

International Conference

Aligning Science-Technology-Innovation Indicators for Effective R&D Governance (STiG-2025)



14–15 January
2025

CSIR-NIScPR
Dr. K.S. Krishnan Marg, New Delhi 110012



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International Conference Aligning Science-Technology-Innovation Indicators for Effective R&D Governance (STliG-2025)



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CSIR-NIScPR's Foundation Day



14-15

January
2025



CSIR-NIScPR

Dr. K S Krishnan Marg, New Delhi 110012

PROGRAMME

Day 1: 14 January 2025

Timing	Event
09:00 - 10:00	REGISTRATION
10:00 - 11:35	INAUGURAL SESSION Venue: Vivekananda Hall
10:00 - 10:05	Deep Prajjwalan (दीप प्रज्वलन)
10:05 - 10:15	Welcome Address & Overview of the Conference: Prof. Ranjana Aggarwal Director, CSIR-NIScPR
10:15 - 10:25	Address by the Guest of Honour: Dr. Suman Kumari Mishra Former Director, CSIR-CGCRl, Kolkata and Adjunct Professor, IIT Ropar
10:25 - 11:05	Foundation Day Lecture by the Guest of Honour: Prof. Sachin Chaturvedi Director General, Research and Information System for Developing Countries (RIS) <i>Reimagining Science, Technology and Innovation Indicators: Towards Development Agenda for Viksit Bharat at 2047</i>
11:05 - 11:25	Address by the Chief Guest: Prof. Ashutosh Sharma President, INSA, Institute Chair Professor & C. V. Seshadri Chair Professor, IIT Kanpur Former Secretary, DST, Gol
11:25 - 11:30	Release of Conference Souvenir and CSIR-NIScPR's Publications
11:30 - 11:35	Vote of Thanks: Sh. Mukesh Pund Chief Scientist, CSIR-NIScPR
11:35	National Anthem
11:35 - 12:30	High Tea, Ek Ped Maa Ke Naam, Bonfire & Cultural Celebration
12:30 - 13:35	Session - I Theme: STI Indicators for R&D Governance Venue: Vivekananda Hall
12:30 - 12:40	Chairperson : Prof. Akhilesh Gupta Former Secretary SERB & Former Sr. Adviser DST, Gol
12:40 - 12:55	Thematic overview of the conference: Prof. Sujit Bhattacharya , Chief Scientist, CSIR-NIScPR <i>Science, Technology and Innovation Indicators on the intersection with Foresight and Governance</i>
12:55 - 13:10	Keynote Address 1: Prof. Vivek Kumar Singh , Senior Advisor (Science and Technology), NITI Aayog, Gol <i>Towards Performance Based Research Funding: Institutional Expertise and Diversity Assessment</i>
13:10 - 13:25	Keynote Address 2: Prof. Oleg G Golichenko , CEMI Russian Academy of Sciences and Department of Industrial Organisation, Russia <i>Mesotrajectories of Technological Development: Aligning Science-Technology-Innovation Indicators</i>
13:25 - 13:35	<i>Discussion and Closing Remarks</i>
13:35 - 14:15	Networking Lunch

