

## Dr. SUYAMBAZHAHAN S.

**Professor and Director** with a Doctoral Degree in Mechanical Engineering from India's Premier Institution Indian Institute of Technology Madras with a total of 33+ years' experience in Academic, Administration & Research at reputed Engineering Colleges in India and International Universities.



**Job Apply for: Director**

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Chennai, Tamil Nadu, India-600117

### Professional Education:

- **2004**–Doctor of Philosophy [**PhD**], Indian Institute of Technology Madras, India
- **1998**–Master of Engineering [**M.E.**], Annamalai University, India.
- **1996**–Under Graduate [**AMIE**] in Mechanical Engineering, The Institution of Engineers (India), Calcutta
- **1988**–Diploma in Mechanical Engineering [**DME**], Kamaraj Polytechnic College, India
- **1985**–Higher Secondary Course [**HSC**], Govt. Higher Secondary School. Nagercoil.

### Professional Experience:

#### **August 2022 – Till Date**

**Professor**- Anna University Affiliated Engineering College, Chennai, India

- Teaching Thermo-fluids courses for UG/PG Students
- Pursuing higher level research – Article publication, Patents, Research Grants for Projects, Seminar, Symposium, workshop, conference etc.
- NBA/NAAC Accreditation

#### **Feb 2020 – 2022**

**Professor**, Adama Science and Technology University, Adama, East Africa

- Teaching Thermo-fluids courses for UG/PG Students
- Student Affairs
- Professor In-charge

#### **Aug 2018-2019**

**Professor and Principal**, Anna University Affiliated Engineering College, Chennai, India

- Administration
- Student and Faculty Affairs
- Academic and Research Activities

#### **Sept 2016 -2018**

**Professor**, Qassim University, Buraydah, KSA

- Teaching to UG/PG Students
- Pursued higher level research – Article publication, Patents, Research Grants

#### **Jun 2003 – 2016**

**Professor and Principal** in Anna University Affiliated Engineering Colleges, Chennai, India

- Administration
- Student and Faculty Affairs
- Academic and Research Activities
- MOUs and Tie-ups with industry
- National and International Relations
- Professional Bodies and its activities
- Article publication, Patents, Project Grants

#### **Jan 2000-2003**

**Senior Project Officer** in Indian Institute of Technology Madras, Chennai, India

- Pursuing higher level research – Article publication
- Teaching Thermo-fluids courses for UG/PG

**June 1998-2000 – Lecturer**, Indian Engg College

**Other Institutions:1988-1997**, Lecturer: **9 Yrs.**

**Total: 35+ Years [Leadership 15 Years, Academic-33 Years, Research-23 Years and Overseas - 04 Years]**

### OUTCOMES:

- Publications – **50 + Articles**
- PhD Scholars Guided – **03**
- UG/PG Students Guided - **54**
- Patents – **06 Granted**
- Grants Received - **558450 USD-3.94 Crores**
- International Journals Reviewer - **05**
- Recognized Supervisor – **05 Universities**
- Collaborative Research – **06 Universities**
- Conference/Symposium – **42 Organized**
- Books published – **05 published**
- Awards: **05 Awarded**
- Invited Lectures – **10 completed**
- Appraisals from the employers– **06**
- Board of Studies, Curriculum Development
- Professional Societies - **20 Memberships**
- Central Valuation Camp Officer, CSE, Chairman

