

CURRICULUM VITAE

Dr. CHANDRA SEKHAR KONDAVEETI

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Summary

As a teacher would like to work in an environment where there is more scope and opportunity to learn new things; making the students to imbibe the shared knowledge, and above all guiding them to be a good human being to face the real-world challenges.

Educational Qualification:

Ph.D in Severe Plastic Deformation (Awarded on 09.12.2019)- **NIT TRICHY**

Title of Thesis: “**Synthesis of Al5083-Nano Ytria Composites Through Mechanical Alloying and Consolidation by Equal Channel Angular Pressing.**”

Institution: **National Institute of Technology, Tiruchirappalli**

Master of Engineering in Manufacturing Systems and Management (Mechanical Engineering) [7.43CGPA, I Class, May 2010]

Institution: **University Departments, CEG Campus, Anna University, Chennai, India.**

Bachelor of Technology in Mechanical Engineering [68%, I class, May 2008]

Institution: **GPREC, Sri Krishnadevaraya University, Anantapur, India.**

Experience:

- **1.6 year** of Teaching Experience as Assistant Professor, Department of Mechanical Engineering, **Gayathri Vidya Parishad School of Engineering, Visakhapatnam.** (August 2019- Till Date).

- **6.5 years** of Research Experience as SRF/JRF in **National Institute of Technology, Tiruchirappalli** (March’2013-August 2019)-DST Project.
Title of Research Work: Consolidation of Mechanically alloyed Al5083 Nano composites by Equal Channel Angular Pressing (ECAP).

- **1 year** of Research Experience as SRF in Institute of Technology, **Banaras Hindu University, Varanasi** (2011-2012)-DST Project.
Title of Research Work: Electro Hydrodynamic Atomization of Micro/Nano Capsule Formation by Targeted Drug Delivery.

- **1 year** of Teaching Experience –**National Institute of Technology, Warangal** (2010-2011)

Subjects handled – Refrigeration and Air Conditioning,
Industrial Engineering,
Elements of Mechanical Engineering
Engineering Graphics.
Metal Cutting and Machine Tools

Labs handled – Manufacturing Technology Lab-I,
Manufacturing Technology Lab-II,
Workshop Technology Lab,
Auto CAD.

Teaching Areas of Interest:

Manufacturing Process and Technology, Materials Engineering, Industrial Engineering,
Theory of Machines.

Research Area of Interest:

Severe Plastic Deformation, Powder Processing and Characterization, Simulation of Metal
Forming Process.

Computer Proficiency:

Management Software	Tora, Lindo.
Analysis Software	Ansys (AU-FRG INSTITUTE FOR CAD/CAM Chennai).
Design Software	AutoCAD 2000 (CITD-HYD), Catia.
Manufacturing Software	NX-4 with Uni-Graphics (AU-FRG INSTITUTE FOR CAD/CAM).

Equipments/Machines/Packages handled:

- Familiar with the working of equipments like Melting Furnaces, Universal Testing Machine (UTM)-100T, Hydarullic Press(100T), ECAP-back Pressure Press, Rigaku Ultima-III XRD machine, Impact Tester, Tensometer, Brinell hardness tester, Rockwell Hardness Tester, Vickers Hardness tester, High-Energy Ball Mill, Planetary Ball Milling and Blender, Formability Machine.
- Can handle Scanning Electron Microscopes, Micro hardness m/c, Rolling Mill, Image Analyzer, Slow speed cutter and Polishing equipment's.
- Can work with Ansys, CATIA Uni-Graphics and Autocad packages.

