	MED, UCE, OU, Hyd	July 30th 2009	Organized
9.	CNC Programming & Machining	MED, UCE, OU, Hyd.	24-26 March 2009	Organized
10.	CNC Programming & Machining	MED, UCE, OU, Hyd.	23-24 March 2007	Organized
11.	Entrepreneurship Awareness camp for Women	EDC, UCE, OU Hyderabad	2-4 February 2007	Organized
12.	Self-Employment and Entrepreneurship for Unemployed Graduates	EDC, UCE, OU Hyderabad	10-11 November 2006	Organized
13.	Promotion of First Generation Entrepreneurs	EDC, UCE, OU Hyderabad	October 20th 2006	Organized
14.	New Enterprise Promotion and Management	EDC, UCE, OU Hyderabad	April 22nd 2006	Organized
15.	4th National Symposium of Research Scholars on Metals & Materials	IIT Madras Chennai	27-28 September 2002	Organized