



Dr. Vishwanath Karad
**MIT WORLD PEACE
UNIVERSITY** | PUNE
TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS

Organizes



1st NATIONAL SCIENTISTS ROUND TABLE CONFERENCE 2024 FOR VIKSIT BHARAT 2047 (NSRTC)

19th, 20th & 21st July 2024

MIT-WPU and Hotel Tip Top International, Pune, Maharashtra, Bharat



The first round table conference of the Scientists of Bharat on **SCIENCE and TECHNOLOGY** for **ARTIFICIAL INTELLIGENCE, QUANTUM TECHNOLOGY, ADVANCED MATERIALS & MANUFACTURING, SUSTAINABILITY, HEALTH CARE, CLIMATE CHANGE, DIGITAL TRANSFORMATIONS, and SCIENCE & SPIRITUALITY** towards VIKSIT BHARAT

Patrons



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



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Former DG, CSIR



Dr. Vijay P. Bhatkar
Padma Bhushan Awardee
Founder Director, C-DAC



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Former Vice-Chancellor
ICT Mumbai



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Former DG, CSIR
Distinguished Professor
Bioinformatics Centre
SPPU, Pune



Prof. Dr. Ashutosh Sharma
Former Secretary, DST



Prof. Dr. M. S. Ramachandra Rao
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Vice Chancellor, MIT-WPU



Dr. Sanjay Kamtekar
Secretary, NSRTC 2024
Chief Academic Officer, MIT-WPU



Prof. Dr. Milind Pande
National Convener, NSRTC 2024
Pro Vice-Chancellor, MIT-WPU



Prof. Dr. Bharat B. Kale, FRSC
National Convener, NSRTC 2024
Director CoE (Materials Science), MIT-WPU
Former DG, C-MET, 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 transdisciplinary 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 **770+ teaching faculty members, 23000+ students among them 6700+ students of B. Tech., 940+ students of M. Tech. programs, and 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 : "National Scientists Round Table Conference (NSRTC)" is the first of its kind to be organized by Dr. Vishwanath Karad MIT World Peace University, Pune. The aim of this conference is to bring together leading academicians, 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 distinguished 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 for development, and new ways of delivery at unparalleled speed and scale with sustainability, all empowered by science and technology. 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.

The NSRTC 2024 is structured around the following eight broad 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



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



Prof. Dr. Ganapati D. Yadav
Former Vice-Chancellor
ICT Mumbai



Prof. Dr. Shekhar Mande
Former DG, CSIR
Distinguished Professor
Bioinformatics Centre
Savitribai Phule Pune University



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



Prof. Dr. Thalappil Pradeep
Padma Shri Awardee
IIT Madras



Dr. Ashok Joshi
Founder, Microlin Technologies
Founder, Clean Joule
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



Prof. Dr. Satishchandra B. Ogale
TCG-CREST Kolkata



Prof. Dr. Vijayamohanan K. Pillai
IISER Tirupati



Prof. Dr. Ajit Kulkarni
IIT Bombay



Prof. Dr. Samit K. Ray
IIT Kharagpur



Dr. Dinesh K. Aswal
Bhabha Atomic
Research Centre
Mumbai



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



Distinguished Speakers



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



Dr. Beena Rai
Tata Consultancy Services
USA



Prof. Dr. Amitava Patra
Institute of Nano Science
and Technology
Mohali



Prof. Dr. Bijoy K. Das
IIT Madras



Prof. Dr. Avinash Sonawane
IIT Indore



Ms. Priyamvada Vembar
Cybersecurity, Bosch
Bengaluru



Prof. Dr. Shrikant V. Joshi
UKA Tarsadia University
Bardoli



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



Dr. Ilangoan 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
IISc Bengaluru



Prof. Anil Sahasrabudhe
Chairman
National Educational Technology Forum
New Delhi



Prof. Dr. Raghunath Shevgaonkar
IIT Bombay
IIT Delhi



Prof. Dr. Neeraj Khare
IIT Delhi



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



Prof. Dr. Ashok K. Ganguli
Director
IISER Berhampur



Prof. Dr. Rajat Moona
Director
IIT Gandhinagar



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

Distinguished Speakers



Prof. Dr. Suresh W. Gosavi
Vice Chancellor
Savitribai Phule Pune University



Dr. Sasikumar M.
Executive Director
C-DAC
Mumbai



Prof. Dr. Debdeep Mukhopadhyay
IIT Kharagpur



Prof. Dr. B. L. V. Prasad
Director
Centre for Nano and
Soft Matter Sciences
Bengaluru



