



FORUM FOR GLOBAL KNOWLEDGE SHARING

(Knowledge Forum)

<http://FGKS.in>

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Report of the Secretary

(November 10, 2010)

I welcome you all to the general Body Meeting of the Forum for Global Knowledge Sharing (Knowledge Forum). Since April 2009 we have made considerable progress in publications. We have added about 41 new research papers in our “*Research Papers*” folder. The international journal *Science, Technology and Society* is bringing out a special issue of the journal on “*Innovations and Enterprise Development*” consisting of select papers presented at our conference hosted by the Madras School of Economics on that theme. This year 21 scholars became members of the Forum.

Conferences Organised Since April 2009

Currently we are collaborating with IASSI for organising conferences. IASSI has been providing most of the funds and other assistance. Knowledge Forum contribution has been mainly confined to the academic part of the conference. During March 2010 we organised a conference jointly with IASSI hosted by the Madras School of Economics. The present conference hosted by IIT Bombay is also mainly funded by IASSI. During the 2009 General Body and Governing Council meetings it was suggested that we should have special sessions to encourage Ph.D. scholars. The

Madras School of Economics three-day conference devoted the afternoons to presentations by Ph.D. scholars. In the current conference also one session is devoted to the works of Ph.D. scholars.

We have been negotiating with TIFAC for a formal institutional arrangement for holding our annual conferences. In principle they have agreed to fund “Knowledge Forum – TIFAC International Conference” during October/November 2011. They want the theme of the conference to be “Agglomeration, Technology Networks and Clusters”. They are likely to grant us Rs.10 lakhs for the conference. They are hopeful of this arrangement continuing for future conferences also. In case this materialised it will ease our financial constraints and we would be in a position to fund more scholars. This will also enable us to hold conferences in other cities.

Science, Technology and Economy: Emerging and Developed Countries.

(Tata Institute of Social Sciences, Mumbai, October 9-10, 2009)

The fourth annual conference was hosted by the Tata Institute of Social Sciences, Mumbai. The theme of the conference was *Science, Technology and Economy: Emerging and Developed Countries*. About 45 persons registered and attended the conference. During the Inaugural Session the Volume “*Indian and Chinese Enterprises – Global Trade, Technology and Investment Regimes*”, edited by N S Siddharthan and K Narayanan, containing papers presented at the 2007 annual conference was released. The volume is published by Routledge simultaneously from New Delhi and London. The conference had four technical sessions and two panel discussions.

Under the first panel on the theme “*Science, Technology and Economy*” the following persons made presentations:

1. Françoise Pardos, Pardos Marketing, France
2. Y S Rajan, Confederation of Indian Industries (CII) and Former VC Punjab Technical University and Vice President Knowledge Forum
3. Ashok Jain, Former Director, NISTAD

Daniel van den Bulcke of the University of Antwerp chaired the session

Under the second panel on the theme “*Science, Technology and Employment*” the following persons made presentations:

1. Alakh Sharma, Director, IHD and Treasurer Knowledge Forum
2. *Bhartendu Seth, IIT B*
3. Bino Paul, TISS

Professor S R Hashim, President of the Forum and Director ISID chaired the session.

The Session on *Multinational Enterprises* was chaired by Stanley Nollen of Georgetown University, Washington DC, and K Narayanan of IIT B was the discussant. The papers were authored by:

1. V.N.Balasubramanyam, Lancaster University, and Nicolas Forsans, University of Leeds
2. Filip De Beule, Lessius University College, Antwerp, and Ilke Van Beveren, Catholic University of Leuven, Belgium.
3. Chiara Franco, University of Bologna, and Subash Sasidharan IIT M.

The Session on *Information and Communications Technology* was chaired by Y S Rajan, Vice-President of the Forum and Principal Advisor CII, and the discussant was T Jayaraman of TISS.

Papers were presented by

1. Aradhna Aggarwal, Delhi University
2. Stanley Nollen, Georgetown University
3. K. Narayanan (IIT B)

The Session on *Economics*, was Chaired by K L Krishna, former Director, Delhi School of Economics and Arindam Banik, IMI Delhi, was the discussant.

