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Contribute to develop innovative methods & concepts; especially in energy engineering; encourage fellow members do the same.

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### Educational Qualification

S.No.	Degree	Specialisation	Institution/Univ.	Year of Passing	Class obtained
1	Ph.D	Biomass Pyrolysis	I.I.T. Bombay	1996	-
2	M.Tech.	Energy Management	School of Energy, Bharathidasan Univ.	1989	First class with distinction
3	B.E	Mechanical Engineering	N.I.E, Mysore Univ.	1986	First class with distinction

### Work Experience

S.No	Designation/ Work type	Organization, Place	Joining / Reliving Date	Experience
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1	Professor in Dept. Mech. Engg.	St. Peter' s Engineering College,Hyderabad	1 <sup>st</sup> February,2017/ till date	0.5years
2	PrincipalAdmin/ Teaching	T.J. Institute of Technology,Chennai	2 Aug. '04/Till date	12 yrs.
3	Consultant/ Tech./Proj. Development	Meridian Utilities,Kuala Lumpur	Apr.'2006/Aug.'20 11	(4 yrs.)
4	G.M. OperationsTech./ Proj. Development	Esvin Advanced Technologies,Chennai	18 Jan. '04 /20 Apr. '04	0.3 yrs.
5	ConsultantTech./ Proj. Development	Energy Systems Ltd.Melbourne Chennai	10 Feb. '02/14 Jan. '04	1.9 yrs.
6	Consultant/ R & D Mgr.R & D	Renewable energy Corporation,Melbour ne	20 Dec. '00/08 Feb. '02	1.2 yrs.
7	Technologist/Technolo gy Absorption	IBIL Energy Systems Ltd.Chennai	22 Jan. '96/16 Dec. '00	5.0 yrs.
8	Project Engineer/Engineering	IIT Bombay, Mumbai	16 Dec. '94/12 Jan. '96	1.0 yrs.
9	Research Scholar/Research	IIT Bombay, Mumbai	18 Dec. '89/13 Dec. '94	5.0 yrs.
10	Trainee Engineer/Design	Pandian Engineering Ltd.	10 Apr. '87/14 June '88	1.2 yrs.
		<b>Total</b>		<b>28 yrs.</b>

**PATENTS PUBLISHED**

1. Raveendran K, "Airborne Renewable Energy Power Trailer (AREPT) for supplying power while travelling along either for charging batteries or directly to power the motors of moving Electrical Vehicles (EVS)", Dec., 2015,
2. Raveendran K, "Solar Desalination" patent application pending, Jan. 2016
3. Raveendran K, "Energy Storage Scheme for Wind Mills to improve the PLF", patent application pending, Oct. 2016.
4. Raveendran K, "Separation of harmful elements from Biomass Pyrolysis gases", patent application under progress, 2016

#### **Papers Published in the National Journals**

1. Raveendran K, and K. Ganesan, Syngas Injection into Blast Furnace for Improving Productivity and Quality, Steel India, submitted for Publication, 2016.
2. Raveendran K, K. Ganesan, and VNG Rao, "Integrated Gasification Combined Cycle Power Generation", Chemical Industry Digest, p 82-88, June 1988.
3. Raveendra K, K. Ganesan, and VNG Rao, "Gasification/IGCC for Ammonia and Power Production", Fertilizer News, Dec. 1997 (this paper received the best paper award for 1997).
4. Raveendra K, K. Ganesan, and VNG Rao, "Biomass Gasification for Power Generation", Chemical Engineering World, Communicated, 1999.
5. Raveendran K, K. Ganesan, and VNG Rao, "Need for Promoting IGCC Technology for Power Generation", India Power and – Infrastructure Reporter, Sept'1998.

#### **Papers Presented in National conferences**

1. Raveendran K, K. Ganesan, and VNG Rao, Integrated Gasification Combined Cycle (IGCC) Technology for Efficient and Environment Friendly Power Generation, presented at 30<sup>th</sup> National Seminar on Emerging Challenges in Energy–Environment, Organized by ENFUSE, Chennai.
2. Raveendran K, K. Ganesan, and VNG Rao, Need for Promoting IGCC Power Generation, presented at National Seminar on Energy Efficiency by Design, Selection and –Operation, Organized by CII&IIT Chennai.
3. Raveendran K, K. Ganesan, and VNG Rao, Latest Technologies in Bagasse Based Power Generation, presented at Advanced Training Program on Bagasse Based Cogeneration, Dec, '98. Organized by CII, New Delhi.
4. Raveendran K, K. Ganesan, and VNG Rao, Updraft Gasification for Biomass Based Power Generation, presented at renewable Energy Seminar, Conducted by Anna University, Chennai.

