

# Name : Dr. G. Venkateswarlu

**Area of Specialization:** Welding, Forming, Metal Casting ,Industrial Engineering

## Educational Qualifications:

- Ph.D in Mechanical Engineering, NIT,Warangal
- M.Tech in Manufacturing Engineering, NIFFT, Ranchi
- MBA in Human Resource Management, Central University, Pondicherry
- B.Tech in Mechanical Engineering, Nagarjuna University, Guntur

## Experience:

- Professor, HOD and Dean PG Studies & Research Department of Mechanical Engineering, Sree Chaitanya College of Engineering,Karimnagar, A.P, India, January 2012- till date.
- Research Scholar , NIT Warangal, 2009-2011
- Associate Professor, HOD and Vice Principal Department of Mechanical Engineering, VBIT, Jangaon, 2005– 2009.
- Assistant Professor and HOD, Department of Mechanical Engineering, VBIT, Jangaon, 2002-2005.

## Research Publications

### International Journals

1. **G. Venkateswarlu**, M.J. Davidson and P. Sammaiah, Effect of Friction Stir Processing Process Parameters on the Mechanical Properties of AZ31B Mg Alloy, Journal of Manufacturing and Industrial Engineering, (Accepted). **Faculty of Manufacturing Technologies TUKE.**
2. N Srujana, O Umadevi and **G Venkateswarlu**, Influence of Tool Pin Profile on Microstructure and Mechanical Properties of Friction Stir Welded 6351 Aluminium Alloy,

Vol. (3), 2014, 13-17.**Research and Reviews.**

3. **G.Venkateswarlu**, Influence of Traverse Speed on Formability Limits of Friction Stir Processed Mg AZ31B Alloy, International Journal of Advancements in Technology, Vol. 5 (2), 2014, 38-43. **IJOAT**
4. V.Vinod and **G.Venkateswarlu**, Optimization of process Parameters in Drilling of GFRP Composite using Taguchi Method, Journal of Materials Research and Technology, Vol. 3(1), 2014, 35–41. **Elsevier**.
5. **G.Venkateswarlu**, Ashok Kumar Singh, M.J. Davidson and G.R.N. Tagore, Effect of Microstructure and Texture on Forming Limits in Friction Stir Processed AZ 31B Mg Alloy, Journal of Materials Research and Technology Vol.2(2),2013,135-140 **Elsevier**.
6. **G.Venkateswarlu**, M.J. Davidson and G.R.N. Tagore, Application of Taguchi approach on investigation of formability in biaxial stretching of friction stir processed Mg AZ31B alloy, Trans Indian Inst Metals Vol.67(1),2014,79-86. **Springer**.
7. **G.Venkateswarlu**, M.J. Davidson, G.R.N. Tagore and P.sammaiah, Influence of process parameters on microstructure of friction stir processed Mg AZ31 alloy, International Journal of Surface Engineering Interdisciplinary Materials Science (Accepted). **IGI Global**.
8. **G.Venkateswarlu**, M.J. Davidson and G.R.N. Tagore Effect of overlapping ratio on mechanical properties and formability of friction stir processed Mg AZ31B alloy, Materials and Design,Vol. 45, 2013, pp.480-486. **Elsevier**.
9. G.R.N. Tagore, **G.Venkateswarlu** and M.J. Davidson, Formability studies of friction stir processed Mg AZ 31 B alloy under plane strain stretch forming, Appliedmechanics andmaterials, Vol. 325-326 (2013) pp. 16-21, **Trans Tech Publications**.
10. **G.Venkateswarlu**, M.J. Davidson and G.R.N. Tagore, Modelling studies of the sheet metal formability of friction stir processed Mg AZ31B alloy under stretch forming, Materials and Design,Vol. 40, 2012, pp.1 -6. **Elsevier**
11. **G.Venkateswarlu**, M.J. Davidson and G.R.N. Tagore, Taguchi Optimisation of Friction Stir Processing Parameters to Achieve Maximum Tensile Strength of Mg AZ31B Alloy, Trans Indian Inst Met , Vol. 65(5), 2012, pp. 491–496. **Springer**.
12. **G.Venkateswarlu**, M.J. Davidson and G.R.N. Tagore, Analysis of Sheet Metal Formability Studies of Friction Stir Processed Mg AZ31B Alloy using Response Surface Methodology ,

Procedia Engineering, Vol 38, 2012, pp. 2228-2236. **Elsevier**.