Papers were presented by

1. K. Lal, UNU-MERIT and Shampa paul, IEG
2. Saon Ray, TERI, Delhi
3. Bino Paul and M Krishna, TISS

The Session on *Science and Technology* was Chaired by P V Indiresan, Former Director, IIT M and U Sankar of Madras School of Economics acted as Discussant.

The following persons presented papers

1. Vinish Kathuria, and R. Mukundan, IIT B
2. Kannan Moudgalya. IIT B
3. Milind V Rane, IIT B
4. T. Jayaraman, TISS

Conference on “*Frontier Issues in Technology, Development and Environment*”

(Annual Conference of IASSI hosted by MSE in collaboration with Knowledge Forum)

(Venue: Madras School of Economics, March 19 -21, 2010)

The Madras School of Economics (MSE) hosted the three day annual conference of IASSI in collaboration with the Knowledge Forum on “**The Frontier Issues in Technology, Development and Environment**”, March 19-21, 2010. In all 28 research papers were presented and discussed. The conference had two components.

1. Established scholars presented papers on frontier issues during the pre-lunch sessions.
2. The post-lunch sessions were devoted to Ph.D. workshop where students presented important chapters from their forthcoming Ph.D. dissertations and received comments. This gave an opportunity for several young scholars to participate and present their research findings to a larger audience.

About 60 persons registered and participated in the conference. In addition several others also attended without formal registration.

The participants came from the following institutions:

The Netherlands: United Nations University, Maastricht.

Australia: Australian national University.

Delhi: Delhi School of Economics, Institute of Economic Growth, Jawaharlal Nehru University, Technology Information Forecasting and Assessment Council (TIFAC), South Asian University, IASSI, and Institute for Studies in Industrial Development (ISID), Development Tracks RTC.

Gujarat: Sardar Patel Institute of Economic & Social Research, Gujarat Institute of Development Research, Ahmedabad; IRMA Anand;

Kerala: Centre for Development Studies, Trivandrum;

Andhra Pradesh: University of Hyderabad, Centre for Economics and Social Studies, Hyderabad;

Maharashtra: Indian institute of Technology Bombay, Mumbai;

Karnataka: Indian Space Research Organisation and Christ University, Bangalore.

Utter Pradesh: Babasaheb Bhimrao Ambedkar University, Lucknow.

West Bengal: Rabindra Bharati University.

Orissa: Ravenshaw University Cuttack.

Bihar: National Institute for Research on Unorganized Sector, Patna.

Tamil Nadu: Indian Institute of Technology Madras and Madras School of Economics, Chennai; Christian Medical College, Vellore; Guruvayurappan Institute of Management, Coimbatore;

March 19, 2010:

In the opening session Professor D K Srivastava, director, MSE welcomed the participants and gave an account of the genesis of the conference and its format. Professor N S Siddharthan, Hon. Professor MSE and Hon. Director Knowledge Forum introduced the conference theme and the papers. Professor S R Hashim, Chairman, IASSI and President, Knowledge Forum chaired the session and introduced the activities of IASSI. This was followed by Tarlok Singh Memorial Lecture delivered by Professor G K Chadha, former vice-chancellor JNU.

The Theme of this year Tarlok Singh Memorial Lecture was, “Envisioning India as a Knowledge Economy: Some Views on Missing Links”. Professor Chadha discussed the problems of skill shortage in India due to lack of financial allocations to education – primary, secondary and higher education. He discussed each one of the components in detail and analysed the demand – supply gap. Towards the end he advocated policies to enable India to participate effectively in the global knowledge economy.

This was followed by Technical Sessions. In all the Technical Sessions, the Chair also acted as the Discussant. Paper presenters were given about 20 minutes to present their respective papers and after the presentation of all the papers the Chair gave comments and suggestions and it was followed by floor discussion.

The first technical session of the conference was on **Innovations, Knowledge Sourcing and Development**. It was chaired by Professor N S Siddharthan. The first session, unlike the rest of the sessions, concentrated on international dimensions. It was felt that an emphasis on international dimensions during the first session would help in viewing the Indian issues in a proper perspective. In all four papers were presented in the session:

1. Jun Hou and Pierre Mohnen (UNU, Maastricht), “Complementarity between Internal Knowledge Creation and External Knowledge Sourcing in Developing and Least Developed Countries”.
2. K Lal (UNU) and Shampa Paul (IEG), “Non-Technological Innovations and Performance”.