### Reference:

**Dr. R VELRAJ.**

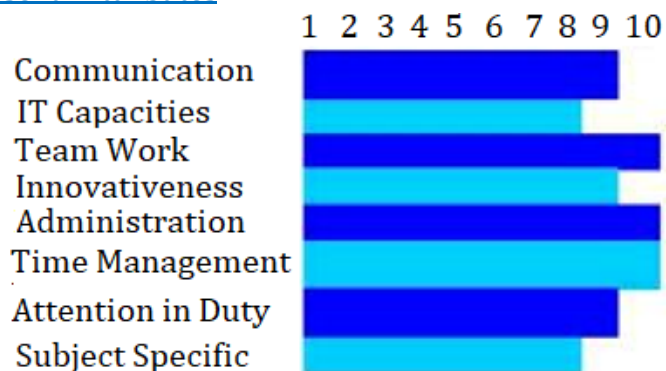
**Professor and Vice-Chancellor**

Anna University Chennai - 600025

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### Personal Attributes



### Personal Profile:

Father's Name	: C. Sivalingam (Late)
Date of Birth & Age	: 30.06.1968 & 55 Years
Place of Birth	: Nagercoil, Kanyakumari District
Nationality	: Indian
Highest Qualification	: Ph.D. @ IIT Madras
Specialization	: CFD & Heat Transfer (Mechanical Engineering)
Designation - Present	: Professor & Principal [19+ Years], Total Exp.: 33+ Years
Passport Details	: No. P0091647, POI-Chennai, Validity: 19.05.2016 to 18.05.2026

### Strenghts

- Up-to-date digital literacy and competency
- Well Administration skill
- Digital teaching using LMS
- Pursue Higher level research
- Capacity to support research in a digital world
- Experience in effective use of managing space
- Experience in International Universities
- Scholarly knowledge and ability to manage, supervise and train personnel
- Bringing about change management in workplace
- Work from scratch to shine in all activities
- Be Asset to the university where I employed

### Vision:

- To impart futuristic technical education of the highest quality to the students
- To transform learners into achievers at the global level with character building
- To provide youth with global quality interactive technical education
- To develop incessant research activities in the Institution higher level research activities
- To convert the students into employable persons or entrepreneurs and committed to community services
- To impart updated technical education for developing Institutions to meet higher Education Standard
- To transform the institution into a quality centre with the latest and advanced technologies.
- To develop Institution as an Institution of Academic excellence of International standard.
- To convert the Institution into a world-class institution for technical education and scientific research by getting funds from National and International the funding agencies.

## HIGHLIGHTS OF ACHIEVEMENTS

- Obtained Doctoral Degree from *Indian Institute of Technology Madras [IITM]* **within 3 years**.
- Received **University FIRST Rank** in M.E. Degree from Annamalai University, India
- Worked as Professor at Adama Science and Technology University, Ethiopia from February 2020-2022
- Worked as Professor in ABET Accredited International Qassim University, KSA from 2016 to 2018.
- Continuously worked as a **Professor and Principal** for **14+ years** in **NBA/NAAC (A-Grade)** Accredited and Anna University-affiliated Engineering Colleges in Chennai, India
- Totally **33 years** of experience in Engineering Institutions out of **18.06 years post PhD** Experience in Administration, Academic, and Research in Anna University affiliated Engineering Colleges and Universities.
- Received **5 awards** for **"Best Academic and Administrative Service"** from National bodies (AIAF, NIC, GAF, Who's Who, and ESN Publications) and **"Best Researcher Award"** for **"Best Research Publications"** from International Research Awards on Science, Health and Engineering (SHEN).
- Improved Anna University exam results for **57% to 82%** and enhanced the college overall rank **from 157<sup>th</sup> rank to 20<sup>th</sup> rank** among 584 Colleges under Anna University by applying best practices in TLP.
- Recognized **Supervisor in 5 Universities** for guiding PhD and MS Research Scholar.
- Obtained Anna University Recognized **Research Centre for 5** (Mech., ECE, EEE and CSE) Depts.
- Received Research Project and seminar Grants for the worth of **INR. 3.94 Crore [558450 USD]**, 2015.
- Published **40+ articles** in reputed International Journals and Conferences.
- Reviewer for **5 international Journals** [IJHMT, IJNHT, ASME JHT, JTEN and Springer].
- Published **2 Australian and 1 Indian Patents** and 2 Patents (1 Indian & 1 Australian) under review
- Published **05 books and 02 books** in press [EP, BCM, PPE, HMT and LAP].
- Acted as **Chairman, Chief Superintendent, Camp officer and Zonal Coordinator** for 25 Engineering colleges to Anna University Examinations and Valuation, [2003-2015].
- Member of **Board of Studies in Anna University** and Anna University of Technology Chennai [2008-2015].
- Having membership in **18 Professional Bodies** [ASME, IEEE, SAE, AASCIT, FISME, ISHMT etc.].
- Signed **30 MOUs - 3 International Universities** [Carnegie-Mellon University, USA University of Leicester, UK, Zurich City Business School, Switzerland, etc.] and **27 Companies** [2009-2015].
- Delivered **27 Invited Lectures** in various Colleges/Universities and Media [Pothigai TV, Sun TV etc.].
- **Chief Guest** for various events such as Conferences, Symposium, etc. in Higher Education Institutions
- Written **15 Articles** and published in College Magazine, Anna University Bulletin, and Vigadan-Kalvi Malar.
- Organized several **[156]** National and International Conferences, Seminars, Symposiums and Workshops.
- Organized several **[342]** Value Added Courses, Guest Lectures, Industrial Visits, and internships for students
- Produced **82% Placements** for the students [2014-15] in Anna University Affiliated Engineering Colleges.
- Obtained **NBA and NAAC [A grade] Accreditations** to S.A. Engineering College [2014-2015].
- Obtained **Excellent feedback from students** for the dedicated service to the student's community.
- Established **33 Committees** to help the Governance of the Institution for overall improvements.
- Established **3 Engineering Colleges in Chennai**, Tamil Nadu, India from scratch to shine.
- Received **appraisals** from VC, Chairman, Registrar and Professors of IIT Madras for attainments in service.
- Received **award from Dr A P J Abdul Kalam**, former President of India August 2014.
- Organized **24 Community Service**
- Obtained **NBA/NAAC Accreditations to SAEC**

