CURRICULUM VITAE

Name **:Dr.JOHN M GEORGE**

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DATE OF BIRTH **: 12-11-1951**

NATIONALITY **: INDIAN**

RELIGION **: CHRISTIAN**

EDUCATIONAL QUALIFICATIONS:

DEGREE	NAME OF COLLEGE	YEAR	CLASS OBTAINED
SSLC	M.G HIGH SCHOOL,	1967	FIRST
PRE DEGREE	THUMPAMON S.B.COLLEGE,CHANGANACHERRY	1969	FIRST
BSc.ENGG (MECHANICAL)	REGIONAL ENGINEERING COLLEGE,CALICUT	1973	FIRST
MSc.ENGG MECHANICAL	COLLEGE OF ENGINEERING	1976	FIRST CLASS WITH

HEAT	TRIVANDRUM.		DISTINCT
POWER) DOCTOR OF PHILOSOPHY (Ph.D) IN MECH. ENGG(Refriger & Air conditioning)	INDIAN INSTITUTE OF TECHNOLOGY,MADRAS	1991	ION NA

EXPERIENCE:

A. TEACHING EXPERIENCE:

NAME OF INSTITUTION	POST HELD	PERIOD
T.K.M COLLEGE OF ENGINEERING KOLLAM-5	LECTURER IN MECHANICAL ENGINEERING	15-2-77 to 20-11-85
T.K.M COLLEGE OF ENGINEERING KOLLAM-5	ASSISTANT PROFESSOR IN MECHANICAL ENGINEERING	21-11-85 to 2-6-2002
T.K.M COLLEGE OF ENGINEERING KOLLAM-5	PROFESSOR IN MECHANICAL ENGINEERING	3-6-2002 to 30-11-2006
MUSALIAR COLLEGE OF ENGINEERING AND TECHNOLOGY,PATHANAMTHITTA	PRINCIPAL	1-12-2006 to 31-5-2009
CAARMEL ENGINEERING COLLEGE,PERUNAD,RANNI	PRINCIPAL	1-6-2009 – 15-6-2010
BISHOP JEROME INSTITUTE, INTEGRATED CAMPUS,KOLLAM-1	PRINCIPAL	16-6-2010 -23-3-2014
RAJAGIRI SCHOOL OF ENGINEERING AND TECHNOLOGY	DEAN and VICE PRINCIPAL	24-3-2014-continuing

B. OTHER AREAS:

* **Lab in Charge (P.G Mechanical Lab) 1990 to 2002.**

* **Co-ordinator, Training and Placement Cell 20-1-1997 to 06-7-1999**
  25-7-2001 to 19-5-2006

* **Co-ordinator, Industry- Institute Interaction Cell 1-9-2000 – 19-5-2006**

* **Convener, MEXSYM 2002 (National level Technical Symposium organized by Department of Mechanical Engineering)**

* **Research Guide, Kerala University (From 2001 onwards)and Research Guide,Anna University Coimbatore (From 2009 onwards)**
* **Question paper setter of Cochin University, National institute of Technology, calicut, Public Service Commission of Kerala State etc**
* **Reviewer for International Conference on Polygeneration(ICP 2015) at Anna University,Madras.**
* **Committee Member for National Conference on Refrigeration and Airconditioning at Raja Laxmi College of Engg at Chennai in collaboration with IIT,Madras**

***Committee Member, The Institution of Engineers(India), Kollam Local Centre.**

***Chartered Engineer(India) , Mechanical Engg Section**

*	**B.Tech Projects Guided**	**: 10**
*	**M.Tech Projects Guided**	**: 21**
*	**Ph.D Projects Guided and completed**	**:Shafi.K.A has completed and Ph.D awarded to him by Kerala University.**
***PhD work Guided and submitted**		**: Mohammed Sajid has completed Ph.D awarded to him by Kerala University.**
***PhD work Guiding**		**: Sreeyesunath is undergoing Phd work**

* **Member,Academic Advisory Board,M.P Christian College of Engineering and Technology,Bhilai,Chhattisgarh.**
* **Examiner. MS thesis, Anna University, Chennai**
* **Expert Committee member for AICTE**
* **Scientific committee member,Conference of “”Nanotech 2009,India August 09**

C.PROJECT COMPLETED (Chief Co-ordinator)

- **“DESIGN AND DEVELOPMENT OF AMMONIA-WATER VAPOUR ABSORPTION REFRIGERATION SYSTEM WORKING WITH FLAT PLATE SOLAR COLLECTORS” USING Rs.TEN LAKHS FUNDED BY MHRD.**
- **“DESIGN AND DEVELOPMENT OF SINGLE STAGE ORIFICE PULSE TUBE REFRIGERATOR FOR APPLICATION IN THE FIELD OF SUPER CONDUCTIVITY” TAPTEC PROJECT FOR RUPEES 5.25 LAKHS.**

