

Biography of Dr.M.Ponnaivaikko

Dr. Murugesan Ponnaivaikko was born in 1946 at Sengamedu village, South Arcot district, Tamil Nadu. He graduated in Electrical Engineering from Guindy Engineering College in 1969 and obtained his M.Sc.(Engg.) in Power Systems from the same institution in 1972. He received his Ph.D. degree in Optimal Distribution System Planning from I.I.T.(Delhi) in 1983. He is specialized in Operation Research and has contributed original methods for Distribution System Optimization.

He was a pioneer in the country to promote energy conservation techniques using his models for improving the Distribution systems of the State Electricity Boards through Rural Electrification Corporation, New Delhi and his models are known as “Ko Models”. He is also a pioneer in promoting Virtual Education in the country. His contributions to the Tamil Virtual University of the Tamil Nadu Government, as its founder Director, and to the Committee on ‘National Initiatives on Engineering Experimentation’, constituted by the AICTE , as an Expert Member, are commendable. He made commendable contributions to the community as Vice-Chancellor at Bharathidasan University by introducing Skill based academic curriculum, making the graduates employable and a number of empowerment programs for the community, including differently abled persons, for the economic development of the people living in the area under the jurisdiction of the University. He functioned as a unique Vice-Chancellor, making Bharathidasan University as a model University.

He started his career from Tamil Nadu State Electricity Board in 1972, immediately after completing his P.G. degree programme. From there he moved to different organisations including Indian Institute of Science (Bangalore), Southern Regional Electricity Board (Bangalore), Bharath Heavy Electricals Limited (New Delhi) and Rural Electrification Corporation (New Delhi) from 1972 till 1984. In 1984, he was deputed to ECCO (Electrical Construction Company), Libya as an **Advisor and Secretary** to the Board. After serving for 2 years at that capacity at ECCO, he moved to the Higher Institute of Mechanical and Electrical Engineering, Hoon, Libya as a **Visiting Professor** in 1986 and served there till 1989.

From 1989 till Jan.1995, he was serving as Professor and Head of the Department of Computer Science and Engineering, initially at Mookambigai College of Engineering, Tiruchirappalli, and then at Regional Engineering College, Tiruchirappalli. While at Mookambigai College of Engineering he devised Syllabus for M.Phil. (Comp.Sc.) for the Summer Sequential Programme, instituted at Bharathidasan University and conducted the

course for the first time in the University as its Course Director and continued offering the same course while at Regional Engineering College. He later served as Professor and Head of the Department of Computer Science at the Crescent Engineering College, Chennai from 1995 till 2000. From July 2000. He served as the **Director**, at the level of Vice-Chancellor at the Tamil Virtual University from July 2000 till August 2003. From september 2003 he was serving as the **Director**, Research and Virtual Education Directorate at the SRM University till June 2007. From July 2007 he was serving as the **Vice-Chancellor, Bharathidasan University**, Tiruchirappalli, Tamil Nadu till July 2010. He is at present the **Vice-Chancellor**, SRM University.

He has also served as Member of the Sub-Committees constituted by UGC & AICTE for improving the standard of Higher Education in the Country. He was **Vice-Chairman, IEEE Madras Section, for two terms**, 2004, and 2005; and **Chairman, IEEE Madras Section, for two terms**, 2006, and 2007.

He has been a Consultant, Researcher, Teacher, Academician and Administrator in the Industries and Public Sectors and academic Institutions contributing in the areas of Power Systems and Computer Engineering for over 4 decades. He has made original contributions, and his models are known as “Ko Models”. He has published over 101 technical papers and worked on more than 40 research projects. His areas of interest are Power System Studies, Computer Science & Engineering, Curriculum Planning and Tamil Computing.

