Curriculum vitae

1. Name : **VENKATESWARLU KARODI**
2. Affiliation : Principal Scientist, Materials Science Division
CSIR-National Aerospace Laboratories
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3. Date of birth : August 15, 1964
4. **Educational qualifications:**

Class/Degree	Board/University	Class/ Division	Year of passing
Diploma in Metallurgy	State Board of Technical Education, Hyderabad.	First	1983
Degree in Metallurgy	The Indian Institute of Metals, Kolkata.	Second	1992
M.Tech. * (Engg.Mater)	Barkatullah University, Bhopal.	First class with distinction	1995
Ph.D.+	Indian Institute of Technology, Kharagpur	-	2001

***M. Tech. Thesis:**
Abrasion & Sliding wear behavior of Aluminum alloys & composites

+Doctoral research:
Studies on the thermo-mechanical processing of Al-5Ti and Al-5Ti-1B master alloys used for the grain refinement of Aluminum and its alloys.

5. **Work experience:**

Organization	Period from	to	Duration	Designation
Vijaya Casting Works, Vijayawada (A.P)	Jul'83	Oct'83	4 months	Supervisor
Pioneer Alloy Casting Ltd., Renigunta (A.P)	Nov'83	Dec'84	13months	Supervisor
CSIR Advanced Materials Processing Research Institute, Bhopal (M.P)	Jan'85	Jun'97	~12 years	Tech. Officer
CSIR National Metallurgical Laboratory, Jamshedpur (Jharkhand)	Jun'97	Apr'09	~12 years	Scientist
CSIR National Aerospace Laboratories, Bangalore (Karnataka)	Apr'09	till date	--	Principal Scientist

6. **Awards & Honors:**
   - **A.** Prof. P. Banerjee Memorial Award for Best M. Tech Thesis, in 1995 (Awarded by The Institute of Indian Foundrymen, Kolkata, India).
   - B. Japan International co-operation agency fellowship to undergo training in Japan from Feb-Jul'96
   - C. CSIR Raman Research Fellowship – 2004 (To work on severe plastic deformation of Al and its alloys at University of Southern California, Los Angeles, USA)
   - D. 1st prize for the poster entitled "Microstructural examination of 304SS-Al_2O_3 ceramic joint" International conference on porous ceramics, (POROUS 2008), Bangalore.
   - E. 2nd prize for best oral presentation "Wear performance of hard coatings" at The Indian ceramic society, Jamshedpur (2008)
   - F. The best paper presentation award "A semi automated RCS technique for processing Al alloys" in Annual seminar in Hindi, NAL, Bangalore (2011)
   - G. Fellow, The Institution of Engineers (India)2011
   - H. Honorary Professor, Tumkur University, 2012

I. Associate Professor, AcSIR, New Delhi since 2013
J. INSA fellowship-2014 (to work at Miskolc University, Miskolc, Hungary)
K. "Best presentation award Evaluation" of Metal–Ceramic Composite Joint Under Tensile Loads at Elevated Temperature at International conference IMME17 at NIT, Trichy (2017)
L. "Best poster award" Effect of beryl on wear and thermal expansion behaviour of Al-beryl MMCs, at International conference IMME17 at NIT, Trichy (2017)
M. "Best Oral Presentation Award "Simulation studies and evolution of mechanical properties of AA6061 subjected to RCS" at ICAMMP-18, JNTU Vizainagaram (2018)

7. **Visits abroad:**

i. Technical training on Non-Destructive Inspection Technique at Kyushu International Center, Kitakyushu, JAPAN from Feb'96 to Jul'96.
ii. Advanced Research at University of Southern California, Los Angeles, USA from June'04 to Dec'04.
iii. International conference on Bulk nano-structured materials (BNM-2009) at Ufa, Russia during Sep 22-26, 2009
iv. International conference on Nano-materials by severe plastic deformation (NANOSPD5) at Nanjing, China during March 20-25, 2011
v. Research work at Miskolc University, Miskolc, Hungary, Sep-Oct 2014
vi. International conference on advanced materials and solidification (ICAMS), at Shanghai University during Oct 7-10,2015

8. **Field of Interest:**

Development of Al based metal matrix composites, tribological behavior of Al alloys and composites, Grain refinement of Al alloys, thermo-mechanical processing of Al-Ti and Al-Ti-B master alloys, macro & Microstructural, mechanical and tribological evaluation, severe plastic deformation of Al based materials. High temperature performance of ceramic, and ceramic matrix composites.

