



## Dr. S Naga Sarada

M.Tech,Ph.D

Professor

ISTE, ISHMT,IAENG

Mechanical Engineering

### Areas of Interest:

Convective Heat Transfer, Thermodynamics, I.C. Engines, Refrigeration & Air conditioning, Heat Exchangers

Specialized in Thermal Engineering. Research interests include Heat Transfer, I C Engines & Thermodynamics, Refrigeration & Airconditioning

### -> Educational & Professional

#### -> Academic Qualifications

-> Ph.D in Augmentation of Turbulent flow heat transfer using tube inserts (2004-2011)

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M.Tech in Thermal Engineering with First class with Distinction (1994-1996)

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B.Tech in Mechanical Engineering with First class with Distinction (1989-1993)

#### -> Professional Experience

#### -> Industrial Experience

-> Senior Assistant Engineer, TATA CONSULTING ENGINEERS (1997 - 2002)

#### -> At JNTUH

-> Professor, JNTUH (2012 - Till Date)

-> Associate Professor, JNTUH (2003 - 2011)

### -> Publications

#### -> International Journals

-> Ravi Gugulothu, Narsimhulu Sanke, Naga Sarada Somanchi, *A numerical study of water based nanofluids in shell and tube heat exchanger*, Energy harvesting and systems, pp.1-11, De Gruyter, March . 2023

-> Ravi Gugulothu, Naga Sarada Somanchi, M.T. Naik, *Numerical investigation of baffle spacing in a shell and tube heat exchanger with segmental baffle*, Applied Analysis, Computation and Mathematical Modelling in Engineering , ISBN No. doi.org/10.1007/978-981-19-1824-7\_6 , pp.83-98, 2022

-> Dheeraj Joshi, A V Narasimha Rao, S. Nagasarada, *A Review Over Different Types of Solar Cooker*, Design Engineering, ISBN No.0011-9342, Issue No.9, pp.2950-2967, 2021

-> Nookaraju, S.Naga Sarada, Kurma Rao, *Optimization of Process Parameters of Sintered Copper Wick Heat Pipe Using Response Surface Methodology*, Theoretical, Computational, and Experimental Solutions to Thermo-Fluid Systems, , pp.137-148, 2021

-> B Ch Nookaraju, PSV Kurmarao, S Naga Sarada, *Experimental and transient thermal analysis of screen mesh wick heat pipe*, Materials Today: Proceedings, Vol No.46, pp.9920-9926, 2021

-> Nagini.Y., M.V.S.Murali krishna, S.Naga Sarada, *Reduction of pollutants in SI engine with varied injection timing*, International Journal of Automobile Engineering, Vol No.10, Issue No.3, pp.59-66, June, 2020

-> Nagini.Y., M.V.S.Murali krishna, S.Naga Sarada, *Impact of spark ignition timing on pollutants of modified combustion chamber of SI Engine*, International Journal of Mechanical and Production , Vol No.10, Issue No.3, pp.1131-1138, June, 2020

-> Nagini.Y., M.V.S.Murali Krishna, S.Naga Sarada, *Thermal analysis of modified combustion chamber of spark ignition engine*, International Journal of Mechanical Engineering and Technology, Vol No.10, Issue No.5, pp.75-82, May, 2019

-> Ravi Gugulothu, Naga sarada somanchi, Devender, Pranavi, Neeraja Deepika, *Solar water distillation using different Phase change materials*, Materials Today Proceedings 4, pp.314-321, 2017

-> Ravi Gugulothu, Naga sarada somanchi, K.Vijaya Kumar Reddy, kavya akkiraju, *A Review on enhancement of heat transfer in heat exchanger with different inserts*, Materials Today Proceedings 4, pp.1045-1050, 2017

-> Ravi Gugulothu, K.Vijaya Kumar Reddy, Naga Sarada somanchi, Lalith Adithya, *A Review on enhancement of heat transfer techniques*, Materials Today Proceedings 4, pp.1051-1056, 2017

-> BC NookaRaju, PSVK Rao, S.Naga Sarada, *Experimental and Numerical investigation on enhancement in thermal characteristics of sintered copper wick heat pipe using deionized water as fluid*, Materials Today Proceedings 4, Vol No.2, pp.1321-1331, 2017