14:00 - 14:30	Session - II Poster Presentations Venue: Lobby
	<p>Chairperson : Dr. Charu Verma, Chief Scientist, CSIR-NIScPR</p> <p>P1: Renu Yadav - <i>Rise of Medical Tourism in India: Issues, Challenges and Opportunities</i> P2: S. Preeti Lakshmi - <i>Digital Health Literacy as a Tool to Counter the Spread of Health Misinformation on Social Media Platforms in India</i> P3: Sandhya Wakdikar - <i>Can Parliamentary System in India fast-track the gender parity in STEM?</i> P4: Amrita Kumari Panda - <i>Consumer's perception of empowering Indigenous Communities through commercializing ethnobiological knowledge-A case study from Sarguja, Chhattisgarh, India</i> P5: Tsewang Stanzin - <i>Green Innovation in the Indian Automotive Sector: A Patent Level Analysis</i> P6: Anoop Kumar Gupta - <i>A Dynamic Recommendation System for E-commerce Users Using Web Usage Data Mining</i> P7: Panchami Jose - <i>Rethinking Research Assessment for Advancing Open Science in India</i> P8: Moumita Mazumdar - <i>Understanding misinformation spread during the COVID-19 pandemic in India</i> P9: Prajith K K - <i>RNA interference (RNAi): An emerging Technology and its prospect for the management of agriculture pest Fall armyworm, Spodoptera frugiperda (Lepidoptera: Noctuidae)</i> P10: Sabita Yadav - <i>Mapping and Communication of Psychiatric Genomics</i> P11: Adarsh Raghuvanshi - <i>Co-authorship network of AI&ML</i> P12: Akansha Trehan - <i>Gender Dimension Analysis of Capacity Building Scheme</i> P13: Anuj Raj Singh - <i>A Review of "Air pollution status of Indian metropolitans with major Focus on Delhi-NCR"</i> P14: Chandrashekhar Chavan - <i>Studies on Safety and Outcomes of the Clinical Trials using Stem Cell Therapy for Non-malignant Diseases in India: A Systematic Review</i> P15: Deepa Moni Doley - <i>Communicating Biodiversity for Sustainable Wildlife Management in Northeast India</i> P16: Ishita Goyal - <i>Mapping the Research Network of Personalized Medicine in India</i> P17: Karthikeyan S - <i>A scientometric analysis of the field of Cybersecurity and its Scientific Temper</i></p> <p>Exhibitions & Showcasing of CSIR-NIScPR activities</p>
14:30 - 15:50	Session - III.A.1 Theme: Measuring the Social Impact of R&D Venue: Vivekananda Hall
14:30 - 14:50	<p>Chairperson: Prof. Brajesh Pandey, Executive Director, INSA</p> <p>Invited Talk: Dr. Ismael Rafols (O), Senior Researcher, Leiden University</p>
14:50 - 15:50	<p style="text-align: center;">Paper Presentations and Q&A</p> <ul style="list-style-type: none"> • Olga Ustyuzhantseva - <i>Integrating Grassroots Knowledge in Formal STI System: Practices, Challenges, and Opportunities</i> • Mohd Sajid Ali - <i>Her Turn to Blaze the Trails: Redefining R&D for Gender Equity</i> • Prajith Karakkottil - <i>Socio-Economic Impacts of Invasive Species on Agriculture: Policy Imperatives for Sustainable Management</i> • Perminder Jit Kaur - <i>Empowering Communities through R&D-Informed Rural Immersion: A Case Study</i> • Anu - <i>Assessing the Impact of Paddy Straw Pellet Intervention: A Case Study of Science and Technology-Led Solutions in Moga, Punjab</i> • Shiv Narayan Nishad - <i>Technology Mapping for Sustainable Livelihood Creation in Rural Areas of India</i> <p>Discussants: Dr. Shiv Narayan Nishad, CSIR-NIScPR & Dr. N. K. Sahoo, CSIR-NIScPR</p>
15:50 - 16:50	Session - III.B.1 : Panel Discussion Theme: STI Indicators for R&D and Society Venue: Vivekananda Hall
	<p>Chairperson: Prof. Vivek Kumar, Head, CRDT IIT Delhi</p> <ul style="list-style-type: none"> • Dr. Nadia Asheulova, Director, Institute for the History of Science and Technology, Russian Academy of Sciences • Dr. Anita Aggarwal, Head, SEED-DST • Dr. Saradindu Bhaduri, CSSP, Jawaharlal Nehru University • Dr. Sujata Chaklanobis, Former Advisor/Scientist "G" DSIR • Dr. Olga Ustyuzhantseva, Senior Research Fellow, Institute of World Economy and International Relations, Russia • Dr. Naresh Kumar, Chief Scientist, CSIR-NIScPR <p>Moderators: Ms. Sandhya Wakdikar, CSIR-NIScPR & Dr. N K Sahoo, CSIR-NIScPR</p>

