



# ZAHEER SCIENCE FOUNDATION

In partnership with  
**UNESCO New Delhi**

is organizing an  
**International Conference**

on

**SCIENCE AND THE SMALL NATIONS**  
**Bridging the Gaps**  
**A science diplomacy initiative**

## DATE & VENUE:

14<sup>th</sup>-16<sup>th</sup> November 2017

IICC Auditorium, India Islamic Cultural Centre  
87-88, Lodhi Road, New Delhi 110003, India

## SUPPORTED BY



सत्यमेव जयते

Department of Science and Technology



United Nations  
Educational, Scientific and  
Cultural Organization

With the support of

**New Delhi Office**  
Cluster office for Bangladesh,  
Bhutan, India, Maldives,  
Nepal and Sri Lanka

PTO

# SCIENCE AND THE SMALL NATIONS

## **Rationale**

Universality of Science is a cardinal principle of the Paris-based International Council for Science (ICSU). This principle affirms that international communication is a prerequisite to the pursuit of scientific activity, and that free flow of scientific ideas and information among members of the global scientific community is critical to the advancement of science and society everywhere. In reality, however, the participation of scientists from the developing nations in mainstream international science conferences is disproportionately small. This is particularly glaring in respect of the nearly 50 small nations who are hardly visible in the global big science meets. Why? What could be the reasons? And what should be done to rectify the imbalances? What policies and strategies can integrate the small and disadvantaged nation with global scientific initiatives?

## **A perspective**

There are 197 independent nations in the world, big and small. 135 of them have a population of 10 million or less. Of this 135, 45 are small island nations with population of one million or less, dispersed in the Caribbean (16), the Pacific (14), and Europe (6) Asia (6) and Africa (3). For a variety of reasons ranging from geography, political character, economic status on talent base levels the small nations have been experiencing vulnerability of one kind or another, particularly science and technology marginalization. Paradoxically, these very countries are on-going or potential contributors of data and information to global programs such as climate change, sea level rise, hurricane and such extreme weather events. Also, trans-boundary pollution.

## **This conference**

In this context the conference is designed to champion the cause of the small nations in the global science society with focus on resource-based or technology-driven economic development projects, capacity building and science communication. An example is available, of a highly successful Commonwealth Science Council project called Caribbean Oceanographic Resources Exploration (CORE) which utilized a high powered ocean research vessel provided by India (Sagar Kanya) to explore, gather, analyze and compile database of living and non-living marine resources for 13 island nations in the Caribbean Seas. This has been hailed as a success story of deft science diplomacy.

<b>Contents</b>		
1.	Technical Program	5-11
2.	Dr. G. Thyagarajan, FRSC, FNAE, Chairman, Zaheer Science Foundation, New Delhi	12-13
3.	Prof. Mohsin Ullah Khan, Vice Chairman, Zaheer Science Foundation, New Delhi	14-16
4.	Dr. Y. P. Kathuria, Treasurer, Zeheer Science Foundation, New Delhi	17-18
5.	Dr. Harsh K. Gupta, Member, Atomic Energy Regulatory Board (AERB) President, Geological Society of India, Immediate Past President, International Union of Geodesy & Geophysics (IUGG)	19-21
6.	Dr. Seema Wahab, Joint Secretary, Zeheer Science Foundation, New Delhi	22-24
7.	Dr. Tabassum Jamal, Chief Scientist, CSIR-NISTADS, New Delhi	25
8.	Prof. Oleg Golichenko, Chief Research Associate of the Central Economics and Mathematics Institute, an academician of International Academy of Institutional Science, Russia	26-27
9.	Dr. R.K. Bhandari, Chairman, Indian National Academy of Engineering (INAE), Forum on Engineering, Kausambi, Gaziabad (UP), India	28
10.	Prof. Ashwini Kumar Nangia, Director of CSIR-National Chemical Laboratory (CSIR-NCL), Dr. Homi Bhabha Road, Pune- 411 008, India	29
11.	Dr. Torsti Loikkanen, Consultant in Science, Technology and Innovation Policies in Sapar Oy/Ltd. Helsinki	30-32
12.	Prof. Shahid S. Siddiqui, Professor, Director Program in Human Genetics & Development, Umm Al Qura University, College of Dentistry, Taif Road, Makkah, KSA	33-35
13.	Prof. Dr. Zahid H. Khan, Vice President, Ibn A1 Haytham Lhisa International Society, Paris, France.	36-37
14.	Dr Ram Boojh, Senior Programme Officer in the Natural Science Unit at the UNESCO Cluster Office for South Asia in New Delhi	38
15.	Dr. Shchepina Irina, Voronezh State University (VSU), Russia	39-44
16.	Dr. Solosina Maria, Voronezh State University (VSU), Russia	45-48

17.	Dr. Dmitry Shcherbinin, Professor and the Director of Vavilov's Institute for the History of Science and Technology, Russian Academy of Sciences, Moscow, Russia	49
18.	Dr. Nadia Asheulova, Director, Center for Sociological and Sciences Studies Research of IHST, Russian Academy of Sciences, Moscow, Russia	50-52
19.	Dr. Y. Madhavi, Sr. Principal Scientist, National Institute of Science, Technology and Development Studies (NISTADS), Dr. KS Krishnan Marg, Pusa Gate, New Delhi.	53
20.	Dr. Sunil Babu Shrestha, Academician, NAST and Member, National Planning Commission, Khumaltar, Lalitpur, Nepal	54
21.	Prof. Dr. Jiba Raj Pokharel, Vice-Chancellor, NAST , Khumaltar, Lalitpur, Nepal	55
22.	Dr Sujit Bhattacharya, Senior Principal Scientist, National Institute of Science, Technology and Development Studies (NISTADS), Dr. KS Krishnan Marg, Pusa Gate, New Delhi	56
23.	Dr.(Mrs) Shailaja D, Sr. Principal Scientist, CSIR-Indian Institute of Chemical Technology , Hyderabad-500007, Telangana, INDIA	57-59
24.	DR. B. Chandrasekaran, Director, CSIR-CLRI, Chennai	60
25.	Ellen M. Carpenter, Embassy Science Fellow, U.S. Embassy, New Delhi, India	61-65
26.	Prof. Sudhanshu Vрати, Executive Director, Regional Centre for Biotechnology, NCR Biotech Science Cluster, 3rd Milestone, Faridabad	66-67
27.	List of Delegates	68-71

# International Conference on

**“SCIENCE AND THE SMALL NATIONS  
Bridging the Gaps: A Science Diplomacy Initiative”**

**Organize by**

**Zaheer Science Foundation In partnership with UNESCO New Delhi  
From 14<sup>th</sup> -16<sup>th</sup> November 2017 at India Islamic Cultural Centre,  
87-88, Lodhi Road, New Delhi – 110003**

## **Technical Program**

### ***Monday 13 November 2017***

**7:30 PM** Welcome Dinner at Self Service Lounge, India International Centre,  
40, Max Mueller Marg, New Delhi-110003

### ***First Day, Tuesday, 14 November 2017 (Venue: Auditorium)***

<b>9:00-9:30</b>	<b><i>Registration</i></b>
<b>9:30-11:00</b>	<b><i>Inaugural Session</i></b>
	<b><i>Addresses:</i></b>
	Dr. G. Thyagarajan Chairman ZSF Formerly Director, CSIR, Former Science Advisor to Commonwealth Secretary General and Director (Science) Commonwealth Secretariat, London
	Prof. Harsh Gupta Member, Atomic Energy Regulatory Board (AERB) President, Geological Society of India Immediate Past President, International Union of Geodesy & Geophysics
	Dr. Shigeru Aoyagi Director and UNESCO Representative to India, Bhutan, Maldives and Sri Lanka UNESCO House, New Delhi
	<b><i>Address &amp; Concluding Remarks</i></b>
	Dr. Mohsin U Khan Vice Chairman, ZSF Professor, Plekhanov Russian University of Economics, Moscow, Russia
	<b><i>Vote of Thanks</i></b>
	Dr. Tabassum Jamal Chief Scientist, CSIR-NISTADS, New Delhi
<b>11:00 -11:30</b>	<b><i>High Tea</i></b>

<b>11:30-1:30</b>	<b>Session 1</b>
	<b>Chair: Dr. Oleg Golichenko, Chief Research Associate of the Central Economics and Mathematics Institute of Russian Academy of Sciences, Moscow, Russia</b>
11:30-12:00	<b>Speaker:</b> <i>Dr. Mohsin U Khan, Vice Chairman, ZSF Professor, Plekhanov Russian University of Economics, Moscow, Russia</i>  <b>Title:</b> Science & Technology Policies as principal drivers of social and economic development
12:00 -12:30	<b>Speaker:</b> <i>Dr. R.K. Bhandari, Chairman, Indian National Academy of Engineering (INAE), Forum on Engineering, Kausambi, Gaziabad (UP), India</i>  <b>Title:</b> Strengths and Vulnerabilities of Small Nations- A disaster risk reduction perspective
12:30-1:00	<b>Speaker:</b> <i>Prof. Ashwini Kumar Nangia, Director, CSIR-National Chemical Laboratory, Dr. Homi Bhabha Road, Pune, India.</i>  <b>Title:</b> Science outreach to society by CSIR-NCL
1:00-1:30	<b>Speaker:</b> <i>Dr. Tabassum Jamal, Chief Scientist, CSIR-NISTADS, New Delhi</i>  <b>Title:</b> Science & Technology Entrepreneurship Partnership-Promoting Innovation Driven Economies
<b>1:30-2:30</b>	<b>Lunch Break</b>
<b>2:30-4:00</b>	<b>Session 2</b>
	<b>Chair: Dr. Torsti Loikkanen, Science, Technology and Innovation Policy Research and Consulting, Sapar Oy (Ltd), Ohjaajantie 22 A 4, 00400 Helsinki, Finland</b>
2:30-3:00	<b>Speaker:</b> <i>Prof. Shahid S. Siddiqui, Professor, Director Program in Human Genetics &amp; Development, Umm Al Qura University, College of Dentistry, Taif Road, Makkah, KSA</i>  <b>Title:</b> Bridging the Technology Gap, Intellectual Property and Small Nations.

3:00-3:30	<p><b>Speaker:</b> <i>Dr. Zahid H Khan, Former Professor of Physics and Director, FTK-Centre for Information Technology, Jamia Millia Islamia, New Delhi.</i></p> <p><b>Title:</b> Open Educational Practices for Improving the Quality of Science Education</p>
3:30-4:00	<p><b>Speaker:</b> <i>Dr. Ram Boojh, Programme Specialist for Natural Sciences &amp; Secretary, SACAM (South &amp; Central Asia MAB Network), UNESCO New Delhi Cluster Office for South Asia, India</i></p> <p><b>Title:</b> Science Diplomacy and Sustainable Development Goals</p>
4:00-4:30	<b>Tea/Coffee Break</b>
<b>4:30-6:00</b>	<b>Session 3</b>
	<b>Panel discussion</b>
	<b>Title:</b> Issue concerning small nations and their interaction with rich nations
	<p><b>Moderator:</b></p> <p>Dr. Sunil Babu Shrestha</p> <p><b>Panelists:</b></p> <p>Dr. G. Thyagarajan  Dr. Harsh Gupta  Dr. Jiba Raj Pokharel  Dr. Torsti Loikkanen  Dr. Dmitry Shcherbinin  Dr. Irina Shchepina  Dr. Annaflavia Bianchi</p>
7:30-8:30	<b>Light &amp; Sound Program at Red Fort</b>
8:30	<b>Dinner at Islamic Centre</b>

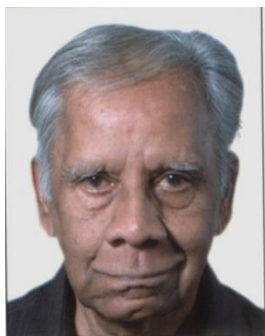
**Second Day, Wednesday, 15 November 2017**  
**(Venue: Conference Hall- II)**

<b>9:30-11:00</b>	<p><b>Session 1</b></p> <p><b>Chair: Dr. Dmitry Shcherbinin, Professor and the Director of Vavilov's Institute for the History of Science and Technology, Russian Academy of Sciences, Moscow, Russia</b></p>
9:30-10:00	<p><b>Speaker:</b> <i>Dr. Harsh Gupta, Member, Atomic Energy Regulatory Board (AERB), President, Geological Society of India Immediate Past President, International Union of Geodesy &amp; Geophysics (IUGG)</i></p> <p><b>Title:</b> Tsunamis: How to develop tsunami resilient society</p>
10:00-10:30	<p><b>Speaker:</b> <i>Dr. Torsti Loikkanen, Science, Technology and Innovation Policy Research and Consulting, Sapar Oy (Ltd), Ohjaajantie 22 A 4, 00400 Helsinki, Finland</i></p> <p><b>Title:</b> Perspectives on from a Small Open Industrialized Economy, Finland</p>
10:30-11:00	<p><b>Speaker:</b> <i>Prof. Oleg Golichenko, Chief Research Associate of the Central Economics and Mathematics Institute of Russian Academy of Sciences, Moscow, Russia</i></p> <p><b>Title:</b> Public Policy and Failures of National Innovation Systems</p>
<b>11:00-11:30</b>	<b>Tea/Coffee Break</b>
<b>11:30-1:30</b>	<p><b>Session 2</b></p> <p><b>Chair: Dr. Zahid H Khan, Former Professor of Physics and Director, FTK-Centre for Information Technology, Jamia Millia Islamia, New Delhi.</b></p>
11:30-12:00	<p><b>Speakers:</b>  1) <i>Dr. Irina Shchepina,</i>  2) <i>Dr. Maria Solosina, Voronezh State University, 1 Universitetskaya Pl., Voronezh, 394018, Russia</i></p> <p><b>Title:</b> Best Practices in local Development (Russian experience)</p>

12:00-12:30	<p><b>Speaker:</b> <i>Dr. (Ms.) Nadia Asheulova, Director, Center for Sociological and Sciences Studies Research of IHST, Russian Academy of Sciences, Moscow, Russia</i></p> <p><b>Title:</b> <i>The Role of International Professional Associations for Boosting Academic Cooperation and Building Global Networks</i></p>
12:30-1:00	<p><b>Speaker:</b> <i>Dr. Annaflavia Bianchi, University of Urbino and Emilia-Romagna Regional Government expert, Italy</i></p> <p><b>Title:</b> Active participation in science and science benefits: Combining specialization and cooperation</p>
1:00-1:30	<p><b>Speaker:</b> <i>Dr. Y. Madhavi, Sr.Principal Scientist National Institute of Science, Technology and Development Studies (NISTADS), New Delhi</i></p> <p><b>Title:</b> Public Health in Small Nations: The Capacity building</p>
1:30-2:30	<b>Lunch Break</b>
<b>2:30-4:00</b>	<b>Session 3</b>
	<p><b>Chair:</b> <b>Dr. (Ms.) Nadia Asheulova, Director, Center for Sociological and Sciences Studies Research of IHST, Russian Academy of Sciences, Moscow, Russia</b></p>
2:30-3:00	<p><b>Speaker:</b> <i>Dr. Sunil Bahu Shrestha, Academician, NAST and Member, National Planning Commission, Khumaltar, Lalitpur, Nepal</i></p> <p><b>Title:</b> Road map for the development of Science, Technology and Innovation in Nepal</p>
3:00-3:30	<p><b>Speaker:</b> <i>Prof. Dr. Jiba Raj Pokharel, Vice-Chancellor, NAST Khumaltar, Lalitpur, Nepal</i></p> <p><b>Title:</b> Science and Technology in Nepal</p>
3:30-4:00	<p><b>Speaker:</b> <i>Dr Sujit Bhattacharya Principal Scientist, National Institute of Science, Technology and, Development Studies (NISTADS), New Delhi</i></p> <p><b>Title:</b> New technologies: What is there for emerging and Small economies?</p>
<b>4:00-4:30</b>	<b>Tea/Coffee Break</b>