-> Nagini.Y., M V S Muralikrishna, S Naga Sarada, *Control Of Pollution Levels of Four Stroke Spark Ignition Engine Fuelled With Gasohol*, International Journal of Advanced Scientific and Technical Research, ISBN No.ISSN 2249-9954, Vol No.3, Issue No.6, pp.29-34, RS , May-June, 2016

-> Nagini.Y., M V S Muralikrishna, S Naga Sarada, *Experimental Investigations on Performance Parameters with Four Stroke Spark Ignition Engine with Copper Coated Combustion Chamber with Gasohol*, International Journal of Current Engineering and Technology, ISBN No.E-ISSN 2277 - 4106, P-ISSN 2347 - 5161, Vol No.6, Issue No.3, pp.841-846, June, 2016

-> S Naga Sarada , Jaya Krishna. P., *A Review On Heat Transfer Augmentation Using Twisted Tape Inserts Having Different Cut Sections In A Circular Tube*, International Journal Of Current Engineering And Scientific Research, ISBN No.ISSN 2393-8374, Vol No.3, Issue No.9, pp.130-137, 2016

-> S Naga Sarada, Jaya Krishna. P., *Experimental Investigations On Heat Transfer Augmentation Using Rotating V-Cut Twisted Tape Inserts In A Circular Tube*, International Journal Of Advances In Production And Mechanical Engineering, ISBN No.ISSN :2394-6202, Vol No.2, Issue No.5, pp.66-74, 2016

-> B.Ch.Nookaraju , P S V Kurma Rao , S Naga Sarada , T. Saikiran, *Experimental Investigations and comparison of Heat Pipes*, International Journal of Innovations in Engineering and Technology , Vol No.5, Issue No.3, pp.128-135, June, 2015

-> Naga Sarada Somanchi, *Experimental Investigations on Performance Evaluation of A Single Basin Solar Still Using Different Energy Absorbing Materials*, Aquatic Procedia 4(2015), Vol No.4, pp.1483-1491, Elsevier Publication, March, 2015

-> Naga Sarada Somanchi, *EXPERIMENTAL INVESTIGATIONS ON HEAT TRANSFER ENHANCEMENT IN A HORIZONTAL TUBE USING CONVERGING AND DIVERGING CONICAL STRIP INSERTS*, Applied Mechanics and Materials, Vol No.592-594, pp.1590-1595, Trans Tech Publications, Switzerland, July, 2014

-> Naga Sarada Somanchi, *Solar Water Distillation Using Two Different Phase Change Materials*, Applied Mechanics and Materials, Vol No.592-594, pp.2409-2415, Trans Tech Publications, Switzerland, June, 2014

-> Naga Sarada Somanchi, *Experimental Study of Solar Still with Energy Storage Material*, Journal of Sustainable Manufacturing and Renewable Energy, ISBN No.2153-6821, Vol No.3, Nova Science Publishers, Inc., November, 2014

-> L. Syam Sundar, Md Hashim Farooq, S Naga Sarada, MK Singh, *Experimental thermal conductivity of ethylene glycol and water mixture based low volume concentration of Al<sub>2</sub>O<sub>3</sub> and CuO nanofluids*, International Communications in Heat and Mass Transfer, Vol No.41, pp.41-46, Pergamon, February, 2013

-> S Naga Sarada, Ravi gugulothu, *Experimental Investigations on Augmentation of Turbulent Flow Heat Transfer in A Horizontal Tube using square leaf inserts*, International Journal of Emerging Technology and Advanced Engineering , August , 2013

-> S. Naga Sarada, *Experimental Investigations on Augmentation of Turbulent Flow Heat Transfer in A Horizontal Tube Using Square Leaf Inserts*, International Journal of Emerging Technology and Advanced Engineering, Vol No.3, Issue No.8, pp.420-424, August, 2013

-> M Reddy, Veerredhi Vasudeva Rao, B Reddy, S Naga Sarada , L Ramesh, *Thermal conductivity measurements of ethylene glycol water based TiO<sub>2</sub> nanofluids*, Nanoscience and Nanotechnology Letters, Vol No.4 , Issue No.1, pp.105-109, American Scientific Publishers, January, 2012