3. Jaya Prakash Pradhan (Sardar Patel Institute of Economic & Social Research, Ahmedabad), “R&D Strategy of Small Firms in India: Trends and Determinants”.
4. Son Ngoc Chu and Kaliappa Kalirajan (The Australian National University), “Impact of Trade Liberalization on Technical Efficiency of Vietnamese Manufacturing Firms”.

They focussed on important issues that affect most of the developing countries in the current era of globalisation and in facing global competition.

- In order to modernise to become globally competitive, should a firm invest in in-house R&D or import technology? In other words should an enterprise make technology or buy technology? Or should it be make and buy rather than make or buy?
- What kind of enterprises benefited by trade liberalisation and what kind of firms became victims?
- What should be the R&D strategy of small and medium firms? Should they go in for collaborative R&D with other firms, science labs and universities?
- What is the role of non-technology strategies in making the small and medium firms competitive?

The first post lunch session of the Ph.D. workshop was on **Technology**. The session was chaired by Biswanath Goldar of IEG, Delhi, and the following four papers were presented:

1. Joseph Kalassery (IRMA Anand), “Technology-Society Interactions in a Matrix of Power”.
2. Bibhunandini Das (CDS Trivandrum), “An Empirical Analysis on Diffusion of Information Communication Technology across Indian States and its Determinants”.
3. Saraswathy Beena (CDS, Trivandrum), “Production Efficiency of Firms under Mergers and Acquisitions: The Indian Experience”.
4. S.Padmavathy. (Guruvayurappan Institute of Management, Coimbatore), “Measurement of Productivity Growth: A Parametric Approach”.

The presentations dealt with four under-researched areas.

- While there are several studies on technology, very few existed on the technology – society interaction matrix. The first paper tried to bridge this gap.
- The importance of information and communication technology is now well recognised. However, its diffusion has not been uniform all over the country. Its diffusion has been

low in some states. The second paper dealt with the differential diffusion of ICT between different States.

- Globalisation has ushered in a spate of mergers and acquisitions. However, its impact on production efficiency has not been analysed. The third paper covered this aspect of mergers and acquisitions
- The fourth paper dealt with the impact of liberalisation on productivity growth.

The second post-lunch Ph.D. workshop session was on **Development** and it was chaired by Professor K Kalirajan of the Australian National University. The following three papers were presented:

1. Uma Sankaran, Vinoj Abraham, and K J Joseph (CDS Trivandrum), “Impact of Trade Liberalisation on Employment: The Experience of India’s Manufacturing Industries”.
2. Braja Swain (CDS Trivandrum), “Productivity and Farmer’s Efficiency under Contract Farming: A Case Study of Rice Seed Cultivation in Southern India”.
3. Asis Senapati and Kirtti Ranjan Paltasingh (University of Hyderabad), “Trade Policy Orientation and Productivity Growth of Manufacturing Sector: Comparative Study of Three States”.

- Most papers on the impact of trade liberalisation concentrate on productivity, exports and growth. Studies, by and large, have been neglecting the impact of liberalisation on employment. The first paper analysed this important but neglected aspect.
- In recent years contract farming has emerged important. The second paper examined the impact of contract farming on productivity and farmers efficiency.
- There have been substantial interstate variations on the impact of liberalisation especially with regard to productivity. The third paper presented a comparative picture of three states.

Soon after this session the delegates were taken to a beach resort for conference dinner. The dinner was served on the shores of the Bay of Bengal.

March 20, 2010

The second day started with the conference session on **Technology and Development** and it was chaired by Professor U Sankar of MSE. The following three papers were listed under this session:

1. Vinish Kathuria (IIT B) and Rajesh Raj (IIT B), “Manufacturing an Engine of Growth in India - Analysis in the Post-nineties”.