9. **Expertise on Characterization Techniques:**

Scanning Electron microscopy, SEM (model JSM-5800 Jeol make, Japan) with EDX facilities (Camscan series 2 with Link AN10000 10/25S energy dispersive x-ray micro analyser), X-ray diffraction analysis (Philips 1710 with PC-APD software), Image analyser for quantitative metallography, Instron universal testing (model 1185,5580) and abrasion & sliding wear testing machines.

10. **Technology transferred:** "Development of mixed metal powder for making a diamond polishing wheel" (M/S Maruti High tech Pvt.Ltd. Surat, India (December'2000)

11. **References**

a. **Prof. T.G. Langdon**, Departments of Aerospace and Mechanical Engineering and Materials Science, University of Southern California, Los Angeles, CA 90089-1453, USA, langdon@usc.edu
b. **Prof. B.S. Murty**, Professor, Department of Metallurgical and Materials Engineering, Indian Institute of Technology, Chennai-600 036, India E-mail: murty@iitm.ac.in
c. **Prof. Madhusudan Chakraborty, Ex-**Director, Indian Institute of Technology Bhubaneswar-751013 Email:- madhu@metal.iitkgp.ac.in

12. Publications

a. Published-91, presented-45+145
b. **Editor**
   i) Proc. of Int. Conf. on "Advanced Materials", (Eds. L.C. Pathak, ***K. Venkateswarlu,*** Amitava Bandopadhyay and Ajoy Kumar Ray), Allied publishers, New Delhi, 2003.
   ii) Proceedings of Scientific Achievements of SC/ST Scientists and Technologists (NCSCST09) (Eds. M.A. Venkataswamy, R. Rajedran and H. Sreedhara, ***K. Venkateswarlu***, Allied publishers, New Delhi, 2010**.**
c. **Reviewer** of i) project proposals submitted for funding to DST and AICTE, New Delhi, ii) peer reviewed journals like MSEA, JAC, Composite A, Surface coating & Technology, Met Mater Trans A, I.E(I) Trans IIM, MMI, JJMI, IJEST.

13. **Patent filed:** An improved process for the preparation of aluminium-rutile composite

through a spray forming technique, 2627DEL2005 filed on 30/9/2005, Patent No.194702, Grant date 17/2/2006

14. Teaching experience: worked as Adjunct faculty in Department of Metallurgical and Materials Engineering at NIT, Jamshedpur (2006-09)

15. Membership in Professional Bodies

Institution of Engineers (India)	Kolkata	**Fellow**
Indian Institute of Foundrymen	Kolkata	Member
Indian Institute of Metals	Kolkata	Life member
Indian Society for Advanced Material Processing	Bangalore	Life member
Luminescence Society of India	Bangalore	Honorary Member
Indian Ceramic Society, Kolkata	Kolkata	Life member

List of Publications in Peer reviewed journals

1. B.K. Prasad, ***K. Venkateswarlu*** O.P. Modi and A.H. Yegneswaran "Influence of size & morphology of silicon particles on the physical, mechanical, and tribological properties of some Aluminum alloys." J. Mater.Sci. Lett., 15(1996) 1773-1776
2. B.K. Prasad, ***K. Venkateswarlu*** S. Das, A.K. Jha and Rupadasgupta "Influence of SiC reinforcement on the abrasive wear response of Al-Cu alloy under conditions of varying abrasive size and applied load." J. Mat.Sci. Lett., 16(1997) 1113-1115.
3. B.K. Prasad, ***K. Venkateswarlu*** A.K. Jha, O.P. Modi, Rupadasgupta and A.H. Yegneswaran, Sliding wear behavior of Al-Cu alloy: the influence of SiC particle reinforcement and test parameters, J. Mat.Sci. Lett.,17(1998)1121-1123
4. B.K. Prasad, ***K. Venkateswarlu*** A.K. Jha, O.P. Modi, Rupadasgupta and A.H. Yegneswaran The effect of primary silicon particles on the sliding wear behavior of Al-Si alloys" J. Mat.Sci. Lett.,17(1998)1381-1383
5. B.K. Prasad, ***K. Venkateswarlu*** A.K. Jha, O.P. Modi, Rupadasgupta and A.H. Yegneswaran, Shanthi Swaroop Shanthi Swaroop Shanthi Swaroop "Sliding wear behavior of Al-Si alloys: role of shape and size of silicon particles and test conditions" Met.Mater. Trans.A,29A (1998)2747-2752
6. B.S. Murty, S.A. Kori, ***K. Venkateswarlu*** and M. Chakraborty, "Manufacturing of Al-Ti-B master alloys by reaction of complex halide salts with Aluminum" J.Mat.Proc.Tech. 89-90 (1999) 152-158

