



1st NATIONAL SCIENTISTS ROUND TABLE CONFERENCE 2024 **FOR VIKSIT BHARAT 2047**

19th, 20th & 21st July 2024



Dr. Vishwanath Karad

**MIT WORLD PEACE
UNIVERSITY | PUNE**

TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS

Patrons



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Prof. Dr. Vishwanath D. Karad
Founder President, MIT-WPU,
Creator - World Peace Dome,
Pune



Dr. R. A. Mashelkar
Padma Vibhushan Awardee
Former DG, CSIR, New Delhi

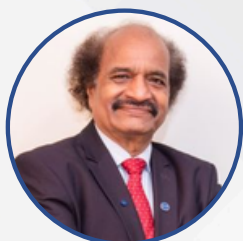


Dr. Vijay P. Bhatkar
Padma Bhushan Awardee
Founder Director, CDAC,
Pune, Maharashtra



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Executive President
MIT-WPU, Pune

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Former Vice-Chancellor,
ICT Mumbai



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Pro Vice-Chancellor,
MIT-WPU, Pune.



Prof. Dr. Bharat B. Kale,
FRSC Coordinator, NSRTC 2024
Director CoE (Materials Science),
MIT-WPU, Pune

About MIT-WPU

With a rich legacy of four decades in fostering world-class academic excellence and over 100,000+ alumni across the globe, MIT-WPU is one of the premier institutions of higher learning in India offering Diploma, Undergraduate, Postgraduate, and Ph.D. programs. Uniquely positioned as one of the first universities across the world that offers the highest standard of professional education ingrained with the postulates of peace studies, MIT-WPU enables an inclusive culture of dignity, fairness, and respect amongst its students, grooming them into future-ready, responsible citizens of the world. MIT-WPU, with its robust and enduring research infrastructure has evolved into an institution of unique scholarly excellence and distinct academic character that inspires and nurtures cross-disciplinary research encouraging discoveries that have global impact. MIT-WPU has a stronghold both in academic teaching and research of physical, chemical, and life sciences, as well as in all engineering disciplines along with law, management, etc. MIT-WPU has more than 770+ teaching faculty members, 23000+ students among them 6700+ students of B. Tech., 940+ students of M. Tech. programs, and around 450+ students do their doctoral research. MIT-WPU is actively engaged in the research of advanced materials, polymers, 2D-materials devices, photonics materials/devices, energy generation, hydrogen generation and storage, bioengineering, biosensors, bioinformatics, catalysis, biomedical, microbiology, targeted drug delivery, drug synthesis, nano-formulation, artificial intelligence, machine learning in materials and devices, etc. Here, all learners have access to high impact experiential learning that combine academic offerings with yoga and meditation courses, multiple sporting opportunities, academic and cultural clubs, and year-round on-campus events aimed at strengthening the foundational development of all its students.



About NSRTC 2024

"Indian Scientists Roundtable Conference on Science & Technology" is the first of its kind to be organized at Dr. Vishwanath Karad MIT World Peace University, Pune. The aim of this conference is to bring together leading academic scientists, researchers, and research scholars to exchange and share their experiences and research results on all aspects of Physical Sciences, Life Sciences and Engineering & Technology.

Scope and Objectives of the Scientists Meet

The participating scientists shall provide new ideas and new directions that will inspire academicians and researchers, especially the budding young generation, to take up Fundamental Research as a bedrock in all emerging areas of science and technology, no matter what the discipline is. New ways of interdisciplinary as well as international collaboration will be debated. The aim is to inspire a path to new discoveries, new paradigms of development and new ways of delivery, all empowered by science combined with behavioural science, which delivers at unparalleled speed and scale with sustainability.

But the bigger purpose of NSRTC 2024 is to find new ways in advancing the tools of cutting-edge frontier technologies to create an equitable, sustainable, and human centric Viksit Bharat @100 that will be a role model for the rest of the world.

Conference Themes

1. Artificial Intelligence

- a. Ethical AI Frameworks, Regulations, and Governance
- b. AI for Social Good and Sustainability
- c. AI for Affordable Healthcare
- d. AI and Future of Jobs
- e. Generative AI and IPR Laws

2. Advanced Materials and Processing

- a. Nanomaterials / Nanohybrids / Nanocomposites
- b. Organic Electronics
- c. Bioinspired Materials and Biomimetic Designs
- d. Biodegradable & Sustainable Materials
- e. Device Engineering, 3D Printing, etc.

