

Nistads International Workshop on

**"Emerging trends in science and technology indicators:  
Aspects of collaboration"**

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**20-25 February, 2001**

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**CSIR Science Centre, Gate No.2, Lodi Gardens, Max Muller Marg, New Delhi 110 003  
(Ph: 4603803-05 Fax 4697178)**

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**20 February (Tuesday)**

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1000-1100

**Inaugural session**

Rajesh Kochhar : Welcome  
R.A. Mashelkar : Inauguration  
Hiltrun Kretschmer : Introduction to COLLNET  
Grant Lewison : Keynote speaker  
Rainer Voss : Keynote speaker

11.00-1130

High Tea

1130 - 1330

**Technical Session I: Collaboration Studies - Basic Issues,  
Concepts, Methodologies**

**Chair : Dhruv Raina**

**Khaiser Nikam:** Research Collaboration in the Discipline of  
Anthropology: A Study

**S.Visalakshi:** Status and Implications of Collaboration in  
Hybridoma Research (1993-1999) - A Bibliometric Analysis

**Lidiya Kavunenko and Liliya Boyko:** International Scientific  
Networks as Tool for Scientific Co-operation

**Liang Liming:** The Role of Productive Scientists in Scientific  
Collaboration

**S.L. Sangam:** Collaborative Research in the Field of  
Sociology

**Prabir Ghoshdastidar and Sujit Bhattacharya:**  
Oceanography Research Across the Countries: A Cross-  
National Assessment

1330-1400

Lunch

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## 20 February (Tuesday)

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1430-1600

**Technical Session II: Collaboration Studies - Basic Issues, Concepts, Methodologies (contd..)**

**Chair: Liang Liming**

**Aparna Basu and Grant Lewison:** Collaboration in the Field of Astronomy and Astrophysics in India in the 90's

**Hildrun Kretschmer:** Co-Author Couples Distribution in Journals

**S. Ravi, K.Adhinarayanan and Suresh Kumar :** Growth and Collaboration Trends in Biotechnology Research Literature: A Case Study of India and China, 1981 to 1998

**Bharvi Dutt, Anita Bali and K.C. Garg:** Collaboration in scientometrics as viewed through the journal *sceintometrics*

**K.C. Garg, and P Padhi:** A Study of Collaborations in Indian Laser Science and Technology

**B.M.Gupta, S.M.Dhawan and R. Walke:** Indo-Russia Collaboration in S&T

1600-1630

Tea

**Chair: Ravichandra Rao**

**Frank Havemann:** Research Collaboration and Productivity

**H.P. Sharma and S.K. Sen:** Changing Nature of Collaboration in Superconductivity Research: a Case Study"

**B.K. Pattnaik:** Determinants of Scientific Productivity: A Study Among Indian Academic Scientists

**Workshop Dinner at 1930 hrs**

Venue: CSIR Science Centre, Gate No.2, Lodi Gardens, Max Muller Marg, New Delhi 110 003

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## 21 February (Wednesday)

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- 1000-1100      **Technical Session III: Collaboration in countries regions and fields**  
**Chair: Hildrun Kretschmer**  
**P.S. Nagpaul:** Exploring the Effect of Research Fields on the Pattern of Regional Cooperation in Science  
**Grant Lewison** and: **Ylle Must:** Estonian International Co-operation in Science in the 1990s: New Politics, New Methods  
**N.C. Jain, A Mishra and K Satyanarayana:** Analysis of HIV/AIDS Research - A Need for Global Collaboration
- 1100-1130      Tea
- 1130-1330      **Technical Session IV: Collaboration Aspects: An Introspection From Non-Bibliometric Perspective**  
**Chair: Grant Lewison**  
**Liu Zeyuan:** On Scientometrics - Based Institutional Science Studies  
**Ow Siew Hock:** Trends and Collaboration of Government Sponsored Research in S&T in Malaysia  
**Usha Menon:** Mode 2 and Situated Collaboration
- 1330-1430      Lunch
- 1430-1530      **Technical Session V: Collaboration Aspects: An Introspection From Non-Bibliometric Perspective (contd..)**  
**Chair: B.K. Pattnaik**  
**Lars Fuglsang:** European Co-operation in the production of television news  
**Dinesh Abrol** and **L.Pulamte:** Regional exclusion from collaboration for innovation: Underdevelopment of technological infrastructure in northeast India  
**Albert Araoz** ( to be presented by **Prodosh Nath**): Institutional networks for scientific and technological cooperation
- 1530-1600      Tea

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## 21 February (Wednesday)

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1600-1730

### Poster Session

**Nirmal Haritash, and B.M.Gupta:** Collaboration among MPs and Political Parties in Raising S&T Issues in the Parliament (A Scientometric Analysis)

**Mohsin U. Khan:** Indicators of techno-management capability building in Indian industry

**Ramesh Kundra, Hildrun Kretschmer and Theo Kretschmer:** Two-dimensional collaboration patterns in Indian medical institutions

**Usha M Munshi and Divya Srivastava:** Citoanalytical Study of Collaboration Pattern of Indian Scientist: (Based on Science Citation Index 1989 and 1999)

**Bidyarthi Dutta, Anup Kumar Das and B.K. Sen:** Self impact factor: An indicator based on journal self citation

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## 22 February (Thursday)

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- 1000-1100      **Technical Session VI: Measuring technological collaboration**  
**Chair: Frank Hartmann**  
**Robert Dalpe, L. Bedard and M. Ippersiel:** Interaction between Science and Technology in Photodynamic Therapy  
**Sujit Bhattacharya:** Reflections into the Patenting Activity of India and China: Pre and Post WTO Period  
**P.R.Bose and Sujit Bhattacharya:** Impact of foreign technological collaborations in industrial development - the case of Indian cement industry
- 1100-1130      Tea
- 1130-1300      **Technical Session VII: Innovation Studies**  
**Chair: Ow Siew Hock**  
**Rainer Voss:** Innovation Networks and Regional Clusters in Biotechnology  
**Brandt Martina and Ulla Grosse:** Women in Innovation Processes - a Quantitative Analysis in the Field of Biotechnology  
**Frank Hartmann:** Technology Assessment for Innovation Lines in the Field of Plant Genetic Engineering
- 1300-1400      Lunch
- 1400-1530      **Technical Session VIII: General issues related to S&T indicators**  
**Chair: Hiltrun Kretschmer**  
**Lalsiemlien Pulamte and Dinesh Abrol:** Technology Transfer to Rural Areas from CSIR Laboratories: Towards an Assessment of Networking Practices  
**S.S. Srivastava, P.K. Saxena, B.M.Gupta and Suresh Kumar:** Statistical Research in India (A Scientometric Analysis)  
**Santanu Roy and P.S.Nagpaul:** A Quantitative Evaluation of Relative Efficiencies of Research and Development Laboratories: A Data Envelopment Analysis Approach
- 1530-1600      Tea

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## 22 February (Thursday)

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1600-1630

**Technical Session IX: General Issues Related To S&T Indicators (contd..)**

**Chair: P.S. Nagpaul**

**Roland Wagner Dobler** and **Dimiter Tomov:** Effects of Cancer Research on Cancer Mortality - A Tentative Case Study Of Long-Term Effects Of Pure Bio-Medical Research On Human Health

**R Chakrabarty** and **N.K. Patra:** A Statistical Model for Innovation Diffusion and the Corresponding Tests

**S Pruthi:** Indicators of Inventive Activities: A case study of India during liberalisation

1630-1730

**Concluding Session**

A panel discussion

\* For any further details regarding presentation, may please contact Dr Sujit Bhattacharya