



Dr. V. RAJENDRAN
M.Sc., M.Tech., Ph.D., FASI, FUSI, FInstP (London)
 Director, Research & Development and
 Centre for Nano Science & Technology
 K.S. Rangasamy College of Technology, Tiruchengode, India
 Phone : +91- 4288- 274 741-4, Mobile +91-99941 30303
 Fax : +91-4288-274880
 Email: veerajendran@gmail.com

Educational Qualifications (Date of birth 02.11.1962)

	Bachelor	Masters			Doctorate
		First	Second	Third	
University	B.Sc. 72.6% Distinction Madras University	M.Sc. 65.2% Annamalai University	M.Phil. 70% Distinction Annamalai University	M.Tech. 9.07 CGPA Distinction Anna University CBE	Ph.D. Thesis adjudged Excellent Annamalai University
Year of completion	1984	1986	1988	2009	1993
Specialisation	Physics	Physics	Ultrasonics	Nanotechnology	Ultrasonics

Key Responsibilities

- Rajendran is currently The Director, Research & Development, and Centre for Nano Science and Technology (CNST) at K.S Rangasamy College of Technology, Tamil Nadu, India.
- He has initiated new research projects and directions on R & D activities at KSRCT, Tiruchengode for the past three years.
- **Centre for Nano Science and Technology (www.nanotech.ksrct.ac.in)** was established at K.S. Rangasamy College of Technology, Tiruchengode under his co-ordination, considering the potential benefits of nanotechnology, a need for the industrial and academic community to support nanotechnology applications. Presently, the centre concentrates on different broad areas of research in nanotechnology namely, the production of nanometal oxides from natural minerals/resources for refractory applications, nanobiomaterials for drug delivery and implant applications, nanotextiles, nanoagriculture and nanoherbal products for biomedical applications. State of the art facilities in nano technology have been established with an investment of more than Rs.10 crores to cater to the needs of the researchers. The total cost of the ongoing sponsored research projects is more than Rs.2 crores from different funding agencies like DST (Nano Mission), DRDO, IGCAR, UGC-DAE CSR etc. The centre is also looking for industrial partnership on frontier areas of nanotechnology.
- KSRCT has been recognized as a scientific and industrial research organisation (SIROs) by DSIR, Ministry of Science and Technology, New Delhi which facilitates to import equipment from abroad without customs duty.
- Presently, he is the President, Acoustical Society of India (ASI) since December 2009.
- As a Co-Ordinator, he has established an exclusive research lab i.e., Nano Science and Technology Research Centre (NSTRC) at his former institute (Mepco Schlenk Engineering College, Sivakasi), a first of its kind under private sector in India, where he has carried out his research and academic activities for more than 14 years.
- He was responsible for the **Design, launching and maintenance of the Acoustical Society of India** official website during his tenure as General Secretary.
- He was instrumental in establishing an indigenous high temperature ultrasonic on-line materials characterisation experimental set-up to explore the microstructural changes in various materials over wide range of temperatures **with the support of Board of Research in Nuclear Science and Indira Gandhi Centre for Atomic Research, first of its kind in India and the same was acclaimed in the IGC Newsletter on Page 4, volume 65, July 2005 issue.**

- Very recently one of his books on **Science and Technology of Ultrasonics has been Published in Russian Language** (ISBN 5-94836-088-01, ISBN 1-84265-066-1), (Authors Dr. Baldev Raj, Dr. V. Rajendran and Dr. P.Palanichamy).
- Two of his book namely Engineering Physics and Materials Science have been prescribed as a text book by many universities in India like Anna University (Chennai, Coimbatore, Trichy & Tirunelveli), Jawaharlal Nehru Technological University (JNTU) - Anantapur, Pondicherry Engineering College, Vinayaka Missions university, Vellore Institute of Technology, Karunya University, Annamalai University, Noorul Islam University, SRM University, CIT Coimbatore, GCT, Coimbatore, Pondicherry Engineering College, Jamia Hamdard University, New Delhi, University of Pune, IGNOU, Buji Patnaik University for Technology, Orissa, etc.
- President of Madras India Regional Chapter –Acoustical Society of America (MIRC-ASA) during 2008-10.
- He is a Fellow of No. of reputed scientific societies both in India and abroad such as, Institute of Physics, UK, Acoustical Society of India and Ultrasonic Society of India and holds life membership in more than 14 scientific societies both in India and abroad.