2. Bishwanath Goldar (IEG Delhi), “Energy Intensity of Indian Manufacturing Firms: Effect of Energy Prices, Technology and Other Firm Characteristics”.
3. Rashmi Banga (UNCTAD) and Dinesh Kumar (UNCTAD), “India’s Exports of Software Services: Role of External Demand and Productivity”.

However, Dr Rashmi Banga could not make it as she missed her connecting flight from Geneva. The session dealt with two important aspects of technology - development interface.

- By now it is well recognised that the service sector in India has been growing much faster than the other two sectors. Some scholars interpreted this phenomenon to mean that the Indian growth is being led by the service sector. Kathuria’s paper disputed this and showed that even in the Indian case the growth is led by the manufacturing sector and to sustain a high growth rate India cannot ignore the manufacturing sector. The manufacturing sector’s growth is mainly led by technology and innovations.
- India has committed itself to a decline in the energy intensity of its manufacturing. In this context it is important to identify and analyse the determinants of energy intensity and in particular, technology and firm level characteristics in addition to energy pricing. The paper by Golder examined these aspects.

The next session was devoted to **Technology** and Professor Y S Rajan, Dr Vikram Sarabhai Distinguished Professor, ISRO, Chaired and conducted the proceedings. Three papers on three different aspects of technology were presented.

1. Arijit Mukherjee (University of Nottingham) and Uday Bhanu Sinha (DSE), “Patent Protection and Southern Innovation: A Strategic Analysis”.
 2. Sunil Mani (CDS, Trivandrum), “The Flight from Defence to Civilian Space: Evolution of the Bangalore Aerospace Cluster”.
 3. Nirmala Kaushik, Soumitra Biswas and P R Basak (TIFAC), “New Generation Biofuels – Technology & Economic Perspectives”.
- The first paper was a theoretical study. Using game theory methodology, it examined the consequences of differential levels of patent protection (from high to low protection levels) for both developed and developing countries.
 - The second paper was on an evaluation of India’s space and aeronautic programmes. It also highlighted the role of agglomeration effects on high tech industries.
 - The last paper was a TIFAC case study that discussed the technological and economic viability of bio-fuels.

The post lunch Ph.D. workshop started with a session on **Environment**, chaired by Professor K R Shanmugam of MSE. The following three papers were presented:

1. Nivedita Dutta and K Narayanan (IIT B), "Impact of Environmental Regulation on Technical Efficiency: A Study of Chemical Industry in and around Mumbai".
2. Santosh Kumar Sahu and K Narayanan (IIT B), "Decomposition of Energy Consumption in Indian Manufacturing".
3. Rahul Banerjee, CEPT University of Ahmedabad under the guidance of Dr Amita Shah of Gujarat Institute of Development Research, "Water Governance in the Man River Basin in Madhya Pradesh".

The three papers dealt with three different aspects of environment - development interface.

- Several studies have dealt with the impact of environmental regulations on profits and competitiveness. However, there are not many works on the impact of environmental regulations on technical efficiency. The first paper of the session attempted to bridge this gap.
- For the environmental regulations to be effective it is important to discuss the decomposition of energy consumption in manufacturing. The second paper analysed this vital aspect.
- In the years to come water shortage and crisis is likely to dominate the Indian scene. In this context water governance assumes importance. The third paper presents a detailed case study of water governance in the Man river basin in Mahya Pradesh.

After the session delegates visited some of the important historical places in Chennai.

March 21, 2010

The last day of the conference started with a session on **Environment** and it was chaired by Professor Shanmugam of MSE. The following three papers were presented:

1. Unmesh Patnaik and K Narayanan IIT B, "Vulnerability and Coping to Disasters: A Study of Household Behaviour in Flood Prone Region of India".
2. Neela Mukherjee (Development Tracks RTC) and Madhumita Parihari, "Estimated Impacts of Armed Conflict on Local Livelihoods of Forest-based Communities in the Short Run: A Micro-Level Analysis".
3. K S Kavi Kumar and Ishwarya Balasubramanian (MSE), "Climate Variability and Agricultural Productivity: Case Study of Rice Yields in Northern India".

The three papers in this session mainly dealt with disasters (both human made and nature made) and in particular how people cope with disasters.