-> D Eswaraiiah, S Naga Sarada, *Numerical Investigations On Augmentation Of Heat Transfer In Oil Coolers*, International Journal of Engineering Research and Technology, Vol No.1, Issue No.7, ESRSA Publications, September, 2012

-> Y Nagini, S Naga Sarada, MVS Murali Krishna, PVK Murthy, *Comparative Study on Emissions of Four Stroke Copper Coated Spark Ignition Engine with Catalytic Converter with Different Catalysts with Gasohol*, International Energy Journal, Vol No.13, Issue No.04, December, 2012

-> M Reddy, V Rao, S Naga Sarada, B Reddy, *Temperature Dependence of Thermal Conductivity of Water Based TiO<sub>2</sub> Nanofluids*, International Journal of Micro-Nano Scale Transport, Vol No.3, Issue No.1-2, pp.43-52, Multi Science Publishing, June, 2012

-> A comparative study of the performance of a Low Heat Rejection Engine with Three Different Levels of insulation with vegetable oil operation, The Archive of Mechanical Engineering, Vol No.59, pp.101-128, 2012

-> S Naga Sarada, K N Murthy, Dakshina Murthy, *Simulation of laminar flow heat transfer in oil coolers*, Elixir Journal of Mechanical Engineering, Vol No.37, pp.3721-3725, 2011

-> Chandra Sekhar Reddy, Veerredhi Vasudeva Rao, S Naga Sarada, *Temperature dependence of thermal conductivity of water based TiO<sub>2</sub> nano fluids*, Proceedings of the 21st National & 10TH ISHMT-ASME Heat and Mass Transfer Conference, December 27-30, 2011

-> S Naga Sarada, AV Sita Rama Raju, K Kalyani Radha, L Shyam Sunder, *Enhancement of heat transfer using varying width twisted tape inserts*, International Journal of Engineering, Science and Technology, Vol No.2, Issue No.6, pp.107-118, MultiCraft Limited, November, 2010

-> S Naga Sarada, M Shailaja, AV Sita Rama Raju, K Kalyani Radha, *Optimization of injection pressure for a compression ignition engine with cotton seed oil as an alternate fuel*, International Journal of Engineering, Science and Technology, Vol No.2, Issue No.6, pp.142-149, MultiCraft Limited, 2010

-> SN Sarada , AV Sita Rama Raju,, KK Radha, *Experimental and Numerical Analysis of Turbulent Flow Heat Transfer Enhancement in a Horizontal Circular Tube Using Mesh Inserts*, Journal of Energy and Power Engineering, Vol No.4, Issue No.7, David Publishing Company, Inc., July, 2010

-> Performance Evaluation of Low Heat Rejection Diesel Engine with Waste Fried Vegetable Oil, International Journal of Mechanical Engineering and Material Sciences , Vol No.3, Issue No.1, pp.1-8, Jan-June, 2010

-> MVS Murali Krishna, S Naga Sarada, G Sudha Rani, K Kalyani Radha, VVR Seshagiri Rao, *A comparative study on exhaust emissions of a low heat rejection diesel engine with two different levels of insulation with carbureted methanol and crude pongamia oil*, Pollution Research , Vol No.28, Issue No.1, pp.93-96, 2009

-> S Naga Sarada, AV Sita Rama Raju, K.Kalyani Radha, *Experimental Investigations of Turbulent Heat Transfer in a Horizontal Tube with Longitudinal strips*, European Journal of Mechanical and Environmental Engineering, Vol No.3, pp.22-27, 2009

-> S Naga Sarada, AV Sita Rama Raju, Kalyani Radha, *Experimental investigations in a circular tube to enhance turbulent heat transfer using mesh inserts*, ARPJ Journal of Engineering and Applied Sciences, ISBN No.ISSN 1819-6608, Vol No.4 , Issue No.5, pp.53-60, July, 2009

-> A comparative study of the exhaust emissions of a low heat rejection engine with two different levels of insulation with Jatropa oil, Indian J. Environ. & Ecoplan, Vol No.323, Issue No.1, pp.327, 2008

-> S Naga Sarada, M V S Muralikrishna, *A comparative study on exhaust emissions of a low heat rejection diesel engine with two different levels of insulation with pongamia oil*, Vol No.12, Issue No.2, pp.383-386, 2008