8 ***K. Venkateswarlu,*** B.S. Murty and M. Chakraborty "Effect of hot rolling and heat treatment of Al-5Ti-1B master alloy on the grain refining efficiency of aluminium" Mater.Sci.Eng., A301(2001)180-186

9 A.K. Ray, ***K. Venkateswarlu,*** S.K. Chaudhury, S.K. Das, B. Ravi Kumar and L.C. Pathak, "Fabrication of TiN reinforced metal matrix composite through powder metallurgy route" Mater.Sci. Engg., A338(2002)160-165

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16 ***K. Venkateswarlu,*** Gautam Das, A.K. Pramanik, Cheng Xu and T.G. Langdon, Using ball-indentation to evaluate the properties of an ultrafine-grained Al-2% Si alloy processed by ECAP, Mater. Sci. Eng. A 427 (2006) 188-194

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21 ***K. Venkateswarlu,*** S. Ghosh Chaudhary, L.C. Pathak, Ajoy Kumar Ray, Microstructural examination of service exposed coal liner, Mater Characterization, 58(10) (2007) 1029-1032

22 V.C. Srivastava, R.K. Mandal, S.N. Ojha and ***K. Venkateswarlu,*** "Microstructural Modifications Induced During Spray Deposition of Al-Si-Fe Alloys and Their Mechanical Properties", Mater.Sci. Eng. A 471 (2007) 38-49

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44 S. M. Jigajinni, ***K. Venkateswarlu***, S. A. Kori, Effect of grain refiner cum modifier on mechanical properties of Al-7Si and Al-11Si alloys, Met. Mater. Int., Vol. 19, No. 2 (2013), pp. 171-181

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62. ***K. Venkateswarlu***, AlMgSc alloys for aerospace applications, Luminescence society of India, Karnataka Chapter, MSRIT, Bangalore (2011) **[Invited Talk]**
63. ***K. Venkateswarlu***, Composites-present and future applications, National Seminar trends on engineering Materials, K.S. Institute of Technology, Bangalore (2011) **[Invited Talk]**
64. ***K. Venkateswarlu***, Fabrication of ultra-fine and nano structured materials, National conference on recent trends in Materials Science (RAMS-2011), Dept. of Physics, MSRIT, Bangalore, (2011) **[Invited Talk]**
65. ***K. Venkateswarlu,*** Importance of chemistry and material science for futuristic applications, One Day National Seminar on The Role of Chemistry in building up of Modern Society, (NSCBMS) – 2011 at J.B. Degree and P.G. College, Kavali (2011) **[Invited Talk]**
66. ***K. Venkateswarlu,*** "Advanced Materials-a review", Department of mechanical engineering, CMR Institute of Technology, Bangalore, (2012) **[Invited Talk]**
67. ***K. Venkateswarlu,*** "Advanced Materials for aerospace applications", Two-day conference on latest developments in advanced materials-MCE Hassan, February 25-26, 2012, Department of mechanical engineering, (2012) Prof. Nanjundaram Memorial lecture **[Invited Talk]**
68. ***K. Venkateswarlu***, "Advanced Materials for aerospace applications", Faculty Development Programme on "Recent Developments in Materials Technology, SJM Institute of Technology, Chitradurga, March 12-16, 2012) **[Invited Talk]**
69. ***K. Venkateswarlu***, Guest Lecture, Recent advances in material science for aerospace applications, HKBK college of Engineering, Bangalore, March 16, 2012 **[Invited Talk]**
70. ***K. Venkateswarlu,*** Guest Lecture, HVOF coated diamond reinforced composite coating, Tribology Society of India, PECIT, Bangalore, April 27,2012 **[Invited Talk]**
71. ***K. Venkateswarlu,*** Perception of mechanical engineering- past, present and future, National Conference on "Innovations and Emerging Trends in Mechanical Engineering" (IETME2012), Nagarjuna College of Engineering, Devanahalli, Bangalore, May 10,2012 **[Invited Talk]**
72. ***K. Venkateswarlu***, Guest Lecture on Aerospace Materials, Management Trainee program, HAL, Bangalore, Jul'2012.

