

9. Academic Qualifications (From Highest Degree to High School):

| Position | Institution | From | To |
|-------------------|---|------|---------------|
| Ph.D. Degree | NIT, Trichy | --- | January, 2012 |
| Master's Degree | College of Engineering, Anna University | 1987 | 1989 |
| Bachelor's Degree | College of Engineering, Anna University | 1983 | 1987 |
| Higher Secondary | Sengunthar Mahajana Higher Secondary School | | 1983 |

10. Awards, Associateships, etc.

| Year of Award | Name of the Award | Awarding Organization |
|---------------|-------------------|-----------------------|
| | | |
| | --- | |

11. Fellowships

| Year of Award | Name of the Fellowship | Awarding Organization | From (Month/Year) | To (Month/Year) |
|---------------|------------------------|-----------------------|----------------------|--------------------|
| | | | | |
| | ---- | | | |

12. Details of Academic Work

- (i) Curriculum Development
 - Member of Board of Studies
 - Member Syllabus Committee for Heat Transfer, Thermodynamics and Heat Transfer Equipment Design
- (ii) Courses taught at Postgraduate and Undergraduate levels
 - Thermodynamics
 - Heat Transfer
 - Advanced Heat Transfer
 - Heat Transfer Equipment Design
 - Fluid Mechanics
 - Advanced IC Engines
 - Basic Mechanical Engineering

(iii) Projects guided at Postgraduate level

22 Projects Guided

3 Projects ongoing

(iv) Other contribution(s)

Chairman for Doctoral Committees, Member for Doctoral Committees, Member for Project Evaluation Committee

Thesis Examiner, Viva-voce Examiner in various Universities / Institutions

13. Details of Major R&D Projects

| Title of Project | Funding Agency | Duration | | Status |
|------------------|----------------|----------|----|--------------------|
| | | From | To | Ongoing/ Completed |
| | | | | |
| | --- | | | |

14. Number of Ph.Ds guided

| Name of the PhD Scholar | Title of PhD Thesis | Role(Supervisor/ Co-Supervisor) | Year of Award |
|-------------------------|---|------------------------------------|---------------|
| G. Kumaresan | Heat Transfer Performance Studies on Heat Pipes Using Cuo Nanofluids | Supervisor | 2015 |
| R. Kamatchi | Synthesis and characterization of reduced graphene oxide/water nanofluids for the enhancement of critical heat flux in pool boiling | Supervisor | 2016 |

15. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

| Date (s) | Title of Activity | Level of Event (International/National/ Local) | Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other) | Event Organized by | Venue |
|-------------------------|--------------------------------------|--|--|--------------------------|---------|
| June 30 – July 03, 1998 | Advanced Steam Engineering Programme | National | Participant | M/s Forbes Marshall Ltd. | Pune |
| December 16- | National Conference on | National | Participant | M.I.T., Anna | Chennai |

| | | | | | |
|------------------------|--|---------------|-------------|--|-------------|
| 18, 1998 | “Advances in Automobile Engineering” | | | University, | |
| Oct.29 to Nov.8, 2001 | AICTE / ISTE Short Term Training Program on “Design of Turbo Machines using CFD with Special Emphasis on Pump and Blower Design” | National | Participant | Amrita Institute of Technology and Science | Coimbatore |
| June 10 – 21, 2002 | AICTE / ISTE Short Term Training Program on “Low Polluting Fuels for Automobiles” | National | Participant | Annamalai University, | Chidambaram |
| Dec. 09 – 20, 2002 | ISTE Short Term Course on “Recent Advances in Multi-Mode Heat Transfer” | National | Participant | IIT Madras | Chennai |
| March 08 – 19, 2004 | AICTE / ISTE Short Term Training Program on “Recent Advances in Numerical Techniques to Solve Engineering Problems | National | Participant | NIT, Calicut | Calicut |
| January 10-11, 2006 | International Workshop on “Thermal Design and Management in Electronics” | International | Participant | IISC & SAMEER | Bangalore |
| June 19 – 23, 2006 | Introductory FLUENT & GAMBIT Training” | National | Participant | Fluent India Pvt. Ltd., | Pune |
| Feb. 9 – 14, 2007 | Training Program on “Recent Trends in IC Engine Testing and Analysis” | Local | Participant | NIT | Trichy |
| May 7 – 11, 2007 | Short Term Course on “Computational Fluid Dynamics and its Applications”, | National | Participant | NIT | Rourkela |
| Nov.29 – Dec. 10, 2011 | ISTE workshop on “Heat Transfer” under the National Mission on Education through ICT | Local | Participant | IIT, Bombay | Trichy |
| Feb. 03 - 04, 2012 | National Workshop on “Supercritical Technology for Power Sector” | National | Participant | Engineering Staff College of India, | Hyderabad |
| Dec. 11 - 21, 2012 | ISTE workshop on “Engg. Thermodynamics” under the National Mission on | Local | Participant | IIT, Bombay | Trichy |