Experience – Positions occupied

Sl.No.	Position - Held	Organisation	No. of Years
1	Vice-Chancellor	SRM University, Chennai	From July 16, 2011.
2	Provost	SRM University, Chennai	From July 15, 2010 till July 15, 2011
3	Vice-Chancellor	Bharathidasan University, Thiruchirappalli	11 th July 2007 – till 10th July2010
4	Director (Research, Virtual Education & International Initiatives)	SRM University, Chennai	Sept 2003 – June 2007
5	Director (at the level of Vice-Chancellor)	Tamil Virtual University, Govt. of Tamilnadu	3 Years (Jul.2000-Sep.2003)
6	Prof. & Head, Dept. of Comp. Sc. & Engineering	Crescent Engg. College, Chennai (1995-2000), REC Trichy (1993-1995),	10.5 Years (1989 - 2000)

		Mookambikai College of Engg., Trichy (1989 - 1993)	
7	Prof. (Elect. Engg.)	HIMEE, Hoon, Libya	3.0 Years (1986 - 1989)
8	Board Secretary & Advisor (Engineering)	ECCO, Tripoli, Libya	2.5 Years (1984 - 1986)
9	Special Officer (System Improvement) (Equivalent to Professor from Jan.1981 – Feb. 1984 and Assistant Professor from Sept.1977- Dec.1980)	Rural Electrification Corporation Ltd., New Delhi 110 019	6.5 Years (1977 - 1984)
10	Design Engineer (Computer Aided Analysis, Design and Planning of Power Systems)	BHEL / PED, New Delhi	1 Year (1976 - 1977)
11	Assistant Engineer	Tamilnadu Electricity Board and on deputation at IISc, Bangalore and SREB, Bangalore	4.5 Years (1972 -1976)
12	PG Studies (on Leave)	College of Engg., Guindy	1.5 Years (1970-1972)
13	Field Engineer	TNEB, Crompton Engg. Co	1 Year (From July 1969 – 1970)

Awards and Recognition

- **Sir Dr.M.Ponnaivaikko**, Vice-Chancellor of SRM University was awarded the prestigious **Bharat Jyoti Award**, Certificate of Excellence, of the India International Friendship Society for his Meritorious Services, Outstanding Performances and Remarkable Role by **Shri Rajeev Shukla**, Hon'ble Minister of State for Parliamentary Affairs in the presence of **Dr.Bhishma Narain Singh**, former Governor of TamilNadu & Assam, during the **Global Friendship Day** celebration held on 11th January 2012 at Winsor Palace, Janpath, New Delhi.
- **“Knights of Sovereign order of Princes and Knights of Antarctiland” of the Sovereign Order of Knights of Antarctiland**, was awarded to Dr.M.Ponnaivaikko by His Highness Sir Giovanni Caporaso Gottlieb, elected 42nd Grandmaster of Sovereign Order of Knights of Antarctiland State, USA, in the Nobility Awarding ceremony held on the 7th November 2009. With this Honor he is entitled to use the title **Sir** affixed to his name, **His Excellency Sir M.Ponnaivaikko**.
- **Certificate of Honour**, awarded by The International Council of CCLP Worldwide, Brazil, in recognition of his valuable contributions to the field of higher education in India, on 6th November 2009.
- **Certificate of Appreciation** awarded by IEEE Inc. USA to Dr.Murugesan Ponnaivaikko, for his Notable Services and Contributions towards the Advancement IEEE and the Engineering Professions, as Chair, IEEE Madras Section, 2006-2007.
- **“Lifetime Achievement Award”**, presented by the International Association of Educators for World Peace, Huntsville, Alabama, USA, affiliated to the **United Nations**, at New Delhi on the occasion of the South Asia Virtual Education Submit held on 13-14 March 2008.

- **“Achievement Award”** presented by the **Indian Science Monitor** at the 5th Annual Achievement Award Function during the National Science Day Celebration on 28th February 2008.
- **“Distinguished Service to Tamil Award”** presented by the **California Tamil Academy, USA, in Recognition of his Untiring Efforts to Promote Tamil Education Worldwide** in June 2003.
- Madras Chapter **IEEE / PES Outstanding Engineer Award 2000.**
- Jaya **Distinguished Academician Award 2001.**
- Recipient of the Best Project Award for the development of **"Walking Aid for Blind"** from the Tamilnadu State Council for the Science and Technology, 1994.
- Listed in the Directory of **Prominent individuals in the fields of Science and Engineering** in Marquis Who's Who in America, 1998.
- **Expert Member** in the National Committee on **“National Initiatives on Engineering Experimentation”** constituted by AICTE, New Delhi.
- **Expert Member** in the **UGC Sub-Committee** to propose measures to deal with fall-out on higher education as a result of a recent Constitutional (86th) Amendment, making education as fundamental right for children of 6-14 age group.
- **Special Invitee** to the **National Graduate Student Repository formulation Committee**, constituted by the UGC, Sept. 2004 to Sept. 2005.
- **Special Invitee** to the Committee, constituted by the UGC, for framing Norms and Methods for implementing the proposal on **National Graduate Student Repository Scheme**, July 2006 to October 2006.
- **Member, Academic Council, Anna University**, for a 3 year period from 3rd January 2006 to 2nd January 2009.
- **Chairman, IEEE Madras Section**, 2006, and 2007.
- **Vice-Chairman, Committee on 16-bit Tamil All Character Encoding: TACE-16**, constituted by the Government of Tamil Nadu, March 2007.
- **Chairman, Committee on Tamil in Mobile phones**, constituted by the Government of Tamil Nadu, March 2007.
- **Member, First Class Administrative Reforms Committee**, constituted by the Government of Tamil Nadu, March 2007.
- **Member, Subcommittee** to Examine the encoding of Tamil and other scripts of India, constituted by the **Unicode Consortium, USA.**