- The first papers mainly dealt with vulnerability and coping with disasters due to floods. Large parts of the Indo-Gangetic Plane experience floods during the monsoon months resulting in untold suffering of households. The paper presented an in-depth study of the phenomenon.
- The second paper dealt with another disaster that is ignored by scholars, namely, armed conflicts. This paper is one of the few if not the only study of its kind to discuss this important issue in detail.
- The third paper examined the impact of climate variability of agricultural productivity.

The next session was on **Environment – Development Interface**. Professor Kavi Kumar of MSE Chaired the session. The following three papers were presented:

1. N M P Verma and V Kumar (Babasaheb Bhimrao Ambedkar University, Lucknow), “Environment of Land Diversion, Displacement and Rehabilitation: A Study of Indian SEZs”.
2. G Ananda Vadivelu (IEG) and Shailly Kedia (TERI), “Water Governance in a Changing Climate - Challenges for New Delhi”.
3. D K Srivastava and C Bhujanga Rao (MSE), “Reforming Indirect Taxes in India: Role of Environmental Taxes”.

They dealt with three different aspects of the interface that have been drawing the attention of policy makers and the general public.

- Land acquisition for the Special Economic Zones has emerged as a politically sensitive issue resulting in violent agitations against land acquisition for industrial purposes. The first paper dealt with this controversial issue.
- Water governance in urban areas and the falling water tables is also a politically sensitive issue. The second paper presented a case study of the national capital.
- Given the international pressure on environmental regulations, the strategies to be adopted to implement environmental norms assume importance. The third paper dealt with an important tool to tackle the problem, namely, the role of environmental taxes.

The post lunch technical session was devoted to **Health Economics**. Professor Brijesh C Purohit of MSE chaired the session. The following papers were presented:

1. Swapnamoyee Palit (Ravenshaw University Cuttack), “Health, Technology and Development”.

2. Sachita Nanda Sa and G Sridevi (University of Hyderabad), "Access to Basic Health Care Services by Rural SCs and STs: A Case Study of Two Villages of Balangir District of Orissa".
3. Suparna Pal (CDS, Trivandrum), "Issues in Measuring GDP of Health Care Service in India in the Standard National Accounts Framework".
 - Health, technology and development interface is a newly emerging area and does not have a standard analytical frame work to analyse the interface. The first paper attempted to develop an analytical framework and used the Orissa scene to discuss the issues.
 - Access to basic health care by rural SCs and STs is also a neglected area of research. This paper also examined this issue in the context of two Orissa villages.
 - Valuation and measurement of health care services in the standard national accounts framework is problematic and beset with several problems. The third paper tried to tackle some of them.

In the concluding session, Professor Yogesh Atal gave an interesting talk on the relevance of the theme of the conference and the contribution of the sessions in understanding the interface between technology, development and environment.

I am happy that our General Body is meeting now during the fifth Annual Conference on ***Science Technology and Economy: Human Capital and Development.***

We have been fortunate to have a core group of scholars who have been sharing their research findings in our annual conferences. We need to consolidate this core group and also expand this group. During the last two conferences we have succeeded in having more participation from technologists. We need more participation from scientists and technologists to make our forum an interface between technology and economics. As I mentioned in my last report, we have been enjoying good participation in our conferences from European and US scholars. However, during this conference due to funding problems we were not able to fund many overseas scholars. We need to maintain and strengthen our European and American links. Since last year the Indian government funds can no longer be used to fund the travel of

foreigners. We need to explore European and US funding agencies for funding the travel of European participants.

Research Papers

Since April 2009 we have added about 40 papers to our *Research Papers* folder of the website.

Papers posted in our *Research Papers* folder are covered by google search. They are also covered by google citation index. The papers posted in our folder have already received several citations. Furthermore, eSocialSciences <http://www.esocialsciences.com> has also been giving wide publicity to our papers and programmes. They have also given a link to our website. This year they have been very kind in placing the seminar papers in their website. Our sincere thanks to eSocialSciences.