| | | | | | |
|--------------------------|---|----------|-------------|---------------------------------------|-----------|
| | Education through ICT | | | | |
| Nov. 26 – Dec. 07, 2012. | Managing Innovation and Technology Competitiveness” | National | Participant | Administrative Staff College of India | Hyderabad |
| Oct. 18 - 20, 2016 | Workshop on Temp. Sensors & Calibration | National | Participant | Tempens Instruments (P) Ltd. | Bangalore |

16. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

| Title of Activity | Level of Event (International/ National/ Local) | Date (s) | Role | Venue |
|--|---|-------------------------|-------------|-------------|
| Workshop on "Electronic Packaging" | National | November 25-26, 2011 | Coordinator | NIT, Trichy |
| Short Term Course on "Applications of Nanotechnology in Mechanical Engineering" under TEQIP | National | December 18-21, 2013 | Coordinator | NIT, Trichy |
| International Workshop on "Applications of CFD in Heat Transfer and Fluid Flow" under TEQIP | International | January 09-10, 2014 | Coordinator | NIT, Trichy |
| Short Term Course on "Applications of CFD in Mechanical Engineering" under Self-financed Category. | National | October 08-09, 2014 | Coordinator | NIT, Trichy |
| Short Term Course on "Applications of Nanotechnology" under Self-financed Category. | National | Oct. 31 – Nov. 01, 2014 | Coordinator | NIT, Trichy |

17. Invited Talks delivered

| Topic | Date | Inviting Organization |
|--|---------------|---|
| Lecture on "Heat Exchanger Design" organized by the ISTE chapter | Feb. 16, 2002 | Bharathiar College of Engineering, Karaikal |
| Lecture on "Engine Heat Transfer Analysis", in | Feb. 12, 2007 | Mech. Engg. Dept., NIT, Trichy |

| | | |
|--|--------------------|--|
| STTP, sponsored by Q.I.P. (for Engg. College Teachers) | | |
| Lecture on "Radiation Heat Transfer" under the Faculty Development Programme on Heat and Mass Transfer | Dec. 21, 2012. | University College of Engineering, Anna University, Trichy |
| Training on Heat Transfer and Heat Exchanger for NTPC Executives. | Feb. 18 – 21, 2013 | NTPC, Ramagundam |
| Chief Guest for the Mechanical Engineering Symposium | Sept. 19, 2014. | Mahendra Institute of Engineering & Technology, Namakkal. |
| Lecture on on "Green nanotechnology in Materials Engineering and Energy Application" | Dec. 15-19, 2015 | College of Engineering Adoor, Pathanamthitta District |
| Lecture on "Heat Transfer Applications in Electronic Cooling" under Faculty Development Program | Sept. 30, 2016 | Vellore Institute of Tecnology, Vellore |
| Lecture on "Gas Power Cycles" under Faculty Development Program | Dec. 01, 2016 | Anjalai Ammal-Mahalingam Engg. College, Thiruvavarur |

18. Membership of Learned Societies

| Type of Membership (Ordinary Member/ Honorary Member / Life Member) | Organization | Membership No. with date |
|---|---|-----------------------------|
| Life Member | Indian Society for Technical Education | LM 20549 July 1995 |
| Life Member | Indian Society for Heat and Mass Transfer | ISHMT NO: 389 May 2003 |