-> S Naga Sarada, AVSita Rama raju, Kalyani Radha, *Enhancement of Heat Transfer in a Horizontal Tube with Wire coil inserts- A CFD analysis*, International Journal of Applied Engineering Research, ISBN No.ISSN 0973-4562, Vol No. 3, Issue No.9, pp.1149-1159, September, 2008

-> S Naga Sarada, M V S Muralikrishna, *Investigations on Low Heat Rejection diesel engine with carbureted Methanol and crude Jatropa oil as alternate fuels*, SETC, Japan, October , 2007

-> S Naga Sarada, M V S Muralikrishna, Kalyani Radha, *Investigations on performance and emissions of a low heat rejection diesel engine with carbureted methanol and crude Jatropa oil as Alternate fuels*, International conference and XX National conference on IC engines and combustion JNTU, Hyderabad, Vol No.C 31, pp.661-666, December, 2007

-> S Naga Sarada, K.Kalyani radha, *Experimental Investigations on a 4- stroke CI engine using alternate fuels*, 31st national conference and XX National conference on IC engines and combustion, JNTU, Hyderabad, pp.640-643, December, 2007

#### National Journals

-> S Naga Sarada, M V S Muralikrishna, *A comparative study on exhaust emissions of a low heat rejection diesel engine with two different levels of insulation with alternate fuels*, Indian Journal of Environmental Protection, Vol No.28, Issue No.8, pp.690-694, August, 2008