73. ***K. Venkateswarlu***, Opportunities for young engineers, Er Perumal Manimekalai College of Engineering, Hosur, Sep'2012
74. M. Ambresha, M. Suresh Kumar, ***K. Venkateswarlu***, V.R. Ranganath, Deformation behavior of as-cast Al-3Mg-0.25Sc alloy, 50th NMD, 66ATM, Jamshedpur (2012)
75. V.R. Ranganath, M. Ambresha, M. Suresh Kumar, ***K. Venkateswarlu***, Hot deformation behavior of Al-3Mg-0.25Sc alloy using processing maps, 50th NMD, 66ATM, Jamshedpur (2012)
76. N.J. Krishnaprasad, K.R. Suresh, H.B. Niranjan, Ambresha, ***K. Venkateswarlu***, Synthesis of aluminum metal matrix composites using beryl as reinforcing particles, 50th NMD, 66ATM, Jamshedpur (2012)
77. ***K. Venkateswarlu***, Influence of metal forming on microstructure and mechanical properties on Al alloys, Proceedings of National Forging Seminar on Recent Trends in metal forming technology and heat treatment, Pgs.71-72, Sep 2012 **[Invited Talk]**
78. ***K. Venkateswarlu,*** PhD for research or for promotion? Recent advances in Materials Science, Reva College of Engineering, Bangalore, Oct,13 (2012) **[Invited Talk]**
79. ***K. Venkateswarlu,*** Recent advances in science and engineering: scope for engineering students, Kuppam Engineering College, Dec29,2012**[Guest Lecture]**
80. M. Stalin, S. Senthil kumar, ***K. Venkateswarlu***, Flexural strength and fracture analysis of recrystallized alumina at elevated temperatures, collection of technical paper (SP1301), Januray,2013, pgs.49-52
81. ***K. Venkateswarlu***, Advances in aerospace materials, Department of Mechanical Engineering, National College of Engineering, Maruthakulam, Tirunelveli, Jan 2013, **[Guest Lecture]**
82. ***K. Venkateswarlu,*** High strength Al alloys for industrial applications, National seminar on Adv. Mat for Ind. applications, Dr AIT, Bangalore, (Apr 2013) **[Invited Talk]**
83. ***K. Venkateswarlu***, Materials-Aerospace sector-applications, HAL, Bangalore (Jul2013), **[Guest Lecture]**
84. ***K. Venkateswarlu,*** Advanced composite materials-an overview, 5days FDP program on processing and application of composite materials, GEC, Bergur (Aug2013) **[Invited Talk]**
85. ***K. Venkateswarlu***, Advanced Materials-, HAL, Bangalore (Sep2013), **[Guest Lecture]**
86. ***K. Venkateswarlu,*** Extraction of metals-influence of chemistry, national conference on frontiers and challenges in chemistry, Don Bosco IT, Bangalore, Bangalore, (Oct2013), **[Invited Talk]**
87. ***K. Venkateswarlu, Hard coatings,*** MetEx India 2013 - International Exhibition on Metal, Materials and Metallurgical Equipment, Technologies & Supplies, Bangalore (2013) **[Invited Talk]**
88. ***K. Venkateswarlu***, Materials for aerospace sector-, HAL, Bangalore (Oct2013), **[Guest Lecture]**
89. ***K. Venkateswarlu,*** Recent advances in composite materials, Don Bosco IT, Bangalore, Bangalore, (Oct2013), **[Guest Lecture]**
90. ***K. Venkateswarlu,*** Influence of chemistry in engineering field, Recent developments in Chemistry & Engineering, Sambram IT, Bangalore, (Oct2013), **[Invited Talk]**
91. ***K. Venkateswarlu,*** Recent advances in developing Al-beryl metal matrix composites, 51st NMD and 67th ATM (2013) Pg.69.
92. Prabhakar M.B, ***K. Venkateswarlu***, Processing of AA2114 alloy using repetitive corrugation and straightening process, 51st NMD and 67th ATM (2013) 213-213.
93. K. Gopala Krishna, K. Sivaprasad, ***K. Venkateswarlu*** and K.C. Hari Kumar, Intergranular corrosion behavior of ultrafine grained AA7075 alloy produced by cryorolling, 51st NMD and 67th ATM (2013) Pg.216-217.
94. Deepak C. Patil, Goutam Das, Mousumi Das, S. A. Kori, ***K. Venkateswarlu***, Effect of high-pressure torsion on Al-2014 aerospace alloy, 51st NMD and 67th ATM (2013), pg.218-219.
95. N.J. Krishna Prasad, K.R. Suresh, H.B. Niranjan, ***K. Venkateswarlu***, Influence of nickel coating on beryl particles in synthesizing aluminum metal matrix composites, National conference on composites, NAL-Bangalore (INCCOM-2013), pg. 9-16.
96. Mohan Vanarotti, Shrishail Padasalgi, B R Sridhar, ***K. Venkateswarlu***, S. A. Kori, Influence of pretreatment on SiC particles on mechanical properties and wear behavior of Al-SiC MMC, National conference on composites, NAL-Bangalore (INCCOM-2013), pg.17-23.
97. V. Bharat, B. Durga Prasad, N.J. Krishnaprasad, ***K. Venkateswarlu***, A finite element method to evaluate contact stresses in bushes made of bronze, Al-SiC and Al- Beryl composites, National conference on composites, NAL-Bangalore (INCCOM-2013), pgs. 168-175.