Research Expertise and Achievements

- He has more than 16 years of experience both in teaching and research in the field of materials science and nanotechnology.
- Under his guidance, five Ph.D. have been awarded. Presently, 2 scholars are writing their Ph.D. thesis while 9 doctoral scholars are pursuing their research for Ph.D.
- Presently, he is the Principal Investigator of a sponsored research project (Rs.1.25/- crores) by i) Department of Science and Technology (DST), New Delhi, under Nano Science and Technology Initiative (NSTI) programme i.e., Nano Mission Project, ii) Defence Research Development Organisation (DRDO), New Delhi, iii) Department of Atomic Energy, IGCAR, Kalpakkam and iii) UGC-DAE CSR, Indoor.
- As a Principal Investigator, he is waiting for two new projects with a total cost of Rs.1.10/- crores from sponsoring organisations like DST and DRDO.
- He was the Principal Investigator for five completed sponsored (CSIR, DST, BRNS, IGCAR & INMAS) research projects with a funding of Rs.1.75/- crores.
- Under his Chairmanship/Convenership, a total of Rs.20/- lakhs have been received for organising conference/workshop and various meetings from funding agencies like DST, DRDO, MIT, ICMR, BRNS, TNSCST, CSIR, INSA, ISTE, AICTE, NAL, etc.
- He has received a sum of Rs.1,39,625/- towards international air support for attending conference in abroad from organisations like DST, AICTE, TNSCST, INSA, CSIR, etc.
- Organised the 32nd National Symposium on Instrumentation (32nd NSI) during October 24-26, 2007 in association with Instrument Society of India. More than 175 delegates from different parts of India made the conference a grand success.
- Organised the National Symposium on Acoustics (NSA-2007) in the year 2007 and edited the proceedings after peer review. The same was released on the inaugural day of the symposium itself as proceedings of NSA 2007. It was published by M/s. Macmillan India Ltd., New Delhi. Dr. Stanley I Ehrlich, Dr. Allan D Pierce from Acoustical Society of America, USA and Dr. H.S. Paul from MIRC-ASA participated in NSA 2007.
- Organised the National Symposium on Acoustics (NSA-99) in the year 1999 and edited the proceedings after peer review. The same was released on the inaugural day of the symposium itself as a special issue of the Journal of Acoustical Society of India. It was published by M/s. Vikas Publishers Ltd., New Delhi.
- Organised the National Symposium on Ultrasonics (NSU-96) in the year 1996 and edited the proceedings after peer review. The same was released on the inaugural day of the symposium itself. It was published by M/s. Allied Publishers Ltd., New Delhi.

Policy Initiatives

- The syllabi and curriculum for B.Tech. course in Nanotechnology was framed and submitted to the Anna University Coimbatore and All India Council for Technical Education (AICTE), New Delhi, an apex body which regulate the Engineering and Technical education in India for approval from the academic year 2010-2011.
- The syllabi and curriculum for M.Tech course in Nanotechnology was framed and submitted to the Anna University for approval through the former institute where he worked as Co-ordinator of the Nano Science and Technology Research Centre. Also submitted the necessary proposal for approval the above course from All India Council for Technical Education (AICTE), New Delhi, an apex body which regulate the engineering and technological education in India. The AICTE has sanctioned the proposal to offer the M.Tech course, a first of its kind in India under the organised sector. The post graduate course on M.Tech in Nano Science and Technology is offered at K S Rangasamy College of Technology from the academic year 2008-09.
- Organised the International Conference on Nanomaterials (NANO-2005) at Mepco Schlenk Engineering College, which was a first of its kind in India under the academic research institutions and 2nd International Conference in India exclusively on Nanotechnology. More than 350 delegates including 59 from abroad made the conference a grand success. Entire proceeding of the contributed papers (extended abstract) was published on the inaugural day of the conference through a leading publisher M/s. Allied Publishers Ltd., New Delhi. All the contributed papers was published after peer review in the journal of Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry (SRINMC) published by M/s. Taylor & Francis, USA in the months of January / March 2006 as special issues.
- The separate unit on different non-destructive testing was introduced in the undergraduate B.E. curriculum at Annan University, Tamil Nadu in the year 1996 curriculum revision.

Patents and Publications

Peer reviewed Journals			Conference /Symposia Proceedings		Books		Patent	Keynote address	Invited talk(s)	Reports
Inter	Nat	Under Progress	Inter	Nat.	R& D	Text				
64	25	19	15	19	1	16	10	3	36	7

Countries visited

- As visiting scientist/invited speaker/paper presenter visited various research countries which include USA, Germany, Italy, France, Sweden, Finland, Singapore, Hong Kong, Taiwan, etc.

Awards/Honours

Awards

- **MIRC-ASA best paper award** in the year 2009 for the paper entitled Physico-Chemical and Mechanical Properties of MgO added Bioactivity Glass System using Ultrasonics authored by G. Rajkumar and V. Rajendran.
- **MIRC-ASA best paper award** in the year 2007 for the paper entitled Study of Influence of Phosphorous on the Acoustics and Structural Properties of Borates Bioactive Glasses authored by S. Aravindan and V. Rajendran.
- Awarded the **NDT Man of year 2004** by Indian Society for Non-Destructive Testing, India, based on the overall contributions in R & D in the field of Ultrasonics NDT. The above award is a prestigious award for scientists working in the area of Non-Destructive Testing of materials/plant components.
- Awarded the **Tamil Nadu Scientist Award (TANSA)** by Tamil Nadu State Council for Science & Technology, Chennai, for his outstanding contribution on **Ultrasonics and its measurements** in the field of **Physical Sciences** for the year 1996 -'97. The award consists of a citation, a Cash prize of

- Rs.10,000/- and a certificate in copper signed by Honourable Minister for Education, Tamil Nadu.
- He was awarded **Outstanding Organiser Award** for the better conduct of the Seventh National Symposium on Ultrasonics, 1996 in our college by Ultrasonics Society of India, New Delhi in its Silver Jubilee Celebration function held during December 2-4, 1999 at New Delhi.