3. Agri-Tech

- a. Precision Agriculture and Digital Farming
- b. Genetic Engineering and Agriculture 2.0
- c. Climate Smart Agriculture
- d. Urban Agriculture and Vertical Farming
- e. Promoting Agritech Startups

4. Biotechnology

- a. Synthetic Biology
- b. Bioinformatics / Bioengineering
- c. Bio-Medical Devices
- d. Biopharmaceuticals
- e. Bio-Manufacturing

5. Climate Change

- a. Climate Modelling
- b. Circular Economy
- c. Smart & Sustainable Mobility Solutions
- d. Green Buildings and Sustainable Infrastructure
- e. Managing Rapid yet Just Transition

6. Digital Transformations

- a. Grid Technology
- b. Quantum Computing
- c. Blockchain Technology
- d. Cyber Security
- e. Digital Inclusion and ICT for Development

7. Health Care

- a. Tissue Engineering
- b. Regenerative Medicine
- c. Wearable Devices
- d. Impact of Digital Transformations
- e. High Technology led Affordable Health Care

8. Science, Scientific Temper & Spirituality

- a. Role of Scientific Temper in Building Bharat@100
- b. Scientific Method, Philosophy, and Spirituality
- c. Neuroscience of Spirituality
- d. Relation between Brain, Mind & Consciousness
- e. Spiritual Practices in Promoting Holistic Wellbeing

Distinguished Speakers



Dr. R. A. Mashelkar Padma
Vibhushan Awardee Former DG,
CSIR, New Delhi



Dr. Vijay P. Bhatkar Padma
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Former DG, CSIR,
New Delhi



Prof. T. Pradeep
IIT Madras



Dr. Ashok Joshi
Microlin, USA



Prof. Dr. Ashutosh Sharma
Former Secretary DST
IIT Kanpur



Prof. Dr. M. S. Ramachandra Rao
IIT Madras



Prof. Dr. V. Ramgopal Rao
Group Vice Chancellor BITS Pilani



Prof. Dr. Umesh V. Waghmare
Jawaharlal Nehru Centre for
Advanced Scientific Research
Bengaluru



Prof. Dr. Dipankar Das Sarma
IISc Bengaluru



Dr. Dinesh K. Aswal
Bhabha Atomic Research
Centre Mumbai

Distinguished Speakers



Prof. Dr. Vijayamohan K. Pillal
ISER Tirupati



Prof. Dr. Ajit Kulkarni
IIT Bombay



Prof. Dr. Samit K. Ray
IIT Kharagpur



Dr. S. B. Ogale
TCG-CREST
Kolkata



Prof. Dr. T. Govindaraju
Jawaharlal Nehru Centre
for Advanced Scientific
Research Bengaluru



Prof. Dr. Satish Patil
IISc Bengaluru



Dr. Tata N. Rao
Director, International Advanced
Research Centre for Powder
Metallurgy and New Materials,
Hyderabad



Dr. Raksh Vir Jasra
Senior Vice President
Reliance Industries Ltd
Vadodara



Dr. R. Gopalan
International Advanced Research
Centre for Powder Metallurgy and
New Materials, Chennai



Dr. Beena Rai
TCS USA



Prof. Amitava Patra
Institute of Nano Science
and Technology, Mohal



Prof. Bijoy K. Das
IIT Madras

Distinguished Speakers



Prof. Avinash Sonawane
IIT Indore



Ms. Priyamvadha Vembar
Cybersecurity, Bosch
Bengaluru



Dr. Shrikant V. Joshi
UKA Tarsadia University
Bardol



Prof. Dr. Sumathi R.R.
Leibniz-Institute für Kristallzüchtung, Berlin
Ludwig-Maximilians Universität, Munich



Dr. Ilangovan S. A. Vikram
Sarabhai Space Centre
Thiruvananthapuram



Prof. Dr. V.K. Jain IIT
Kanpur



Prof. Dr. Shailendra Varshney IIT
Kharagpur



Prof. Dr. S.B. Krupanidhi
IISc, Bengaluru



Prof. Dr. P. S. Anil Kumar
ISc, Bengaluru



Prof. Anil Sahasrabudhe
Director at COEP , Pune



Prof. Raghunath Shevgaonkar
IIT Bombay and IIT Delhi



Prof. Dr. Neeraj Khare
IIT Delhi

Distinguished Speakers



Prof. Bhushan Patwardhan Former
Vice Chairman UGC & SPPU, Pune



Prof. Dr. Ashok K Ganguli
Director JISER Berhampur



Prof. Dr. Rajat Moona
Director IIT Gandhinagar



Prof. Dr. Tanusri Saha-Dasgupta
Director S. N. Bose National Centre
for Basic Sciences, Kolkata