D. PROJECT COMPLETED (Co- Principal Investigator)

- **“DEVELOPMENT OF MULTISTAGE PULSE TUBE CRYO COOLER BASED CRYOGEN FREE CRYOSTAT FOR 4.2K**

EXPERIMENTS" AT CENTRE FOR CRYOGENIC TECHNOLOGY, INDIAN INSTITUTE OF SCIENCE,BANGALORE, FUNDED BY CSIR FOR 7.72 LAKHS

E.TRAINING PROGRAMME CONDUCTED:

Co-ordinated and conducted Five day Training Programme on ' Assembly and Testing of airconditioning sets" for personnel from Kerala Electrical and Allied Engineering Company Limited(KEL) Kundara,Kollam,19-25 Sept 2001.

F. SPECIAL COURSES ATTENDED:

a. **Four week summer school on "Advanced Engineering Thermodynamics", Indian Institute of Technology, Kharagpur,India, May-23 to June-17,1977,organized by Quality Improvement Programme,Ministry of education ,New Delhi, India.**

b. **Two week summer school on "Experimental Techniques in Fluid Mechanics",Indian Institute of Science,Bangalore,India, March 5-17,1979,organized by Quality Improvement Programme,Ministry of Education,New Delhi,India.**

c. **Two week winter school on " Fluid Mechanics of suspensions and its Engineering applications",Indian Institute of Technology,Bombay,India,December 9-22,1979,organized by Indian Society for Technical Education,New Delhi,India.**

d. **Two week summer school on " Heat pump Technology",Indian Institute of Technology,Madras,India,May 7-18,1990,organized by Quality Improvement Programme,Ministry of Education, New Delhi,India.**

G. INTERNATIONAL PAPERS:

a. **John M.George and K.Srinivasan**
"Viscosity and Thermal Conductivity of refrigerant- absorbent mixtures", Regional Journal of Heat and Mass Transfer,II, pp.265-269,1989.

b. **John M.George and S.Srinivasa Murthy**
" Influence of heat exchanger effectiveness on performance of vapour absorption heat transformers", International Journal of Energy Research,V.13,pp.455-475,1989.

c. **John M.George and S.Srinivasa Murthy**
" Influence of absober effectiveness on performance of vapour absorption heat transformers",International Journal of Energy Research,V.13,pp.687-699,1989.

d. **John M.George and S.Srinivasa Murthy**
" Influence of generator effectiveness on performance of vapour absorption heat transformers",International Journal of Energy Research,V.13,pp.455-475,1979.

e. John M.George,W.Marx and S.Srinivasa Murthy
" Thermodynamic analysis of R22-DMF compression- absorption heat pump", Heat Recovery Systems and CHP.V9,n5, pp.433-446,1989.

f. John M.George,W.Marx and S.Srinivasa Murthy
" A comparative thermodynamic study of R22-DMETEG and R22-DMF compression –absorption heat pump",Heat Recovery systems and CHP",V10,n1,pp.31-36,1990.

g. John M.George and S.Srinivasa Murthy
"Effects of different temperature levels at generator and evaporator On the performance of vapour absorption heat transformer",Inter-National Journal of Energy Research,V16,pp 373-380,1992.

h. John M.George, S.Sriniva Murthy
"Effects of different temperature levels at Generator and Evaporator On the performance of Vapour Absorption Heat transformers" International Journal of Energy research,V16,Issue-5,July 1992, pp. 373-380.

i. John M.George and S.Srinivasa Murthy
" Experiments on a vapour absorption heat transformer", International Journal of refrigeration,V16,N2, pp.107-119,1993.

j. John M George,Aswin T.R,
"Experimental optimization of Vortex Tube as a cooling and heating machine" Energy,Pergamon Press (under 2nd review)2005

k. John M George,Aneesh K John
"Wall temperature analysis of heat pipe",IJHMT,(Under review) 2005

l. John M George ,Aswin T.R
"Performance analysis of vortex tube",Journal of energy heat and mass transfer (accepted for publication) 2005

m. K.A Shafi,K.K Abdul Rasheed,John M.George,N.K Mohammed Sajid and S.Kasthurirengan 'Experimental and theoretical analysis of a two-stage pulse tube cryocooler reaching down to 3K (communicated to International Journal of Heat and Mass Transfer and under review)

n. K.A Shafi,K.K Abdul Rasheed,John M.George,N.K Mohammed Sajid and S.Kasthurirengan
'A simple numerical model for a two stage pulse tube refrigerator"(Communicated to International Journal of Cryogenics and under review.)