14:30 - 15:50	<p>Session - III.A.2 : Panel Discussion Theme : Connecting R&D and Social Media Venue: Committee Room</p>
14:30 - 14:50	<p>Chairperson: Prof. Madhav Govind, CSSP, Jawaharlal Nehru University</p> <p>Invited Talk: Dr. Pit Pichhapan, Digital Information Research Labs, Chennai, India The impact of measuring large vs small aggregate of research units</p>
14:50 - 15:50	<p style="text-align: center;">Paper Presentations and Q&A</p> <ul style="list-style-type: none"> • Priyanka Saraswat - <i>Integrating R&D with Social Media: The Interactive and Transformative dynamics of Digital Platforms in Science, Technology and Innovation</i> • Sweta Suman - <i>Leveraging Science Communication to Promote Farmers' Digital Literacy for Enhanced Agricultural Revenues</i> • Moumita Mazumdar - <i>Innovations in Fact-Checking Systems in Combating Misinformation</i> • Tusha - <i>Understanding thematic evolution of research on rural development through technology intervention</i> • Hiran H. Lathabai - <i>Parallelism between citations and altmetrics: What boost indicators has to suggest?</i> • Himani Meena - <i>Advancing Digital Agriculture: Insights into Collaborative Frameworks, Research Performance, and Policy Imperatives</i> • Abhinav Banait - <i>The Role of High-Quality films and documentaries in raising awareness about Geoheritage in India: Current Gaps and Future Prospects</i> <p>Discussant: Dr. Dinesh Velip, CSIR-NIScPR</p>
15:50 - 16:50	<p>Session - III.B.2 : Panel Discussion Theme : STI Indicators for R&D and Social Media Venue: Committee Room</p>
	<p>Chairperson: Prof. Ki-Seok Kwon, Hanbat National University, South Korea</p> <ul style="list-style-type: none"> • Dr. Jagvir Singh, Head, Outreach & SAGE-NCS Ministry of Earth Sciences • Dr. Nisha Mendiratta, Executive Director IUSSTF • Dr. (Mrs) Rama Swami Bansal, Head, ISTAD, CSIR-HQ • Dr. (Mrs) Geeta Vani Rayasam, Head, CSIR-HRDG • Dr. Rashmi Sharma, Head NCSTC Division, Dept. of Science & Technology, Gol • Dr. Hemant Kumar, DSSTIP, Central University of Gujarat • Dr. G. Mahesh, Head, DGED, CSIR-HQ • Dr. Anukrati Sharma Director, Skill Development Center, University of Kota, Rajasthan <p>Moderator: Dr. Yogesh Suman, Chief Scientist, CSIR-NIScPR</p>
16:50 - 17:00	Tea/Coffee Break
17:00 - 18:00	<p>Session - IV.1 Theme : Methods, Approaches and Practices in Performance Evaluation Venue: Vivekananda Hall</p>
	<p>Chairperson: Dr. Arvind C Ranade, Director, National Innovation Foundation</p> <p style="text-align: center;">Paper Presentations and Q&A</p> <ul style="list-style-type: none"> • Yulia Balycheva - <i>Comparison of innovation and R&D performance indicators</i> • Ansel Elias Stanley - <i>Evaluating Project Proposal Alignment with Objectives and the Role of Research Assessment in the Selection Process: A Study of the STI Hub Programme of DST</i> • Swapnil Shukla - <i>Equity, Inclusion and Intersectionality in Science, Technology and Innovation Sector: Metrics for an Inclusive, Diverse and Robust R&D Ecosystem</i> • Shekhar Sharma - <i>Quantitative Analysis of Critical Phases of Science</i> • Adarsh Raghuvanshi - <i>Co-authorship Network Analysis in the field of Artificial Intelligence in Computer Science</i> • Preeti Srivastava - <i>Evolving a Framework for Measuring Efficiency and Impact of Mission-Mode R&D Initiatives</i> • Prashasti Singh - <i>Comparing data coverage & accessibility, metadata fields & analysis possibilities of OpenAlex with WoS, Scopus and Dimensions</i> <p>Discussant: Dr. Anurag Kanaujia, Banaras Hindu University</p>