#### International Conference

- > Naga Sarada Somanchi, *A Review on Enhancement of Heat Transfer in Heat Exchanger with Different Inserts*, 5th International Conference on Materials Processing and Characterization (ICMPC-2016), Vol No.5, Department of Mechanical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, in association with Materials Today: Proceedings, ELSEVIER Journal, March, 2016
- > Naga Sarada Somanchi, *A Review on Enhancement of Heat Transfer Techniques*, 5th International Conference on Materials Processing and Characterization (ICMPC-2016), Vol No.5, Department of Mechanical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, in association with Materials Today: Proceedings, ELSEVIER Journal, March, 2016
- > Naga Sarada Somanchi, *Solar Water Distillation Using Different Phase Change Materials*, 5th International Conference on Materials Processing and Characterization (ICMPC-2016), Department of Mechanical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, in association with Materials Today: Proceedings, ELSEVIER Journal, March, 2016
- > Naga Sarada Somanchi, Jaya Krishna.M., Ravi Gugulothu, Sreenivasa Rao.M., *Experimental Investigation of Heat Transfer Augmentation in a Circular Tube Using Rotating Twisted Tape Insert*, Asian Congress on Gas Turbines, Organized by Department of Aerospace Engineering, Indian Institute of Technology, November 14-16, 2016
- > S.Naga Sarada, Ravi gugulothu, *A Review on Baffles for Shell and Tube Heat Exchangers*, Proceedings of the Asian Congress on Gas Turbines ACGT-2016, Department of Aerospace Engineering, Indian Institute of Technology Bombay, 14-16 November, 2016
- > Maddali VS Murali Krishna, Ch Indira Priyadarshini, Y Nagini, S Naga Sarada, P Usha Sri, D Srikanth, *Effect of Spark Ignition Timing on Copper Coated Spark Ignition Engine With Alcohol Blended Gasoline With Catalytic Converter*, ASME 2015 International Mechanical Engineering Congress and Exposition, American Society of Mechanical Engineers, November, 2015
- > Nooka Raju.B., Kurma Rao.P.S.V., S.Naga Sarada, *Experimental and numerical analysis of thermal performance of heat pipes*, International conference on computational Heat and mass transfer, ISBN No.Procedia Engineering, Vol No.127, pp.800-808, Elsevier, 2015
- > Naga Sarada Somanchi, *Performance of Solar Still with Different Phase Change Materials*, International Conference on Energy Systems and Developments (ICESD-2015), Trinity College of Engineering and Research, Pune, Maharashtra, India, February, 2015
- > Naga Sarada Somanchi, *Experimental Investigations on Performance Evaluation of A Single Basin Solar Still Using Different Energy Absorbing Materials*, International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE)-2015, National Institute of Technology Surathkal (NIT K), Mangalore, Karnataka, India, March, 2015
- > Naga Sarada Somanchi, *Solar Water Distillation Using Three Different Phase Change Materials*, 4th International Conference on Materials Processing and Characterization (ICMPC-2015), Vol No.4, Department of Mechanical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, in association with Materials Today: Proceedings, ELSEVIER Journal, March, 2015
- > Naga Sarada Somanchi, *A Review on Solar Water Distillation Using Sensible and Latent Heat*, International Conference on Global Challenges, Policy Framework & Sustainable Development for Mining of Mineral and Fossil Energy Resources: 2015-20, Department of Mining Engineering, National Institute of Technology Karnataka, Surathkal, India, April, 2015
- > Naga Sarada Somanchi, *A Review on Solar Powered Air Conditioning System*, International Conference on Global Challenges, Policy Framework & Sustainable Development for Mining of Mineral and Fossil Energy Resources: 2015-20, Department of Mining Engineering, National Institute of Technology Karnataka, Surathkal, India, April, 2015
- > Naga Sarada Somanchi, *Heat Transfer Enhancement in a Double Pipe Heat Exchanger Using Nano Fluids*, 17th ISME Conference on Advances in Mechanical Engineering, Department of Mechanical Engineering, Indian Institute of Technology Delhi, October, 2015
- > Naga Sarada Somanchi, *Experimental Investigation on Augmentation of Turbulent Flow Heat Transfer in a Horizontal Tube Using Inserts*, 17th ISME Conference on Advances in Mechanical Engineering, Department of Mechanical Engineering, Indian Institute of Technology Delhi, October, 2015
- > S Naga Sarada, Sri Rama Devi Rangisetty, Sudheer PremKumar Bellam, Ravi Gugulothu, Samuel Bellam, *Experimental Investigations on Heat Transfer Enhancement in a Horizontal Tube Using Converging and Diverging Conical Strips*, ASME 2014 Gas Turbine India Conference, American Society of Mechanical Engineers, December, 2014
- > Naga Sarada Somanchi, *A REVIEW ON PERFORMANCE OF SOLAR STILL WITH DIFFERENT TECHNIQUES*, International Conference on Renewable Energy and Sustainable Development, pp.393-398, January, 2014
- > Naga Sarada Somanchi, *A Review on Performance of Solar Still Coupled with Thermal Systems*, 1st International Conference on Non Conventional Energy (ICONCE 2014), ISBN No.978-1-4799-3338-9/14, pp.114-118, January, 2014