98. ***K. Venkateswarlu,*** Some design aspects in aerospace sector, National conference on advances in mechanical engineering KSSEM, Bangalore (2013) **[Invited Talk]**
99. ***K. Venkateswarlu,*** Intellectual solutions on publications, One-Day Workshop on Modern aspects of Intellectual solutions on publications, patents and personal management, BEC, Bagalkot, Dec2013 **[Invited Talk]**
100. ***K. Venkateswarlu,*** Nano materials, Student association of mechanical engineering, NMIT, Bangalore, Jan 2014 **[Invited Talk]**
101. S. M. Jigajinni, S. A. Kori, ***K. Venkateswarlu***, Thermal analysis of LM-20 alloy Indian Foundry Congress, Ahmadabad, Feb2014, pp.1-16.
102. ***K. Venkateswarlu,*** Fly ash- an overview, National level workshop on utilization of fly ash. Christ University, Bangalore, Feb2014 [**Invited Talk]**
103. ***K. Venkateswarlu***, New lightweight materials for aerospace applications-, HAL, Bangalore (Feb2014), **[Guest Lecture]**
104. ***K. Venkateswarlu,*** Evaluation of mechanical properties of advanced materials using innovative methods, TEQIP Sponsored Three Day National Level workshop on "Processing and Characterization of Advanced Composite Materials" MSRIT, March 2014 [Invited Talk]
105. ***K. Venkateswarlu***, After Graduation-what next? Dept. Of ECE, BNMIT, Bangalore, 2014 **[Invited Talk]**
106. ***K. Venkateswarlu***, Advances in structural materials for aerospace applications, CALM-2014 Chennai **[Invited Talk]**
107. Deepak C. Patil, S. A. Kori, ***K. Venkateswarlu***, Evolution of mechanical properties and microstructure of aluminium alloys during high pressure torsion**,** CALM-2014, Chennai
108. Prabhakar M. Bhovi**, *K. Venkateswarlu,*** Development of ultrafine grained structure in AA6061 alloy using repetitive corrugation and straightening process, CALM-2014, Chennai
109. ***K. Venkateswarlu***, Advanced materials for aerospace application-a critical review, MSRIT, 2 week FDP program (Dec 2014) **[Invited Talk]**
110. ***K. Venkateswarlu,*** Recent trends on advanced composites materials-a critical review, National Conference YOGIMECH2K15, YSR Engineering College, Proddutуru, (2015) **[Invited Talk]**
111. ***K. Venkateswarlu,*** Material processing-some recent advances, Indo-China Intermeet, Christ university, Bangalore, Feb (2015) **[Invited Talk]**
112. ***K. Venkateswarlu***, After Graduation-Next Plan? BNMIT, Mech. Dept. Bangalore, March (2015) **[Invited Talk]**
113. ***K. Venkateswarlu***, Research Methodologies- a few tips, Bangalore Institute of Technology Bangalore, March (2015) **[Invited Talk]**
114. ***K. Venkateswarlu,*** Advanced materials for aerospace applications, Nehru Institute of technology, Coimbatore March (2015) **[Invited Talk]**
115. ***K. Venkateswarlu,*** Rapid Prototyping-Advanced research-4 days FDP program on RP,3D printing, MSRIT, Bangalore, May (2015) **[Invited Talk]**
116. ***K. Venkateswarlu,*** E-manufacturing, Possible applications on SPD processes, FDP program on e-manufacturing, MSRIT, Bangalore, June (2015) **[Invited Talk]**
117. ***K. Venkateswarlu***, Innovative methods of metal forming-metallurgical aspects, One Two national program on recent advances in metal forming, Acharya Institute of technology, Bangalore, July (2015) **[Invited Talk]**
118. ***K. Venkateswarlu***, Deformed material-its microstructure and properties, 2 say FDP program at PEC University, Bangalore (2015) **[Invited Talk]**
119. ***K. Venkateswarlu,*** Recent advances on aluminum alloys and its composites, IIF, Karnataka Chapter at Saptagiri college of engineering, Bangalore (Aug 2015) **[Invited Talk]**
120. ***K. Venkateswarlu,*** International publications-principles and ethics, RVCE, Sivakasi, Aug (2015) **[Invited Talk]**
121. ***K. Venkateswarlu,*** Research Methodology: In and outs, SNSIT, Coimbatore, Nov (2015) **[Invited Talk]**
122. N. J. Krishna Prasad, V. Bharat, and ***K. Venkateswarlu***, Influence of sintering temperature studies on Al- beryl Metal Matrix composites, National Conference on "Tribology: Energy, Environment and Efficiency", Bhopal (2016), pgs.19-20