Publications in International Journals					
S.No	Author(s)	Title	Reference Journal	Status/Volume	JIF
1.	<b>S.Suyambazhahan,</b> T.Sundararajan & Sarit K Das	Hydrodynamic and Thermal oscillations in a non-isothermal laminar jet	<i>International Journal of Heat and Mass Transfer</i>	Vol. 47 pp.3957-3969, <b>10.01.2004</b>	<b>2.522</b> <b>WoS</b>
2.	<b>S.Suyambazhahan,</b> Sarit K Das & T.Sundararajan	Numerical study of Flow and Thermal Oscillation in two-dimensional buoyant twin jets	<i>Int. Communications in Heat and Mass Transfer</i>	Vol.34 (2), pp.248-258, <b>06.11.2006</b>	<b>2.124</b> <b>WoS</b>
3.	<b>S.Suyambazhahan,</b> Sarit K Das & T.Sundararajan	Numerical simulation of flow and thermal oscillations in non-isothermal laminar impinging Jet	<i>International Journal of Heat and Technology</i>	Vol. 25 (2), pp. 65-73, <b>22.07.2007</b>	<b>1.240</b> <b>Scopus</b>
4.	<b>S.Suyambazhahan,</b> Sarit K Das & T.Sundararajan	The effect of buoyancy on flow oscillations for a horizontal plane jet in low-speed applications	<i>Int. J. Experimental Thermal and Fluid Science</i>	Vol. 33 (7) pp. 1119-1127, <b>19.06.2009</b>	<b>1.595</b> <b>WoS</b>
5.	<b>S.Suyambazhahan,</b> T.Sundararajan Sarit K Das & K.Velusamy	A computational study of flow maldistribution on the thermal-hydraulic perform. of an IHX in LMFBR	<i>Journal of Nuclear Science and Technology</i>	Vol. 51 (6) pp. 845-857, <b>15.04.2014</b>	<b>1.452</b> <b>WoS</b>
6.	Anita A. Nene S Ramachandran & <b>S.Suyambazhahan</b>	Effect of wind flow on convective heat losses from Scheffler solar concentrator receivers	<i>Journal of The Inst. of Engineers Series C Springer</i>	Vol 100, Issue 5, pp.737-745 <b>(Apr 2018)</b>	<b>3.476</b> <b>Scopus</b>
7.	Mohamed Saleh Alshitawi <b>S.Suyambazhahan</b> & Abdulaziz S Alaboodi	CFD simulation of the breathing zone of a human using a personalized air curtain	<i>Journal of Advances in Mechanical Engineering</i>	Vol. 11, pp. 01-13 <b>Jan 2019</b>	<b>1.161</b> <b>WoS</b>
8.	Anita A. Nene S Ramachandran & <b>S.Suyambazhahan</b>	Design and Analysis of solar thermal energy storage system for Scheffler solar concentrator	<i>Comptes rendus de l'Académie des Sciences [France]</i>	Vol 72, No.10, pp.1321-1325 <b>23.06.2019</b>	<b>Elsevier</b> <b>1.079</b> <b>WoS</b>
9.	Ramachandran S Anita A Nene, and <b>Suyambahahan S</b>	Studies on Scheffler solar concentrator to optimize thermal efficiency	<i>International Journal of Ambient Energy Taylor &amp; Francis</i>	<a href="https://doi.org/10.1080/01430750.2020.1805357">https://doi.org/10.1080/01430750.2020.1805357</a> <b>17.08.2020</b>	<b>2.33</b> <b>WoS</b>