Sponsored Projects Applied

1. **K. Chandra Sekhar** (Principle Investigator) , “ Inter Diffusion of Cu-Ti as Bimetallic Rod through Equal Channel Angular Pressing”, DST-SERB (Start-Up Research Grant)
2. P.V. Vinay (Principle Investigator) and **K. Chandra Sekhar** (Co- Principle Investigator), “Surface Modifications of Al7075 by Dispersion of Nano yttria through Friction Stir Processing”, DST-SERB (Core Research Grant)

Publications:

- 1) **K.Chandra Sekhar**, S.Kumaran, B.Ravisankar, “Effect of Milling Time on Densification of Al5083 Nano composite by Equal Channel Angular Pressing”, 2019, Material Science Forum, Vol.969,662-668. <https://doi.org/10.4028/www.scientific.net/MSF.969.662>
- 2) **K.Chandra Sekhar**, S.Kumaran, B.Ravisankar, “Synthesis of Al5083 alloy by mechanical alloying and Consolidation by ECAP”, 2019, Material Science Forum, Vol. 969, 68-72.
- 3) A Ghosh, M Ghosh, K Gudimetla, R Kalsar, LAI Kestens, **CS Kondaveeti**, “Development of ultrafine grained Al–Zn–Mg–Cu alloy by equal channel angular pressing: microstructure, texture and mechanical properties”, (2020), Archives of Civil and Mechanical Engineering 20 (1), 7.
- 4) **K.Chandra Sekhar**, Pravir Polly, S.Kumaran, B.Ravisankar, “Consolidation Of Mechanically Alloyed Al5083 -5wt% Y₂O₃ Nano-Composite By Equal Channel Angular Pressing (ECAP)”, 2014, Transactions of Powder Metallurgy Association of India, Vol.40 (2), 32-36.
- 5) **K.Chandra Sekhar**, Kondaiah.G, B.Ravisankar, “Metallurgical and Mechanical properties of Mild Steel processed by Equal Channel Angular Pressing ECAP, 2015, Transactions of Indian Institute of Metals (Accepted: DOI 10.1007/s12666-016-0862-3.)
- 6) Krishna K.S.V.B.R.; Vigneshwaran S; **Chandra Sekhar K**; Sarma S.R. Akella; Narayanasamy R; K.Sivaprasad:Venkateswarlu K., ““Mechanical Behavior and Void Coalescence Analysis of Cryorolled AA8090 Alloy””, International Journal of Advanced Manufacturing technology (Accepted: DOI 10.1007/s00170-016-8863-2)
- 7) Pravir Polly, **K.Chandra Sekhar**, B.Ravisankar, S.Kumaran, “Densification Of Mechanically Alloyed Al5083 -5wt% Y₂O₃ Nano-Composite By Equal Channel Angular Pressing”, Applied Mechanics and Materials Vols. 592-594 (2014) pp 963-967.
- 8) Kondaiah Gudimetla, B Chaithanyakrushna, **K Chandra Sekhar**, B Ravisankar and S Kumaran, “Densification and Consolidation of Al 5083 Alloy Powder by Equal Channel Angular Pressing, Applied Mechanics and Materials, Vols. 592-594 (2014) pp.112-116
- 9) G.Kondaiah, **K.Chandra Sekhar**, B.Chaitanyakrushna, B.Ravisankar and S. Kumaran, “Characterization of Mechanically Alloyed Al5083 Alloy and Composite and Consolidation by Equal Channel Angular Pressing”, Applied Mechanics and Materials Vols 764 (2015), 23- 27.
- 10) S.Senthil Kumaran, **Chandra Sekhar K.**, A.Preetam S. Balasivanandha Prabu, "Fabrication of Al₂O₃ based ceramic matrix composite by conventional sintering and Sol-Gel process", International Journal of Advanced Material Research, Vol 335-336, 2011, pp.856-860.
- 11) **K. Chandrasekhar**, B. Ravisankar, S. Kumaran, “Synthesis of Al5083 Nano Composite Through Mechanical Alloying and Consolidation by Equal Channel Angular Pressing”, (2020), Materials Today: Proceedings (In Review).
- 12) **K. Chandra Sekhar**, B. Ravisankar, S. Kumaran, “Equal Channel Angular Pressing of

Mechanically Milled Al5083 Nano Composites”, (2020), Material Science Forum (Accepted).