Countries Visited

S.No.	Country	Period	Purpose
1	United States of America	Sep-Oct. 1981	Paper Presentation at IEEE Conference in Minneapolis
		Jun-Jul. 2003	To award Certificates to the students of TVU at the California Tamil Academy and to present TVU at FETNA Conference in New Jersey.
		Sep-Oct. 2004	Visit to MIT, Carnegie Mellon University and Stanford University.
		June, July. 2006	Visit to MIT, Stanford University, University of California, Berkley, Brown University, Rode Island, Johnson & Wales University, Rode Island, . Rode Island School of design, Bryant University, Rode Island, Partners Health Services, Boston and Massachusetts General Hospital for Academic collaboration. Also attended and delivered a talk in the Annual conference of the Federation of Tamil Sangams in North America, held in New York during 1 st to 3 rd July.
		March 2007	Deputed by the Govt. of Tamil Nadu to participate in the UTC meeting of the Unicode Consortium in Mountain View, California.
		June 2011	Participated in the TamilNet 2011 at the University of Pencilvania during 17 th to 19 th June. Visited PenState University, Dayton University, University of Georgia during 20 th to 23 rd June and Virginia Common wealth University on 27 th and 28 th June.
2	Canada	Sep. 1981	Visit to Niagara as a tourist.
		June 2006	Visit to Queen's University, Kingston and Waterloo University, Waterloo for academic collaboration. Also attended IIT Alumni meet at Toranto.
3	United Kingdom	Sep. 1981	Visit to London
		Jun-Jul. 1987	Discussion with Westing House
4	France	Jun. 1987	Visit to Paris as a tourist
5	Switzerland	Jun. 1987	Visit to the Country as a tourist
6	Italy (Rome)	Jul. 1987	Visit to Rome as a tourist
7	Malta	Jun. 1987	Visit to the Island as a tourist
8	Libya	Feb 1984 - Sept 1989	Employment initially in an Indo-Libyan joint venture, Tripoli, as Advisor and later at the Higher Institute of Mechanical and Electrical Engg., Hoon, as Visiting Professor.
9	Nepal	Jul. 1982	Discussion with the Energy Ministry of Nepal
10	Sri Lanka	Aug. 1999	To participate in the pre-Conference Meeting of Tamilnet 2000.
		Nov. 2000	Invited by the Sri Lankan Government to participate in the conference on Tamil Computing and Inaugurating Tamil Information Technology, Sri Lanka.

S.No.	Country	Period	Purpose
		Jul. 2002	To participate TVU programmes and to start TVU Study Centres.
11	Japan	Jul. 2000	To Participate in INET 2000, an international Conference on Internet
		March/April 2007	Visited Tokai University and Union of Japanese Scientists and Engineers (JUSE) for academic collaboration.
12	Singapore	Jul. 2000	To Participate and Chair Technical Sessions at Tamil Iniyam 2000, an International Conference on Information Technology in Tamil
13	Malaysia	Aug. 2001	To Participate and Chair Technical Sessions at Tamil Iniyam 2001, an International Conference on Information Technology in Tamil
		March 2007	Attended IEEE R-10 Annual meeting as the Chairman, IEEE Madras Section.
		May 2007	To discuss with the Ministry of Higher Education in connection with starting an off-shore campus of SRM University.
14	South Africa	Feb. 2002	To popularize TVU Programmes and to start TVU Study Centres
15	Mauritius	Feb. 2002	To popularize TVU Programmes and to start TVU Study Centres
16	Thailand	March 2006	To participate in the IEEE R-10 Annual meeting as the Chairman, IEEE Madras Section.
17	Ghana	Feb. 2007	Attended the Graduation Day of the All Nations University College, Ghana as a Guest of Honour.
18	Germany	Feb. 2007	Visited Karlsruhe Technical University for academic collaboration.
19	Dubai	Feb. 2007	Visited to study the feasibility of opening an off-shore campus of SRM University in Dubai.
20	China	May 2007	Visited Ghuangdong Polytechnic Normal University and Huanghe College of Science & Technology for academic collaboration.