19. Academic Foreign Visits

| Country | Duration of Visit | Programme |
|----------|----------------------|--|
| China | November 18-20, 2011 | International Conference on Mechatronics and Materials Processing (ICMMP 2011) |
| USA | June 18-21, 2012 | TechConnect World 2012 Conference and Trade Show |
| Italy | July 29–Aug.4, 2013 | Study and Network tour under TEQIP (for Networking of Institutions) |
| Thailand | Sept. 07-08, 2013 | IISRO International Multi-Conferences 2013 |

| | | |
|-----|-----------------|--|
| UAE | April 5-8, 2016 | International Conference on Energy, Material & Nanotechnology Meeting on Microfluidics and Nanofluidics-2016 |
|-----|-----------------|--|

20. Publications

(A) Refereed Research Journals:

| Author(s) | Title of Paper | Journal | Volume (No.) | Page numbers | Year | Impact Factor of the Journal (Optional) |
|---------------------|----------------|---------|--------------|--------------|------|---|
| ANNEXURE - A | | | | | | |

ANNEXURE - A

1. R. Kamatchi, S. Venkatachalapathy, and C. Nithya, "Experimental Investigation and Mechanism of Critical Heat Flux Enhancement in Pool Boiling with Nanofluids", ***Heat and Mass Transfer***, (2015) DOI 10.1007/s00231-015-1749-2.
2. R. Kamatchi, S. Venkatachalapathy, and Bhasuru Abhinaya Srinivas, "Synthesis, Stability, Transport Properties, and Surface Wettability of Reduced Graphene Oxide/Water Nanofluids", ***International Journal of Thermal Sciences***, 97 (2015), 19-26.
3. S. Venkatachalapathy, G. Kumaresan and S. Suresh, "Performance Analysis of Cylindrical Heat Pipe using Nanofluids - An Experimental Study", ***International Journal of Multiphase Flow***, 72 (2015), 188-197.
4. R. Kamatchi and S. Venkatachalapathy, "Parametric study of pool boiling heat transfer with nanofluids for the enhancement of critical heat flux: A review", ***International Journal of Thermal Sciences***, 87 (2015) 228-240
5. G. Kumaresan, S. Venkatachalapathy and Lazarus Godson Asirvatham, "Comparative Study on Heat Transfer Characteristics of Sintered and Mesh Wick Heat Pipes using CuO Nanofluids", ***International Communications in Heat and Mass Transfer***, 57 (2014) 208 – 215.
6. Punit Singh, S.Venkatachalapathy and G.Kumaresan, "Heat Transfer Studies on Condensation using Heat Pipes", ***Applied Mechanics and Materials***, Vols. 592-594 (2014) 1617-162.
7. G.Kumaresan, S.Venkatachalapathy and Indraneel C. Naik, "An Experimental Study on Improvement in Thermal Efficiency of Mesh Wick Heat Pipe", ***Applied Mechanics and Materials***, Vols. 592-594 (2014) 1423-1427.

8. G. Kumaresan, S. Venkatachalapathy and Lazarus Godson Asirvatham, "Experimental Investigation on Enhancement in Thermal Characteristics of Sintered Wick Heat Pipe using CuO Nanofluids", *International Journal of Heat and Mass Transfer*, 72 (2014) 507-516.
9. P.J. Saji, S. Suresh, S. Venkatachalapathy and P. Mallikarjuna Rao, "Numerical Study of Heat Transfer Characteristics of Supercritical Water Flow Through a Vertical Tube and the Effect of Heat Flux", *International Journal of Mechanical Engineering & Research*, Vol.3, No.3 (2013).
10. G. Kumaresan and S. Venkatachalapathy, "A Review on Heat Transfer Enhancement Studies of Heat Pipes using Nanofluids", *Frontiers in Heat Pipes*, No.3, 043001, (2012).
11. S. Venkatachalapathy and M. Udayakumar, "Experimental and Numerical Investigation of Mixed-Convection Heat Transfer from Protruding Heat Sources in an Enclosure", *Experimental Heat Transfer*, 25:92-110, 2012.
12. S. Venkatachalapathy and M. Udayakumar, "Numerical Investigation of Natural Convection Heat Transfer from Multiple Heat Sources in a Square Enclosure", *Journal of Engineering and Applied Sciences*, Vol., No.1, January 2010.
13. S. Venkatachalapathy and M. Udayakumar, "Experimental Investigation of Natural Convection Heat Transfer from an Array of Protruding Heat Sources in a Square Enclosure", *International Journal of Applied Engineering Research*, Vol. 4, No.12, (2009).