4:30-6:00	<p><b>Brain Storming Session on Small Nations in their development of Science and Technology.</b></p> <p><b>Moderator:</b> <i>Prof. Shahid S. Siddiqui, Professor, Director Program in Human Genetics &amp; Development, Umm Al Qura University, College of Dentistry, Taif Road, Makkah, KSA</i></p>
7:30 PM	Dinner at Islamic Centre
<p><b><i>Third Day, Thursday, 16 November 2017</i></b>  <b><i>(Venue: Conference Hall- II)</i></b></p>	
9:30-12:00	<b><i>Morning Session</i></b>
	<p><b>Chair:</b> <i>Dr. Ram Bhooj, Programme Specialist for Natural Sciences &amp; Secretary, SACAM (South &amp; Central Asia MAB Network), UNESCO New Delhi Cluster Office for South Asia, India</i></p> <p><b>Speaker:</b> <i>Dr. Dmitry Shcherbinin, Professor and the Director of Vavilov's Institute for the History of Science and Technology, Russian Academy of Sciences, Moscow, Russia</i></p> <p><b>Title:</b> 3D documentation as a modern means of preserving information about objects of a cultural heritage</p>
10:00-10:30	<p><b>Speaker:</b> <b>Speaker:</b> <i>Dr. D. Shailaja, Senior Principal Scientists, CSIR-Indian Institute of Chemical Technology, Hyderabad</i></p> <p><b>Title:</b> 'Science &amp; Technology Collaborations with Small Nations: CSIR-IICT 's Experience &amp; Perspective</p>
10:30-11:00	<p><b>Speaker:</b> <i>Dr. B. Chandrasekaran, Director, CSIR-Central Leather Research Institute, Adyar, Chennai</i></p> <p><b>Title:</b> Indian Leather Industry New Perspective</p>
11:00-11:30	<b>Tea/Coffee Break</b>

11:30-12:00	<p><b>Speaker:</b> <i>Dr. Y P Kathuria, Visiting Professor, IIT Bombay</i></p> <p><b>Title:</b> Energy and power resource policy for Small Nations</p>
12:00-12:30	<p><b>Summing Up</b></p> <p>Dr. G. Thyagarajan, Prof. Zahid H Khan</p>
12:30-1:30	<p><b>Valedictory Address</b></p> <p>Chair: Dr. Harsh Gupta,</p>
	<p><b>Speaker:</b> <i>Dr. T. Ramasami, Former Secretary, Department of Science and Technology, Govt. of India</i></p>
1:30-2:30	Lunch



**Dr. G. THYAGARAJAN, FRSC, FNAE**

**Email: rajangt34@gmail.com**

Born : 02 May, 1934: Indian National

#### **Academic Career:**

- BSc, MSc, PhD in Chemistry from Osmania University, Hyderabad, India
- Post-Doctoral Fellow, Department of Chemistry, University of California, Berkeley, USA
- Visiting Scientist, National Institutes of Health, Bethesda, Md, USA

#### **Positions Held**

- Director, North East Institute of Science & Technology CSIR, Jorhat, Assam
- Director, Indian Institute of Chemical Technology CSIR, Hyderabad
- Director, Central Leather Research Institute, Chennai CSIR
- Acting Director-General, CSIR, June 1985
- UN Fellowship in Industrial Research Management, The Netherlands
- Science Advisor (Diplomatic Rank) to Commonwealth Secretary General and Director Science Division, Commonwealth Secretariat London
- UNIDO National Consultant, India
- Scientific Secretary, Committee on Science And Technology in Developing Countries, International Council for Science
- Technical Adviser to the US Law Firm handling the official Indian case of Bhopal Gas Tragedy, in US Court
- Pioneered industrial safety and risk analysis research, training, application and public awareness in India
- Chairman Supreme Court Monitoring Committee on Hazardous Waste Management in India
- Full time Consultant to Joint Parliamentary Committee on Pesticide Residues in Soft Drinks and Fruit Juices 2004

#### **Honours and Awards**

- Fellow, Royal Society of Chemistry, London
- Fellow, Indian National Academy of Engineering
- Hon Fellow Indian Institute of Chemical Engineers
- KG Naik Gold Medal for Industrial Research Contributions

- VASVIK Award for Outstanding Contributions to Industrial Development
- RASA UDYOG SEVA First Award from Chemical Industries Association, Chennai

### **Fields of Competence**

- R&D Management (Medicinal Chemistry, Pesticides, Industrial Chemicals, Coal, Petroleum, Leather Science and Technology)
- Science, Technology and Innovation Policy, International Scientific Cooperation, Management of Mega Projects
- Science Diplomacy

### **Current Activities**

- Visiting Professor, Administrative Staff College of India, Hyderabad
- Chairman, Zaheer Science Foundation, New Delhi
- Senior Adviser, Royal Society of Chemistry (London) South India Section



**PROF. MOHSIN ULLAH KHAN**

**Title of lecture:** Science & Technology Policies as principal drivers of social and economic development

**Present Position:** Formerly Chief Scientist, *National Institute of Science Technology and Development Studies (CSIR), New Delhi* at presently Professor, *Plekhanov State University of Economics, Moscow, Russia* and Executive Vice President, *Zaheer Science Foundation, New Delhi-110001*

**Specialization:**

- *Thirty years research experience in the area of science and technology policy and planning; International technology transfer and Social interactions of new technology; environmental pollution and waste management*
- *Published research papers in prestigious international and national journals; written four books on science policy; taught at foreign and Indian universities science and technology policy course; Worked as Consultant to International Agencies like European Space Agency (ESA), UNESCO, ISESCO, UNCTAD. Awarded Prestigious fellowships by East West Center, Hawaii, USA, Commonwealth Scholarship Commission and British Council, UK*
- *Member Editorial Board of International Journal “Asian Research Policy” Published from Korea Institute of S&T Evaluation and Planning (KISTEP), Korea*  
<http://arpjournal.org/>

## **Prestigious International Assignments:**

- Appointed Consultant to European Space Agency with a budget of US \$14 billion. He has been on their review board of scientific programs
- Appointed UNESCO Consultant, completed several assignments: a) "South Asia Science Report 2006" b) Designed and prepared "Mauritania Science and Technology Policy 2006" c) "Designed and prepared Afghanistan Science and Technology Policy 2007"
- Appointed ISESCO Consultant, Morocco, Rabat, designed and prepared "Gambia Science and Technology Policy 2008". Appointed ISESCO Consultant in 2016 and prepared a report on "Good example of Science, Technology and Innovation regulatory framework and incentives from the Member and Non-Member countries"
- Appointed Consultant to UNCTAD, Vienna, Austria
- Appointed Coordinator of South Asia Forum on Science and Technology Policy established by UNESCO
- Worked as a Consultant to Asia Pacific Center on Technology Transfer (APCTT) based in New Delhi
- Worked as consultant to European Union and prepare a report on Technology trend charts on India's technology Policy
- Appointed National Expert on Innovation Policy by a Consortium of European Research Institutions and working closely with European Six Countries Program on Innovation Policy Network in Brussels
- Awarded prestigious Post Doctoral Fellowship by East-West Center, Honolulu Hawaii, USA, a world renowned institution set up by US Congress in 1965 to study Asia Pacific Region. The duration of the fellowship was for one year during 1995-96
- Awarded Commonwealth Professional Fellowship by Commonwealth Scholarship Commission in 2006 for three months at Institute of Policy Research in Engineering Science and Technology, University of Manchester, UK
- Awarded British Council Fellowship under Colombo plan in 1982 for one year to work at University of Manchester
- Appointed member of Commonwealth Partnership for Technology Management Limited, London, UK
- Appointed member of International Technology indicator panel, USA for the year 1995-97
- Appointed Consultant to Kuwait Research Institute of Scientific Research (KISR) Kuwait and Iranian Research Organization on Science and Technology (IROST) Tehran. He has organized international workshops and conferences in Kuwait, Iran and other developing countries
- Organized UNESCO sponsored International Conference on "Science and Technology Policy: Opportunities and Challenges in the context of Globalization" in collaboration with NISTADS and supported by DST, CSIR and Ministry of Human Resources Development, Government of India during March 7-10, 2005 at CRRID, Chandigarh
- Organized UNESCO and ISESCO sponsored International Conference in collaboration with NISTADS and supported by DST, CSIR and Ministry of

HRD, Government of India on “Capacity building in Science and Technology: Policy perspective, Opportunities and Challenges in the Context of Globalization during 27-29 November, 2007 at INSA, New Delhi. The Conference was addressed by Director General, UNESCO among other dignitaries

- Worked in close cooperation with VTT Technical Research Organization, Helsinki, Finland on International Technology Transfer Project

#### **Teaching assignments awarded at foreign and Indian Universities:**

- ***Taught science and technology policy and management course to MSc students at PREST, University of Manchester, UK***
- ***Taught technology policy course to MSc at Roskilde University, Denmark***
- ***Taught technology management course to M Sc students in the Department of South Asian Studies, University of Hawaii, Honolulu, USA***
- ***Taught technology management course to BE students at Institute of Technology and Management, Gwalior***
  
- ***Taught Technology Management Course at School of Management, Indian Institute of Technology, Bombay***
- ***Teaching technology management course at Department of Management, Guru Jambheshwar University of Science and Technology, Hissar, Haryana***
- ***Guided several BTech students doing dissertations in Science and Technology Policy from Birla Institute of Science and Technology, Pilani***
- ***Guided several Ph.D students from Malaysia on Science and Technology Policy Studies***



**DR. Y. P. KATHURIA**

**Title of lecture:** Energy and power resource policy for Small Nations

Name: Y. P. Kathuria (Male) Date of Birth: 09-05-1945  
Nationality: Indian Email: [ypkathuria@yahoo.com](mailto:ypkathuria@yahoo.com) Tel.:  
09878667821

### **Educational Qualifications**

Dr.rer.nat. (Ph.D) : Technical University of Darmstadt, Germany 1985  
Diplom (Post-Graduate: MS) : Technical University of Darmstadt, Germany 1976  
Language Certificate and Diploma : Punjab University Chandigarh 1971-1973 India

### **Professional Experience**

Visiting Professor 2009 - 11 Department of Electrical and Electronics Engineering  
Aichi Institute of Technology Toyota 0472-0392 Japan  
Leader R&D 2008 TechnoCoat Co. Ltd. Fujieda-shi Shizuoka-ken Japan  
Visiting Faculty (Prof.) 2005-2006 Department of Metallurgical Engineering and Materials  
Science,  
IIT Bombay, Powai, Mumbai - 400076  
Researcher / Visiting Scholar/ Sr. Scientist 2004-1993 Robotics Ritsumeikan University Kusatsu-shi, Department  
of Precision Engineering, The University of Tokyo, and  
Laser X Co., Ltd. Chiryu-shi Japan

SSO-I	1992-1986	I I T D / SRI / NPL Delhi
Wiss. Mit.	1985-1974	Institute of Applied Physics Technical University of Darmstadt Germany GSF Darmstadt /Muenchen Germany

### Member of Professional Societies

1. Institute of Electrical and Electronics Engineers	IEEE	U. S. A.
2. Japan Society of Mechanical Engineers	JSME	Japan
3. Japan Society of Precision Engineers	JSPE	Japan
5. American Welding Society	AWS	U. S. A.
6. Mineral, Metal and Material Society	TMS /ASM	U. S. A.
7. Optical Society of America	OSA	U. S. A.

### Awards /Achievements

Presently serving as a **referee** for five leading **international journals** (*surface coating technology, material science technology, journal material processing technology*) in the field. Served as **reviewer** for a book published by TMS / ASM (USA). Served as **peer reviewer** for ICO V handbook published by SPIE. Contributed several book Chapters. Also served as member technical committee for international symposia /conferences. I was also awarded **Travelling Lecturer Program** by International Commission on Optics as well as by ASM international USA. Total number of publications: Intl. Journals: **45** ; Intl. Proceedings.: **134**; Current number of **citations** of published articles: **> 300**

### Teaching courses

- |  |                                    |
|--|------------------------------------|
| (1) Physics tutorial                                 | (2) Manufacturing processes lab.   |
| (3) Corrosion and protection of materials technology | (4) Welding science and technology |
| (5) Advance ceramics                                 |                                    |

*A partial list of publications /presentations since 1972 : 'Dr. Y. P. Kathuria'*

- (A): Journals Paper Publications :  
45 nos. ( 3 invited )
- (B): Paper /Chapter Publications in a Book or Book-Proceeding :  
11 nos. ( 2 invited )
- (C): Full-Length Proceeding Papers :  
59 nos. ( 14 invited )
- (D): National Working Group Seminar and Internal Reports :  
8 nos. ( 4 invited )
- (E): Conference Proceedings Short Summary and Presentations :  
69 nos. ( 5 invited ; 1 key-note speaker ; 1 plenary speaker )



**DR. HARSH K. GUPTA**

**Title of lecture:** Tsunamis: How to develop tsunami resilient society

Padmashri Dr. Harsh Gupta (born in 1942) served as the Director of the National Geophysical Research Institute (NGRI) Hyderabad for nearly a decade from 1992. Under his stewardship, NGRI rose to be the top geosciences research institute in India. His visionary leadership led NGRI to use the pool of basic research capabilities to address the country's needs in hydrocarbons, minerals, and groundwater resources, a crucial question for agriculture in India.

**Positions held by Dr. Gupta:**

Member of the National Disaster Management Authority of India (Status: Minister of State, Government of India, 2011-2014); Secretary to Government of India, Department of Ocean Development (2001- 2005); Director, N.G.R.I. (1992- 2001); Advisor, Department of Science and Technology, Government of India (1990- 1992); Vice Chancellor, Cochin University of Science and Technology (1987- 1990); Director, Centre of Earth Science Studies, Trivandrum (1982- 1987); and Project Director, Kerala Mineral Development and Exploration Project (1982- 1987); Adjunct Professor, University of Texas at Dallas (1978- 2001); Research Scientist, University of Texas at Dallas (1972-1977); Senior UNESCO Fellowship, International Institute of Seismology and Earthquake Engineering (IISEE), Tokyo (1971-1972); Scientist N.G.R.I. (1967-1971); UNESCO Fellowship, IISEE, Tokyo (1966-1967); Scientist NGRI (1964-1966). Visiting Professor at a number of Universities and Institutes in Europe and USA. Advisor/Consultant to UNESCO, Common Wealth Science Council, International Atomic Energy Authority, ICSU etc on several occasions.

**Major Scientific Contributions:**

Prof. Gupta's work is globally recognized for 1) Providing the first evidence of an extremely thick crust (65~70 km) below Himalaya and Tibet Plateau region in 1967, later confirmed by seismic surveys in 1980's 2) Developing criteria to discriminate artificial water reservoir triggered earthquakes from normal earthquakes, which are globally applied and finding safe sites for construction of reservoirs, 3) Making a medium term forecast of an M~8 earthquake in north-east India region in 1986 which came true on August 6,1988, 4) Chairing the Steering Committee of the Global Seismic Hazard Assessment Program (G-SHAP) where some 500 scientists worked

from 1992 to 1999 and produced the Global Seismic Hazard map, 5) Pioneering the Gas Hydrate program and delimiting the zones for stability of gas hydrates within the exclusive economy zone of India, 6) Taking up detailed studies of genesis of triggered earthquakes in the Koyna region and making successful short term earthquake forecasts.

### **Indian Tsunami Warning System:**

After the occurrence of the devastating December 26, 2004 Mw 9.3 Sumatra earthquake and the resultant tsunami that claimed over 250,000 human lives in south and south east Asia, Prof. Gupta spear headed setting up India's tsunami warning system, which was completed in just 30 months time. This is now assessed to be among the best tsunami warning systems globally.

### **Low Temperature Thermal Desalination:**

Under the stewardship of Prof. Gupta, the first low-temperature thermal desalination plant was set up in Kavaratti, Lakshadweep in 2005. This is the first of its kind anywhere in the world and has been producing over 100,000 liters/day for the past 7 years. Kavaratti has a population of about 10,000 people. Consequently, the cases reported in the hospital have dropped to less than one-half in the subsequent years as most cases were related to water borne diseases.