Dr. Binoy Kumar Saikia
CSIR-North East Institute of
Science & Technology, Assam



Dr. Sasikumar M
CDAC Mumbai



Prof. Debdeep Mukhopadhyay
IIT Kharagpur



Dr. B L V Prasad Director
CeNS Bengaluru



Prof. Deepak Kumar Behera Vice
Chancellor, Kalinga Institute of
Social Sciences Bhubaneswar



Prof. Dr. Sabu Thomas Mahatma
Gandhi University Kottayam



Prof. Dr. Pritam Deb Tezpur
University Assam



Prof. Dr. R. Jayavel Anna
University Chennai

Distinguished Speakers



Prof. Dr. Yogesh Sharma
IIT Roorkee



Dr. Atya Kapley National
Environmental Engineering
Research Institute, Nagpur



Dr. Nagahanumaiah
Director MTI, Bengaluru



Prof. Dr. Madangopal C. Varshneya
Kamdhenu University Gandhinagar and Anand
Agricultural University, Anand



Dr. Atul Verma Adani
Green Energy Ahmedabad



Dr. Venkateswara Rao
Yadiapalli Godrej, Ahmedabad



Prof. Jitendra Sangwai
IIT Madras



Dr. K. Sammi Reddy
ICAR-National Institute of Abiotic
Stress Management Baramati



Prof. Deepak Pental
University of Delhi



Prof. Shyamal Kumar Saha
Notional Chong Kung
University, Taiwan



Dr. C.H. Janaki
CDAC Bengaluru



Dr. P. Hanumantha Rao
Director SAMEER,
Mumbai

Distinguished Speakers



Prof. K. Palanikumar
Sri Sai Ram Institute of
Technology, Chennai



Prof. Kumar Biradha
IIT Kharagpur



Prof. Kaushik Das Sharma
University of Calcutta



Prof. Shirish H.
Sonawane
NIT Warangal



Prof. Ramesh Chandra
IIT Roorkee



Dr. Ratheesh R
C-MET Hyderabad



Prof. Shailendra Kumar
Shukla
IIT BHU



Prof. Vilas Pol
Purdue University, USA



Dr. Pravin Patil
Cyber Security Consultant,
USA



Dr. (Mrs.) N. Kalaiselvi
Director General, CSIR B
Secretary DSIR, New Delhi



Dr. Akash Saxena
Central University of Haryana,
Mahendergarh



Dr. Ajaikumar B. Kunnumakkara
IIT Guwahati



Prof. Bhag Chand Chauhan
Central University,
Himachal Pradesh



Dr. Rafat Siddique Thaper
Institute of Engineering and
Technology, Birla



Prof. Ajay Soni
Indian Institute of
Technology Mandi



Dr. Vivek Kumar Singh
University of Delhi



Prof. B. Jayaram
IIT Delhi



Dr. Deepak Dubal
Queensland University of Technology
Australia



Dr. Rahul Salunkhe
IIT Jammu



Dr. Absar Ahmad
Aligarh Muslim University
New Delhi

PROGRAM SCHEDULE

19th July 2024 Friday	4:00 PM - 6:00 PM	Inauguration MIT World Peace University, Pune
20th July 2024 Saturday	10:00 AM - 6:00 PM	Technical Session Hotel Tip Top International, Pune
21st July 2024 Sunday	10:00 AM - 2:00 PM	Technical Session Hotel Tip Top International, Pune
	4:00 PM - 6:00 PM	Valedictory Function Hotel Tip Top International, Pune

Organizing Committee

Prof. Dr. techn. Murthy S.S.S. Chavali Yadav

Co-Convener, NSRTC 2024
Dean, Research & Development

Prof. Dr. S. Radhakrishnan

Emeritus Director
Research Development & Innovation

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Treasurer, NSRTC 2024
Associate Dean (Academics)
School of Engineering & Technology

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Co-Secretary, NSRTC 2024
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School of Science & Environmental Studies

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Co-Treasurer, NSRTC 2024
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Materials Science & Engineering

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Institute of Materials Science

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Prof. Dr. Shivprakash Barve

Mechanical Engineering

Dr. Anand D. Kulkarni

Chemical Engineering

Dr. Parul Jadhav

Electrical & Electronics Engineering

Dr. Prasad Kulkarni

Environmental Studies

Dr. Gopinath T.

Mechanical Engineering

For more details contact

Convener

National Scientists Round Table Conference for Viksit Bharat 2047

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INITIATED BY



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TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS



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