Financial Position and Audited Statement

As you can see from our audited statement, we have invested the entire membership fee (including corporate members) in fixed deposits. So far our expenditures have been very modest. We were able to successfully conduct our annual conferences mainly because we were lucky in having excellent hosts who have been raising resources and conducting our conferences. During this year (2010) both the conferences have been held jointly with IASSI and they have been the main contributor of funds. We need to build an endowment to meet our modest expenditures. For this we need to obtain institutional memberships and donations. We have specified Rs.1,00,000 for institutional membership for Indian institutions and \$10,000 for institutions from developed economies. In a very short span we have established our credentials in terms of research publications, conferences and membership. We need to use this to build a good endowment so

that for future conferences we are in a position to rely at least partly on our own resources. I appeal to the members of the General Body to help us in this fund mobilising endeavour.

Website of the Forum

TIFAC has been hosting the website since the inception of the Forum. Last month TIFAC changed their web provider to NIC. I am told that NIC insists on TIFAC staff uploading the material in our website. Till now members of the Forum have been submitting their research papers through the website and after refereeing I have been placing them in the Research Papers folder. I have also been visiting the website regularly and have been updating it. If in future this has to be done by TIFAC staff this could create problems. Ours is a web based forum and it is important to keep the website up to date. TIFAC suggested to us that we could retain our website through the private web provider *Iris* and has been kind enough to negotiate with them on our behalf. At present our website has been restored WWW.FGKS.in .

List of Research Papers since April 2009

Author *	Title	Date Posted
Vinish	<u>Human Capital and Manufacturing Productivity Growth in India</u>	15-October-10
K Narayanan	<u>Labour and Energy Intensity: A Study of Pulp and Paper Industries in India</u>	12-October-10
Bino Paul	<u>Does Change in Science and Technology Explain Dynamics in Human Capital</u>	8-October-10
V N Balasubramaniam	<u>Human Capital and Development: A Tale of Two Cities New Agriculture Technology, Skill Formation, Food Security And Poverty Reduction In Rural Asia: A Comparison of Three Projects from India, China and Bangladesh</u>	8-October-10
Neela Mukherjee		2-October-10
TIFAC	<u>Government mediated program on intensifying industry- academia linkages for human resource development; Experiences of an innovative model from TIFAC</u>	24-Sep-10
Goldar	<u>Informalization of Industrial Labour in India: Are labour market rigidities and growing import competition to blame?</u>	24-Sep-10

Vinish	<u>Link between Exporting and Productivity: Firm Level analysis for Indian Chemical Industry</u>	11-SEP-10
Filip De Beule	<u>Locational determinants of acquisitions by multinationals from China and India: The role of human capital</u>	08-SEP-10
Rashmi Banga	<u>Impact of Remittances on Poverty in Developing countries</u>	30-AUG-10
Savita Bhat	<u>Human Capital, Labour Productivity and Employment</u>	30-AUG-10
Uday Bhanu Sinha	<u>Understanding NREGA: A Simple Theory and Some Facts</u>	30-AUG-10
ARUP MITRA	<u>Skills, Informality, and Development</u>	13-AUG-10
K. Lal	<u>Measurement of the Impact of Relocation on Employment</u>	13-AUG-10
PRADEEP KUMAR KESHARI	<u>Comparative Performance of Foreign Affiliates of Multinational Enterprises and Domestic Firms in the Indian Non-Electrical Machinery Industry:</u>	18-JUN-10
K. Narayanan	<u>Vulnerability and Coping to Disasters: A Study of Household Behaviour in Flood Prone Region of India</u>	14-MAR-10
Dr Sunil Mani	<u>The Flight from Defence to Civilian Space: Evolution of the Bangalore Aerospace Cluster</u>	14-MAR-10
Bishwanath Goldar	<u>Energy Intensity of Indian Manufacturing Firms: Effect of Energy Prices, Technology and Other Firm Characteristics</u>	14-MAR-10
Kaliappa Kalirajan	<u>Impact of Trade Liberalization on Technical Efficiency of Vietnamese Manufacturing Firms</u>	14-MAR-10
Jaya Prakash Pradhan	<u>R&D Strategy of Small Firms in India: Trends and Determinants</u>	14-MAR-10
K. Lal	<u>Non-Technological Innovations and Performance</u>	18-FEB-10
Uday Bhanu Sinha	<u>Patent protection and Southern innovation: a strategic analysis</u>	18-FEB-10
Vinish	<u>Manufacturing an engine of growth in India - Analysis in the post-nineties</u>	18-FEB-10
Rashmi Banga	<u>Indias Exports of Software Services: Role of External Demand and Productivity</u>	18-FEB-10
N. S. Siddharthan	<u>Science, Technology and Economy Overview of the Sessions</u>	12-OCT-09
Kannan Moudgalya	<u>Free and synchronous course delivery at IIT Bombay</u>	12-OCT-09
V.N.balasubramanyam	<u>Science, Technology and Development: The Case of Indias Investments Abroad</u>	12-OCT-09