### **Legal Continental Shelf:**

Prof. Gupta directed the Legal Continental Shelf program of India, where 31,000 line km of seismic data, intense gravity, magnetic and other geo-data were collected. This has led to India's submitting a claim to the UN Commission on the Limits of the Continental Shelf.

### **Publications:**

Dr. Gupta has published over 200 scientific papers in internationally reputed journals, has authored 5 books, published by Elsevier and Springer, and edited 21 volumes. One of his papers was adopted as a chapter in the Open University (U.K.) text book on Geophysics. His first book, "Dams and Earthquakes", published in 1976 was translated into Russian and Chinese languages. Prof Gupta compiled and edited "Encyclopedia of Solid Earth Geophysics". This monumental 1500+ pages two volume treatise, published by Springer is globally a landmark (website: [www.springer.com](http://www.springer.com) ).

### **ANTARCTICA:**

Prof Gupta was the Leader of the Third Indian Scientific Expedition to Antarctica (1983- 1984), which succeeded in establishing a permanent base station for scientific research in a record time of one Antarctic Summer, against very heavy odds. This record still holds good. This led to India joining the exclusive club of nations as a member of "Antarctic Treaty".

## **IUGG/ICSU/AGU/AOGS Etc.**

Long time involvement with IUGG (President 2011-2015, Vice President 2007-2011, Bureau Member for two terms, 1999- 2003 and 2003- 2007); IASPEI (Vice President, 1995- 1999, Executive Committee Member 1991- 1995); Chair, Steering Committee of Global Seismic Hazard Program (GSHAP), 1992- 1999; ICSU (Member C SPR, two terms, 2005-2008 and 2008- 2011); Chair, Hazards Group, ICSU Regional Office for Asia and Pacific; ILP (Bureau Member, 1986- 1989; and was made a Bureau Member of ILP for life in 1996); Founder President of the Asian Seismological Commission (1996- 2000); IUGS (Councilor, 2000- 2004); Vice President and President AOGS (2010-2013); Member Scientific and Technical Committee of ISDR (2009- ); Member AGU Committee on Public Affairs, The New AGU and a member of AGU Committee on International Participation, etc.

International Union of Geodesy and Geophysics (IUGG) has over 70 countries as members. In its history of 96 years, Prof Gupta is the second scientist from India to have been elected as its president. Asia Oceania Geoscience Society (AOGS) has jurisdiction from Japan in the north to New Zealand in the south involving over 40 countries. Prof Gupta is the only scientist from India to have been elected as its President.

## **Institution Building**

Dr. Gupta has been involved from a very young age in senior administrative positions of institution building. He built Centre for Earth Science Studies at Trivandrum from a scratch. This included development of a whole campus in a short time of two years (1984-86). He also had the responsibility of building Indian Scientific Station in Antarctica which he did with distinction and completed all the tasks in a record time of one Antarctic summer (1983-84). In his capacity as Vice-Chancellor of Cochin University of Science and Technology (at the age of 45 years he was the youngest Vice-Chancellor in the country at that time), among several things, he created DRDO – Cochin University of Science & Technology, Computer Centre equipped with the then latest available computers for joint research projects. He also hosted the Science Congress in January 1990, the first Science Congress in Kerala, which, people still remember as one of the best conducted Science Congress meetings. At DST, during his stay of two years (1990-92) he initiated many new programmes including consolidating DST inputs on IGBP projects.

During 1992-2001, Dr Gupta was the Director at the National Geophysical Research Institute (NGRI), Hyderabad. NGRI has risen to the position of one of the top few CSIR laboratories. From a meager rupees one crore external cash flow during 1993-94, it has grown to 11 crores during 1996-97. NGRI won the prestigious Technology Prize for Business Development and Technology Marketing during 1997. At NGRI, Dr Gupta has revolutionized application of earth sciences to the basic needs of the country. This has included delineation of Mesozoic sediments (which could be petroliferous) under Deccan Trap cover, and a new chapter has been opened in looking for Gas Hydrates in offshore region of India. NGRI has also significantly contributed in water resource finding, rain water harvesting and water pollution related studies as well as ways and means of assessing and safeguarding against earthquake hazards.



**DR. SEEMA WAHAB**

**Joint Secretary,  
Zaheer Science Foundation, New Delhi**

Dr. **Seema Wahab**, Former Adviser and Senior Consultant, Department of Biotechnology, Ministry of Science and Technology, Government of India is a biotechnologist involved in the promotion of research and development for Sustainable Agriculture and coordinating various programs in the area of Agricultural biotechnology and Basic Research in Modern Biology. Her contribution towards the development of biopesticide technologies in the country, its validation through large scale demonstrations suited to different agro-climatic zones and their large scale adoption by the farmers is a pioneering step towards the promotion of IPM concept for Sustainable Agriculture. She had also coordinated a major program in the area of Animal Biotechnology during the year 2002-2007. Through her involvement and contribution several initiatives were taken for the improvement of animal health care and animal productivity in the areas of vaccine development, disease diagnostics, transgenic, animal reproduction, nutrition, byproduct development and genomics etc. A number of programs in frontier areas were also generated. Several basic research projects in modern biology were initiated and supported for understanding the intricacies involved in applied research. Through this programme, the scientists involved in new and fast emerging areas are being promoted in the country.

Dr. Wahab after obtaining her M.Sc., Ph.D from Lucknow University was awarded several prestigious national (PDF, RA and Pool Officer at CDRI) and international Post-doctoral Fellowships and worked in various institutes of international repute viz **Forschungs Fur Experimentelle Biologie Und Medizin, Borstel, Germany; Institute Pasteur - Paris, France** and **National Institute of Health-Maryland, USA**. Besides having over nineteen years of experience as a scientific administrator, she has research experience of twenty years as an active scientist in India and abroad. Her extensive research experience is in the area of Microbiology, Medical Mycology, Fungal Immunology and Biotechnology. As a Science Manager, she was an **AusAID (Australian Agency for International Development) awardee nominated by Govt. of India** and had undergone training on **Management of Biotechnology and Agricultural Research** at **University of New England, Australia**. Besides proficiency in French from Lucknow Univ., she

had also acquired **Diploma in French Language** from **Centre Audio-Visuel de Langues Modernes (CAVILAM), Vichy, France**. She was selected for a specialized **course in Medical Mycology and immunology** organized by the **Institut Pasteur, Paris** and awarded a **Diploma in this specific field**.

She is a recipient of several national awards and honours like **Distinguished Achievement Award (1998)** for outstanding contribution and valuable services in the field of Pest Management, **Honorary Fellowship award (1999)**, **Dr. M.R Siddiqui Gold Medal (2002)** for outstanding contribution in the field of Biotechnology, **Science Promoter Award (2003)** for the Promotion of science in the country, and **Raghunathi Medal (2004)** for her outstanding contribution in the field of Agricultural Biotechnology. She is an elected Fellow of **Society of Biosciences** for her outstanding contribution in biological sciences. A new species of EPN called ***Steinernema seemae* sp. n.** has been named after her as a token of an honor as well as recognition to her achievements. Recently, she has been awarded **“Life Time Achievement Award 2008”** for her excellent contribution and performance in Biotechnology.

Dr. Wahab has published more than 122 original research papers and articles in the journals of national and international repute. Besides 30 theme papers in biotechnology, she has also co-edited two books on **“Neem-Today and in the New Millennium”** published by **Kluwer Academic Publishers, Netherlands** and **“Agriculture Diversification: Problems and Perspectives”** published by **I.K. International Publishers, New Delhi**.

She was the convener for the formulation of a **“National Strategy Document on Biopesticides”**. Biopesticides was identified as one of the important areas in the brain storming meeting on **“Reinvigorating Indian Agriculture through Science & Technology”** chaired by Hon’ble Minister (S&T and ES) on 28.07.07 at New Delhi. She has **compiled** and **edited** the **“Strategy Document on Biopesticides”** – analyzing various issues relating to the development and uses of biopesticides in the country which is a useful road map document for future. This document was approved by the Hon’ble Minister (S&T) and recently released by Secretary DBT on the occasion of Inaugural function of the 5<sup>th</sup> International Conference on Biopesticides: Stakeholders’ Perspective. Follow up actions of the recommendations is being taken up with various concerned ministries.

Besides the member of various Professional Societies, She is also member on several apex committees like RAC, QRT and IBSC of various Institutes and Universities. She is recognized as examiner for postgraduate and Ph.D degree of several universities of the country. She was Chancellor’s nominee on the executive council of MPKV, Rahuri, Maharashtra; Governor’s Nominee in the selection committee of MCAER, Pune for appointments of Director, Dean & Professors of various Agricultural Universities. She is also one of the members of **Board of Directors of Global Alliance for Livestock Veterinary Medicine (GALVmed), London (UK)** representing South East Asia region. Recently, she has been selected as an external expert in the core review team of **CABI (Centre for Agricultural Bioscience International), UK**. This is for reviewing the scientific activities of CABI. She has visited London, Switzerland from 24-30<sup>th</sup>, 09 and

attended the core review meeting and made site visits of the Labs at both the places.

She has attended various national and international conferences and symposia representing India. Further, She has also participated as official member of several Indian delegations **in Europe, America,**

**Russia, Canada, Australia, China, South Africa (Pretoria, Kenya), East Africa (Tanzania), Sri Lanka and Thailand.** She acted as **co-organizer** from India in the **4<sup>th</sup> International Conference on Biopesticides** held at **Chiang Mai University, Chiang Mai, Thailand** in 2005. In that conference, she was identified to organize the **5<sup>th</sup> International Conference on Biopesticides** of the series in India.

Creation of “**Society for Promotion and Innovation of Biopesticides**” is the brain child of Dr. Seema Wahab which has been floated to foster excellence in academic pursuits and create a cluster of organizations, institutions and enterprises to realize the twin objectives of promotion and innovation of biopesticides in agriculture at large to achieve the Plant Health Management without disturbing biodiversity. This society was created in view of the potential of prospects and constraints being faced by biopesticide industry/scientists for addressing the problems relating to biopesticides from all perspectives like R & D hurdles, Centre-state policy conflicts, regulatory issues, technology transfer, e-profiling, funding financial hurdles, VC funding, public-private interactions etc.

The **5<sup>th</sup> International Conference on Biopesticides: Stakeholders’ Perspective (ICOB-V)** has been organized under the auspices of “**Society for Promotion and Innovation of Biopesticides**” in collaboration with The Energy and Resources Institute from April 26-30, 2009 at India Habitat Centre, New Delhi. Dr. Seema Wahab was the **Organizing Secretary** of this international event. This conference was a highly successful event that was attended by over 400 eminent scientists, industrialists, policy makers, young researchers and NGOs from India and abroad. These participants included 34 foreign delegates representing 17 countries. There were 62 oral presentations and 200 poster presentation during the conference. This conference was rated as one of the best four conferences held earlier by the global effort promoted by **University of California, Riverside, USA** and **Chulalongkorn University, Bangkok, Thailand.**

During executive committee meeting of the conference an international Steering committee was constituted and Dr. Seema Wahab has been **unanimously selected as Secretary of the international steering committee** for organizing various conference(s) in future in this area. The **6<sup>th</sup> International Conference on Biopesticides** was held in **2011** in **Thailand.**



**DR. TABASSUM JAMAL**

**Title of lecture:** Science & Technology Entrepreneurship Partnership-Promoting Innovation Driven Economies

Dr. Tabassum Jamal is working as Chief Scientist at National Institute of Science Technology and Development Studies (NISTADS), an establishment under Council of Scientific and Industrial Research (CSIR), Government of India, New Delhi. Dr. Jamal with her long experience with CSIR-NISTADS has contributed significantly in the area of Technology and Social Change. She has worked in the areas of National Innovation System, State Science & Technology Councils and Human Resource Development, particularly Technical and Vocational Education and training to promote employable skills. She has done several projects on evaluation and impact assessment of governmental promotional schemes in organized and unorganized sector. Also worked extensively with the state S&T Council of Uttar Pradesh and few other state councils in the area of S&T Policy making, Regional Innovation Systems, Cluster Development programmes and promotion of innovation capabilities. She has been working in the area of public provisioning of skill development, mapping of government initiatives & other agencies and capacity building in skill development. Currently her focus area of research is Science, Technology and Innovation in manufacturing by analyzing the institutional arrangements in the country for innovation and capacity building in MSMEs selected sectors based on primary survey and case studies.

Holding a PhD in Economics, she has published widely in reputed journals beside two books in her credit focusing on Economic and Technical Co-operation in developing Countries. As a faculty of AcSIR, Dr. Jamal is currently teaching a course on Science and Technology Systems: India and the World at CSIR-NISTADS.

Email: [tabassumjamal59@gmail.com](mailto:tabassumjamal59@gmail.com)



## **PROF. OLEG GOLICHENKO**

**Title of lecture:** Public Policy and Failures of National Innovation Systems

Oleg Golichenko (born in 1948) doctor of economic sciences, economist and expert in the field of national innovation systems, worked as the deputy director of Russian Institute for Economics, Policy and Law in Technology Sphere before 2006. In 2006 he moved into research work at the Central Economics and Mathematics Institute of Russian Academy of Sciences. He is currently a chief research associate of the Central Economics and Mathematics Institute, an academician of International Academy of Institutional Science, a member of Experts Board of the Higher Attestation Commission of the Russian Ministry of Education and Science. Oleg Golichenko is also a professor of subdepartment of Intellectual Property Economics of Innovation and High Technologies Department of Moscow Institute of Physics and Technology (Technical University). For ten years he has been a professor of the Administration of Public Administration Department of Higher School of Economics (State University).

He graduated from Moscow Physics and Technique Institute in 1973, received the degree of PhD in 1978 and the degree of doctor of economic sciences in 2000, In 2012, Oleg Golichenko received the academic status of full professorship from the Higher Attestation Commission of the Russian Ministry of Education and Science. He is one of the founders of Russian scientific school of national innovation systems, a leader scientist in the field of system methodology of social economic research, theory and practice of simulation of processes of economic growth on various levels of economic hierarchy. During the last 18 years, his research is organized around a broad set of issues related to the national innovation systems (NIS), investigation of innovation development processes on the base of micro and macro economic levels of interactions, elaboration of social economic and innovation policy addressed to country development driven by innovation.

The main scientific results are including the following. He has developed the multilevel approach of NIS analysis; proposed the system indicators of NIS state and the NIS processes classification, that allow detecting bottlenecks and defects of the NIS; created the statistic and verbal description of the map of National Innovation System; investigated the role of public policy, private business and special institutions supporting innovation activity;

He is an author of more than 300 scientific publications. He wrote or co-authored 24 books. Among the book written him personally are the following ones.

*The Basic Factors for Development of the National Innovation System: Lessons for Russia* (in Russian with an abstract in English). Moscow: Nauka, 2011.

*National Innovation System*, Textbook, (in Russian). Moscow: MIPT, 2010

*The National Innovation System of Russia: Condition and Ways of Deployment* (in Russian with an abstract in English). Moscow: Nauka, 2006.

*Innovation System in Russia: Model and Perspective of Development* (in Russian). Moscow: PFUR, 2002 (Issue 1).

*Innovation System in Russia: Model and Perspective of Development* (in Russian). Moscow: PFUR, 2003 (Issue 2).

Among the co-authored books it's worth to point out "Quality Innovation: Knowledge, Theory, and Practice" (In English 2013) and "The Public Policy in NIS and its Actors Behavior Models (In Russian 2016).

He prepared and delivered the lectures on 'National Innovation System' and 'Actual Problems of Public Innovation Policy' in Moscow Institute of Physics and Technology and Higher School of Economics.