17:00 - 18:00

Session - IV.2

Theme : Methods, Approaches and Practices in Performance Evaluation

Venue: Committee Room

Chairperson: **Dr. Vipin Kumar**, Chief Scientist, CSIR-NIScPR

- **Akansha Trehan** - *Assessing the Interaction between Foresight and Evidence in R&D Policy Governance*
- **Soumen Mallik** - *'Infospectry' – the Novel Article Level Quality Indicator is Developing: A Pilot Study on Annals of Library and Information Studies (ALIS)*
- **Shreya** - *Performance Indicators for Emerging Technologies: Challenges, Approaches, and Risk Mitigation*
- **Anujraj Singh** - *Exploration of Impact of Air Pollution on Diabetes – A meta-analysis review*
- **Nidhi Chauhan** - *Integrating SDGs into Science Education: A Policy Framework for Advancing Sustainable Development Through R&D Governance*
- **Megha Vaishnavi** - *Key Indicators for Evaluating Algal Biomass as a Sustainable Bio-Energy Source*
- **N. I. Ivanova (O)** - *ST indicators for monitoring Technological Modernization in Contemporary World Economy*

Discussant: **Mrs. Pramila Mazumdar**, CSIR-NIScPR

19:00 - 20:00

Networking Dinner

Day 2: 15 January 2025

09:30 - 10:20	Session V Theme : Methods, Approaches and Practices in Performance Evaluation Venue: Vivekananda Hall
09:30 - 09:35	Chairperson: Prof. Oleg G Golichenko , Head, CEMI Russian Academy of Sciences
09:35 - 09:50	Keynote Address 3: Dr. Shushanik Sargsyan (O) , Head, Center for Scientific Information and Monitoring, Armenia <i>From Local to Global: How National Science Citation Indexes Enhance Research Evaluation and Visibility - The Armenian Science Citation Index Experience</i>
09:50 - 10:05	Keynote Address 4: Prof. Ki-Seok Kwon , Hanbat National University, South Korea <i>Measuring Data Economy in South Korea</i>
10:05 - 10:20	Invited Talk: Dr. Jaqueline Leta (O) , Federal University of Rio de Janeiro, Brazil <i>Data sources of scientific publication: diversity and limitations</i> <i>Discussion and Closing Remarks</i>
10:20 - 11:15	Session VI : Panel Discussion Theme : Challenges, Opportunities and Caveats in Performance Evaluation Venue: Vivekananda Hall
	Chairperson: Prof. Sujit Bhattacharya , Chief Scientist, CSIR-NIScPR <ul style="list-style-type: none">• Prof. Anirban Chakroborti, SC&IS, Jawaharlal Nehru University• Dr. Debashis Bandyopadhyay, Head, IMD, CSIR-HQ, New Delhi• Dr. B Chagun Basha, Chief Policy Adviser, PSA, GoI• Dr. Arvind Kumar, Head, NSTMIS, DST, GoI• Prof. Ki-Seok Kwon, Hanbat National University, South Korea, South Korea• Dr. Patrick Dias (O), CSIRO, Australia Moderators: Dr. Kasturi Mandal , CSIR-NIScPR and Dr. Vinayak , CSIR-NIScPR
11:15 - 11:30	Tea Break
11:30 - 12:10	Session VII.A Theme : Open Science, Open Source & Open Access Venue: Vivekananda Hall
11:30 - 11:40	Chairperson: Dr. Srinivas V Kaveri , Director of the CNRS Office in India, Embassy of France
11:40 - 11:55	Invited Talk: Dr. Sylvie Cecile Rousset , Head of Open Science Departement at CNRS, France <i>Open Science Policy at CNRS in France</i>
11:55 - 12:10	Invited Talk: Prof. P. D. Sharma , Department of Computer Science, Sri Guru Tegh Bahadur Khalsa College, University of Delhi <i>Our Social Values and Our Science: Struggle & (re) normalization</i> <i>Discussion and Closing Remarks</i>
12:10 - 13:10	Session VII.B Theme : Open Science, Open Source & Open Access Venue: Vivekananda Hall
	Chairperson : Sh Mukesh Pund , Chief Scientist, CSIR-NIScPR Paper Presentations and Q&A <ul style="list-style-type: none">• Dr. Kruti J Trivedi, <i>Role of Open Science in Future of Research & Development (R&D) Governance</i>• Bidyarthi Dutta, <i>Open Science Stewardship in Indian S&T Institutions</i>• Md. Nurul AI, <i>Open Access and Article Processing Charges (APCs) with Special Reference to Indian Institutions: Analyzing Fee Waivers, Discounts, and Transformative Agreements</i>• Panchami Jose, <i>Rethinking Research Assessment for Advancing Open Science in India</i>• Navajyoth Bhukya, <i>SEO Implications of Domain Change, Understanding the Role of Backlinks in Website Growth</i>• Pragya Chaube, <i>Community Data Governance in Open Data Frameworks</i> Discussant: Dr. Mehar Wan , CSIR-NIScPR