10.	Ramachandran S Anita A Nene, and <b>Suyambahahan S</b>	An integrated system of flat plate collector and Scheffler solar concentrator for enhancing thermal efficiency and steam generation rate	<i>International Journal of Ambient Energy Taylor &amp; Francis</i>	<a href="https://doi.org/10.1080/01430750.2020.1811764">https://doi.org/10.1080/01430750.2020.1811764</a> <b>30.08.2020</b>	<b>2.33</b> <b>WoS</b>
11.	P.Senthil Kumar, <b>S Suyambazhahan</b> P R Suresh & R Velraj	Enhancement of heat transfer performance in an aluminium heat sink using different Nanocoatings	<i>Journal of Enhanced Heat Transfer</i>	Vol. 28 (3) pp 41-61 <b>10.03.2021</b>	<b>2.8</b> <b>WoS</b>
12	Nand Jee Kanu Suresh Guluwadi Vivek Pandey and <b>Suyambazhahan S</b>	Experimental investigation of emission characteristics on Can-Combustor using Jatropa Based Bio-derived Synthetic Paraffinic Kerosene	<i>Smart Science (TSMA) Taylor &amp; Francis</i>	<a href="https://doi.org/10.1080/23080477.2021.1938503">https://doi.org/10.1080/23080477.2021.1938503</a> <b>21.06.2021</b>	<b>2.3</b> <b>WoS</b>
13	Radwan A. Almasri Nidal H. Abu-Hamdeh Khaled Khodary Esmail & <b>S Suyambazhahan</b>	Thermal Solar Sorption Cooling Systems- A Review of Principle, Technology, and Applications	<i>Alexandria Engineering Journal</i>	<b>Review Article</b> Vol 61 (1), pp. 367-402 <b>24.06.2021</b>	<b>4.38</b> <b>WoS</b>
14	<b>Suyambazhahan S S</b> Narayan, Sakthivel R, Ivan G and Nadica S	Comparative study of residual stress prediction methods in Additive Manufacturing processes	<i>Scientific Letters of the University of Žilina</i>	<b>Review Article</b> <a href="https://doi.org/10.26552/com.C.2021.2.2.B99-B105">https://doi.org/10.26552/com.C.2021.2.2.B99-B105</a> <b>02.12. 2021</b>	<b>1.4</b> <b>Scopus</b>
15	<b>S Suyambazhahan</b> Tatek Temesgen Anita A Nene and Ramachandran S	Energy saving in an air-conditioning system using interdisciplinary energy conversion approach	<i>Smart Science (TSMA) Taylor &amp; Francis</i>	<a href="https://doi.org/10.1080/23080477.2021.2012324">https://doi.org/10.1080/23080477.2021.2012324</a> <b>26.12.2021</b>	<b>2.3</b> <b>WoS</b>
16	<b>S Suyambazhahan</b> T G Sakthivel Vivek Pandey and P Mohanram	Experimental Analysis of Performance Improvement of a Modified Vapour Absorption System (VAS-GAX) for Cooling Applications	<i>International Journal of Heat and Technology</i>	Vol. 39, No. 6, pp. 1878-1886 <b>27.12.2021</b>	<b>1.33</b> <b>WoS</b> <b>Scopus</b>