**DR R. K. BHANDARI**

**Title of lecture:** Strengths and Vulnerabilities of Small Nations- A disaster risk reduction perspective

Dr R. K. Bhandari is a distinguished alumnus of IIT, Bombay, best known internationally for his outstanding professional contributions in diverse areas of disaster mitigation and management, over the period of the last five decades. He is the only Indian so far to have received the coveted Varnes Medal, the highest International award for 2012 given at the UNESCO Headquarters in Paris for excellence in Landslide studies. Inter alia, he has served India as a member of the High Powered Committee on Disasters of the Government of India, and of the Core Committees of NDMA on Earthquakes and Landslides. Currently, he is the Chairman of the Forum on Disaster Mitigation of the Indian National Academy of Engineering; a Member of the National Advisory Committee of NDMA and the Chairman of the Indian Roads Congress Committee on Disaster Mitigation. He is also a member of the Research Council of CRRI, CBRI, SERC and NEERI



## **PROF. ASHWINI KUMAR NANGIA**

**Title of lecture :** Science outreach to society by CSIR-NCL

**Prof. Ashwini Kumar Nangia**, School of Chemistry, University of Hyderabad took over as the eleventh Director of CSIR-National Chemical Laboratory (CSIR-NCL), Pune on 29th February 2016.

Prof. Nangia obtained his M.Sc. in Chemistry from I.I.T. Kanpur in 1983, and was awarded the Ph.D. degree of Yale University in 1988. He worked in NOCIL Agrochemicals R&D Centre, Navi Mumbai, for a year and then joined the School of Chemistry, University of Hyderabad as a Lecturer in 1989 where he rose to the position of Professor of Chemistry in 2001.

Prof. Nangia established his research group working on the synthesis of natural products and enzyme inhibitors; and continued research in this field till about 1995. He then shifted focus to supramolecular chemistry, importantly on crystal engineering in the second half of the 1990s. He established an active research program in the emerging topics of host-guest inclusion compounds, hydrogen bonding, inter-halogen interactions, polymorphism, and cocrystals; and made seminal contributions over the next decade. From 2005 to the current time, his research group continues to direct efforts on solid-state pharmaceutical cocrystals, polymorphs and eutectics with the idea of drug translation to make improved medicines.

Prof. Nangia was Young Associate of the Indian Academy of Sciences, Bangalore (1992-1995) and awarded the Raja Ramanna Fellowship by DST. He is also a JC Bose National Fellow of DST. He is an elected Fellow of the Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi, National Academy of Sciences (India), Allahabad, and AP/TS Akademi of Sciences, Hyderabad. He is a Fellow of the Royal Society of Chemistry, London.

Prof. Nangia serves on the Editorial Board of international journals in chemistry and crystallography, including CrystEngComm (RSC) and Crystal Growth & Design (ACS). He is on the Advisory Board of Chemistry - An Asian Journal (Wiley-VCH) and Journal of Pharmaceutical Sciences (Wiley). He served as an Associate Editor of ACS journal Crystal Growth & Design (2008-2011). He was a member of INSA National Committee on Crystallography (2008-2015) and currently on the Structural Chemistry Commission of IUCr. He has guided about 25 Ph.D. scholars at the University of Hyderabad and has published over 200 research papers in international peer reviewed journals including several reviews and patents. He has international research collaborations with Russia, Singapore, China, UK and USA.



## LOIKKANEN, TORSTI VELI ILMARI

**Title of lecture:** Perspectives on from a Small Open Industrialized Economy, Finland

### Personal information

First name(s) / Surname(s) **LOIKKANEN, Torsti Veli Ilmari**  
Address(es) Vuorimiehentie 5, Espoo, P.O.Box 1000, FI-02044 VTT, FINLAND  
Telephone(s) Fixed +358 20 722 4250 Mobile: +358 40 530 2587  
Fax(es) +358 20 722 5888  
E-mail torsti.loikkanen@vtt.fi  
Nationality Finnish  
Date of birth 26.09.1948  
Gender Male

### Desired employment / Occupational field

Research /  
Socio-economic innovation and innovation policy studies in developed and developing economies (knowledge economy, information economy, globalization, foresight, impact assessment, policy studies, sustainable development, corporate social responsibility).

### Work experience (selected)

Dates Since November 2016 -  
Occupation or position held Innovation Policy Researcher and Consult  
Main activities and responsibilities Science, Technology and Innovation Policy Research and Consulting

Name and address of employer Sapar Oy (Ltd), Ohjaajantie 22 A 4, 00400 Helsinki, Finland

Type of business or sector Research and Consulting in Science, Technology and Innovation Policies

Dates Since January 2008 till October 2010  
Occupation or position held Principal Scientist  
Main activities and responsibilities Research of innovation and innovation policy studies at VTT

Name and address of employer VTT Technical Research Centre of Finland, P.O.Box 1000, FIN-02044 VTT, FINLAND

Type of business or sector Public research organisation

Dates From January 2006 till December 2007

Occupation or position held Senior Research Scientist, Customer Manager

Main activities and responsibilities Research, research coordination and customer management of innovation policy studies

Name and address of employer VTT Technical Research Centre of Finland, P.O.Box 1000, FIN-02044 VTT, FINLAND

Type of business or sector Public research organisation

Dates From November 2001 till December 2006

Occupation or position held Research Manager

Main activities and responsibilities Research coordination and management of innovation policy studies

Name and address of employer VTT Technical Research Centre of Finland, P.O.Box 1000, FIN-02044 VTT, FINLAND

Type of business or sector Public research organisation

Dates From August 1997 till October 2001

Occupation or position held Group Manager

Main activities and responsibilities Research management of industrial environmental economics

Name and address of employer VTT Technical Research Centre of Finland, P.O.Box 1000, FIN-02044 VTT, FINLAND

Type of business or sector Public research organisation

## Education and training

Dates May 1981

Title of qualification awarded Master of Science, Economics

Principal subjects/occup. skills covered General macro and micro economics, training of professional economist, economics of technical change.

Name and type of organisation Economics Department of The University of Helsinki, Finland.

Dates May 2003

Title of qualification awarded Master of Business Administration (MBA) Program "VTT Executive" (2002-2003)

Principal subjects/occup. skills covered Leadership and strategic management of applied R&D organization

Name and type of organisation Helsinki School of Economics and Administration

Mother tongue(s) Finnish

Other language(s)

Self-assessment

European level (\*)

**English**

**Swedish**

**German**

**Russian**

**French**

**Understanding**

Listening

Reading

**Speaking**

Spoken interaction

Spoken production

**Writing**

	Listening		Reading		Spoken interaction		Spoken production		Writing	
<b>English</b>	C2	Proficient	C2	Proficient	C2	Proficient	C2	Proficient	C2	Proficient
<b>Swedish</b>	C2	Proficient	C2	Proficient	C1	Proficient	C2	Proficient	C2	Proficient
<b>German</b>	B1	Independent	B1	Independent	A2	Basic	A2	Basic	A2	Basic
<b>Russian</b>	A2	Basic	A2	Basic	A2	Basic	A2	Basic	A2	Basic
<b>French</b>	A2	Basic	A2	Basic	A2	Basic	A2	Basic	A2	Basic

*(\*) Common European Framework of Reference for Languages*

Social skills and competences	Good communication in multicultural environments, gained through broad international collaboration contacts (e.g. Asian countries China, India, Japan)
Organisational skills and competences	Management and leadership skills, gained during over ten years experience from duties of research group manager, research director, customer manager and research coordinator, as well as from MBA (see Work experience and Education and training).
Technical skills and competences	Development and use of quantitative and qualitative evaluation and impact assessment methodology and indicators in the analysis of industrial R&D and innovation and of innovation policy, policy intervention and policy instruments and organisations, in both developed and developing economies (economics, surveys, interviews, case studies; patent analysis; see Selected publications). Experience with quality assurance, gained through (1) working with QA issues of national technical research institute, and (2) in research projects on environmental quality standards and Corporate Social Responsibility (e.g. ISO 14000, forthcoming ISO 26000).
Computer skills and competences	Good command of conventional Microsoft programs, experience of using Apple computers.
Artistic skills and competences	Oil painting and graphics as hobby (some art exhibitions), music as hobby (piano, accordion).
Other skills and competences	Hobbies: construction and renovation of an old farm house, jogging, cross-country skiing.
Driving licence	Driving licence A and BE.

**Annex** List of selected publications attached.

Helsinki, 29 October, 2017



**PROF. SHAHID S. SIDDIQUI**

**Title of lecture:** Bridging the Technology Gap, Intellectual Property and Small Nations.

**Name:** **Shahid S. Siddiqui**

**Address:** 422 Vine Court, Wilmette, IL 60091  
Phone: 847-853-8693  
Fax: 847-853-8793  
[ssiddiqui@gmail.com](mailto:ssiddiqui@gmail.com)

**AFFILIATION:**

Associate Professor (Research Associate)  
Department of Medicine  
Pulmonary & Critical Care Unit,  
University of Chicago  
5841 S. Maryland Avenue, MC 6026, Room  
M660  
Chicago, IL 60637  
Phone: 773-834-6908  
Fax: 773-702-6500  
[ssiddiqui@bsd.medicine.uchicago.edu](mailto:ssiddiqui@bsd.medicine.uchicago.edu)

**CITIZENSHIP** USA

**EDUCATION:**

- 1972-1978: Ph.D. Molecular Biology, Tata Institute of Fundamental Research, University of Bombay, India
- Thesis: Biochemical and Developmental Genetics of *Caenorhabditis elegans*.
- Mentors: Prof. O. Siddiqi, Dr. P. Babu, and Dr. Sydney Brenner
- 1969-1971: M.Sc. Biochemistry (First Division, *cum laude*), A. M. University, Aligarh, India
- 1966-1969: B.Sc. Physics (Distinction, *cum laude*), J. M.I. University, New Delhi, India
- 1978-1981: Post-Doctoral Training, Max Planck Institute for Experimental Medicine, Gottingen, Germany

## **PROFESSIONAL EXPERIENCE:**

April 2007 –

Research Associate [Associate Professor], Department of Medicine, Section of Pulmonary and Critical Care,  
Division of the Biological Sciences & the Pritzker School of Medicine, Chicago, IL 60037

- 1999-2007 Associate Professor, Dept of Pharmacology, College of Medicine, University of Illinois at Chicago, Chicago, IL 60612
- 1986-1999 Associate Professor, Head, Laboratory of Molecular Biology, Dept of Ecological Engineering, Toyohashi University of Technology, Japan
- 1997-1998: Visiting Faculty, Dept of Biochemistry, Molecular Biology & Cell Biology, Northwestern University, Evanston, IL 60208, USA
- 1981-1986 Senior Research Associate, Instructor, Dept of Biochemistry, Molecular Biology, Cell Biology, Northwestern University, Evanston, IL
- 1978-1981 Max-Planck-Society Postdoctoral Fellow, Max-Planck-Institute for Experimental Medicine, Gottingen, Germany
- 1978-1981 Lecturer: Faculty of Mathematics and Philosophy
- 1972-1978 Visiting Member: School of Physics and Mathematics, Molecular Biology Unit, Tata Institute of Fundamental Research, Bombay, India
- 1972-1972 Senior Technical Associate: Central Sheep & Wool Research Institute, Avikanagar, Rajasthan, India

## **HONORS and External Recognition:**

**2011:** American Thoracic Society, 2011 International Conference Denver Colorado, Facilitator Thematic Poster Session & Discussion Leader, “Endothelial Barrier Function”

**2010:** Chairman, Session on Science Policy on Environment and Resources; UNESCO and ZSF South Asia Science Policy Scientists Conclave, New Delhi

**2010:** American Thoracic Society 2010 International Conference, New Orleans, Facilitator, Thematic  
Poster Session: In search of Biological & Genetic Markers in Lung Injury

**2009:** Gordon Research Conference, Vascular Cell Biology, Ventura, USA

**2008:** Chairperson, International Conference on Developmental Biology, November 2008, Okinawa Institute of Science & Technology, Okinawa, Japan.

**2008:** Chairman: MicroRNA Club, University of Chicago, Chicago

**2008:** Gordon Research Conference: Post-Transcriptional Regulation of Gene Expression, Colby College, Waterville ME, USA

**2007:** UNESCO : Capacity Building in Science & Technology in South Asia Region, Session Chair and Invited Talk at Indian National Science Academy, New Delhi, November 2007.

**2004-2006: Member Scientific Advisory Board, Neopharm Inc. Deerfield, IL.** The liposome drug delivery corporation uses cardiolipin based cationic liposome (Neophectin) for the delivery using NeoLipid(R) Liposomal Drug Delivery platform for the delivery of CINTREDEKIN BESUDOTOX (IL13-PE38QQR), SN-38 a topoisomerase inhibitor.

**2002: Member NIH, IRG Team for Infectious Diseases & Microbiology.** The steering committee sets the research priorities for a given area helping the National Institutes of Health in allotting funds for competitive research grant proposals.

**Associate Editor: Nanobiology** (1994-2000). I am among the founding board member and associate editor of the journal in 1994 originally conceived by Prof. Stuart Hameroff of University of Arizona Medical School Tucson, AZ, following an International Workshop sponsored by NATO, and DRAPA for the studies related on emerging properties of coherent systems in biological information processing. The journal was initially published by Carfax publishers, UK.

**Peer Reviewer:** Science, Developmental Biology; American J, of Physiology (Lung- Cell & Molecular Mechanisms), J. Biological Chemistry, Nanobiology, Genome Research, J. Cell Biology, journal of Microvascular Research, PLoS ONE Open access journal.

**Teaching Graduate Courses:** Taught Graduate Courses in Genetics, Biochemistry, Molecular Biology; Tata Institute of Fundamental Research, University of Bombay; 1976-1978. Undergraduate and Graduate Courses in Faculty of Philosophy & Mathematics; Georg August University, Gottingen, Germany, 1978-1981; Graduate Seminar in Biological Sciences, Northwestern University, Evanston, IL 1981-1985; Graduate and Undergraduate Courses in Biology, Molecular Biology, Ecological Engineering, Pharmacology, Genetics, Drug Delivery, Physiology and Cell Biology at Toyohashi University of Technology, Toyohashi, Japan, 1986-1999; Graduate Seminar in Pharmacology, Genetics, and Molecular Biology, University of Illinois, Chicago, IL, 1999-2007. Advanced topics in Molecular Biology; MicroRNA Club, University of Chicago, Chicago, IL 2008-2009. Supervisor, PSOMER, summer student's research program for underrepresented minority communities: Pritzker School of Medicine, University of Chicago, Dept of Medicine, 2007-2011.



**PROF.DR. ZAHID H. KHAN**

**Title of lecture:** Open Educational Practices for Improving the Quality of Science Education

Dr. Zahid H. Khan has been a Full Professor of Physics in Jamia Millia Islamia - Central University, New Delhi, India from 1994 to 2015, where he served for more than 39 years. He obtained Ph.D.,M.Phil.,M.Sc. (1969) and B.Sc. degrees from Aligarh Muslim University, Aligarh, India. His research interests are primarily in molecular and laser physics, materials characterization and environmental science. He has published more than 60 research papers in peer-reviewed international and national journals and guided 15 research scholars leading to their Ph.D. degrees.

Dr. Khan has been a DAAD Fellow at the Ludwig Maximilian University, Munich, Germany (1980-1981) and Free University Berlin (1981-1982). He has also been a Visiting Scientist in the Kaiserslautern University, Germany. Recognizing his outstanding commitment and leadership in promoting Indo-German Relations in the field of education, he was awarded the title of Honorary DAAD Advisor by President of DAAD.

Prof. Khan has vast experience in university administration and has served twice as the Registrar of the University. He is an expert in university laws and had been the Chairman of the Standing Committee for Act, Statutes and Ordinances of the University from 2007 to 2014. Simultaneously, he also served as the Director of FTK-Centre for Technology of the University from 1998 to 2014, and subsequently as its Honorary Advisor. Under his leadership, a state-of-the-art ICT infrastructure was created in the University, together with implementation of ERP system and e-governance. Recognizing his rich experience in higher education and ICT, the Ministry of Human Resource Development, Government of India, coopted him as a member of the Standing Committee for the National Mission of Education Through ICT (NMEICT).