123. S.A. Kori, H, R. Manohara and ***K. Venkateswarlu***, High temperature sliding wear response of A413 alloy- influence of its intermetallics, National Conference on tribology, Bhopal (2016), Pg.25
124. V. Bharat, B. Durga Prasad, N.J. Krishnaprasad, ***K. Venkateswarlu***, Orthogonal Design approach for process optimization of dry sliding Wear response sintered Al – Beryl MMCs, National Conference on "Tribology: Energy, Environment and Efficiency", Bhopal (2016), pgs.29.
125. ***K. Venkateswarlu,*** Tribological wear behavior of hard coatings, National Conference on "Tribology: Energy, Environment and Efficiency", Bhopal (2016) **[Invited Talk],** pgs.37
126. Deepak C. Patil, Vinayak Kallannavar, S. A. Kori, ***K. Venkateswarlu***, Finite Element Analysis of HPT, TE and FE Processes, National Conference on tribology, Bhopal (2016), pg.43
127. ***K. Venkateswarlu***, "Composite materials-a review, Sree Krishna College of Engineering and Technology, Coimbatore (2016) **[Invited talk**]
128. ***K. Venkateswarlu*** SPD- a method to fabricate ultra-fine and nano structured alloys, Basaveshwara Engineering College, Bagalkot (2016), One-day workshop on tribology, **[Invited talk**]
129. ***K. Venkateswarlu,*** composites-a critical review, Nagarjuna college of engineering, Bangalore (2016) **[Invited talk**]
130. ***K. Venkateswarlu,*** Tribological wear performance of engineering components, National workshop on tribology, BVB college of engineering, Hubli (2017) **[Invited talk**]
131. ***K. Venkateswarlu,*** Paradigm of processing technologies for high strength aluminium alloys, National Seminar on light alloys, NISST, Trivandrum (2017) **[Invited Talk]**
132. ***K. Venkateswarlu,*** Relevance of grain refinement in Al foundries, IIF, Bangalore Chapter, Annual convention, Chalukya Hotel, Bengaluru **[Invited talk**]
133. K. Barat**, K. Venkateswarlu,** Influence of processing parameters on laser beam welded AA 5024 Al alloy, National Welding Meet (NWM-2017), MS Ramaiah University of Applied Sciences, Bengaluru **[Invited Talk]**
134. ***K. Venkateswarlu***, Advanced Materials, 2 week FDP program, Bangalore Institute of Technology Bangalore, Jan (2018) **[Invited Talk]**
135. ***K. Venkateswarlu***, Aerospace Materials, 1 week FDP program, KLE Society of college of engineering, Belgaum, Jan (2018) **[Invited Talk]**
136. ***K. Venkateswarlu***, Manufacturing Technologies, 1 week FDP program, Cambridge Institute of technology, Bengalore, Jan (2018) **[Invited Talk]**
137. ***K. Venkateswarlu***, Carrier Growth for young engineers, KSEEM, Bangalore, Feb (2018) **[Invited Talk]**
138. ***K. Venkateswarlu***, Aerospace Materials, 1 week FDP program, GEC, Hasan, Feb (2018) **[Invited Talk]**
139. ***K. Venkateswarlu,*** Chief Guest, Mechonance'18, a students' symposium, MITS, Madanapalli, A.P, April (2018)
140. ***K. Venkateswarlu,*** Advanced materials-its role in aerospace sector, Guest Lecture, Acharya Institute of Technology, April (2018)
141. ***K. Venkateswarlu,*** Science, Engineering, and Management: an integrated approach to career planning, Guest Lecture, Dayananda Sagar college of Engineering, Apr (2018)