17	Hiwot Berhanu Bayu Addisu Bekele V Chandraprabu and <b>S Suyambazhahan</b>	Performance improvement of an electric injera baking pan (Mitad) using copper powder as additive material	<i>Journal of Energy for Sustainable Development</i>	Vol. 68 pp. 242-257 <b>14.04.2022</b>	<b>3.61 WoS</b>
18	<b>S.Suyambazhahan</b> T.Sundararajan and Sarit K Das	Computational Analysis of Thermal Striping in Primary Sodium System of Liquid Metal Fast Breeder Reactor (LMFBR) using FVM	<i>Nuclear Science and Engineering</i>	<a href="https://doi.org/10.1080/00295639.2022.2116380">https://doi.org/10 .1080/00295639.2 022.2116380</a> <b>19.08.2022</b>	<b>1.460 WoS</b>
19	<b>S.Suyambazhahan</b> T.Sundararajan and Sarit K Das	CFD analysis of primary and secondary sodium flows and associated heat transfer on performance of an intermediate heat exchanger in LMFBR	<i>International Journal of Nuclear Energy Science &amp; Technology</i>	Vol. 15, Nos. 3/4, pp 201-223 <b>01.10.2022</b>	<b>1.556 Scopus</b>
20	<b>S. Suyambazhahan</b> S Sathyanarayanan S.P Asok & K V Narayanan	CFD Analysis of effects of flow and thermal oscillations in heat transfer of impinging jet	<i>Heat Transfer Journal</i>	<b>DOI:</b> <a href="https://doi.org/10.1002/htj.22948">10.1002/htj.22948</a> <b>05.09.2023</b>	<b>4.11 WoS</b>
21	S Lokesh <b>S Suyambazhahan</b> S V Tharun V Thanigaivelan	Experimental investigation of the effect of stratifiers to enhance the performance of the thermal energy storage system	<i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i>	<b>DOI:</b> <a href="https://doi.org/10.21203/rs.3.rs-3378567/v1">https://doi.org/1 0.21203/rs.3.rs- 3378567/v1</a> <b>19.11.2023</b>	<b>2.2 WoS</b>
22	B M Swamy Puniakodi <b>S Suyambazhahan</b> S Senthil	An experimental study of melting behavior of the phase change material in cylindrical capsules for thermal energy storage	<i>Journal of Energy Storage</i>	Vol. 81, 110492 <b>04.01.2024</b>	<b>9.40 WoS Q1</b>
23	<b>S.Suyambazhahan</b> C.V.Mathusuthana Rao & Cherinet Girma Dunbushe	Characterization of 0-3 Piezoelectric Polymer Composites for Ultrasonic Transducers using FEM Approach	<i>Ferroelectrics Taylor's &amp; Francis</i>	Vol 618, No. 3, pp. 718-731 <b>13.02.2024</b>	<b>1.063 WoS</b>
24	Swami Punniyakodi B M Chelliah A <b>Suyambazhahan S</b> Dhinesh B, Senthil R Inbanathan PV Nguyen V N & Cao D N	Experimental investigation on performance and emission characteristics of lemongrass oil and diesel blends	<i>SAE International Journal of Engines</i>	<b>Accepted</b> JENG-2023-0076 <b>27.04.2023</b>	<b>WoS 1.2</b>
25	G Gopinath S Sathyanarayanan S Suresh Prasanna Rao Yadav K. Gopi Kannan <b>S. Suyambazhahan,</b> K R Suresh kumar and M. Dinesh Babu	Catalytic converter performance prediction and engine optimization when powered by diisopropyl ether/gasolineblends: Combined application of response surface methodology and artificial neural network	<i>Energy</i>	Under Review EGY-D-24-04451 <b>23.03.2024</b>	<b>9.00 WoS</b>
26	Lord Nayak <b>S Suyambazhahan</b>	Thermal analysis of gas turbine cycle for improvement of efficiency using vapour absorption cooling system	<i>Int. J. of Power and Energy Conversion</i>	Under Review IJPEC-177607 <b>21.11.2023</b>	<b>Scopus</b>
27	T Vinoth,A Santhoshkumar M Dineshkumar B Devaraj Naik <b>S Suyambazhahan</b> T Elangovan & S Prathiban	Impact of Fuel Injection Pressure on Diesel Engine Characteristics Powered by Semecarpus Anacardium Methyl Ester: Exergy and Energy Analysis	<i>Renewable Energy</i>	Under Review RENE-S-23-10231 <b>21.12.2023</b>	<b>WoS 8.634</b>
28	Vijayaragavan B Asok S P <b>Suyambazhahan S</b>	Optimization of labyrinth geometric parameters to model a new twin seal configuration" to Mechanics	<i>Mechanika</i>	Under Review ID: 36169 <b>25.01.2024</b>	<b>Scopus 1.3</b>
29	K V Narayanan, <b>S Suyambazhahan*</b> and Sulaiman Alyahya	Enhancement of Power, Efficiency and Economic Electricity Generation from Solar Energy using Thermoelectric Systems for Rural Area Applications	<i>Int. J. of Power and Energy Conversion</i>	Under Review IJPEC-249874 <b>20.01.2025</b>	<b>Scopus</b>