Fellowships

- **DAAD Fellowship**
- **Visiting Scientist** by (IzFP), Saarbrucken, Germany
- **Guest Scientist** by ICTP, Italy
- **BRNS Visiting Scientist (three times)** by BRNS, Mumbai.
- **INSA Visiting Scientist** by INSA, New Delhi.
- **Young Scientists Fellowship** by TNSCST, Tamil Nadu.
- **Visiting Scientists Fellowship** by IGCAR, Kalpakkam

Referees in International Journals

- Biomaterials
- Egyptian Journal of Chemistry (Egypt)
- Indian Journal of Pure and Applied Physics
- Indian Journal of Pure and Applied Ultrasonics, India
- International Journal of Thermo Physics
- Journal of Acoustical Society of India
- Journal of Alloys and Compounds
- Journal of American Ceramic Society
- Journal of Magnetism and Magnetic Materials
- Journal of Materials Research
- Journal of Materials Research Bulletin
- Journal of Molecular Liquids
- Materials characterization
- Materials Chemistry and Physics
- National Institute of Science Publication Journals, India
- Physica B
- Polymer International

Members in Editorial Team in Journals

- Nano Digest, India
- Journal of Acoustical Society of India

Memorandum of Understanding (MoU) Initiated

- Indira Gandhi Centre for Atomic Research, Kalpakkam
- Life Science Group, Defence Research Laboratories, DRDO, New Delhi
- Dalmia Institute for Scientific Research (DISR), Rajgangpur
- The Metal Powder Company, Thirumangalam
- Technische Universitat Kaiserslautern, Germany
- Jomo Kenyatta University of Agriculture and Technology (JKUAT), Kenya

Collaborative Research

International Laboratories

- German Centre of Competence in Nano-scale Analysis, University of Hamburg, Germany
- Magnetism Group (Nanotechnology) Fachbereich Physik Technische Universität, Kaiserslautern, Germany
- Institute of Atomic & Molecular Sciences, Academia Sinica, Taipei, Taiwan
- Advanced Materials Processing and Analysis Centre (AMPAC), USA
- National University Singapore (NUS), Nanao Science and Technology Initiative, Singapore
- Fraunhofer Institute for Non-Destructive Testing, Saarbrucken, Germany
- Process Chemistry Group, Process Chemistry Group, Combustion and Materials Chemistry,
- A National Centre of Excellence, Åbo Akademi University, Finland
- Glass Research Department, National Glass Research Centre, Cairo, Dokki, Egypt.

- Kazan State Power Engineering University ul. Krasnosel'skaya, Russia

National Laboratories

- Dalmia Institute of Scientific and Industrial Research (DISIR), Rajgangpur, Orissa
- Institute of Nuclear Medicine and Allied Sciences (INMAS), DRDO, New Delhi.
- Defence Metallurgical Research Laboratory (DMRL), DRDO, Hyderabad.
- Non-Destructive Testing & Evaluation (NDT & E) Section, DPEND, Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, India.
- Safety Engineering Division (SED), SHINEG, IGCAR, Kalpakkam, India.
- Solid State Physics Department, Indian Association for the Cultivation of Science, Kolkatta, India.

Govt.- Society- Institution Relationship

Community FM Radio - As Project Head, responsible for the approval, establishment and operation of Community FM Radio station at K S R Educational Institutions from 2009.

Nominated for following awards/honours/Fellow in December 2009

- National award for outstanding efforts in science and technology communication through books and magazine – Department of Science and Technology, New Delhi
- Institute of Engineers, Kolkatta
- Indian National Academy of Sciences, New Delhi
- National Academy of Sciences, Allahabad
- Indian National Academy of Engineers, New Delhi

FORTH COMING EVENT

INTERNATIONAL CONFERENCE ON NANOMATERIALS AND NANOTECHNOLOGY

(NANO 2010)

December 13-16, 2010 @ KSRCT, Tiruchengode, Tamil Nadu, India
(www.nano.ksrct.ac.in)



Chair: Prof. Dr. V. Rajendran

Co-Chairs : 1) Prof. Dr. Kurt E. Geckeler
Director, World-Class University Program (WCU), Gwangju Inst. of Science & Tech.(GIST),
South Korea
2) Prof. Dr. Burkard Hillebrands
Vice-President, Technische Universitat Kaiserslautern, GERMANY

(Dr. V. Rajendran)