Following declaration of 2015 as the International Year of Light and Light-based Technologies (IYL 2015), the UNESCO nominated Prof. Khan as a National Contact for India for IYL 2015. During the same year, he was also nominated as a member of the Steering Committee of the International Working Group on Ibn Al-Haytham, as part of the UNESCO initiative. Currently, Prof. Khan is a Vice-President of the Ibn al-

HaythamLHiSA(Light, History, Science and Applications) International Society, with its headquarter in Paris, France.

Prof. Khan has travelled extensively and delivered invited lectures in India and abroad. He also participated in various thought leadership forums. Prof. Khan has been member of committees in various Indian universities and has been providing them advisory services on diverse issues ranging from academic excellence to effective governance.



### **DR RAM BOOJH**

**Title of lecture:** Science Diplomacy and Sustainable Development Goals

Dr Ram Boojh is a Senior Programme Officer in the Natural Science Unit at the UNESCO Cluster Office for South Asia in New Delhi. He leads the Environment programme overseeing planning, implementation and management of ecological and earth sciences activities, CliCK (Climate Change Knowledge) Partnership, MAB (Man & the Biosphere) programme, World Heritage (Natural) and Education for Sustainable Development programmes. He coordinates the Intergovernmental SACAM (South and Central Asian MAB) Network as its Secretary and has initiated many collaborations in countries of South Asia and Afghanistan, Iran and Central Asian Republics. He has been visiting professor/scientist/fellow at several prestigious universities/institutions in India and abroad including Universities of Manchester and Bradford, Massachusetts Institute of Technology (MIT), University of Michigan, and Environmental Law Institute Washington DC. He joined with Mr Al Gore, Noble Laureate and former US Vice President to train around 550 Climate Leaders from around 60 countries under the Climate Reality Project during February 2015 in New Delhi. He is the co- founder of the World Ocean Network and executive Board member of the Conservation for the Oceans Foundation and has chaired the World Ocean Passport project of the World Ocean Network.

He has successfully coordinated a large number of programmes during his 30 years career of working with the academic institutions, voluntary sector, Government and international organizations. He has a distinguished academic career with Doctorate in Ecology and recipient of many awards and honours including the Indian National Science Academy Medal for Young Scientists presented by Mrs Indira Gandhi, then Prime Minister of India in January 1984..He has Published over 100 research/technical papers / popular articles and 15 books.



## **SHCHEPINA IRINA**

**Title of lecture:** Best Practices in local Development (Russian experience)

**Name** Shchepina Irina

**Date of Birth:** 27/11/1962

**Phone:** +79036511313

**E-mail:** shchepina@mail.ru

**Place of work:** Voronezh State University (VSU)

**Work Address:** 394068 Russia, Voronezh, st.Holzunova 42B, 308

**Work Phone:** 8 (473) 266-17-54 (ext. 210)

**Fax:** +7 4732 210722

### **Education and Degrees:**

**2013** - Doctorate of Sciences\* (PhD) in Economics (Central Economics and Mathematics Institute Russian Academy of Science);

**2001–2005** Post-doctor course “Mathematical and Instrumental Methods in Economics”, Central Economics and Mathematics Institute Russian Academy of Science;

**1998** - Diploma of Associate Professor

**1991** - Candidate of Sciences\* (PhD) in Economics (Central Economics and Mathematics Institute Russian Academy of Science);

**1988 –1991** - PhD in Economics “Mathematical Methods in Economics”, Central Economics and Mathematics Institute Russian Academy of Science;

**1980-1985**–Diploma (Applied Mathematics) (Voronezh State University, Department of Applied Mathematics and Mechanics, Chair of Mathematical Methods of Operations Research).

\* Candidate, Doctorate of Sciences

According to the International Standard Classification of Education (ISCED) 2011, Candidate of Sciences belongs to ISCED level 8 - "doctoral or equivalent", together with PhD, DPhil, D.Lit, D.Sc, LL.D, Doctorate or similar. Candidate of Sciences allows its holders to reach the level of the Associate Professor.

### **Professional experience:**

**1993 – Present-** Associate Professor (Voronezh State University, Department of Economics, Chair of Information Technologies and Mathematical Methods in Economics)

*Main activities and responsibilities teaching:* Mathematical Models and Methods in Economics, Mathematical Models and Methods in Management, Mathematical Programming, Models in Economic Systems, Probability Theory and Mathematical Statistics, Operation Research, Innovation Models, Micro and Macromodeling, Econometrics, Game Theory.

**2015 – Present-** Deputy Dean of the Economic Faculty for Research and Development (Voronezh State University).

**2014 – Present–** Head of the Joint laboratory of system modeling of socio-economic processes VSU and CEMI RAS

**2013 – Present–** Professor (Voronezh State University, Department of Economics, Chair of economic theory and world economy)

*Main activities and responsibilities teaching:*Micro and Macromodeling, Contract Theory, System analysis, Multivariate statistical analysis.

**1999 –Present-** Associate Professor (Voronezh State University, Department of Applied Mathematics and Mechanics, Chair Mathematical Methods of Operation Research)

*Main activities and responsibilities teaching:* Models and Methods in Economics, Innovation Models, General Equilibrium Models, Econometrics, Contract Theory.

**1997 – Present-** Associate Professor (Business School, Voronezh State University)

*Main activities and responsibilities teaching:*Mathematical Models and Methods in Management, Operation Research, Econometrics (for BBA, MBA, Programme of Training Managers and Executives for the Enterprises of National Economy of the Russian Federation).

**2005 – Present–**Leading Scientific Research Fellow in Central Economics and Mathematics Institute, Russian Academy of Science (Moscow)

*Main activities and responsibilities economic modelling:* innovation models, social-economic modeling.

**2003 –2006-** Associate Professor (Voronezh Institute of Marketing, Management and Finance, Department of Business Administration)

*Main activities and responsibilities teaching:* Mathematical Economics

**1985 –1988 -** Programmer in Development Software for Program-Technical Complex of Automatic Defence (Voronezh R&D Institute of Automatics - NPO "Himavtomatika")

**1985 –1985 -** Laboratory Assistant (Voronezh State University, Department of Applied Mathematics and Mechanics, Laboratory of Operations Research)

*Main activities and responsibilities:* economic modelling and operations research

### **Research Experience:**

**2016-2017 -** A head of the Project of Russian Humanitarian Research Foundation (RHRS) № 16-12-36007 «Development of a methodological approach to the analysis of growth points of municipalities and their impact on the socio-economic

development of the Voronezh region (on the basis of a comprehensive analysis of the bases of regional and municipal statistics)»;

**2016-2018** - A Member of the research team in the Project of Russian Foundation for Basic Research (RFBR)№16-06-00535 a "Development of a set of optimization mathematical models, methods and algorithms for improving the efficiency and quality of labor market management and employment in the region";

**2014-2016** - A Member of the research team RHRS project No. 14-02-00018a "Methodology of Analysis and Monitoring of Innovative Systems at the National and Regional Levels",

**2014-2016** – A Member of the research team Russian Science Foundation (RSF) No. 14-18-01590 "Theory and Practice of Formulating the State Policy and the Strategy of Actors in the National Innovation System",

**2013 - 2014**– A Member of the research team in the Project of Russian Humanitarian Research Foundation (РГНФ) № 13-12-36004 "Development of urban settlements of the Voronezh area: the effect of asynchrony, strategic management, benefits and risks";

**2011-2013** - A Member of the research team in the Project of Russian Humanitarian Research Foundation (РГНФ)№ 11-02-00656 a"Analysis of risks of innovation activities and their factors";

**2011-2013** - A Member of the research team in the Project of Russian Humanitarian Research Foundation (РГНФ) №11-02-00426 a "Analysis of development factors of the national innovation system in Russia".

**2009-2012** - Project of the Minorbnauki: "Artificial societies: methodology, modeling, learning, teaching" (participant).

**2009-2011**- the project of the Seventh Framework Program FP7: "SUST-RUS - Interregional Economic and Environmental Model for Measuring Measures Towards Sustainable Development of the Russian Federation"(participant),

**2009-2011** - A Member of the research team in the Project of Russian Humanitarian Research Foundation (РГНФ) № 09-02-00-303 a/a "Development and transformation of the national innovation system as a means of gaining competitive positions in global value chains",

**2008-2010**A Member of the research team in the Project of Russian Humanitarian Research Foundation№08-02-00314a "Research of framework conditions for innovation activity and development of basic directions for their improvement",

**2006-2008** -A Member of the research team in the Project of Russian Humanitarian Research Foundation№06-02-04011a "Theory and practice of forming national innovation systems",

**2004-2006**- HESP:International Regional Program for Improving the Quality of Teaching "Money and Economic Growth: Theory and its Empirical Research"(participant).

**1999-2000** “Modernization of Enterprises: Factors, Strategies and Trends” (INCO COPERNICUS) (Bremen, Germany; Soloniki, Greece; Galvey, Ireland; Voronezh, Russia; Lugansk, Ukraine) (Participant)

**1998-** Project TACIS “Research in Strategic Planning of University Development” (Voronezh, VSU, Russia; Leuven, Belgium, Catholic University of Leuven; Granada, Spain, University of Granada; Universiti of Galwey, Ireland) (Participant)

**1995-1996** Modeling of Structure Shifts and Analysis of Alternatives of Development under Condition of a Transitional Economy (Voronezh State University) (Participant)

**1990-1993-** The Model of Diffusion and Substitution of Innovations (CEMI RAS) (Participant)

**1990-1992-** Mathematical Models of Development of Agriculture Sector (CEMI RAS, Centre for World Food Studies, FUA, the Netherlands) (Participant)

**1988-1990-** Development of Models and Procedures for Consumer Price Negotiation (Institute of Socio-Economic Issues in Demography AS USSR, Concern ESTLEGPROM) (Participant)

**1985-1987-** Development Software for Program-Technical Complex of Automatic Defence (PTKAZ). (Voronezh R&D Institute of Automatics, NPO "Himavtomatika") (Participant)

**1984-1985-** Application of Integrative Indicators for Estimation of Efficiency of Reclamation Object (Voronezh State University) (Participant)

#### **Research interests:**

Modeling of social and economic processes, innovations, regional economy, econometrics, multidimensional statistics, operations research, economic growth, regional development,

#### **Additional Information:**

**2014, 2015, 2016, 2017** - Project RFBR The project of organization of International scientific conference - school-seminar "System modeling of social and economic processes" them. acad. S.S. Shatalin(Head);

**2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013** - Project RFBR The project of organization of International scientific conference - school-seminar "System modeling of social and economic processes" them. acad. S.S. Shatalin(Coordinator);

**2006**–Summer school OSI/HESP Regional Seminar for Excellence in Teaching «Moneyand Economic Growth: Linking Theory and Evidence» (HESP, OSI) (Coordinator)

**2004-2006** - OSI/HESP Regional Seminar for Excellence in Teaching«Money and Economic Growth: Linking Theory and Evidence» (HESP, OSI) (Participant)

Within the limits of the project, except for the organization of schools-seminars, has represented itself as the lecturer in a series of lectures " Model with the limited rationality " (VSU), a seminar " Modern directions micro and macroeconomics " (VSU, BelSU), in the master-class " Economics: features of teaching and researches".

**1999-2001** – Program of department support. Megaproject Development of Education in Russia - Higher Education, OSI/ Fund Assistance (Voronezh State University Economic Department Chair EL&BM, NES) (Coordinator)

Took part in project GET NES «FDI in Russia»

### **OTHER PROFESSIONAL EXPERIENCE ABROAD**

**2011** India, Delhi, NISTADS, participation in the International Conference "Social-economic and technological innovations in the globalizing economy: Mechanism and Institutions". Topic of research "The Sustainability of Innovative Behavior of Russian Regions during the Periods of Growth, Stagnation and Recession"

**2001** Denmark, Aarhus, Aarhus University, Traineeship in modelling of innovation processes

**1998** Leuven, Belgium, Catholic University of Leuven. Research in Strategic Planning of University Development.

**1998** Granada, Spain, University of Granada. Research in Strategic Planning of University Development.

**1992** Jerusalem, Israel, The Hebrew University of Jerusalem, The Third Jerusalem Summer School in Economic Theory on "Economic and Information".

**1990** Centre for World Food studies, Free University, Amsterdam, and The Netherlands. Topic of research: Study of Mathematical Models Agricultural Sector Development.

**1990** Free University of Brussels, Belgium, Department of Economic and Econometrics. Lecture on: Mixed Economics.

**1990** The University of Limburg, Maastricht, MERIT (Maastricht Economic Research Institute on Innovation and Technology), The Netherlands. Lecture on: The Models of Diffusion and Substitution of Innovations.

### **MEMBERSHIP AT PROFESSIONAL SOCIETIES**

Membership of Russian and European Association "Woman in Science and Education"

Membership of the New Economic Association

Academician of the International Academy of Organizational Sciences (MAOH)

Member Editorial Board, Proceedings of Voronezh State University. Series:  
Economics and Management

Member of Organizational Committee of the International scientific conference -  
school-seminar "System modeling of social and economic processes" them. acad.  
S.S. Shatalin

**Participation in conferences:**

Participated in more than 100 international scientific and practical conferences.



**SOLOSINA MARIA**

**Title of lecture:** Best Practices in local Development (Russian experience)

**Name** Solosina Maria

**Date of Birth:** 20/03/1989

**Phone:** +79103474310

**E-mail:** maria.solosina@gmail.com

**Place of work:** Voronezh State University (VSU)

**Work Address:** 394068 Voronezh, st.Holzunova 40, 108a

**Work Phone:** 8 (473) 266-17-54 (ext. 209)

**Fax:** 8 (473) 221-07-22

**Education:**

**2012-2015** - PhD student of the Faculty of Economics Voronezh State University;

**2010-2012**- Master of Management (2012 - VSU), the program "Strategic management";

**Fall Semester 2011-2012** studied as an exchange student in the Umea School of Economics and Business (University of Umeå, Sweden).

**2006-2010** - Bachelor of Management, program «Economics and Management of Enterprises».

**Professional experience:**

**From 2015 to present time** – Leading Specialist at Interfaculty Research Laboratory of Economics and Management at Voronezh State University

**2012-2015** Laborant at Interfaculty Research Laboratory of Economics and Management at Voronezh State University

**2013-2014** Lecturer in Economic Department of Voronezh State University. Course « Research Management Systems»

**Research Experience:**

**From 2015 to present time** - A member of research team of the Project of Russian Humanitarian Research Foundation (РГНФ) № 16-12-36007 «Development of a methodological approach to the analysis of growth points of municipalities and their impact on the socio-economic development of the Voronezh region (on the basis of a comprehensive analysis of the bases of regional and municipal statistics)»

**2013 - 2014**– A head of the Project of Russian Humanitarian Research Foundation (РГНФ) № 13-12-36004 "Development of urban settlements of the Voronezh area: the effect of asynchrony, strategic management, benefits and risks."

**2011**–A member of the project team to develop the concept of strategy and economic development and strategic plan for Novovoronezh until 2020.

**2010** –A Member of the research team in a project on network CASE "Russian monotowns: Construction of the socio-economic prospects"

**Research interests:**

Regional economics and management, regional development, project management. Urban development, strategic management, gamification.

**Additional Information:**

December 2016 - Participation in NES CSDSI SUMMER SCHOOL «Cultural diversity and income inequality» (Ekaterinburg, Russia)

July 2015 – Participation in NES CSDSI SUMMER SCHOOL «Culture, Institutions and Diversity» (Ulan-Ude, Buryatia, Russia)

June 2014 –Participation in NES CSDSI SUMMER SCHOOL «Diversity, Social nets and Economic development» (Elabuzhsky Institute of Kazan Federal University, Tatarstan, Russia)

September 2013 -Participation in education game for developing entrepreneurial skills «Bright Future» in the Kingston University London (United Kingdom, Kingston upon Thames).

In 2009-2010, 2010-2011, 2011-2012 I won a scholarship of Oxford Russian Fund and took top places in regional and international student scientific conferences.