o. T.R Ashwin and J.M George.
"Exergy Analysis on Vortex Tubes" Journal of Institution of Engineers,India. Vol 87 (2006,October),pages 18-21

p. **Ashwin T.r and John M.George**
"Performance Analysis of Vortex Tubes",Journal of Energy,Heat and Mass Transfer for Asia ans Pacific,accepted in March3,2005.

q. **K A Shafi, N K Mohammed Sajid, John M George K K Abdul Rasheed, S Kasturirengan 'An adiabatic model for a two stage double inlet pulse tube refrigerator' Journal of Mechanical Engineering Sciences ,UK (doi:10.1243/09544062JMES775) 2008, p 1247-52.**

r. **K. A Shafi, K K A Rasheed,J M George,N K M Sajid "Investigations Of Two Stage Pulse Tube Cryocooler Operating Down To 2.5 K. Journal of Mechanical Engineering Science, published for the Institution of Mechanical Engineers by Professional Engineering Publishing limited, London, UK, Proceedings of the Institution of Mechanical Engineers, Part C, 2010,Vol.222 No C6ISSN 0954-4062,pp 1255-1260.**

H. INTERNATIONAL CONFERENCE:

a. **S.Srinivasa Murthy and John M.George**
"Experiments on a R21-DMF Absorption Heat Transformer",Proceedings of the third International workshop on 'Research activities on advanced heat pumps ',Institute of chemical Engineering,Graz University of Technology,Austria,Sept 24-26,1990.

b. **John M.George and S.Srinivasa Murthy**
"Mass transfer in the falling film absorber of a vapour absorption heat Transformer",11_{th} International Congress of Chemical Engineering,CHISA'93,Praha,Czech Republic,Aug 29-Sept 3,1993.

c. **Anish John Kariumpanoor and John George M**
" Wall temperature analysis of R12 heat pipe"
Proceedings of the seventeenth International Symposium on Transport Phenomena,Japan. (ISTP-17) Session 2-B-III,Heat exchangers XIII, Ppaper 2-B-III 4, September 6,2006.

d. **K.A Shafi,John M.George et.al**
"Experimental investigations of a two stage pulse tube cryocooler operating down to 3.5K", Proceedings of the International cryogenic conference ICEC-21 at Prague,Czecolosavakia during July 21-25, 2006.

e. **K.A Shafi,John M.George et.al**
"Experimental studies on a two stage pulse tube cryocooler reaching 3.3K,2007, Proceedings of the International cryogenic materials conference held during 16-20 July 2007 at Chattanooga Convention centre in Chattanooga,Tennessee,USA.

f. **Sreeyesunath.S,Reby Roy and John M.George.**
"Preliminary analysis of Cryogenic Carburator for Cryogenic Internal

Combustion Engine",Proceedings of the18th International World Hydrogen Energy Conference,16-21 May 2010,Essen,Germany.

g. S.Sreeyesunath,K.E Reby Roy,John M.George.Sr,E.Y.K Ng " Preliminary analysis of heat transfer effect on subsystems for Cryogenic Internal Conbustion Engine,Proceeding of the 8th ASME/JSME Thermal Energy Conference,AJTEC8,March 13-17,2010,Honolulu,Hawall,USA

h. K.A.Shafi, N.K. Mohammed Sajid, John M George, K.K. Abdul Rasheed, Anand N Bahuguni, S Kasturirengan, Development and studies of a 2 stage pulse tube refrigerator for experiments down to 13K, Proc. Of 14th ISME International conference on Mechanical Engineering in knowledge age, Dec.12,2005.

i. k.K.A.Shafi, N.K. Mohammed Sajid, John M George, K.K. Abdul Rasheed, Anand N Bahuguni, Kasturirengan, Analysis of the experimental results of single a stage pulse tube refrigerator with simple theoretical models, 14th ISME International conference on Mechanical Engineering in knowledge age, on Dec.12,2005.

j.K.A.Shafi N. K. Mohammed Sajid, John M George K.K. Abdul Rasheed, Manu Varrier, Numerical Modeling of an Orifice Pulse Tube Refrigerator, 14th ISME International conference on Mechanical Engineering in knowledge age, on Dec.12,2005.

k. Shafi K.A, N.K Mohammed Sajid, K.K. Abdul Rasheed, John M George, S. Kasturirengan, Development and investigation of a two stage pulse tube cryocooler operating down to 3.5 K, Proc.of 21st International cryogenic engineering conference(ICEC-21) Prague 2006.

l..Shafi K.A, N.K Mohammed Sajid, K.K. Abdul Rasheed, John M George, P. Ramesh, Anand N Bahuguni, M.S.Linga Raju and S. Kasturirengan, Experimental investigation of a two stage pulse tube cryocooler operating down to 3.5 K, Proc. of 21st International cryogenic engineering conference(ICEC-21) Prague 2006.