Prof. Dr. 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



Dr. Anil P. Dash
Director
High Energy Materials
Research Laboratory, Pune



Prof. Dr. Yogesh Sharma
IIT Roorkee



Dr. Atya Kapley
National Environmental Engineering
Research Institute, Nagpur



Dr. Nagahanumaiah
Director
Central Manufacturing
Technology Institute
Bengaluru



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



Dr. Atul Verma
Adani Green Energy
Ahmedabad



Dr. Venkateswara Rao Yadlapalli
Global R&D Head
Godrej, Mumbai



Prof. Dr. Jitendra Sangwai
IIT Madras



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



Prof. Dr. Deepak Pentel
University of Delhi



Prof. Shyamal Kumar Saha
National Cheng Kung University,
Taiwan



Dr. C.H. Janaki
C-DAC
Bengaluru



Dr. P. Hanumantha Rao
Director General
Society for Applied Microwave Electronics
Engineering & Research (SAMEER)
Mumbai

Distinguished Speakers



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



Prof. Dr. Kumar Biradha
IIT Kharagpur



Prof. Dr. Kaushik Das Sharma
University of Calcutta



Prof. Dr. Shirish H. Sonawane
NIT Warangal



Prof. Dr. Ramesh Chandra
IIT Roorkee



Prof. Dr. Shobha Shukla
IIT Bombay



Prof. Dr. Shailendra Kumar Shukla
IIT BHU
Varanasi



Prof. Dr. Vilas G. Pol
Purdue University, USA



Dr. Pravin Patil
Cyber Security Consultant
USA



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



Prof. Dr. Akash Saxena
Central University of Haryana



Prof. Dr. Ajaikumar B. Kunnumakkara
IIT Guwahati



Prof. Dr. Bhag Chand Chauhan
Central University
Himachal Pradesh



Prof. Dr. Rafat Siddique
Thapar Institute of
Engineering and Technology
Patiala



Prof. Dr. Ajay Soni
IIT Mandi



Prof. Dr. Vivek Kumar Singh
University of Delhi



Prof. Dr. B. Jayaram
IIT Delhi



Prof. Dr. Deepak Dubal
Queensland University of
Technology, Australia



Prof. Dr. Rahul Salunkhe
IIT Jammu



Prof. Dr. Absar Ahmad
Aligarh Muslim University
Aligarh

Distinguished Speakers



Dr. Hemant Darbari
National Supercomputing Mission
C-DAC, Pune



Prof. Dr. Ahlad Kumar
National Forensic Sciences
University, Gandhinagar



Prof. Dr. Ambrish Singh
Nagaland University



Prof. Dr. Utpal Bora
Tezpur University
Assam



Prof. Dr. Dinesh Amalnerkar
Savitribai Phule Pune University



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National Chemical Laboratory
Pune



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Department of Scientific
and Industrial Research
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Kanya Maha Vidyalaya
Jalandhar



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Sathyabama Institute of
Science and Technology
Chennai



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Rasayu Clinic, Pune



Dr. Vijay Deshmukh
Smilex, Pune



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Chief Technology Officer
Aditya Birla Science &
Technology, Mumbai



Dr. Vilas K. Kharche
Director R & D
Dr. Panjabrao Deshmukh
Krishi Vidyapeeth
Akola



Prof. S. K. S. Parashar
Kalinga Institute of
Industrial Technology
Bhubaneswar



Prof. Dr. Parvinder Singh
Rayat-Bahra University
Greater Mohali



Prof. Dr. Siba Kumar Udgata
University of Hyderabad



Prof. Dr. A. Vadivel Murugan
Pondicherry University



Distinguished Speakers



Dr. Richard Lobo
TATA Chemicals, Singapore



Prof. Dr. R. Jayavel
Anna University
Chennai



Dr. Omkar Singh
NIT Srinagar



Dr. K. S. Konde
Vasant Dada Sugar Institute
Pune



Dr. Sanjay Kumar Singh
ICAR- Central Institute for
Subtropical Horticulture
Lucknow



Prof. Dr. Vikram V. Dabhade
IIT Roorkee



Dr. Praveen C. S.
Cochin University of Science
and Technology, Kochi



Dr. Sarang Gumfekar
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Prof. Dr. Dipshikha Chakravorty
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Ms. Priyanka Kasture
Founder, Age of Geeks
Pune