**Participation in conferences:**

I have participated in more than 30 scientific and practical conferences at various levels, including in international scientific school "System modeling socio-economic processes" named in honor of academic S.S Shatalin and a scientific-practical conference "Young economies have: economic science through the eyes of young people" Central Economics and Mathematics Institute, RAS.

## Publication:

Published 20 works, including 4 articles in refereed RISC journals.

1. Gogoleva T.N., Petrykina I.N., Solosina M.I., Schepina I.N. Development of the methodology of analysis of settlements based on integrated use of databases of regional and municipal statistics // Proceedings of Voronezh State University. Series: Economics and Management, 2016. - № 4. - P. 166-177.
2. Solosina M.I., Shchepina I.N. Look at the problems of development of small towns in Russia: the Israel experience of urbanization and the project-based approach as a promising direction of development of the territory/ M.I.Solosina, I.N. Shchepina// Finance and Business, 2016. - №4.
3. Petrykina I.N., Solosina M.I., Shchepina I.N. About methods of estimation gross municipal product / I.N. Petrykina, M.I. Solosina, I.N. Shchepina // Region: systems, economy, management, 2016. - № 3(34). –P. 106 – 113.
4. Makarova E.G., Kutuzov M.A., Solosina M.I. System-social planning as a mechanism of social development, territory, public consciousness / E.G. Makarova, M.A. Kutuzov, M.I. Solosina Anthropological reading materials – 2016: Russian scientific-practical conference. – Ekaterinburg, 2016. - P. 181-183.
5. Solosina M.I. Municipal product as a comprehensive indicator economic development of the municipality and its role in the region's economy (in Voronezh region) / M.I. Solosina // Russian scientific-practical conference «The role of small towns in the modern world: current problems and solutions», Bobrov, 2016. – P.32-26.
6. Solosina M.I., Yushkevich Y. S. Perspectives of development Territorial public self-government (TOC) in the Voronezh region / M.I. Solosina, Y.S. Yushkevich // Municipalities in modern regions: problems of research, development, management in the geo-economic and political instability: the materials of the first international scientific-practical conference. - Voronezh, 2016. – P.176-180.
7. Solosina M.I. Development of urban settlements in the Voronezh region: approaches to the evaluation, systemic social design" / M.I.Solosina // Proceedings of the 38th meeting of the International Scientific School-Seminar named in honor of academic S.S Shatalin "System modeling socio-economic processes." - Kazan, 2015.
8. Solosina M.I., Shchepina I.N. "Effect of asynchrony in the development of urban settlements in the Voronezh region: strategic management, benefits and risks," Vestnik of the Voronezh State University, series "Economics and management" – 2014.- № 4. – P. 150-155.
9. Solosina M.I. "Analysis of the socio-economic status of urban settlements Voronezh Region: Issues and Trends" / M.I.Solosina // Modern Economy: Problems and Solutions - 2014. - №11 (59).- P.174-181.
10. Solosina M.I. "Asynchronous development of urban settlements of the Voronezh region" / M.I.Solosina // Proceedings of the 37th meeting of the International Scientific School-Seminar named in honor of academic S.S Shatalin "System modeling socio-economic processes." - Sochi, 2014.
11. Solosina M.I. "Analysis of the socio-economic status of urban settlements Voronezh region» / A.V. Zamaraeva, M.I.Solosina // III International Scientific and Practical Conference "System analysis in economics": conference materials. -

- Moscow, Financial University under the Government of the Russian Federation, 2014.
12. Solosina M.I. "A strategic approach to the management of the territory" / M.I.Solosina // Scientific and Practical Conference "Young economy: economic science through the eyes of youth": conference materials. - Moscow: CEMI RAS, 2014. - P.121-124.
  13. Solosina M.I. Small town of Voronezh region in the XXI century: characteristics, typology, development prospects / M.I.Solosina // Proceedings of the 37th meeting of the International Scientific School-Seminar named in honor of academic S.S Shatalin "System modeling socio-economic processes. - Voronezh: Publishing house of Voronezh State University, 2014. - P. 135-139.
  14. Solosina M.I. Development of urban settlements in the Voronezh region: trends, scenarios, forecasts // Municipalities in the Russian regions (regional studies analysis): Proceedings of the First International interdepartmental scientific-practical conference / Voronezh State University - Voronezh State Pedagogical University, 2013. – P.182- 184.
  15. Solosina M.I. Development monocities strategic approach / M.O. Gladkih, M.I. Solosina M.I. // Problems and prospects of development of single-industry towns: Proceedings of a regional scientific-practical seminar / Voronezh State University. - Voronezh State University, 2013. - P.13-15.
  16. Solosina M.I. Prospects for the development of single-industry towns of the Voronezh region in the context of the urban agglomeration / M.O. Gladkih, M.I. Solosina M.I. // Strategy and resources development of large cities in central Russia: Proceedings of the 3rd International Conference / Voronezh State University. - Voronezh State Pedagogical University, 2012. - P.39-41.
  17. Solosina M.I. Formation of agglomerations and development of single-industry towns in Russia / M.O. Gladkih, M.I.Solosina // The study of socio-economic and political institutions in Russia: the V All-Russia correspondence scientific conference of young researchers and students. - Kirov: Vyatka State University for the Humanities, 2012. - P.132-134.
  18. Solosina M.I. Research territory as a first step to the developing cities for life, not for survive / M.I.Solosina // Innovative dominant social sphere: the annual international scientific-practical conference on the problems of social and labor relations. - Voronezh: Izd. of Voronezh. state. un. Press, 2012. - P. 162-166.
  19. Solosina M.I. World experience of modernization monocities / M.I.Solosina // Modernization of the Russian economy II Regional Research Workshop for the Masters: abstracts, 2010. - Volume 2 - P.40-42.
  20. Solosina M.I. Strategic development of single-industry towns / M.I.Solosina Actual problems of Economics and Management: Theory and Practice: Abstracts of III International student scientific and practical conference: 5 m. - Voronezh: Izd. of Voronezh. state. un. Press, 2010.-Vol II. - P.108.



## **DMITRY Y. SHCHERBININ**

**Title of lecture:** 3D documentation as a modern means of preserving information about objects of a cultural heritage

Dmitry Y. Shcherbinin - PhD (Engineering), Director of S. I. Vavilov Institute for the History of Science and Technology of Russian Academy of Sciences, Moscow, Russia.

Specialty: "System analysis, management and processing of information".

Research interests: history of space exploration, history of cinema-, photo-, video equipment, monuments of science and technology, three-dimensional computer reconstruction and visualization.



**DR. NADIA ASHEULOVA**

**Title of lecture:** The Role of International Professional Associations for Boosting Academic Cooperation and Building Global Networks

Dr. Nadia Asheulova  
 Universitetskaya nab., 5, IHST, St Petersburg, Russia, 199034  
 e-mail: [asheulovana@gmail.ru](mailto:asheulovana@gmail.ru)

*Director* of S. I. Vavilov Institute for the History of Science and Technology of Russian Academy of Sciences, St. Petersburg Branch, Russia  
*President* of the 23 Research Committee on Sociology of Science and Technology (RC23), International Sociological Association  
*Editor-in-Chief* of the Journal “Sociology of Science and Technology”

**Employment**

Institute for the History of Science & Technology, St Petersburg Branch, Russian Academy of Sciences	Director	2015 - present
Institute for the History of Science & Technology, St Petersburg Branch, Russian Academy of Sciences	Academic Secretary	2013-2015
Center for Sociology of Science and Science Studies, Institute for the History of Science & Technology, St Petersburg Branch, Russian Academy of Sciences	Head  <i>Responsibilities:</i> <i>Assistant Editor of the Journal “Sociology of Science and Technology”</i> <i>Vice-Director of the International School for Sociology of Science and Technology</i>	2007-2012

## Honors and Awards

1999	Award for Young Scientists of St. Petersburg
2008	Award for Young Scientists of St. Petersburg Scientific Center of the Russian Academy of Sciences
2014	Bronze Medal of the Russian Society of Sociologists

## Fields of Interests

Sociology of Science & Technology, History of Sociology of Science & Technology, Science & Technology Policy, Academic Mobility, Research Career Development.

## Membership in Professional Associations

23 Research Committee on Sociology of Science and Technology (RC23), International Sociological Association	Member	2006
	Board Member	2010-2014
	President	2014-2018
24 Research Network of Sociology of Science and Technology (RN 24) of the European Sociological Association	Advisory Board	2012-present
	Research Committee on Sociology of Science and Technology of Russian Society of Sociologists	President Vice-President
Zaheer Science Foundation	Foreign expert	2011-present

## Major Publications

*Ащеулова Н. А., Душина С. А.* Мобильная наука в глобальном мире / ред. В. М. Ломовицкая. — СПб.: Нестор-История, 2014. — 224 с.

K. Prpić, I. van der Weijden and N. Asheulova (Eds.) (2014). (Re)searching Scientific Careers. St Petersburg: IHST/RAS - Nestor-Historia – SSTNET/ESA.

Socio Economic and Technological Innovation: Mechanism and Institutions (2014) Eds. Mandal K., Asheulova N., Kirdina S. Narosa Publishing House Pvt.LTD. New Delhi. 540 p

Special Issue on the 100th anniversary of Robert K. Merton's birth / Edited by Nadia Asheulova // *Sociology of Science and technology*, Volume 1, Number 4, 2010, 227 pp.

Liberalizing Research in Sciences and Technology. *Studies in Science Policy* / Eds. Nadia Asheulova, Binay Kumar Pattnaik, Eduard Kolchinsky, Gregory Sandstrom. St.Petersburg: Politechnika, 2010, 681 pp.

Kumar, N, Asheulova, N. Comparative Analyses of Scientific Output of BRIC Countries // *Annals of Library and Information Studies*. Vol. 58, September, 2011. P. 228 – 236

## Participation in Conferences and Seminars

RC23 ISA Workshop “Using Science Policy to Facilitate Innovation, Excellence and Global Cooperation”, 18-19 September, Russia, Saint-Petersburg

13th conference of the European Sociological Association “(Un)Making Europe: Capitalism, Solidarities, Subjectivities”, **Athens, 29 August - 01 September, 2017**

**Third ISA Forum** “The Futures We Want: Global Sociology and the Struggles for a Better World” Austria, Vienna, 10-14 July, 2016

12 th conference of the European Sociological Association, “**Differences, inequalities and sociological imagination**”, Prague, Czech Republic, 25 -28 August, 2015

[XVIII ISA World Congress of Sociology](#), “Facing an Unequal World: Challenges for Global Sociology”, Yokohama, Japan, 2014

11th conference of the European Sociological Association, “**Crisis, Critique and Change**”, Turin, Italy, 28-31 August, 2013

[Second ISA Forum of Sociology](#), “Social Justice and Democratization”, Buenos Aires, Argentina, 2012

**10th Conference of the European Sociological Association, “Social Relations in Turbulent Times”, Geneva, Switzerland, 6-11 September, 2011**

*International Conference* “Socio-economic and technological innovations in the globalizing economy (STIGE-2011): Mechanism and Institutions”, 2-5 November, 2011, New Delhi, India

[XVII ISA World Congress of Sociology](#), Sociology on the Move, Gothenburg, Sweden, 2010

World Conclave of Scientists on “Regional Cooperation in Science & Technology: Opportunities and Challenges in the context of Globalization”, 26–29 November, New Delhi, India, 2010

International Conference “Liberalizing Research in Science and Technology: Studies in Science Policy”, 4-6 February, Kanpur, India, 2009

[First ISA Forum of Sociology](#), “Sociological Research and Public Debate”, Barcelona, Spain, 2008

**8th Conference of the European Sociological Association, “Conflict, Citizenship and Civil Society”, Glasgow, 3rd - 6th September, 2007**

International Forum “Reform in Science and Technology in China and Russia: Theory and Practice”. Beijing, China, 2005

4S / EASST Conference. Vienna, Austria, 2000

4th ESA Conference, “**Will Europe Work**”, Amsterdam, 18 - 21 August 1999



**DR. Y. MADHAVI**

**Title of lecture:** Public Health in Small Nations: The Capacity building

Dr. Y. Madhavi is Sr. Principal Scientist at National Institute of Science, Technology and Development Studies (NISTADS), is a biologist by training with Ph.d (1991) in life sciences from Jawaharlal Nehru University (JNU), New Delhi, joined NISTADS in 1992. She has been working in NISTADS for the last 20 years on the vaccine S&T developments in India and its impact on society and implications for policy. She explored areas such as drug policy, drug price control, industry-institute interactions in Vaccine R&D and production, before identifying and developing “Vaccine STS and Policy” as a niche area of research for the first time in NISTADS and the country at large.

Published 25 research papers in reputed national and international journals so far. Published articles in popular print media, few book chapters, a bulletin on "Affordable healthcare" and a guest editor for MFC bulletin on immunization [July-Nov 2016 issue]. Organised 2 workshops on health economics and Sustainable Evidence based National Vaccine Policy.



## **DR. SUNIL BABUSHRESTHA**

**Topic of lecture:** Road map for the development of Science, Technology and Innovation in Nepal

**Dr. Sunil Babu Shrestha** is a member of National Planning Commission with portfolio covering Housing and Urban Development, Water Supply and Sanitation, Local Development and Federal Affairs, and Public Private Partnership. He had also served in the same position earlier in 2009. Dr. Shrestha has gained more than 20 years experiences, working in different organizations (Private, Government and Non-government) in various professional and administrative capacities.

Dr. Shrestha had Bachelor Degree in Civil Engineering and Master of Science in Urban Planning from Institute of Engineering, Tribhuvan University, Nepal. He earned Doctor of Engineering in Environmental Development Engineering in 2004 from Osaka Sangyo University (OSU), Japan. He trained from Institute for Housing and Urban Development Studies (IHS), Rotterdam University, Netherland in Urban Management Tools for Climate Change; from Weitz Center for Development Studies, Israel in Green Economy-Policy Measures and Implementation of Green Growth; from The Institute for Public-Private Partnerships (IP3) USA, in Infrastructure Project Financing Strategies and Techniques and from Asian Institute of Technology (AIT) Thailand, in Public Private Partnership in Urban Environment Management.

Dr. Shrestha is also an Academician of Nepal Academy of Science and Technology (NAST). He has authored a book called A Sustainable City Planning Methodology for 21st Century (Concept of Food Green City) and had number of peer reviewed articles. Dr. Shrestha has involved mainly in research, consultancy, training, development and innovation activities.

He was honoured with many medals and awards like Science and Technology Youth Award (2011) from Nepal Academy of Science and Technology; Youth Talent Award (2010) from Government of Nepal, Ministry of Youth and Sports; Excellent Youth Award with Gold Medal (2009) from Nepal Jaycees; Youth Professional Award (2009) from Nepal Engineers Association etc. for his special contribution to the science and technology, engineering and environment field.

He is active life members of the professional societies like Nepal Engineers' Association (NEA), Regional and Urban Planners' Society of Nepal (RUPSON), Nepal Phd Association (NPA), Nepal Forum for Environmental Journalists (NEFEJ), Nepal GIS Society (NGIS) and Nepal Council of World Affairs (NCWA).



**PROF. DR. JIBA RAJ POKHAREL**

**Title of lecture :** Science and Technology in Nepal

Dr. Pokharel is a retired professor of Architecture and Urban Planning in the Institute of Engineering of the Tribhuvan University of Nepal. He is currently the Vice Chancellor of Nepal Academy of Science and Technology. He is also the academician of the Academy.

Professor Pokharel has specialized in architectural conservation. He is the designer of the temple dedicated to Maya Devi who is the mother of Buddha's located in Lumbini in Nepal. His other area of research is in the area of disaster risk reduction technologies mainly fire, earthquake, landslide and floods apart from housing and urban planning.

Dr. Pokharel is the author of five literary books in architecture, culture and Disaster Risk Reduction. His book entitled *Architecture, Oh! Architecture* is written using Shakespearean sonnets. Another book *Sikchhak Sishya Sambad* ( Student Teacher Dialogue) is an architectural epic written using classical meters. He writes regularly for the Himalayan Times, the English daily newspaper of Nepal. Professor Pokharel has presented several papers in national and international forum on Architecture, Disaster and Science as well as Technology.