I. **WEBCASTS ATTENDED:**

a. **Kirk Mescher,Mick Schwedler and Jeff Spitler "Ground Source Heat Pump System-Putting the Earth to Work for you" April,21 2011.**

b. **Tim Mc Ginn.,Stan Mumma and John Murphy. "Dedicated Outdoor Air systems-Path to Balancing Energy and IEQ" April 19,2012**

c. **Drury Crawley,Jim Kelsey and Christopher Mathis "Assessing Building Energy Performance- From Principles to Practice" April 16,2013.**

d. **Robert G.Baker,James K.Vallort and Ronald J.Wilkinson "New Tomorrows for Today's Buildings:Existing Building Commissioning"**

April 23,2015

e. **Marc Burne,Phillip Macey and Paul Torcellini**
"Making Net Zero Net Positive-Solving the Efficiency and Cost Paradox"
April,21 2016.

J. NATIONAL CONFERENCES :

a. Nineth National Heat ans Mass Transfer Conference, Indian Institute of Science, Bangalore,India, December 8-10,1987. (Presented a paper on " Viscosity and Thermal conductivities of Refrigerant- absorbent mixtures".)

b. Workshop on "Thrust area projects 92-93, Funded by Ministry Human Resource Development,New Delhi,February 21-22, 1993, Institute of Technology,Banaras Hindu University, Varanasi,India. (Presented a paper on " Design and Development of Ammonia-Water vapour absorptionRefrigeration System working with flat plate solar collectors".)

c. Work shop on " Sustainable Energy Technologies for Human settlements",organized by RCEHMT And UNCHS, July 12-16,1993, Indian Institute of Technology,Madras,India.

d. T K Favas,N K Mohammed Sajid, John M George K K Abdul Rasheed K A Shafi and B Premlet 'Development of an orifice pulse tube refrigerator' Vol. 30 2005, Indian journal of Cryogenics (ISSN: 0379-0479) p 70-73.

e.N K Mohammed Sajid, K A Shafi, John M George K K Abdul Rasheed S Kasturirengan'Heat balance analysis of a single stage orifice pulse tube refrigerator' Journal of The Institution of Engineers (India), Vol.90 October 2009, p 23-28.

f. Presented a project Report of the research work on " design and Development of Ammonia-water Vapour absorption refrigeration system working with flat plate solar collectors", Indian Institute of science,Bangalore,India,Nov,1995

g.. S.Srinivasa Murthy and John M .George
" Heat pumps and Energy Conservation: absorption systems", Report sponsored by Tata Energy Research Institute,New Delhi,India.

h. T.K Favas,N.K Mohammed Sajid,John M.George,K.K Abdul Rasheed,K.A Shafi and B.Premlet.

" Development of an orifice pulst tube refrigerator", Proceedings of the National seminar & Conference on cryogenics and its frontiers of application,25-27 March,2004, organized by Indian cryogenic Council and Bengal Engineering College.

i. **K.A Shafi,K.K Abdul Rasheed,John M.George,N.K Mohammed Sajid and S.Kasthurirengan 'Development of an orifice pulse tube refrigerator ''Indian Journal of Cryogenics,Vol 30,No.1,2005.**

d. K.A Shafi,John M.George et.al " Development and studies of a 2 stage pulse tube refrigerator for experiments down to 15K' Proceedings of the 14_{th} ISME International conference on Mechanical engineering in knowledge age ,organized by Delhi College of Engineering,Delhi

j. K. A Shafi,John M.George et.al " Analysis of the experimental results of a single stage pulse tube refrigerator with simple theoretical models", Proceedings of the 14_{th} ISME International conference on Mechanical engineering in knowledge age ,organized by Delhi College of Engineering,Delhi from Dec. 12-14 2005.

k. Two day workshop on " Curriculum Development in Mechanical Engineering",Indian Institute of Science, Bangalore,India,November, 24-25,1995.

l. Presented a paper on "Solar Refrigeration Systems in Buildings" for a seminar on " Solar Thermal Energy applications in buildings" by ANERT,Govt of Kerala & MNES,Govt of India at Cochin on 17-1-2002.