Project documents

1. M. Suresh Kumar, M. Ambresha, ***K. Venkateswarlu***, V. R. Ranganath, Hot deformation behavior of as cast Al-3Mg-0.25Sc alloy, PD MT 1213, (restricted) CSIR-NAL, Bangalore (2012), pgs., 1-32.
2. Chakradhar RPS, Meenu Srivastava, ***K. Venkateswarlu***, Development of wear resistant Ni/YSZ coating on stainless steel by HVOF method, PD-SED/2015/1014
3. G Prasad, Chakradhar RPS, ***K. Venkateswarlu***, Meenu Srivastava, Preparation and characterization of carbide-oxide based coatings on stainless steel by High velocity oxy-fuel thermal spray method, PD-SED/2015/1016

Theses supervised

Sl.No	Name of the candidate	Degree	Thesis title	Year	University/ College
1.	Himalay Ranjan	B. Tech	Influence of extrusion on the performance of Al-Ti-B master alloy during grain refinement of Al.	2000	BIT, Sindri
2.	P.K. Verma	B. Tech	Effect of Al_3Sc dispersoids on grain refinement & mechanical properties of Al & its alloys	2003	IIT, Roorkee
3.	M. Kumar	B. Tech	Effect of Al_3Sc dispersoids on grain refinement & mechanical properties of Al & its alloys	2003	IIT, Roorkee
4.	Awdesh Kumar Kaushal	B. Tech	Preparation of AlN powder through ball milling	2003	IIT, Roorkee
5.	Kunal Singh	B. Tech	Development of Al-Si-Mg-B alloy for tribological application	2003	IIT, Roorkee
6.	Pratyush Chandra Pandey	B. Tech	Development of Al-Si-Mg-B alloy for tribological application	2003	IIT, Roorkee
7.	Varun Sethi	B. Tech	Studies on the wear behavior of diamond reinforced composite	2004	NIT, Jamshedpur
8.	Naveen T	B. Tech	Comparative study of grain refinement due to Sc addition and through SPD in Al	2005	BIT, Mesra
9.	Shivnath Kerai	B. Tech	Abrasion studies on various engineering materials	2006	BIT, Sindri
10.	Sonaram Tudu	B. Tech	Abrasion studies on various engineering materials	2006	BIT, Sindri
11.	D A Diptam	B. Tech	Homogenization effect on Al-Sc alloys	2006	BIT, Mesra
12.	Gaurav Arora	B. Tech	Repetitive corrugation and straightening of Al alloys	2007	PEC, Chandigarh
13.	Bagan Murmu	B. Tech	Synthesis of Al-SiC composites through microwave technique	2007	BIT, Sindri
14.	Jauhary Korah	B. Tech	Effect of temperature and strain on Al and Al-Sc alloys	2007	BIT, Sindri
15.	P. Rahul	B. Tech	Fabrication of Al-SiC MMC using SiC mats	2007	VIT, Chennai
16.	Atiquzzaman	B. Tech	Influence of WC and diamond particles on HVOF coated samples	2007	NIT, Jamshedpur
17.	Dhiraj Prasad Sinha	B. Tech	Influence of WC and diamond particles on HVOF coated samples	2007	NIT, Jamshedpur
18.	Suman Sourabh	B. Tech	Microwave synthesis of TiN reinforced Al MMCs	2007	NIT, Trichy
19.	Atiquzzaman	B. Tech	Abrasive wear behavior of thermally sprayed DRC coating	2008	NIT, Jamshedpur
20.	Dhiraj Prasad Sinha	B. Tech	Abrasive wear behavior of thermally sprayed DRC coating	2008	NIT, Jamshedpur
21.	Sarthak K	B. Tech	Al-TiN composite synthesis using different sintering techniques	2008	NIT, Jamshedpur
22.	Gold Kumar	B. Tech	Homogenization studies on Al-Sc alloys	2008	BIT, Sindri
23.	Abhishek Kumar	B. Tech	Homogenization studies on Al-Sc alloys	2008	BIT, Sindri