Professor Pokharel is the former Dean of the Institute of Engineering and also the former President of Nepal Engineers Association. He is also a former member of Nepal Engineering Council. Professor Pokharel is also the former President of the Society for Democratic Thinking of Nepal.

Professor Pokharel has been decorated with Mahendra Vidhya Bhusan medal for his academic excellence. Further, Gorakha Dakshin Bahu second was awarded to him for his academic leadership as the Campus Chief of Eastern Region Campus Dharan.



### **DR SUJIT BHATTACHARYA**

**Title of lecture :** New technologies: What is there for emerging and Small economies?

Prof. Sujit Bhattacharya is a PhD from Indian Institute of Technology-Delhi and MSc (Physics) from Delhi University. He is presently Professor in AcSIR| Academy of Scientific & Innovation Research, Senior Principal Scientist in CSIR-NISTADS and Editor-in-Chief of the Journal of Scientometric Research (published by Wolters| Kluvers Health). His main area of work is in Science and Technology Policy Studies, Scientometrics, and studying IPR in the context of Research, Innovation and Development. He has more than twenty-three years of research experience and was Professor (on deputation from NISTADS) in the Centre for Studies in Science Policy-JNU during 2007-2009. He has been member of important bodies and governing body member of Delhi University colleges. He has published over seventy research papers in peer reviewed journals and conference proceeding and presented papers at various national and international conferences. He has done sponsored study and provided policy inputs to the Office of the Principal Scientific Advisor, UPSC, WHO, among others. He has imparted training and developed courses and taught at JNU, AcSIR, Administrative Staff College, etc. He is principal investigator of the international collaborative network 'COLLNET', Asia editor of the International Society of Scientometrics and Information Management (ISSI) newsletter, members of various program committees of international/national conferences in various capacities, and thesis supervisor of international/national universities.



**DR. (MRS) SHAILAJA D**

Sr. Principal Scientist  
CSIR-Indian Institute of Chemical Technology, Hyderabad  
(Council of Scientific and Industrial Research)

**Title of lecture:** 'Science & Technology Collaborations with Small Nations: CSIR-IICT 's Experience & Perspective

Dr. Shailaja Donempudi is a Sr.Prin. Scientist and Head Research Management Division and looking after the activities of Project management, HR Management, IP Management, Events Management etc. She obtained her Ph.D degree in Chemistry from the Osmania University in 1993. Subsequently she joined the Institute as Scientist in Organic Coatings & Polymers Division and made significant contributions in the development of R&D processes/technologies in Polymers and Functional Materials till 2016.

She has specialised in Polymer-inorganic / core shell nanoparticles, fluoropolymers, Controlled Release polymer systems, Biopolymers, Microencapsulation, Polymer layered silicate nanocomposites, Polymer metal complexes, Polymer membranes. She has published more than 25 publications in various national and International Journals.

**Education**

1988-1993 :Ph.D. in Chemistry, Osmania University, Hyderabad, A. P., India

1986-1987 :M.Phil. in Chemistry , Central University of Hyderabad, Hyderabad, A.P.,India

1984-1986 :M.Sc., in Chemistry, Central University of Hyderabad, Hyderabad, A.,P., India.

1981-1984 :B.Sc. in Botany, Zoology and Chemistry, Osmania University, Hyderabad, A. P., India.

**Employment**

2012- present Senior Principal Scientist, Polymers & Functional Materials Division, Indian Institute of Chemical Technology, Hyderabad, India

2007- 2012 :Principal Scientist, Polymers & Functional Materials Division, Indian Institute of Chemical Technology, Hyderabad, India

2002-2007 :Scientist EI, Organic Coatings & Polymers Division, Indian Institute of Chemical Technology, Hyderabad, India

1998-2002 :Scientist`C, Organic Coatings & Polymers Division, Indian Institute of Chemical Technology, Hyderabad, India

1993-1998 :Scientist`B, Organic Coatings & Polymers Division, Indian Institute of Chemical Technology, Hyderabad, India.

1992-1993 :Project Research Fellow Organic Coatings & Polymers Division, Indian Institute of Chemical Technology, Hyderabad, India.

1989-1992 :Senior Research Fellow, Organic Coatings & Polymers Division, Indian Institute of Chemical Technology, Hyderabad, India.

1987-1989 :Junior Research Fellow, Organic Coatings & Polymers Division, Indian Institute of Chemical Technology, Hyderabad, India.

### **Research Interests**

- High RI organic inorganic hybrid photopolymers for optical Applications.
- Insecticidal Seed Coating.
- Past Research
- Synthesis of Polyethylene Furanoate polymer.
- Fluoroacrylate copolymer latex development for hydrophobic Coatings.
- Photopolymers for optical applications.
- Novel Fluoropolymer based Gel Electrolytes for Dye Sensitized Solar Cells
- Development of Fluoroelastomer for Plastic Bonded Explosives.
- Large Scale Study of Controlled Release Polymer Devices for Pest Management in Groundnut Storage.
- Biocompatible polymer membranes for dental applications.
- Controlled release technology for pest management in groundnut storage - a new integrated approach.
- Synthesis of crosslinked vinylpyridine polymers.
- Irreversible Temperature Sensitive Labels for Pharmaceutical Industries.
- Mechanism and Design of Formulations for Controlled Release of Bioactive Materials through Polymer Matrix.
- Present Research
- High RI organic inorganic hybrid photopolymers for optical Applications.
- Insecticidal Seed Coating.

### **Past Research**

- Synthesis of Polyethylene Furanoate polymer.
- Fluoroacrylate copolymer latex development for hydrophobic Coatings.
- Photopolymers for optical applications.
- Novel Fluoropolymer based Gel Electrolytes for Dye Sensitized Solar Cells
- Development of Fluoroelastomer for Plastic Bonded Explosives.
- Large Scale Study of Controlled Release Polymer Devices for Pest Management in Groundnut Storage.
- Biocompatible polymer membranes for dental applications.
- Controlled release technology for pest management in groundnut storage - a new integrated approach.

- Synthesis of crosslinked vinylpyridine polymers.
- Irreversible Temperature Sensitive Labels for Pharmaceutical Industries.
- Mechanism and Design of Formulations for Controlled Release of Bioactive Materials through Polymer Matrix.

### **Publications**

1. Novel multifunctional hybrid diallyl ether monomer via azide alkyne click reaction as crosslinking agent in protective coatings, Kesavarao Sykam, Shailaja Donempudi *Polymer* 62 (2015): 60-69.
2. Carboxylated Magnetite Composite Polymer Nanoparticles with Mosaic Structure for Biomedical Application, *J. Res. Updates in Polym. Sci.*, 4.2 :127.
3. Improving Hydrophobicity of Polyurethane by PTFE incorporation, Ch. Koti Reddy, D. Shailaja, accepted for publication in *J. Appl. Polym. Sci.* 132, 42779.
4. Modification of PTFE Latex with P4VP/Surfactant Complexes at Nanoscale, Ch. Koti Reddy, D. Shailaja, *Polym. Eng. Sci.*, PODOI 10.1002/pen.23911, Early view, published online 25 FEB 2014.
5. Preparation & Characterization of Poly (CTFE-co-EVE)/PSA core shells and SiO<sub>2</sub> Nanocomposite Films via Solution Mixing Method, Ch. Koti Reddy, T. Shekharam & D. Shailaja, *J. Appl. Polym. Sci.* 126, 1709.



## **DR. B. CHANDRASEKARAN**

### **Title of lecture:** Indian Leather Industry New Perspective

DR. B. Chandrasekaran, Ph.D., has been appointed as Director, CSIR –Central Leather Research Institute (CSIR-CLRI). Prior to this, he was a Chief Scientist and as Chairman of the HRD Cluster of CSIR–CLRI in development of curriculum and vertical growth integrating the skills with levels of education. He is a Leather Technologist and specializes in Cleaner Production with levels of education. He is a Leather Technologist and specializes in Cleaner Production Technologies, Leather Education, Leather product Design & Development, CAD Techniques for Leather Product Design, Organizational Development, Consultancy in R&D and Organizational Excellence. His expertise lies in Inter-Institutional Cooperation and Global R&D Consultancy.

Dr. Chandrasekaran is the recipient of Kannammal Memorial Award for holding First Rank in the M.Tech, Sulabh International Award and the AIMO Award. Dr. Chandrasekaran is the Vice-President of Indian Leather Technologist's Association, and Life-Member, A.C. Tech Leather and Footwear Association (ALFA), ISO –Leather, American Leather Chemists Association and International Union of Leather Technologists and Chemists Society. Dr. Chandrasekaran is the Project Coordinator for CSIR'S prestigious International Consultancy assignment in Ethiopia which focuses on capacity building of Leather industry Development Institute (LIDI), Ethiopia and he is instrumental in negotiating for similar services in the metal and engineering sector in Ethiopia. He was also invited by the Ministry of Industrialization, Kenya as expert in assisting them formulate a project for establishing Integrated Leather Industrial Park at Nairobi.

Dr. Chandrasekaran's strength lies in networking of all educational institutions in the country offering degree, diploma and certificate level courses for strengthening their infrastructure and standardization of the curriculum for academic and vocational programs paving way for "Make In India" Project of Govt. of India.

Dr.Chandrasekaran guided several Masters and PhD students and has 70 International peer reviewed papers to his credit with 15 patents and 3 copyrights. He heads the largest sources of graduate engineer in leather related Technology education centers in the world with a total student and training strength of over 300 per annum and has designed a regulated mechanism of additional 250 Project interns from various academic institutions in the country.

Dr. Chandrasekaran is the coordinator for the National Monitoring Unit (NMU) for Department of Industrial Policies and Promotion (DIPP), Govt. of India.



## **Ellen M. Carpenter, Ph.D**

Program Director  
Division of Undergraduate Education  
Education and Human Resources Directorate  
National Science Foundation

October – December 2017:  
Embassy Science Fellow  
U.S. Embassy  
New Delhi, India

2415 Eisenhower Avenue  
Alexandria, VA 22314  
(703) 292-5104  
[elcarpen@nsf.gov](mailto:elcarpen@nsf.gov)

Shantipath  
Chanakyapuri  
New Delhi-110021, India  
+91-11-2419-4162  
[CarpenterEM@state.gov](mailto:CarpenterEM@state.gov)

### **SUMMARY OF ACHIEVEMENTS**

- Over twenty years of management and direction of independent research programs in developmental neuroscience and cell biology in an academic setting as an Assistant, Associate, and full Professor of Psychiatry and Biobehavioral Science at the University of California Los Angeles (UCLA)
- Over twenty years of didactic teaching and research mentoring for undergraduate, graduate, and postdoctoral students in the College of Letters and Science and the School of Medicine at UCLA
- Working in educational program management as Vice Chair and Chair of the UCLA Undergraduate Interdepartmental Program in Neuroscience
- Serving in educational programming, development, grants management and outreach as a Program Officer in the Division of Undergraduate Education at the National Science Foundation
- Serving in academic administration as member and Vice Chair of the Undergraduate Council of the UCLA Academic Senate and as a member of the Council on Undergraduate Admissions and Relations with Schools
- Chairmanship of and participation in U.S. national and international research, fellowship and training grant review panels
- Research and training grant preparation, submission, and management; administrative coordination and personnel supervision for research laboratory and several research training grants
- Scientific outreach to K-12 institutions and patient advocate organizations

## EDUCATION

**Postdoctoral training                      Human Genetics                      1991-1995**

- Disruption and characterization of genes involved in mouse central nervous system development
- University of Utah Department of Human Genetics, Salt Lake City, UT
- Research mentor: Mario R. Capecchi, Ph.D.

**Postdoctoral training                      Biology                      1988-1991**

- Characterization of molecules involved in axonal pathfinding in grasshopper embryos
- University of Utah Department of Biology, Salt Lake City, UT
- Research mentor: Michael J. Bastiani, Ph.D.

**Ph.D.                      Neurobiology                      1983-1988**

- Analysis of the migration, location, and distribution of neural crest-derived Schwann cells
- University of Chicago Committee on Neurobiology, Chicago, IL
- Research mentor: Margaret Hollyday, Ph.D.

**B.A.                      Biology                      1979-1983**

- Dartmouth College, Hanover, NH

## RESEARCH INTERESTS

Genetic regulation of embryonic and neural development, cell migration and proliferation; embryonic patterning; mouse genetics and gene regulation; gene and environmental interactions in a mouse model for autism; bone development and healing; mammary gland development; transformation to malignancy and breast cancer metastasis; undergraduate biology and neuroscience education; equality and opportunity for women in STEM.

## RELEVANT PROFESSIONAL EXPERIENCE

**Program Officer, Division of Undergraduate Education, National Science Foundation,  
2016-present**

- Plan and implement division solicitations for undergraduate STEM education activities
- Serve as co-lead tracking and implementing budget allocation for the Improving Undergraduate STEM Education program, \$87,000,000 annual budget
- Supervise and manage all aspects of grant review including determining panel composition, supervising panel discussions, preparing award documentation and declination of unfunded applications

**Assistant, Associate, and Professor, UCLA Department of Psychiatry, Los Angeles, CA 1996 -2017)**

- Conduct research on roles of Hox genes and the reelin signaling pathway in regulating nervous system patterning and non-neuronal cell migration; direct a research laboratory comprised of technicians, undergraduate and graduate students, and postdoctoral fellows
- Coordinate and teach courses on neuroanatomy and genetic, molecular, and genomic approaches to neural development and disease for undergraduate, graduate, and medical students in the Interdepartmental Program in Neuroscience, the Molecular Biology Interdepartmental Program and the David Geffen School of Medicine
- Supervise research and serve on dissertation committees for more than 20 doctoral students
- Academic service directed at undergraduate education, curriculum development, master planning and personnel review

**UCLA Undergraduate Interdepartmental Program in Neuroscience, Vice Chair, 2011-2013 and Chair, 2013- 2016**

- Administrative oversight and supervision of an interdepartmental Neuroscience major at UCLA with 650 majors
- Selection and supervision of faculty instructors and teaching assistants, curriculum oversight for core and elective classes, and selection and supervision of administrative support staff
- Negotiation with departments and programs for allocation of teaching staff and resources in support of the major
- Preparation and submission of training and academic support grants to public organizations and private foundations; drafting and submission of departmental review and progress reports, budgets, and requests for updates and revisions to the major

**Director of Outreach, UCLA Brain Research Institute, 2011-2016**

- Develop outreach programs for use in local K-12 settings to promote instruction and higher education in neuroscience
- Develop and organize summer residential programs and research experiences in neuroscience for students from campuses with high enrollment of underrepresented minorities
- Liaison for Los Angeles county and California state science fairs; selection and awarding of special awards and recognition for excellence in research in neuroscience
- Faculty mentor and instructor, Project Brainstorm (UCLA undergraduate neuroscience outreach)

**Member and Chair, Subcommittee on Developmental Biology, National Institutes of Child Health and Development, Washington, DC. Ad Hoc member, October 2004-June 2005, Permanent member, July 2005-June 2010, Chair, October 2007-June 2010**

- Provide written reviews of individual and group research grant applications on genetics and developmental biology in mice, zebrafish, insects, and humans (R03 and P01 grants), along with review of research training grants (T32 grants) and conference grants (R13 grants)
- Chair section meetings and lead discussion of a wide spectrum of research grants

## Editorial Service and Ad Hoc Reviews

- Associate Editor, Journal of Neuroscience Research, 2010-2016
- Editorial board member, International Journal of Biological Sciences, 2006-2016
- Provide ad hoc manuscript reviews focusing on neural patterning, mammary gland development, and cell migration for Development, Developmental Biology, Developmental Neuroscience, Differentiation, Journal of Neurochemistry, Journal of Neuroinflammation, Mechanisms of Development, PLoSOne, Proceedings of the National Academy of Science, Nucleic Acids Research, and others