Publications

(i)	Books Authored / Edited	:	22
(ii)	Papers published (Total)	:	101
(iii)	Journal Papers	:	47
(vi)	Conference Papers	:	54
(v)	Reports on Projects undertaken:		40
(v)	Endowment Lectures	:	05

Books (Authored / Edited)

- A.1 'Computer Science' a Text Book in **English** for +2 Students, 1996, TamilNadu Text Book Corporation.
- A.2 'Computer Science' a Text Book in **Tamil** for +2 Students, 1996, TamilNadu Text Book Corporation.
- A.3 'Computer Science (Revised)' a Text Book in **English** for +2 Students, 2000, TamilNadu Text Book Corporation.
- A.4 'Computer Science (Revised)' a Text Book in **Tamil** for +2 Students, 2000, TamilNadu Text Book Corporation.
- A.5 'Star Office' in **English** for School Education, 2001, TamilNadu Text Book Corporation.
- A.6 'Star Office' in **Tamil** for School Education, 2001, TamilNadu Text Book Corporation.
- A.7 'HTML – an Introduction in **Tamil**' for School Education, 2001, TamilNadu Text Book Corporation.
- A.8 'Java' in **Tamil** for School Education, 2001, TamilNadu Text Book Corporation.
- A.9 'Visual Basic' in **Tamil** for School Education, 2001, TamilNadu Text Book Corporation.
- A.10 'Computer and Information Technology' in **Tamil** for School Education, 2001, TamilNadu Text Book Corporation.
- A.11 'C-language' in **Tamil** for School Education, 2001, TamilNadu Text Book Corporation.
- A.12 'Computer Science, Vol – I Tools' in **Tamil** for Higher Secondary – Second year. 2006, TamilNadu Text Book Corporation.
- A.13 'Computer Science, Vol – I Tools' in **English** for Higher Secondary – Second year. 2006, TamilNadu Text Book Corporation.
- A.14 'Ariviyal Poonga', a quarterly **Tamil Technical Magazine**, publishing as **Chief Editor**, Mayilai ThiruvalLuvar Thamizh Sangam, from October 2005.
- A.15 'INaiya Thamizh', a book in **Tamil**, published by All India Tamil Science Society, Thanjavur, 2003.
- A.16 'KaNipoRiyiyal (Babaj mudhal Bilgate varai)', a Book being published by the Thamizh valaRchikkazhagam, Chennai.
- A. 17 'INaiyathamizh varalAru ', Published by Bharathidasan University, 2010.
- A.18 'Ponnaivaikko kavithaikal', Published by Bharathidasan University, 2010.

A.19 'Mella Thamizh yini vellum', Published by Bharathidasan University, 2010.

A.20 'Ayurveda for Diabetes mellitus'. Edited by Dr.Aruna Agrawal, Prof.M.Ponnaivaikko and Prof. G.P.Dubey and published by SRM University, 2011.

A.21 'thuNai vEndar sollum seyalum' Published by Sekar Pathippagam, 2011.

A.22 'Reference Manual for Teachers', Published by SRM University, 2011.

Languages known :

- a. **Tamil** : Read, Write and Speak (proficient)
- b. **Hindi** : Read, Write and Speak (proficient)
- c. **English** : Read, Write and Speak (proficient)
- d. **French** : Read, Write and Speak (a little)
- e. **Malayalam** : Can speak and understand
- f. **Telugu** : Can speak and understand
- g. **Kannada** : Can speak and understand
- h. **Arabic** : Can speak and understand

M. PONNAVAIKKO