

## RESUME

### ***R. Hema***

Associate Professor

Madras School of Economics

Chennai – 600 025

Ph: (Off): 91-44-2235 2157, 2230 0304/0307

E-mail: [hema@mse.ac.in](mailto:hema@mse.ac.in); [ringnihem@gmail.com](mailto:ringnihem@gmail.com)

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### PERSONAL BACKGROUND

**Date of Birth:** December 27, 1958

**Citizenship:** Indian

**Other languages known:** Good knowledge of English, Tamil (mother tongue) and working knowledge of Malayalam, Hindi and Gujarati

**Diversions:** Traveling, Reading, Music

### EDUCATIONAL BACKGROUND

- Ph. D. 1989**      Department of Econometrics, University of Madras, India  
Dissertation topic: “An Optimum Rate Structure for Electricity in Tamil Nadu”  
Adviser: Prof. U. Sankar
- M. A. 1981**      Department of Econometrics, University of Madras, India  
Major: Economics/Econometrics
- B. Sc. 1979**      Stella Maris College, University of Madras, India  
Major: Mathematics  
Ancillaries: Statistics and Physics

## PROFESSIONAL EXPERIENCE

- Jan 2001 onwards** Associate Professor, Madras School of Economics, Chennai, India  
*Teach Microeconomics, Industrial Economics*
- Nov 2000 to Dec 2000** Visiting Faculty, Madras School of Economics, Chennai, India  
*Taught Energy Economics*
- Jan 1998 to Oct 2000** Adjunct Faculty, Department of Economics, DePaul University, Chicago, U.S.A.  
*Taught Principles of Microeconomics, Principles of Macroeconomics, Money and Banking to Undergraduate students.*
- Nov 1994 to Dec 1997** Research Fellow, Madras Institute of Development Studies, (MIDS) Chennai, India  
*(Equivalent to Associate Professor at the University)*
- Aug 1989 to Nov 1994** Research Associate, Madras Institute of Development Studies, Chennai, India  
*(Equivalent to Assistant Professor at the University)*
- Aug 1991 to Aug 1992** Ford Foundation Post-Doctoral Fellow, Department of Economics, University of California, Berkeley, U.S.A.  
*Was affiliated to the Universitywide Energy Research Group and was associated with a project on international comparison of electricity regulation. (Was on study leave from MIDS)*
- Jan 1988 to Aug 1989** Research Associate, Tata Energy Research Institute, (TERI) New Delhi, India
- July 1982 to Dec 1985** Junior Research Fellow, Department of Econometrics, University of Madras, India
- Mar 1982 to June 1982** Guest lecturer (Econometrics), Stella Maris College, Chennai, India
- Jan 1982 to June 1982** Teaching Assistant, Department of Humanities, Indian Institute of Technology, Chennai, India

## RESEARCH PUBLICATIONS

### **BOOKS:**

1. **Topics in Applied Economics: Tools, Issues and Institutions**, (co-editor with G. Mythili), Academic Foundation, New Delhi, Jan 2005

### **REPORTS:**

1. 'Betterment Levy for (IT) Information Technology Corridor', Sponsored by the Chennai Metropolitan Development Authority, August 2008.
2. 'Greening Incentives for Electricity', Sponsored by the India Canada Environment Facility, New Delhi, March 2008. (with K.S. Kavikumar)
3. 'Tamil Nadu State Development Report', Madras School of Economics, Sponsored by the Union Planning Commission, New Delhi. (Contributed the chapters on the power sector and industry), October 2004.
4. 'Pondicherry – Vision 2020', Madras School of Economics, February 2003. Sponsored by the Union Planning Commission, New Delhi. (Contributed the chapter on the power sector).
5. 'Social Exclusion from a Welfare Rights Perspective in India', International Institute for Labour Studies, United Nations Development Programme Research Series 106, 1996. (with Paul P Appasamy, S.Guhan, Manabi Majumdar and A. Vaidyanathan)

### **PAPERS:**

1. 'Empowering the Indian Power Sector: A Road Map', in the edited volume Topics in Applied Economics: Tools, Issues and Institutions, (eds) G. Mythili and R. Hema, Academic Foundation, New Delhi, 2005
2. 'Regulated Public Trust Utilities', Review of Development & Change vol.1, no.2, July-Dec 1996
3. 'Economic Efficiency and Social Goals in Electricity Supply in Tamil Nadu', (with U.Sankar), in the edited volume Themes in Development Economics: Essays in honour of Malcolm S. Adiseshiah (ed) S.Subramanian. Oxford University Press, New Delhi, 1992
4. 'Pricing Options for the Peak Load Problem in Indian Electric Utilities', (with Bhaskar Natarajan), in the edited volume Innovations in the Indian Power Sector: Technologies and Approaches (eds.) Leena Srivastava and R.K.Pachauri. Tata McGraw Hill Publishing Co. Ltd., New Delhi, 1991
5. 'An Input-Output Framework for the Manufacturing Sector in Tamil Nadu', MIDS Bulletin, December 1989