13. **G.Venkateswarlu**, M.J. Davidson and G.R.N. Tagore, Multi Objective Optimization of Friction Stir Processing Parameters on Mg AZ31B Alloy Using Grey Relational Analysis, Journal of Manufacturing Science and Production. Vol. 12, No.3, 2012, pp.111-118. **DE GRUYTER**.
14. P.Raju, **G.Venkateswarlu** and M.J. Davidson , Formability Studies on AA 6061 Sheet. Metal for Automotive Body Structures using Deform-2D, International Journal of Advanced Scientific and Technical Research Vol. 4, No. 2, 2012, pp. 638-644. R S Publications.
15. P. Bharathi, **G.Venkateswarlu** and M.J. Davidson, Analysis of Tube End Formability of AA 2024 Tubes Using FEM, International Journal of Current Engineering and Technology . Vol. 2, No. 1, 2012, pp. 137-142. **INPRESSCO**.
16. Jakirahemed. MD, **G.Venkateswarlu**, and M.J. Davidson, A Study on Effect of Process Parameters on the Expansion of Thin Walled Aluminium 7075 Tubes, International Journal of Advanced Science and Technology, Vol. 36, 2011, pp. 83-94. **SERSC**
17. **G.Venkateswarlu**, M.J. Davidson and G.R.N. Tagore, Effect of Traverse Speed on Microstructure and Mechanical Properties of Friction Stir Processed Mg AZB Alloy , International Journal of Advanced Materials Manufacturing and Characterization, Vol.1(1), pp.52-55.
18. **G.Venkateswarlu**, M.J. Davidson and G.R.N. Tagore, Influence of process parameters on the cup drawing of aluminium 7075 sheet, International Journal of Engineering, Science and Technology, Vol. 2, No. 11, 2010, pp. 41-49. **Multicraft**
19. **G.Venkateswarlu**, M.J. Davidson and G.R.N. Tagore, Finite element simulation of deep drawing of aluminium alloy sheets at elevated temperatures, Journal of Engineering and Applied Sciences, vol. 5, no. 7, July 2010 .pp.93-98. **ARPJ**

### **International conferences:**

1. **G.Venkateswarlu**, M.J. Davidson and G.R.N. Tagore , Effect of Rotational Speed on Formability of Friction Stir Processed Mg AZ31B Alloy, Second International Conference on Advances in Materials Processing and Characterization, (AMPC 2013), Anna University , Chennai, Tamilnadu.
2. G.R.N. Tagore, **G.Venkateswarlu** and M.J. Davidson, Formability studies of friction stir

processed Mg AZ31 Alloy in plane-strain stretch forming, 2<sup>nd</sup> international conference on Mechanical Engineering, Robotics and aerospace, October 20 22,2011,Bucharest,ROMANIA, pp.231-236.

3. **G.Venkateswarlu**, M.J. Davidson and G.R.N. Tagore , Effect of Rotational Speed on Microstructure and Mechanical Properties of Friction Stir Processed Mg AZB Alloy, IEEE International Conference on Advances in Engineering, Science and Management ,(IEEE-ICAESM 2012), Nagpattinam, Tamilnadu, March 30-31,2012, pp.323-327.

### **National conferences:**

1. Formability studies of friction stir processed Mg alloys for automotive vehicles, IIM NMD-ATM, Hyderabad, Nov 14-16, 2011.
2. Friction stir processing technology-A Review,National conference on Advances in Mechanical Engineering,KITS,Huzurabad,February 18<sup>th</sup> ,2012,pp.209-213.
3. Influence of material constants and process parameters on deep drawing processes, Nationalconferenceon Advances in Mechanical Engineering, KITS, Huzurabad, February 18<sup>th</sup> ,2012, pp.187-191.
4. Emerging trends in engineering andTechnology, Vageswari college of Engineering, Karimnagar, 03/04/2013

### **List of Workshops / Conferences Participated**

1. Two week ISTE main workshop on fluid mechanics, IIT Kharagpur, May 20 to May 30, 2014.
2. Work shop on Damage Mechanisms and Analysis of Failure, IIT – Madras, 1<sup>st</sup> and 2<sup>nd</sup> March, 2013.
3. Workshop on Advances in Materials and Processing Technologies, SR Engineering College, Warangal. 3rd and 4th Feb, 2012
4. Workshop on Current trends in Nanoscience and Technology, National Institute of Technology, Warangal, 23rd and 24th December 2011.
5. Workshop on Frontiers of Materials and Manufacturing Processes, National Institute of Technology, Warangal, 28<sup>th</sup> November 2011.
6. Workshop on Frontiers of Materials and manufacturing Processes, National Institute of Technology, Warangal, 28th November, 2011..
7. National workshop on Paper-Presentation Awareness and Research Methodology,

- IIIT, Hyderabad, 26th June, 2011.
8. Indo-Austrian Symposium 2010: Advanced Materials Engineering, Non-Ferrous Materials Technology Development Centre, Hyderabad, 8th -9th, December 2010.
  9. National Training School Program on Design, Modelling and Analysis of Experiments Through Taguchi Philosophy and Its Applications, M.S. Ramaiah Institute of Technology, Bangalore, 23rd – 27th, August 2010.
  10. Workshop on Genetic Algorithms for Mechanical Engineering Optimization Problems, NITW, Warangal, 3rd -5th, March 2006.
  11. Workshop on Power Tools on Modern Workshop Practice, JNTU, Hyderabad, 27th September, 2005.

### **Membership:**

- MISTE, MIE

### **Teaching:**

- Current Subjects: EM, UMP
- Previously Taught Subjects: EG, EM, MMS, OR, IM, MOS, PT, MH&PL, PPC, MSE, DFM
- Labs: Engg Workshop , PT , MSE, MOS, MMS

### **Contact details:**

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