T. Jayaraman	<u>Does India need a Bayh-Dole type Act? - Misplaced Priorities in STI Policy</u>	12-OCT-09
Prof M V Rane	<u>Green Technologies Related to Refrigeration and Air Conditioning</u>	05-OCT-09
Stanley Nollen	<u>Innovation in Indian and Chinese Software Firms</u>	30-SEP-09
Vinish	<u>Catching-up or falling behind - Role of S&T in growth of emerging economies</u>	29-SEP-09
Subash Sasidharan	<u>MNEs and Export Spillovers: An Analysis of Indian Manufacturing Industries</u>	14-SEP-09
K. Narayanan	<u>SOCIO-ECONOMIC EMPOWERMENT THROUGH ICT</u>	10-SEP-09
Dr. Aradhna Aggarwal	<u>The STPI scheme and Competitiveness of Indias IT industry: Historical Analysis and a Future Outlook</u>	08-SEP-09
Bino Paul	<u>What Factors Make a World Small? A Case of Economics</u>	08-SEP-09
Dr. Aradhna Aggarwal	<u>Evaluating Innovation in Health Care Services: Impact of Yeshasvini Health Insurance Programme on Health Care Utilisation among Women</u>	20-AUG-09
Enrique Saravia	<u>State-owned companies and their use as instruments of scientific and technological policy. The brazilian case</u>	10-AUG-09
K. Lal	<u>Entrepreneurship and Technological Change in Malaysian SMEs</u>	10-AUG-09
Filip De Beule	<u>Multinational ownership and R&D intensity</u>	11-JUL-09
Saon Ray	<u>International technology diffusion and productivity</u>	23-APR-09

* : It refers to the author who has placed the paper in the website.

New Members Since April 2009

1. Vigneswara, IIT Delhi, April 14, 2009
2. Ravinder Rena, PNG University of Technology, May 8, 2009
3. Kiran Zacharia, TIFAC, July 8, 2009
4. Enrique Saravia , Getulio Vargas Foundation, Brazil, Aug 10, 2009
5. Kannan Moudgalya, IIT B, Sep 10, 2009
6. M V Rane, IIT B, Sep 10, 2009
7. Sridhar Iyer, IIT B, Sep 15, 2009
8. T. Jayaraman, TISS, Mumbai, Oct 5, 2009
9. Pradeep Kumar Keshari, IDBI, Oct 16, 2009
10. Krishna, TISS, Mumbai, Oct 19, 2009
11. Bishwanath Goldar, IEG Delhi, Jan 8, 2010
12. Neela Mukherjee, Development Tracks RTC, Delhi, Jan 8, 2010
13. Akhilesh Vikram Singh, Dibrugarh University, Jan 30, 2010

14. Uma Sankaran, CDS Trivandrum (Student), March 23, 2010
15. Vandana Sharma, IIM Lucknow, April 15, 2010
16. Savita Bhat, MSE, Chennai, April 20, 2010
17. K.R.Shanmugam, MSE, Chennai, June 10, 2010
18. Venni V Krishna, JNU Delhi, July 16, 2010
19. Mohnen, UNU-MERIT, The Netherlands, Aug 5, 2010
20. Shishir K. Jha, IIT B, Aug 9, 2010
21. Michael P. Ryan, George Washington University, Washington DC, USA, Aug 13, 2010