Conferences

- 1) **K.Chandra Sekhar**, Pravir Polly, S.Kumaran, B.Ravisankar, “Influence of Milling Time on Consolidation of Al5083 Nano composite by Equal Channel Angular Pressing”, International Symposium for Research Scholars, 2015, IIT Madras, Chennai.
- 2) **K.Chandra Sekhar**, Subramanyam Adabala, B.Ravisankar, S.Kumaran, “Characterisation of mechanically alloyed al5083 alloy and composite processed by equal channel angular pressing”, 2015, IIM-ATM National Metallurgical Day, PSG college of Technology, Coimbatore.
- 3) **Chandra Sekhar K.**, S.Senthil Kumaran, S.Balasivanandha Prabu, "Characterization of Al-Al₂O₃ Ceramic Matrix Composite", National Conference on Recent Innovation in Production Engineering (RIPE-2010), April 16-17, 2010, Anna University, Chennai.
- 4) K.S.V.B.R. Krishna, S.Vigneshwaran, **K.Chandra Sekhar**, Sarma S.R. Akella, K.Sivaprasad, R.Narayanasamy, “Influence of Rolling Temperature On Void Coalescence Behavior of Cryorolled Aluminium-Lithium Alloy”, National Conference on Advances in Materials Processing and Characterization (NCAMPC-2016), 4-6th January 2015, NIT Warangal.

Workshops/Symposium

- 1) “NRCM-Workshop on Texture of Materials” conducted by UGC-Network Resources Centre for Materials, Department of Materials Engineering, Indian Institute of Science, Bangalore.
- 2) “NRCM symposium and Discussion on Severe Plastic Deformation and Bulk Nano-structured Materials” conducted by UGC-Network Resources Centre for Materials, Department of Materials Engineering, Indian Institute of Science, Bangalore.
- 3) “National workshop on Advanced Medical Applications Using MIMICS software” conducted by Department of Mechanical Engineering, National Institute of Technology Warangal.
- 4) Five-Day short-Term Course on “Essential Techniques for Research Techniques in Manufacturing and Measurements” organized by Department of Mechanical Engineering, National Institute of Technology, Warangal.
- 5) NRB funded Workshop on “Surface Modification of Structural Materials” organizes by Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli.
- 6) Three-Day Short-Term Course on “Applications of Finite Element Method in Academics and Industrial Research” conducted by Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli.
- 7) Short Term Course on “Modelling of Manufacturing Process” sponsored by TEQIP conducted at Department of Production Engineering, National Institute of Technology, Tiruchirappalli.

- 8) Five days “GIAN course on Synthesis, Characterization, Processing and Applications of Nano Materials” conducted by MHRD-Govt. of INDIA at National Institute of Technology Warangal from 07 March 2016 to 11 March 2016.

References:

Referee 1

Dr. B. Ravisankar
Professor,
Department of Metallurgical and Materials Engineering,
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Referee 2

Dr. S. Kumaran,
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National Institute of Technology, Tiruchirappalli 620015.
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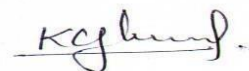
Personal Profile:

Name	: Chandra Sekhar. K
Father's name	: Siva Prasad. K
Mother's name	: Katyayani. K
Spouse name	: Dr. Padmavathi
Sex	: Male
Date of Birth	: 13-04-1986
Nationality	: INDIAN
Language Known	: English, Hindi, Telugu (Speak, Read and Write) Tamil (Read and Speak)
Interests	: Science with Spirituality, Music, Reading and Chanting Vedas
Hobbies	: Driving and Browsing.

DECLARATION

I, **Chandra Sekhar. K** do here by confirm that the information given above is true to the best of my knowledge.

DATE: 04.04.2021,
PLACE: Visakhapatnam.



(K. CHANDRA SEKHAR)