#### **Internal Reports Submitted:**

1. Thermal Decomposition of Carbonaceous materials – Char and Tar formation
2. Status of Integrated Gasification Combined Cycle Technology world wide
3. Techno-Commercial evaluation of Ammonia-water mixture based waste heat recovery Systems by M/s Exergy Inc., USA; Techno-commercial evaluation of an IGCC technology offered by M/s Nycomb, UK
4. Techno-commercial evaluation of low boiling working fluid based condensing power cycle.

#### **Research Papers Published/Presented in Conferences:**

### **Papers Published in International Journals:**

1. Raveendran. K, and Anuradda Ganesh, Biomass Selection Criteria for Pyrolytic Conversion Processes, FUEL, submitted for publication, (2016).
2. Raveendran, K, and Anuradda Ganesh, Properties of Biomass Pyrolytic Products and their Compositions, FUEL, submitted for publication, (2016).
3. Raveendran. K, Anuradda Ganesh and Kartic C. Khilar, Influence of Ash on Pyrolysis of Biomass, FUEL 74 (12), p1812 – 1822 (1994)
4. Raveendran.K, Anuradda Ganesh and Kartic C. Khilar, Pyrolysis Characteristics of Biomass and Biomass Components, FUEL 76 (12),p1323-2323 (1996)
5. Raveendran. K, and Anuradda Ganesh, Adsorption Characteristics and – Pore-Development of Biomass-Pyrolysis Char, Fuel77 (7),p769-781(1998)
6. Raveendran K and Anuradda Ganesh, On the Heating Value of Biomass and its Pyrolysis products, Fuel 75 (15) p1715-1720 (1997)
7. Raveendran. K, R. Sethumadhavan and R.Vasudevan, Municipal Solid Wastes –Efficient Disposal and Energy Generation, ENERGY MANAGEMENT, p20-28 (1990)

### **Papers Presented in Conferences:**

1. Raveendran K, Padmanabhan S and VNG Rao Biomass Combustion and gasification for power generation, International conference on REOPOI, Indian Institute of Technology, Chennai, 1997
2. Raveendran K, Anuradda Ganesh and Kartic C. Khilar, Pyrolysis of Biomass and Biomass Components, International Summer Meeting of American Society for Agricultural Engineers, at Kansas City, U.S.A (1994)
3. Raveendran K, Anuradda Ganesh and Kartic C. Khilar, influence of Ash on Pyrolysis of Biomass, International Summer Meeting of American society for Agricultural Engineers, held at Kansas City, U.S.A (1994)
4. Raveendran K, Anuradda Ganesh and Kartic. C Khilar, On the Product Utilization Of Biomass Pyrolysis, International Conference on BioResources'94, held at I. I.Sc.,Bangalore (1994)
5. Raveendran K, Anuradda Ganesh, Estimation of Kinetic Parameters from Non-Isothermal TGA Data – A Combined Numerical and Non – Linear Optimization Method, Proceedings of the National Conference on Biomass Gasification and Combustion, held at Mysore, (eds.P.J.Paul and H,S Mukunda), Interscience publishers, (1992)
6. Raveendran K, Anuradda Ganesh, Influence of ash on Biomass Pyrolysis, national Conference of Solar Energy Society of India, held at Indian Institute of Technology, Delhi (1992)
7. Raveendran K, Kartic C. KhilarAnuradda Ganesh, Pyrolysis of biomass for liquid Fuels, national conference of Solar Energy Society of India, held at Poona University, Pune, (1991)
8. Raveendran K, R. Sethumadhavan and R. Vasudevan, Municipal Solid – Efficient Disposal and Energy Generation, Conference on the state of Trichy Environment. Bharathidasan University, Trichy, (1998)
9. Raveendran K, G.Magesh, R. Ramamohana Rao and R.Vasudevan, Incineration of Industrial Wastes – An effective Alternative Method of Disposal, conference on The State of Trichy Environment, Bharathidasan University, Trichy, (1989)

10. Magesh G, K.Raveendran, R. Sethumadhavan and R. Vasudevan , Development of Fluidised Bed Incinerator for Toxic Chemical waste, Proceedings of the National Conference on Non-Conventional Energy Sources Perspectives for the Year 2000 A.D., MIT, Manipal, (1989)
11. Arulanathan K, K .Raveendran, R. Sethumadhavan and R.Vasudevan, Development of Biomass Gasifier for Thermal Application, Proceedings of National Conference on Non-Conventional Energy Sources Perspectives for the year 2000A.D., MIT, Manipal, (1989)