## RESEARCH CONTRIBUTIONS

1. Was part of the MIDS research team that carried out an evaluation of the Tamil Nadu Indo-Swiss Sericulture Project, for the Department of Sericulture. Sponsored by the Swiss Development Corporation. Was involved mainly with the survey and investigation of the cooperatives. (1990)
2. Contributed a section on the groundwater potential in Tamil Nadu and its implications for policy on energising agricultural pumps in the state, to the Report of the Working Group on Power – Tamil Nadu, submitted to the State Planning Commission. (1989)
3. Was part of the TERI research team that undertook a study to review the tariffs and load management options for the Maharashtra State Electricity Board. Sponsored by the World Bank. Prepared the Inception Report, spelling out the scope and methodology of the study and made a presentation to MSEB officials on the rationale for the methodology. Was involved in designing the questionnaires and selecting appropriate samples in different consumer groups for a survey meant to study their electric load patterns. (1989)
4. Carried out a survey of large industries in Haryana to analyse their daily load patterns, load compositions and the role of captive generation, in order to ascertain the feasibility of introducing time-differentiated pricing for load management. Industrial Development Bank of India sponsored the study. (1989)

## SEMINARS / CONFERENCES / PRESENTATIONS

1. *“Energy Institutions for Rural Energy Security and Sustainability”*, at the UK India Sustainable Energy Network Workshop, University of Nottingham, September 2009
2. *“Environment and Rural Energy Security in India – Challenges and Opportunities”*, at the Seminar on ‘India and Russia: Problems in Ensuring Energy Security’, Institute of Public Enterprise, Hyderabad, February 25-26, 2009
3. *“Regulatory Mechanisms to Promote Electricity from Renewable Sources in India”* at the Renewable Energy Asia 2008 International Conference, Indian Institute of Technology, New Delhi, December 2008 (with K.S. Kavikumar and Bhaskar Natarajan)
4. *“Electricity for Irrigation in India – Current Subsidies, Implications for Renewable Options and the Way Forward”*, at the Conference on ‘Nature, Knowledge and Power’, Uppsala University, Sweden, August 15-17, 2008
5. Discussant at the National Consultation Meet on Regulation and Poor in the electricity and water sector, organized by Prayas and the Centre for the Study of Law and Governance, JNU at New Delhi on July 12 & 13, 2007.
6. *“Status of the Tamil Nadu Power Sector”*, at the Workshop on “Power Sector Reforms and Regulation in India” organized for Civil Society Institutions by Prayas, at Pune, Mar 22 , 23, 2007
7. *“Renewable Energy: Costing and Policy Issues”* at the Workshop on Renewable Energy for Hilly Areas, June 06 – 08, 2006, Leh, India, organized by India-Canada Environment Facility.

8. *“Tamil Nadu Electricity Board – the Road Ahead”* at a Special Session on “Tamil Nadu Economy – Some Perspectives” at the 38<sup>th</sup> Annual Conference of the Indian Econometric Society, Chennai, Jan 16, 2002
9. *“The Electricity Sector in India – Features, Issues and Implications”*, at the Department of Economics, DePaul University, Chicago, Sept.1997
10. *“An Alternative Institutional Framework for Electricity Supply in India”*, - at the IRIS-India Seminar Series, Center for Institutional Reform and the Informal Sector, University of Maryland, College Park, June 1996
11. *“An Alternative Institutional Framework and Regulatory Structure for Electricity Supply in India”*, - at the All-India Distinguished Speakers Conference on ‘A New Institutional Approach to Development: Achieving India’s full Potential’ jointly organised by the Center for Institutional Reform and the Informal Sector and the Madras Institute of Development Studies, Jan 1996
12. *“Exclusion from Access to Health Care – an Institutional Perspective”*, - at the Inter-Disciplinary Research Methodology workshop on ‘Social Exclusion and Human Resources Development’, organised by the ICSSR and Madras Institute of Development Studies at the Mahatma Gandhi University, Kottayam, Aug 1995
13. *“Issues relating to Regulation of Electricity Supply in India”*, - at the Ford Foundation Scholars’ meet at the National Institute of Public Finance Policy, New Delhi, May 1993
14. *“Mechanisms to Promote Efficient Use of Electricity”*, - at the Annual Energy Conference of the Energy and Fuel Users Association, Jan 1993
15. *“Electricity Pricing and Issues relating to Electricity Regulation”*, - at the Department of Economics, Annamalai University, Oct 1992
16. *“Regulation of Electricity in India – Features and Implications”*, - at the Universitywide Energy Research Group Seminar Series, University of California, Berkeley, Nov 1991
17. *“Time-of-Day Pricing and Load Management: the Indian Experience”*, (with Bhaskar Natarajan) – for the Sixth National Power Systems Conference, Indira Gandhi Institute for Development Research, Bombay, June 1990