## REPRESENTATIVE RESEARCH PUBLICATIONS

- Carpenter, E. M., and Hollyday, M. (1992). The location and distribution of neural crest-derived Schwann cells in developing peripheral nerves in the chick forelimb. *Dev. Biol.* 150: 144-159.
- Carpenter, E. M., and Hollyday, M. (1992). The distribution of neural crest-derived Schwann cells from subsets of brachial spinal segments into the peripheral nerves innervating the chick forelimb. *Dev. Biol.* 150: 160-170.
- Carpenter, E. M., Goddard, J. M., Chisaka, O., Manley, N. R., and Capecchi, M. R. (1993). Loss of *Hox-A1* (*hox-1.6*) function results in the reorganization of the murine hindbrain. *Development* 118: 1063-1075
- Carpenter, E. M., Goddard, J. M., Davis, A. P., Nguyen, T. P., and Capecchi, M. R. (1997). Targeted disruption of *Hoxd10* affects development of the mouse hindlimb. *Development* 124: 4505-4514.
- Wahba, G., Hostikka, S. L., and Carpenter, E. M. (2001) The paralogous *Hox* genes *Hoxa10* and *Hoxd10* interact to pattern the hindlimb peripheral nervous system and skeleton. *Dev. Biol.* 231: 87-102.
- Lin, A. W., and Carpenter, E. M. (2003) *Hoxa10* and *Hoxd10* coordinately regulate lumbar motor neuron patterning. *J. Neurobiol.* 56: 328-337.
- Hedlund, E., Karsten, S. L., Kudo, L., Geschwind, D. H., and Carpenter, E. M. (2004). Identification of a *Hoxd10*-regulated transcriptional network and combinatorial interactions with *Hoxa10* during spinal cord development. *J. Neurosci. Res.* 75: 307-319.
- Choe, A., Phun, H. Q., Tieu, D. D., Hu, Y. H., and Carpenter, E. M. (2006). Expression patterns of *Hox10* paralogous genes during lumbar spinal cord development. *Gene Expr Patterns* 7:730-737.
- Carpenter, E. M., Gendler, E., Malinin, T. I., and Temple, H. T. (2006). Effect of H<sub>2</sub>O<sub>2</sub> on osteoinduction by demineralized bone. *Am. J. Orthop.* 35: 562-567.
- Malinin, T. I., Carpenter, E. M., and Temple, H. T., (2007). Particulate bone allograft incorporation. *Open Orthop. J.* 1: 19-24.
- Hostikka, S. L., Gong, J., and Carpenter, E. M. (2009). Axial and appendicular skeletal transformation, ligament alterations, and motor neuron loss in *Hoxc10* mutants. *Int. J. Biol. Sci.* 5: 397-410.
- Khialeeva, E., Lane, T. F., and Carpenter, E. M. (2011). Disruption of reelin signaling alters mammary gland morphogenesis. *Development* 138: 767-776.
- Rebustini, I. T., Hayashi, T., Reynolds, A. D., Dillard, M. L., Carpenter, E. M., and Hoffman, M. P. (2012). miR-200c regulates FGFR-dependent epithelial proliferation via Vldlr during submandibular gland branching morphogenesis. *Development* 139: 191-202.
- Mullen, B.R., Khialeeva, E., Hoffman, D. B., Ghiani, C. A., and Carpenter, E. M. (2013). Decreased reelin expression and organophosphate pesticide exposure alters mouse behavior and brain morphology. *ASN Neuro.* 5(1): e00106.
- Abadesco, A.D., Cilluffo, M., Yvone, G.M., Carpenter, E.M., Howell, B.W., and Phelps, P.E. (2013) Novel Disabled-1-expressing neurons identified in adult brain and spinal cord.

- Eur. J. Neurosci. 39: 579-592.
- Barrientos-Duran, A., Carpenter, E. M., zur Nieden, N. I., Malinin, T. I., Rodriguez-Manzaneque, J. C., and Zanello, L. P. (2014). Carboxyl-modified single-wall carbon nanotubes improve bone tissue formation in vitro and repair an in vivo rat model. *Int. J. Nanomed.* 9: 4277-4291.
- Carpenter, E. M., Llamas, C., Buck, B. E., and Malinin, T. I. (2015). Induction of neural tissue markers by micronized human spinal cord implants. *J. Neurosci. Res.* 93: 495-503.
- Mullen, B. R., Ross, B., Chou, J. W., Khankan, R., Khialeeva, E., Bui, K., and Carpenter, E. M. (2016). A complex interaction between reduced reelin expression and prenatal organophosphate exposure alters neuronal cell morphology. *ASN Neuro.* 8(3). DOI: 10.1177/1759091416656253.
- Coskun, V. and Carpenter, E. M. (2016) Life science-based neuroscience education at large western public universities. *J. Neurosci. Res.*, 94: 1384-1392. doi: 10/1002/jnr.23928.
- Khialeeva, E., Chou, J. S., Allen, D. E., Chiu, A. M., Bensinger, S. J., and Carpenter, E. M. (2017). Reelin deficiency delays mammary tumor growth and metastatic progression. *J. Mammary Gland Biol. Neoplasia* 22: 59-69. doi: 10/1007/s10911-017-9373-z.
- Khialeeva, E., and Carpenter, E. M. (2017). Nonneuronal roles for the reelin signaling pathway. *Dev. Dyn.* 246: 217-226. doi: 10/1002/dvdy.24462.



**PROF. SUDHANSHU VRATI**

Executive Director  
Regional Centre for Biotechnology  
NCR Biotech Science Cluster  
3rd Milestone, Faridabad-Gurgaon Expressway  
P.O. Box No. 3, Faridabad - 121 001  
Haryana (NCR Delhi), India  
E-mail: Vrati at rcb dot res dot in  
Phone: 91 129 2848801

PhD (Biochemistry), The Australian National University, Canberra

- DIIT (Biochemical Engineering), Indian Institute of Technology Delhi
- MSc (Microbiology), G. B. Pant University of Agriculture and Technology, Pantnagar
- Post-doctoral Research : CSIRO Molecular Sciences, Sydney
- Visiting Scientist : Pasteur Institute, Paris

**Research Theme**

The focus of research in our lab has been on understanding the RNA virus replication, in particular the Japanese encephalitis virus, and the development of viral vaccine candidates.

Japanese Encephalitis virus (JEV) is a member of the Flaviviridae family of animal viruses that contains several other medically important viruses such as Dengue and Yellow fever. JEV is a major cause of human encephalitis and is responsible for considerable mortality and morbidity in India. Frequent epidemics of Japanese encephalitis (JE) are being reported from various parts of India and JEV has become endemic in several parts of the country. We are studying the replication of JEV and investigating the role of the cellular proteins in virus replication. We are also examining the potential of small nucleic acid molecules such as siRNA and DNazymes for inhibiting JEV replication.

Our group also focuses on key aspects of the JEV life-cycle like receptor-binding and entry mechanisms, molecular mechanisms of virus replication, assembly and egress. The virus infectious-cycle involves a complex interaction between virus and host proteins. We are employing JEV- recombinant proteins and infectious viruses as exploratory systems in combination with molecular biology, cell biology and proteomic approaches. These studies provide insight into JEV pathogenesis, and have the potential to offer therapeutic interventions.

In the recent years, we have focused our efforts on understanding the biology of Chikungunya virus with a view to develop novel antivirals. Our laboratory has also been involved in the clinical development an oral rotavirus vaccine for children. Besides, we are interested in developing novel adenoviral vectors useful for vaccine delivery.

### **Achievements**

- 2010 Australian Alumni Excellence Award, Australian High Commission, India
- 2009 Tata Innovation Fellowship, DBT, Govt. of India
- 2006 NASI-Reliance Industries Platinum Jubilee Award, NASI, Allahabad
- 2005 Alembic Award, Association of Microbiologists of India
- 2005 Professor K P Bhargava Memorial Medal, INSA, New Delhi
- 2004 FNASc (Fellow of the National Academy of Sciences, India)
- 2003 FASc (Fellow of the Indian Academy of Sciences)
- 2003 National Bioscience Award, DBT, Govt. of India
- 2003 Elected Member, Guha Research Conference
- 2003 Dr. J. B. Srivastava Oration award, ICMR, New Delhi
- 2001 Vasvik Industrial Research Award, Vividhlaxi Audhyogik Samshodhan Vikas Kendra, Mumbai

## List of Delegates

1. Dr. G. Thyagarajan  
Chairman,  
Zaheer Science Foundation,  
Formerly Director, CSIR, Former Science Advisor to  
Commonwealth  
Secretary General and Director (Science) Commonwealth  
Secretariat, London
2. Prof. Mohsin U Khan  
Vice Chairman, ZSF  
Professor, Plekhanov Russian University of Economics,  
Moscow, Russia
3. Dr. Harsh K. Gupta, Member, Atomic Energy Regulatory Board  
(AERB)  
President, Geological Society of India, Immediate Past President,  
International Union of Geodesy & Geophysics (IUGG)
4. Dr. Seema Wahab,  
Joint Secretary, ZSF  
Former Senior Advisor (Scientist G),  
and Senior Consultant,  
Department of Biotechnology,  
Ministry of Science & Technology,  
Government of India CGO Complex,  
Lodhi Road, New Delhi-110003
5. Dr. Yash Pal Kathuria  
Treasurer, Zaheer Science Foundation,  
New Delhi
6. Dr. Tabassum Jamal  
Chief Scientist  
NISTADS, Pusa Gate,  
Dr. K S Krishnan Marg, New Delhi 110012
7. Dr. Shingeru Aoyagi  
Shigeru AOYAGI  
Director and UNESCO Representative  
UNESCO New Delhi Cluster Office  
for Bangladesh, Bhutan, India, Nepal, Maldives, and Sri Lanka  
1 San Martin Marg, Chanakyapuri,  
New Delhi - 110 021 INDIA

8. Dr. Ram Boojh,  
Senior Programme Officer in the Natural Science Unit at the  
UNESCO Cluster Office for South Asia in New Delhi  
UNESCO, 1 San Martin Marg, Chanakyapuri,  
New Delhi - 110 021 INDIA
  
9. Dr. Zahid H Khan  
Former Professor of Physics and Director, FTK-Centre for  
Information Technology,  
Jamia Millia Islamia, New Delhi
  
10. Shahid S. Siddiqui, PhD  
Professor  
Director Program in Human Genetics & Development  
Umm Al Qura University  
College of Dentistry  
Taif Road, Makkah, KSA
  
11. Dr. Torsti Loikkanen  
Sapar Oy  
Ohjaajantie 22 A4, Helsinki  
FI-00400, Finland
  
12. Mr. Banta  
Ambassador of Gambia
  
13. Dr. M. F. Rahman  
7-1-29/A/1,  
United Annexe Apartments,  
202 Ameerpet,  
Hyderabad – 500 016 A.P
  
14. Dr. Oleg Golichenko,  
Chief Research Associate of the Central Economics and  
Mathematics Institute of Russian Academy of Sciences, Moscow,  
Russia
  
15. Dr. Irina Shchepina  
Voronezh State University  
1 Universitetskaya Pl.,  
Voronezh, 394018, Russia
  
16. Ms. Maria Solosina  
Voronezh State University  
1 Universitetskaya Pl.,  
Voronezh, 394018, Russia

17. Dmitry Shcherbinin,  
Professor and the Director of Vavilov's Institute for the History of  
Science and Technology,  
Russian Academy of Sciences, Russia
  
18. Dr. (Ms.) Nadia Asheulova  
Director  
Center for Sociological and Sciences Studies Research of IHST  
Russian Academy of Sciences  
Moscow, Russia
  
19. Prof. Ashwini Kumar Nangia,  
Director of CSIR-National Chemical Laboratory  
(CSIR-NCL), Dr. Homi Bhabha Road,  
Pune- 411 008
  
20. Dr. U K Kharul  
Senior Principal Scientist  
CSIR-National Chemical Laboratory,  
Dr. Homi Bhabha Road ,  
Pune- 411 008, India.  
Email : director@ncl.res.in  
Phone :+91-20-25902000, 25893400  
Fax :+91-20-2590 2660
  
21. Dr. T. Ramasami  
Former Secretary,  
Department of Science and Technology,  
Govt. of India
  
22. Dr. R K Bhandari  
Chairman,  
*Indian National Academy of Engineering (INAE)*,  
Forum on Engineering  
302, Kamadgiri Tower,  
Kausambi, Gaziabad (UP)  
201010, India  
Mob. 9810345123
  
23. Dr.B Chandrasekaran  
Director  
CSIR-Central Leather Research Institute,  
Adyar, Chennai-600 020,India

24. Dr. D. Shailaja  
Senior Principal Scientists and Head  
Business Development and Research Management Director's  
Secretariat  
CSIR-Indian Institute of Chemical Technology  
Uppal Road, Tarnaka, Hyderabad - 500 007  
Telangana State, India
25. Prof. Dr. Jiba Raj Pokharel,  
Vice-Chancellor, NAST  
GPO Box:3323,  
Khumaltar, Lalitpur, Nepal
26. Dr. Sunil Babu Shrestha, Academician, NAST and Member,  
National Planning Commission  
GPO Box:3323, Khumaltar,  
Lalitpur, Nepal
27. Dr. Riaz Mirza,  
37, Abboths Drive,  
Middlesex, England
28. Ellen M. Carpenter, Ph.D.  
National Science Foundation  
Embassy Science Fellow  
U.S. Embassy, New Delhi
29. Prof. Sudhanshu Vрати  
Executive Director  
Regional Centre for Biotechnology  
NCR Biotech Science Cluster  
3rd Milestone, Faridabad-Gurgaon Expressway  
P.O. Box No. 3, Faridabad - 121 001  
Haryana (NCR Delhi), India
30. Dr. Sujit Bhattacharya  
Professor AcSIR| Academy of Scientific Research & Innovation  
Senior Principal Scientist (NISTADS)  
Editor-in-Chief The Journal of Scientometric Research (
31. Ms. Bianchi Annaflavia  
University of Urbino  
and Emilia-Romagna Regional Government expert,  
Italy
32. Dr. Y. Madhavi  
Sr Principal Scientist & Prof. Acsir  
National Institute of Science, Technology and Development Studies  
(NISTADS), NPL Campus, Marg New Delhi - 110 012, India.

## Why This Conference

### They Matter to US

The small and island nations matter much to global science on issues such as climate change, tsunamis, sea level rise and other extreme weather events. Mainstream science and global change projects derive valuable data and indicators from these small nations from time to time.

### Should We not matter to Them?

- Geographical isolation and associated constraints make it difficult for the small island states to participate in international conferences on regional/global projects. Such as this.
- It is high time mainstream science nations recognize the needs of the small nations and assist them in designing appropriate STI policies covering resource mapping, sustainable utilization, economy, training and capacity building with a handholding approach.

The conference will open at 9:30 am on Tuesday 14<sup>th</sup> November and conclude with lunch on Thursday 16<sup>th</sup> November 2017. Besides opening and closing, there will be 4 or 5 sessions on invited lectures, country presentations, open forum and discussion. A detailed time table will be ready by 1<sup>st</sup> November 2017, venue is India Islamic Cultural Centre, New Delhi.

Interested participants need to apply to get registered since seats are limited. There is no fee for accepted participants. Lunches and tea/coffee will be provided with complements. Stay and transport to / from the venue will be own responsibility please. Conference language is English.

For all further information /registration please contact:

Dr. Mohsin U.Khan  
Conference Coordinator  
Mobile: 09818078272,  
Tel: 011-23745697  
Email: [ukmohsin49@gmail.com](mailto:ukmohsin49@gmail.com)



### ZAHEER SCIENCE FOUNDATION

4, Udyan Marg, New Delhi 110 001, India  
Tel: 011-23745697

Email: [ukmohsin49@gmail.com](mailto:ukmohsin49@gmail.com), [zsfndia@gmail.com](mailto:zsfndia@gmail.com)  
Website: [zaheersciencefoundation.com](http://zaheersciencefoundation.com)