## Publications in National Journals

1.	Anita A. Nene & <b>S.Suyambazhahan</b>	Performance Characterization of Sheffler solar concentrator and prim. feasibility analysis of perform. imp. using comb. system of Sheffler with flat plate concentrator	<i>International Journal of Applied Engineering Research</i>	Vol. 10, No 9 pp. 22563-22569 (2015)	<b>1.823 Scopus</b>
2	Anita A. Nene <b>S.Suyambazhahan</b> & S Ramachandran	Comparative analysis of the performance of two Scheffler solar concentrators having different	<i>Int. Journal of Engineering and Technology</i>	Vol. 9, No. 2 pp. 704-709 (Apr 2017)	<b>2.635 Scopus</b>
3.	<b>S.Suyambazhahan</b>	Experimental study of coconut shell Fluidized bed gasification for production of Fuel Gas for end-use applications	<i>Int. J. of Applied Engineering Research</i>	Vol 13, No 20 pp14682-14688 [Aug 2018]	<b>1.823 Scopus</b>
4.	<b>Suyambazhahan S</b> , Fahad Al-Mufadi & Abdulaziz S Alaboodi	Numerical Investigation of fire inside the compartment with the effect of ventilation	<i>Int. Journal of Engineering Science Invention</i>	Vol 7, No 10 pp17-28 [Oct 2018]	<b>1.857 Scopus</b>
5.	<b>S.Suyambazhahan</b>	Experimental Study of Performance and Exhaust Emissions of Fuel Blends in 4 Stroke Direct Injection Compression Ignition (DICI) Engines	<i>International Journal of Recent Technology and Engineering</i>	Vol-8 Issue-1 May 2019	<b>1.11 Scopus</b>
6.	Kole, A.A., Nene, A.A., Ramachandran, S. and <b>Suyambazhahan, S.</b>	Overview of liquid desiccant based indirect evaporative cooling system	<i>International Journal of Scientific and Technology Research</i>	<b>8(8), pp. 991-997 Aug 2019</b>	<b>Scopus 1.475</b>