- > Naga Sarada Somanchi, *Turbulent Flow Heat Transfer Enhancement in A Horizontal Tube Using Inserts*, 1st International Conference on Mechanical Engineering: Emerging Trends for Sustainability, Vol No.2, pp.1078-1085, EXCELLENT PUBLISHING HOUSE Kishanagarh, Vasant Kunj, New Delhi, January, 2014
- > Naga Sarada Somanchi, *A Review on Performance of Solar Still Using Active and Passive Techniques*, International Conference on Industrial Engineering Science and Applications-2014 (IESA-2014), ISBN No.978-93-80813-27-1, Vol No.1, pp.167-172, NIT Durgapur, West Bengal, April, 2014
- > Naga Sarada Somanchi, *Experimental Investigations on Heat Transfer Enhancement in A Horizontal Tube Using Converging and Diverging Conical Strip Inserts*, International Mechanical Engineering Congress-2014 (IMEC-2014), Vol No.592-594, pp.1590-1595, National Institute of Technology, Tiruchirappalli, June, 2014
- > Naga Sarada Somanchi, *Solar Water Distillation Using Two Different Phase Change Materials*, International Mechanical Engineering Congress-2014 (IMEC-2014), pp.2409-2415, National Institute of Technology, Tiruchirappalli, June, 2014
- > Naga Sarada Somanchi, *Experimental Investigation on Performance Evaluation of A Single Basin Solar Still Using Different Energy Absorbing Materials*, ASME 2014, 8th International Conference on Energy Sustainability, pp.1-4, ASME 2014 12th Biennial Conference on Engineering Systems Design and Analysis, July, 2014
- > Naga Sarada Somanchi, *Experimental Study of Solar Still with Energy Storage Material*, International Conference on Industrial, Mechanical and Production Engineering: Advancements and Current Trends, Department of Mechanical Engineering, Maulana Azad National Institute of Technology (MANIT), Bhopal, Madhya Pradesh, November, 2014
- > Naga Sarada Somanchi, *Solar Water Distillation Using Three Different Phase Change Materials*, International Conference on Advances in Design & Manufacturing, ISBN No.978-93-84743-12-3, pp.961-965, National Institute of Technology, Tiruchirappalli, December, 2014
- > Naga Sarada Somanchi, *Experimental Investigations on Heat Transfer Enhancement in A Horizontal Tube Using Converging and Diverging Conical Strip Inserts*, ASME 2014 Gas Turbine India Conference, ASME International Gas Turbine Institute, New Delhi, India, December, 2014
- > Naga Sarada Somanchi, *Experimental Investigations on Heat Transfer Enhancement in A Horizontal Tube Using Converging and Diverging Conical Strip Inserts*, Sixth International Conference on Theoretical, Applied, Computational and Experimental Mechanics (6th ICTACEM)-2014, Indian Institute of Technology, Kharagpur, West Bengal, India, December, 2014
- > Naga Sarada Somanchi, *Experimental Study of Solar Water Distillation Using Epsom Salt as Phase Change Material*, 4th International Conference on Hydrology and Watershed Management (ICHWAM-2014), Centre for Water Resources, Institute of Science and Technology, Jawaharlal Nehru Technological University Hyderabad, Telangana State, India, November, 2014
- > S Naga Sarada, AV Sita Rama Raju, K Kalyani Radha, *Augmentation of turbulent flow heat transfer using inserts heat transfer using inserts*, Paper Id: ISHMT\_IND\_05\_017, Proceedings of the 21st National & 10TH ISHMT-ASME Heat and Mass Transfer Conference, December 27-30, IIT Madras, 2011
- > S Naga Sarada, AV Sita Rama Raju, Kalyani Radha, *Experimental and CFD analysis of enhancement of heat transfer in a horizontal circular tube using mesh inserts in turbulent region*, 20th National & 9th International ISHMT-ASME Heat and Mass Transfer Conference, pp.10, January 4-6, 2010
- > S Naga Sarada, L Syam Sunder, Uday Kumar, *Experimental Investigation of Heat Transfer Enhancement in a Circular Tube with Longitudinal Strip Inserts*, 19th National & 8th ISHMT-ASME Heat and Mass Transfer Conference, JNTU, Hyderabad, 3-5 January, 2008
- > S Naga Sarada, AV Sita Rama Raju, Kalyani Radha, *A CFD Analysis for Enhancement of Heat Transfer in Horizontal Tubes with Wire coil Inserts*, 19th National & 8th International ISHMT-ASME Heat and Mass Transfer Conference, JNTU, Hyderabad, 3-5 January, 2008
- > S Naga Sarada, G Sudha Rani, MVS Murali Krishna, K Kalyani Radha, *Investigations on low heat rejection diesel engine with carbureted methanol and crude jatropha oil as alternate fuels*, Vol No.32, Issue No.0064, SAE Technical Paper, October, 2007
- > S Naga Sarada, M V S Muralikrishna, Kalyani Radha, Sudha Rani, *Investigations on performance and emissions of a low heat rejection diesel engine with carbureted methanol and crude Jatropha oil as Alternate fuels*, International conference and XX National conference on IC engines and combustion, JNTU, Hyderabad, Vol No. C31, pp.661-666, December, 2007
- > S Naga Sarada, M V S Muralikrishna, Kalyani Radha, *Experimental Investigations on a 4- stroke CI engine using alternate fuels*, International conference and XX National conference on IC engines and combustion, JNTU, Hyderabad, pp.640-643, December, 2007