m. Presented a paper on " Solar Powered Refrigeration systems", for a seminar on " Trends,possibilities and Challenges: Renewable energy Technologies", 17_{th} April 2004, University of Calicut, organized by Calicut University Institute of Engg and Technology (CUIET) ,Calicut and ANERT,Trivandrum.

n. National Training Programme on SPV Lighting Systems,15-17, July,2004, Mascot Hotel,Trivandrum: organized by Solar Energy Centre,MNES ,New Delhi and ANERT,Trivandrum.

o. Workshop on "Bio-technology as a tool for environmental conservation"Sponsored by AICTE,Sree Budda college of Engineering,Pattoor,Pandalam,20-8-2004.

p. John M George ,Aneesh K John"Experimental studies on heat pipe"' 18th national and 7th ISHMT-ASME Heat and mass transfer conference,IIT Guwahati ,January 4-6 2006

q. John M George and Ashwin T.R,"Thermodynamic analysis of vortex tubes" 18th National and 7th ISHMT-ASME Heat and MassTransfer Conference IIT Guwahati ,January 4-6,2006

r. Shafi K.A,John M.George et.al

" Development of an orifice pulse tube refrigerator,National seminar on cryogenics and frontier applications,25-27th March 2004,organized by Indian Cryogenic council.

s. Shafi K.A ,John M.George
" Comparative study of different mathematical models of sigle stage pulse tube refrigerator, Proceedings of National symposium on Insryumentation (NSI-30),organized by Instrument Society of India, Indian Institute of Science,Bangalore and cochin University of Science and Technology,30th Nov to 2nd Dec 2005,pp-1071-1078.

t. Shafi K.A ,John M.George
" Theoretical studies of sigle stage pulse tube refrigerator", VII National Conference on Technological trends organized by College of Engineering,Trivandrum on 17-18 Dec 2006.

u. Ashwin T.R and John M.George
"Thermodynamic Analysis of Vortex Tubes', 7th ISHMT-ASME Heat and Mass Transfer conference at IIT,Guwahati

v. T K **Favas,N K Mohammed Sajid, John M George K K Abdul Rasheed K A Shafi and B Premlet 'Development of an orifice Pulse tube refrigerator' Vol. 30 2005, Indian journal of Cryogenics (ISSN: 0379-0479) p 70-73.**

w.N K Mohammed Sajid, K A Shafi, John M George K K Abdul Rasheed S Kasturirengan'Heat balance analysis of a single stage orifice pulse tube refrigerator' Journal of The Institution of Engineers (India), Vol.90 October 2009, p 23-28.

x.T K Favas, N K Mohammed Sajid, , John M George K K Abdul Rasheed K A Shafi, B Premlet 'Development of an orifice pulse tube refrigerator' National conference and seminar on cryogenics and its frontiers of applications 2004 .

y.K.A.Shafi,N.K. Mohammed Sajid, John M George,K.K. Abdul Rasheed, Anand N Bahuguni, S Kasturirengan, Comparative study of different mathematical models of single stage pulse tube refrigerator, Proc. of National symposium on Instrumentation(NSI-30), 30th Nov Dec.2005,pg.1071-1078.

z.K.A.Shafi, N.K. Mohammed Sajid, John M George, K.K. Abdul Rasheed, Anand N Bahuguni, S Kasturirengan, Development of a two stage pulse tube refrigerator for low temperature applications Proc. of National symposium on Instrumentation(NSI-30), 30thNov. December 2005.

Z1.Shafi K.A, N.K Mohammed Sajid, K.K. Abdul Rasheed, John M George, S. Kasturirengan 'Development of a two stage double inlet pulse tube cryocooler operating down to 3K'. National Conference on Refrigeration and Air-conditioning, IIT Madras,2009.

Z2.Ahshay.N,Arjun B,Bibin Jose,George Antony and John M George "Performance Analysis on Vortex Tube" Proceeding of the National Conference on Refrigeration and Air Conditioning, NCRAC-2015, Rajaleshmi Engineering College,Chennai, 28-30 October 2015.

K. MEMBERSHIPS:

1. **Member ASHRAE,USA**
2. **Life Member Energy Conservation Society,Kerala**
3. **Life Member Indian Society for Wind Engineering,Roorkee**
4. **Life Member ISTE,New Delhi**
5. **Life Member The combustion Institute**
6. **Fellow of the institution of Engineers,India**
7. **Chartered Engineer (India)**
8. **Life Member of ISSE,cochin**
9. **Member IEEE**
10. **Member ASME**

Dr.John M.George