## Publications in National/International Conferences:

S.No	Author(s)	Year	Title	Name and place of Conference(s)	Status/PP
1.	<b>S.Suyambazhahan</b> Sarit K Das & T.Sundararajan	2002	Numerical simulation of flow and heat transfer in a 2D low speed hot impinging Jet	<i>2<sup>nd</sup> International Conference on Fluid Mechanics and Fluid Power, Dec' 12 - 14, IIT Roorkee</i>	Published pp. 453 – 463
2.	<b>S.Suyambazhahan</b> T.Sundararajan & Sarit K Das	2004	Numerical simulation of flow and thermal oscillations in non-iso turbulent multiple	<i>ISHMT/ASME Heat and Mass Transfer Conference, January 5-7, HMT-C019, Kalpakkam.</i>	Published pp. 110 – 116
3.	<b>S.Suyambazhahan</b> Sarit K Das & T.Sundararajan	2005	Experimental investigation of velocity oscillations in 2D free jets	<i>6<sup>th</sup> world Conference on Experimental Heat Transfer, FM &amp; Thermodynamics, Japan.</i>	Published pp.316-317 April 17-21
4.	R.S.V.Prasad, A.M.Junaibasha & <b>S.Suyambazhahan</b>	2005	Numerical simulation of flow distribution in the aircraft filter assembly	<i>International Conference on Fluid Power Technology Nov' 24-27, Chennai Trade Centre.</i>	Published pp. 181-186
5.	<b>S.Suyambazhahan</b> Sarit K Das & T.Sundararajan	2006	Numerical Prediction of Effect on orient. to flow and thermal Oscillations in buoyant jet	<i>18<sup>th</sup> National and 7<sup>th</sup> ISHMT-ASME Heat and Mass Transfer Conf., IIT Guwahati, Jan 4-6.</i>	Published pp. 504-510
6.	K.Rajan, N.V.Mahalakshmi, R.Suresh Kumar & <b>S.Suyambazhahan</b>	2006	Investigation of flow and heat transfer characteristics of Diesel spray impinging on the flat wall	<i>Proceedings of 3<sup>rd</sup> International Conference on Fluid Mechanics and Fluid Power (FMFP) Dec 7-9</i>	Published
7.	R.Aravind Krishnan D.Madhesh & <b>S.Suyambazhahan</b>	2006	Numerical Simulation of flow and thermal characteristics of isothermal & non- iso. free jet.	<i>Proceedings of 3<sup>rd</sup> Int. Conference on Fluid Mech and Fluid Power Dec 7-9</i>	Published
8.	K.Velusamy T.Sundararajan & <b>S.Suyambazhahan</b>	2006	CFD Studies in the prediction of thermal striping in an LMFBR	<i>CFD4NRS, Garching, Munich, Germany, 5-7 Sept 2006</i>	Published pp. 253- 263
9.	<b>S.Suyambazhahan</b> Sarit K Das & T.Sundararajan	2008	Investigation of Thermal Striping in LMFBR components	<i>XIX National and VIII ISHMT/ASME Heat and Mass Transfer Conference, Jan 3-5</i>	published
10.	R. Suresh Kumar, R.Velraj & <b>S.Suyambazhahan</b>	2009	Hydrodynamic and Thermal Oscillations in an Axi-sym. Imp. Jet on a Flat Plate	<i>7<sup>th</sup> International Conference on Heat Transfer, Fluid Mech &amp; Thermodynamics, Turkey.</i>	Published Paper No.719