(B) Conferences/Workshops/Symposia Proceedings

| Author(s) | Title of Abstract/ Paper | Title of the Proceedings | Page numbers | Conference Theme | Venue | Year |
|---------------------|-----------------------------|--------------------------|--------------|------------------|-------|------|
| ANNEXURE - B | | | | | | |

ANNEXURE - B

1. S. Venkatachalapathy, "Effect of Surface Modifications on Nucleate Boiling of Ethylene Glycol/Water Mixture", *International Conference on Energy, Material & Nanotechnology Meeting on Microfluidics and Nanofluidics-2016*, Dubai-United Arab Emirates, April 5-8, 2016.
2. N. Sudarssan, S. Venkatachalapathy, and R. Elankovan, "Thermal and fluid dynamic design of gas runners for heat recovery steam generators", *International Conference on Materials, Design and Manufacturing Process (ICMDM 2016)*, Anna University, Chennai, February 17-19, 2016

3. G. Kumaresan and S. Venkatachalapathy, "Heat Transfer Studies on Circular heat pipes using CuO nanofluids", *IRF International Conference*, Bangkok, Thailand, August 17, 2014.
4. S. Venkatachalapathy, R. Kamatchi and Y.S. Kannan, "Effect of Surface Modifications on the Enhancement of Critical Heat Flux in Saturated Pool Boiling", *IISRO International Multi-Conferences 2013*, Pattaya, Thailand, 07 September, 2013.
5. P. Mallikarjuna Rao, S. Venkatachalapathy, R. Dhanuskodi, P. Saji, S. Suresh and D. Santhosh Kumar, "Numerical Study on Heat Transfer Characteristics of Supercritical Water Flow Through a Vertical Tube with Various Diameters", *Chemference'12*, IIT Bombay and Institute of Chemical Technology, Mumbai, December 10-11, 2012.
6. S. Venkatachalapathy, S. Suresh, P. Selvakuma and G. Vijay, "Laminar Convective Heat Transfer of Al₂O₃/Therminol Oil nanofluid in a Plain Tube", *TechConnect World 2012 Conference and Trade Show*, Santa Clara, California, USA, June 18-21, 2012.
7. S. Venkatachalapathy and Cheerla Praveen Kumar, "Heat Transfer and Fluid Friction Study of a Circular Tube with Wall Inserts", *The 2011 International Conference on Mechatronics and Materials Processing (ICMMP 2011)*, Guangzhou University, Guangzhou, China, November 18-20, 2011.
8. Kathik K and S. Venkatachalapathy, "Numerical Study of Forced Convection Heat Transfer from Multiple Heat Sources in a Rectangular Duct", *Golden Jubilee National Conference on Modelling and Simulation in Heat Transfer and Fluid Flow*, NIT, Jamshedpur, June 11-12, 2010.
9. S. Venkatachalapathy, M. Udayakumar and P.K. Nomes, "Investigation of Natural Convection Heat Transfer from an Array of Heat Sources in a Rectangular Enclosure", *Proc. of the International Conference on Advances in Mechanical Engineering*, S.V. NIT, Surat, August 3-5, 2009.
10. S. Venkatachalapathy, M. Udayakumar and P. Dhananjaya, "Experimental Investigation on Cooling of Multiple Heat Sources in a Rectangular Enclosure by Forced Convection", *International Conference on Fascinating Advances in Mechanical Engineering (FAME 2008)*, MEPCO, Sivakasi, December 11-13, 2008.
11. M. Udayakumar and S. Venkatachalapathy, "Coal Fueled Diesel Engines - a Status Report", *XVI National Conference on I.C. Engines and Combustion*, Jadavpur University, Calcutta, 2000.
12. Seeniraj, R.V., Arunachalam, M., Venkatachalapathy, S., Premkumar, S, "Some Heat Transfer Studies in Ceramic Coated I.C. Engine Components and the Performance Test on a Ceramic Coated Diesel Engine", *XI National Conference on I.C. Engines and Combustion*, IIT Madras, Chennai, December 11 – 15, 1989.

(C) Books & Monographs

| Author(s) | Title of Book/Monograph | Name of Publishers | Year of Publication | ISSN/ISBN Number |
|-----------|-------------------------|--------------------|---------------------|------------------|
| | --- | | | |