13:10 - 13:15	Presentation from ACS International India Pvt. Ltd.
13:15 - 13:20	Presentation from Turnitin Pvt. Ltd.
13:20 - 14:00	Lunch Break
14:00 - 15:00	Session VII.C : Panel Discussion Theme : Fostering Open Science, Open Source & Open Access for robust R&D Ecosystem Venue: Vivekananda Hall
	Chairperson: Prof. Sylvie Cecile Rousset , CNRS, France <ul style="list-style-type: none"> • Prof. Nadia Asheulova, Director, Institute for the History of Science and Technology, Russian Academy of Sciences • Dr. Laurence Elkhouri, CNRS, France • Sh. Sanjay Burde, Chief Scientist, CSIR-NIScPR • Prof. Arpan Kumar Kar (O), Department of Management Studies, IIT, Delhi • Dr. Ivan V. Danilin (O), Primakov Institute of World Economy and International Relations, Russia Moderators: Dr. Sandhya Lakshmanan , CSIR-NIScPR and Ms. Meetali Bharti , CSIR-NIScPR
15:00 - 15:25	Session VIII.A Theme : Foresight in R&D Governance Venue: Vivekananda Hall
15:00 - 15:10	Chairperson: Prof. Pranav Desai , Former Head, CSSP, Jawaharlal Nehru University
15:10 - 15:25	Keynote 5: Prof. Manoj Changat , Senior Professor(Rtd), Department of Future Studies University of Kerala <i>Transforming STI policy integrating Foresight and AI</i>
15:25 - 16:25	Session -VIII.B : Panel Discussion Theme : Foresight in R&D Governance Venue: Vivekananda Hall
	Chairperson: Prof. Pranav Desai , Former Head, CSSP, Jawaharlal Nehru University <ul style="list-style-type: none"> • Dr. Katja Lasch, Director, S&T Division TEEC (DAAD) • Dr. Dhoya Snijders, Innovation Counsellor India Embassy of the Kingdom of the Netherlands • Dr. Krishna Balaraman, Associate Professor, Strategic and Public Policy area at the School of Management and Entrepreneurship (SME) IIT Jodhpur • Dr. Gautam Goswami, Head Foresight & Vision Division, TIFAC • Dr. Yulia Balycheva, Senior researcher, Central Economics and Mathematics Institute Russian Academy of Sciences (CEMI RAS) • Prof. Ivanova Natalya (O), Chief Researcher, Primakov Institute of World Economy and International Relations, IMEMO RAS, Moscow Moderators: Dr. Avinash Kshitij , CSIR-NIScPR and Dr. Vinayak , CSIR-NIScPR
16:25 - 16:30	Tea
16:30 - 17:30	VALEDICTORY SESSION Venue: Vivekananda Hall
16:30 - 16:40	Welcome Address : Prof. Ranjana Aggarwal Director, CSIR-NIScPR, New Delhi
16:40 - 16:55	Address by the Guest of Honor : Prof. Venu Gopal Achanta Director, CSIR-NPL, New Delhi
16:55 - 17:10	Valedictory Address by the Chief-Guest : Dr. M. Ravichandran Secretary to Government of India, Ministry of Earth Sciences
17:10 - 17:20	Summing up & way ahead : Prof. Sujit Bhattacharya Chief Scientist, CSIR-NIScPR, New Delhi
17:20 - 17:30	Vote of Thanks : Dr. Naresh Kumar Chief Scientist, CSIR-NIScPR, New Delhi
17:30	National Anthem
17:30 - 18:30	High Tea



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