#### National Conference

- > Ravi Gugulothu, Narsimhulu sanke, Naga sarada somanchi, Vijaya Kumar Reddy.K., *A review on Baffles in Shell and Tube heat exchangers*, National conference on Advances in Mechanical Engineering and Nano technology NCAMENT, 29-30 June, 2018
- > Naga Sarada Somanchi, *A Review of Solar Water Distillation Techniques*, Renewable and Sustainable Energy, Jawaharlal Nehru Technological University Hyderabad, India, June, 2014
- > T.Kishen Kumar Reddy, S Naga Sarada, *CFD analysis of planar flow casting technique with focus on casting cup and nozzle flow*, Proceedings of 2nd National conference.BHEL R&D, Hyderabad, 28-29 January, 2009
- > S Naga Sarada, *A CFD analysis for enhancement of heat transfer in horizontal tubes with longitudinal inserts*, TIME, 5th to 6th March, Deccan College of Engineering, Hyderabad, 2007
- > S Naga Sarada, M.Shailaja, A.Latha, *Experimental investigations on 4- stroke stationary C.I engine using pongamia oil as an alternate fuel*, Proceedings of National conference on Advances in Mechanical Engineering, Vasavi college of Engineering, Hyderabad, pp.211-214, May 13-14, 2005

#### Events Participated/Organized

##### - Organized

- > Organized a FDP on Advances in Thermal Engineering, Mechanical Engineering Department, JNTUHCEH, 20-12-2021 to 22-12-2021
- > Organized a Workshop on Heat Transfer Enhancement Techniques (ONLINE), JNTUHCEH, 12-09-2020 to
- > Organized a Workshop on Design of Experiments, Taguchi Optimization & Response Surface Methodology, JNTUHCEH, 06-12-2013 to 07-12-2013
- > Organized a Refresher Course on 3 week refresher course on Recent Advances in Thermal Engineering and their applications, UGC-ASC, JNTUH, Kukatpally, Hyderabad, 04-11-2013 to 25-11-2013
- > Organized a Workshop on A one week workshop on Solid works software, E- class room, JNTUH College of Engineering, Hyderabad, 28-01-2013 to 02-02-2013
- > Organized a Refresher Course on 3-week refresher course on Advances in Thermal Engineering and Energy Management, UGC-ASC, JNTUH, Kukatpally, Hyderabad, 10-11-2005 to 30-11-2005

##### - Co-ordinated

- > Coordinated for a Symposium on CONNAISSANCE 2022, JNTUH COLLEGE OF ENGINEERING, HYDERABAD, 12-04-2022 to 13-04-2022
- > Coordinated for a Symposium on CONNAISSANCE 2013, JNTUH College of Engineering, Kukatpally, 14-03-2013 to 15-03-2013

##### - Presented

- > Presented a paper in *Experimental Investigation of Heat Transfer Augmentation in a Circular Tube Using Rotating Twisted Tape Insert*, Asian Congress on Gas Turbines, IIT Bombay, 14-11-2016 to 16-11-2016
- > Presented a paper in *Experimental Investigations on Heat Transfer Enhancement in A Horizontal Tube Using Converging and Diverging Conical Strip Inserts*, Sixth International Conference on Theoretical, Applied, Computational and Experimental Mechanics (6th ICTACEM)-2014, IIT Kharagpur, 29-12-2014 to 31-12-2014
- > Presented a paper in *Experimental and CFD analysis of enhancement of heat transfer in a horizontal circular tube using mesh inserts in turbulent region*, IIT Bombay, 04-01-2010 to 06-01-2010
- > Presented a paper in *CFD analysis of planar flow casting technique with focus on casting cup and nozzle flow*, BHEL R&D, Hyderabad, 28-01-2009 to 29-01-2009
- > Presented a paper in *A CFD Analysis for Enhancement of Heat Transfer in Horizontal Tubes with Wire coil Inserts*, JNTU, Hyderabad, 03-01-2008 to 05-01-2008
- > Presented a paper in *Experimental investigations on 4- stroke stationary C.I engine using pongamia oil as an alternate fuel*, Vasavi college of Engineering, Hyderabad, 13-05-2005 to 14-05-2005