11.	<b>S.Suyambazhahan</b>	2011	Experimental Study of Regenerative brakes System used in an Automobile Engine	<i>38<sup>th</sup> National Conference on Fluid Mechanics and Fluid Power Dec 15 -17</i>	Published
12.	Anita A Nane & <b>S.Suyambazhahan</b>	2012	Thermal Efficiency optimization applied to Scheffler Solar Concentrator	<i>International Conf. on Control System &amp; Power Electronics CSPE 2012, Dec 3-4</i>	Published <b>ELSEVIER</b> PP.593-598
13.	P.K.Nagarajan, J.Subramani & <b>S.Suyambazhahan</b>	2014	Nanofluids for solar collector applications-A Review	<i>6<sup>th</sup> International Conference on Applied Energy –ICAE2014</i>	Published <b>ELSEVIER</b>
14.	C.V.Mathusuthana Rao & <b>S.Suyambazhahan</b>	2014	Simulation Study of 0-3 Piezoelectric Polymer Composites for Ultras. Trans.	<i>National Conference on Materials for Modern World NCMW-2014 Sept 10-11</i>	Published ISBN:978-81-89-843-63-2
15.	Anita A. Nene <b>S Suyambazhahan S &amp; S Ramachandran</b>	2017	Developing an empirical correlation for the perform. of a Scheffler solar concentrator using dimensional analysis	<i>Proceedings of 68<sup>th</sup> IRF International Conference, 29th January 2017, Pune, India,</i>	Published ISBN: 978-93-86291-94-3 pp. 10-14
16	Karky. A.E, Badrinath. R.G, Ezhilarasan T and <b>Suyambazhahan S</b>	2023	Experimental analysis of performance of diesel engine with camphor oil Biodiesel	International Conference in inteligencc in Industrial Automation (ICIA2023), 5 <sup>th</sup> April 2023.	Published MECHICIA1051
17	<b>Suyambazhahan S.,</b> Sankara Narayan V, Mohamed Saahil A and Manimaran S	2023	CFD Analysis of Combustion Chamber of Rotary Detonation Engine (RDE) to Improve the Combustion Efficiency of Jet Propulsion System	<b>9th Thermal and Fluids Engineering Conference (TFEC 2024),</b> ASTFE , Oregon State University, Corvallis, OR, USA on April 21-24, 2024	<b>TFEC-2024-52119</b> <b>Accepted</b> <b>27.12.2023</b>
18	Pravin kumar R, Naveen S, Saravanan R, Vijay M and <b>Suyambazhahan S</b>	2024	Experimental Analysis of Performance, Combustion and Emission Control on Diesel Engine using Orange Peel Oil Biodiesel blends and Diesel	International Conference on “Advanced Intelligence and Innovations in Mechanical Sciences (AIIMS-3.0), 25 <sup>th</sup> & 26 <sup>th</sup> April2024	<b>Published</b> <b>AIIMS3.0-T-006</b>
19	Dhivagaran K, <b>Suyambazhahan S</b> and Venkatakrishna A	2024	Design optimization of Hydrodynamic Performance through Numerical Investigation of Bulbous Bow Designs	International Conference on “Advanced Intelligence and Innovations in Mechanical Sciences (AIIMS-3.0), 25 <sup>th</sup> & 26 <sup>th</sup> April2024	<b>Published</b> <b>AIIMS3.0-T-005</b>

#### **PATENTS:**

1. Development of Solar Powered Insecticide Sprayer, 202141019175, Granted: 07.05.2021
2. An automated system for controlling turn indicators in Automobiles-AU2021104546-Granted-30.03.2022
3. A portable air conditioning system and setup for Automotive- AU2021105737–Granted:17.11.2021
4. A portable apparatus for preparation of beverages – AU2021106453-Granted:17.11.2021
5. Development of a prototype GAX absorption system for cooling Applications-202141046633–Pub. 21.04.2023
6. Solar Powered Camera based kit for Lead Irons detection in water employing H<sub>2</sub>S gas-202321025271- 3.4.2023

Regards

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**TO WHOM IT MAY CONCERN**

I have known **Prof. Dr. S. SUYAMBAZHAHAN** very well for the past 18 years. He was working as **Professor and Principal** in Anna University affiliated Engineering Colleges, Chennai, India from 2004. He has good association with me in Anna University as Member of board of Studies, Chief Superintendent for Conduct of University examination, and Camp Officer for Central Valuation during his service in Affiliated Engineering Colleges.

He has taught Thermo-Fluid courses to Master of Engineering Degree Students (Part-time) of Anna University. I found him very good in conceptual teaching of Professional courses and an excellent teacher. He is a recognized research supervisor of Anna University Chennai. He has jointly guided MS/Ph.D. scholars with me in Anna University. His understanding in Computational Fluid Dynamics and Heat Transfer is very commendable.

As a Professor of the Anna University and his association with me in many University activities, I found **Dr. Suyambazhahan** is a very dynamic, hardworking, dedicated, successful and outcome oriented person. He has great skill in organizing things from scratch to shine.

In view of his talent, I have no doubt that **Dr. Suyambazhahan** will prove to be successful in academic and research career anywhere in the world. I strongly recommend him for a suitable administrative position in you Institution. He has exemplary conduct and character.

I wish him all the best for his professional career.

**(Dr. R VELRAJ)**