24.	Mani Kunal Sen	B. Tech	Development of nano structured Al alloys through HPT	2009	PEC, Chandigarh
25.	Tushar V. Borekar	B. Tech	Studies on RCS processing methods	2016	IIT, Varanasi
26.	Srinivas Rathode	M Tech	Characterization of 304 stainless steel-alumina brazed joints	2005	BEC, Bagalkot
27.	Anil Kumar Rajak	M. Tech	Tribological wear behavior of Al-Mg alloys	2008	BIT, Sindri
28.	Manoj Barua	M. Tech	Tribological wear behavior of Al alloys composites, synthesized by microwave technique	2009	NIFFT, Ranchi
29.	Saraswati Chadra Pandey	M. Tech	Studies on repetitive corrugation and strengthening of Al alloys	2011	NIT, Calicut
30.	Nishikant Kumar	M. Tech	Studies on cryo rolling effect on AlMgSc alloys	2013	NIT, Warangal
31.	Harsha N	M. Tech	synthesis and characterization of aluminium-beryl metal matrix composites using liquid metallurgy vortex route	2014	MSRIT, Bengaluru
32.	Pradeep Kumar K	M. Tech	Fabrication and characterization of Al-Beryl MMC's through Powder metallurgy	2014	MSRIT, Bengaluru
33.	V.G. Akkimardi	Ph.D.	Studies on the scandium additions to different Al alloys	2011	VTU Belgaum
34.	S.M. Jigajini	Ph.D.	Studies on the development of new combination of grain refiner/modifier and their performance on some LM series foundry alloys	2012	VTU Belgaum
35.	H.R. Manohara	Ph.D.	Studies on various alloying elements in modifying the grain size and tribological wear properties in Al and its alloys	2013	VTU Belgaum
36.	N.J. Krishnaprasad	Ph.D.	Studies on Al –Beryl metal matrix composites	2015	VTU Belgaum
37.	Deepak C Patil	Ph.D.	Studies on the development of nanostructured Al alloys for aerospace applications using high pressure torsion	2017	VTU Belgaum
38.	Jaya Christian	Ph.D.	Physical and mechanical properties of engineering components prepared by RP route	2017	VTU Belgaum
39.	M.B. Prabhakar	Ph.D.	Studies on development of ultrafine grained Al alloys using RCS process	2017	VTU Belgaum
40.	V. Bharat	Ph.D.	Tribological studies on Beryl containing Al MMCs	2018	JNTU, Anantapur.

Projects undertaken

Sl. No	Project Title	Project cost (Rs. Lakhs)	Project No. (sponsored by)	Year	Status
1	Development of Al-SiC Composite Powder through Atomization Technique	03.00	OLP-13631 (NML)	1999	PL
2	Development of Al-based Metal Matrix Composite through spray forming.	03.50	OLP-16431 (NML)	2000	Co-PL
3.	Development of mixed metal powder for making diamond polishing wheel	06.00	SSP-0098 (MHCL,Surat)	2000	Member
4	Development of Al-Ti and Al-Ti-B master alloys and their thermo-mechanical treatment for better grain refining of Al & its alloys	03.60	GAP-063 (DST)	2002	PL
5	Dev. Of diamond reinforced composite coating	04.20	OLP-22031 (NML)	2003	PL
6	Development of ceramic-ceramic brazing alloy	19.00	AR&DB, New Delhi	2005	Co-PL
7	Characterization of Al billets	03.50	STS (NALCO,Bhu)	2004	Member
8	Forging and rolling of Al-SiC composites	03.00	SSP-0144 (RRL, BPL)	2005	Co-PL
9	Fabrication of super hard material and coating	70.00	CMM-0022 (ILP-0005)(CSIR)	2007	PL
10	Fabrication of advanced high-temp. Composites by hipping.	23.00	CMM-0022 (ILP-0006)(CSIR)	2007	Member
11	Dev. Of ceramic-ceramic/metal brazing alloys	35.20	CMM-0001 (ILP-0018)(CSIR)	2007	Member
12	Damage evolution of power plant components subjected to wear	25.00	TECA (COR-022)	2007	PL
13	Wear Behavior of diamond reinforced composite coating	19.20	GAP-0125 (DST)	2008	PL
14	Evaluation of physical and mechanical properties of Al-Sc alloys	10.30	GAP-0127 (AR&DB)	2008	PL
15	High temp flexural testing of ceramic materials	06.25	M-0-276 (SSP-08-48)	2010	PL
16	Continuous Fiber Reinforced CMC (CFCCs) through Chemical Vapor Infiltration (CVI) for High Temperature Applications	150.80	SIP-MT-09	2013	member
17	Design of AlMgSc sheet materials	50.00	NAL, M-8-108	2014	member
18	Wear resistance studies of the conventional hard chrome coating and establishing the HVOF facility	45.00	CSIR, AMPRI ESC-0101	2017	Co-PL
19	Exploratory studies of the metal-composite joint (Ni based super alloy - SiC based composite) for aero engine application	10.00	GTRE, Bangalore	2015	PL
20	"Synthesis of Mg-MAX phase composites for helicopter components"	22.04	AR&DB, New Delhi	2018	PL
21	Study of weldability and fatigue behavior of Al-4.5Mg-0.25Sc alloy for aircraft structural applications	26.06	AR&DB, New Delhi	2019	PL