##### - Participated

- > Participated in a Workshop on *Parametric Analysis of Nanofluid Heat Transfer Augmentation (ONLINE)*, JNTUHCEH, 25-08-2020 to
- > Participated in a FDP on *Human Values & Ethics*, UGC-HRDC, JNTUH, 26-05-2020 to 28-05-2020
- > Participated in a Workshop on *Heat Transfer Enhancement and Energy conservation Technologies*, JNTUHCEH, 29-11-2019 to
- > Participated in a Conference on *Recent Trends in Mechanical Engineering*, JNTUHCEH, 28-04-2016 to 29-04-2016
- > Participated in a Workshop on *Quality Initiatives in Technical & Higher Educational Institutions*, Engineering Staff College of India, Hyderabad, 16-12-2015 to 18-12-2015
- > Participated in a Workshop on *2- week ISTE workshop on Computational Fluid Dynamics*, JNTUH College of Engineering, Kukatpally, 12-06-2012 to 22-06-2012
- > Participated in a Workshop on *2- week ISTE workshop on Heat Transfer in Mechanical Engineering*, JNTUH College of Engineering, Kukatpally, 29-11-2011 to 10-12-2011
- > Participated in an Orientation Course on *4- Week Orientation Course*, UGC-ASC, JNTUH, Kukatpally, Hyderabad, 28-02-2011 to 30-03-2011
- > Participated in a Training on *6 days certificate course on "Train the Trainer" program*, JNTUH College of Engineering, Kukatpally, 02-03-2009 to 07-03-2009
- > Participated in a Tutorial on *Training program on Computational Fluid Dynamics*, CUSP Technologies Pvt. Ltd, Panjagutta, Hyderabad, 01-05-2007 to 01-07-2007
- > Participated in a Refresher Course on *3-week Refresher course on Fluid Flow, Heat Transfer and their Applications*, UGC-ASC, JNTUH, Kukatpally, Hyderabad, 12-11-2003 to 03-12-2003
- > Participated in a Workshop on *NBA Accreditation*, UGC HRD Auditorium, 01-01-1970 to 16-12-2017

#### -> Administrative Positions Held

- > BOS Chair/Person, MECHANICAL ENGINEERING DEPARTMENT, JNT University Hyderabad, 31 Mar 2022 - Present
- > Furniture I/c, JNTUH College of Engineering, 25 Apr 2014 - 31 Aug 2018
- > COORDINATOR, CADE CENTRE, MECHANICAL ENGINEERING DEPARTMENT, JNTUH College of Engineering, 01 Sep 2011 - 01 Aug 2014
- > Timetable I/c, MECHANICAL ENGINEERING DEPARTMENT, JNTUH College of Engineering, 01 Jun 2010 - 30 Jun 2012



Student Name	Title	Year	Download
S.V Tejeswar	Experimental investigations on double pipe heat exchanger using Hybrid nanofluid	2022	
P.Gopi krishna	Experimental and numerical study on the forced convection Heat Transfer characteristics of air in a circular tube with inserts	2019	
B.Shailaja	Experimental investigations for heat transfer enhancement in a double pipe heat exchanger using tube inserts	2019	
S.Venkata Aditya	Performance Evaluation of Thermosyphon and sintered copper Heatpipes with water and Methanol	2018	
B.Vinay Kumar	Heat transfer enhancement in a double pipe Heat exchanger by using nano fluids	2017	
P.Vamsi krishna	Experimental investigation on the performance of square pyramid solar still	2016	
P.keshav	Experimental investigations to augment Heat transfer rate in a double pipe heat exchanger using tube inserts	2016	
D.laxmi Prasanna	Emission and performance characteristics of multi cylinder SI engine fueled with waste plastic oil with oxygenated fuels	2016	
M.Rajeev naik	Optimization of Heatpipe performance through CAE simulation	2016	
Teja.Annadata	Food processing by solar cabinet Dryer with heat recovery systems	2016	
G.Rakesh	Experimental investigations on solar driven refrigeration system	2015	
Vanya Sree	Thermal performance of a Thermosyphon heat pipe - A CFD analysis	2015	
B.Naresh Kumar	Energy conservation in buildings - lighting area with solar photovoltaic system	2015	
Santosh	Investigations on Heat transfer enhancement in a horizontal tube using inserts	2015	
R.Jalandar	Experimental investigations on solar driven household refrigerator with subcooling	2015	
Aqeel Jomma Athab	CFD Analysis of a gas turbine blade cooling in the presence of holes	2015	
G.Virendar Nayak	Heat Transfer in a double pipe heat exchanger using nano fluids	2014	
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S.Bindu Madhavi	CFD Analysis for enhancement of heat transfer in horizontal tubes with helical wire inserts for tube flow in turbulent region	2006	
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G.Sudha Rani	Experimental investigations on LHR diesel engine with carburated methanol and crude jatropa oil as alternate fuels	2006	
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Yarramsetty Nagini	Investigations on performance of four stroke copper coated spark ignition engine with gasohol	2022	

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