Mr. Aishwary Jagetia
Neurala, Boston, USA



Prof. Dr. Ashok C. Khandkar
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CEO, Elute, USA



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Mr. Amol Chaphekar
StrataEnviro Pvt Ltd.
Pune



Dr. P. Sujatha Devi
National Institute for Interdisciplinary
Science and Technology
Thiruvananthapuram



Prof. Dr. Jay P. Gore
Purdue University, USA



Dr. Mansa R. Nouni
Adviser
Ministry of New and Renewable
Energy Sources, Govt of India



Prof. Dr. D. P. Kothari
Director Research
Gaikwad Patil Group of Institutions
Nagpur



Dr. Ranjit Kashid
National Center on Quantum
Materials Technology
C-MET, Pune



Prof. Dr. Koustuv Dalal
Mid Sweden University
Sweden

Distinguished Speakers



Dr. Kakoli Bose
Advance Centre for
Treatment Research &
Education in Cancer
Navi Mumbai



Prof. Dr. Abhijit Mukherjee
IIT Kharagpur



Dr. Pramod H. Borse
International Advanced
Research Centre for
Powder Metallurgy & New Materials
Hyderabad



Dr. Soumen Basak
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of Immunology
New Delhi



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IIT Jammu



Dr. Pratap Sanap
Neilsoft
Pune



Prof. Dr. Sachin Rondiya
IISc Bengaluru



Prof. Dr. Shivaji H. Pawar
Center for Research and
Technology Developments
Sinhgad Institutes, Solapur



Shri. Sunil Gupta
Co-founder & CEO
QuNu Labs
Bengaluru



Dr. A. K. Prakash
Vice President (R&D)
Varroc Engineering Ltd.
Aurangabad



Shri. Jayam Sonani
Diamond Elements Ltd.
Surat



Dr. Dhiraj Kumar
ICGEB
New Delhi



Prof. Dr. Sunil S. Bhagwat
Director
IISER Pune



Dr. Ashok P. Giri
National Chemical Laboratory
Pune



Prof. Dr. Ramakrishna Bhat
IISER Pune



Prof. Dr. Rajesh S. Bhosale
Dean, Research & Development
Ganpat University
Mehsana



Prof. Dr. Deepak M. Ranade
Consultant Neurosurgeon
Author, Speaking Tree, Tol
Pune



Prof. Dr. Bharat B. Kale, FRSC
MIT-WPU



Prof. Dr. Milind Pande
MIT-WPU



Prof. Dr. techn. Murthy S.S.S. Chavali Yadav
MIT-WPU



Distinguished Speakers



Prof. Dr. Priyankar Upadhyaya
MIT-WPU



Prof. Dr. Varsha G. Desai
MIT-WPU



Prof. Dr. Anand J. Kulkarni
MIT-WPU



Prof. Dr. Anuradha Phadke
MIT-WPU



Prof. Dr. Apoorva Shastri
MIT-WPU



Prof. Dr. Gopinath T
MIT-WPU

“
The idea that machines can't do things humans can is a pure myth.

Marvin Minsky”

“
Clean water is a great example of something that depends on energy. And if you solve the water problem, you solve the food problem.

Richard Smalley”

“
There may be a conflict between softminded religionists and toughminded scientists, but not between science and religion.

Martin Luther King, Jr.”

“
When digital transformation is done right, it's like a caterpillar turning into a butterfly, but when done wrong, all you have is a really fast caterpillar.

George Westerman”

“
The real problem is not whether machines think but whether men do.

John McCarthy”

“
If agriculture goes wrong, nothing else will have a chance to go right in the country.

M.S. Swaminathan”

“
Biotechnology is providing us with the opportunity to literally write the software of life.

Ray Kurzweil”

“
At least 40% of all businesses will die in the next 10 years... if they don't figure out how to change their entire company to accommodate new technologies.

John Chambers”

“
Carbon, the basis of all known life on earth, has surprised us once again.

Andre Geim”

“
Civilization as it is known today could not have evolved, nor can it survive, without an adequate food supply.

Norman Ernest Borlaug”

“
Technology was developed to prevent exhausting labor. It is now dedicated to trivial conveniences.

B. F. Skinner”

“
We are running the most dangerous experiment in history right now, which is to see how much carbon dioxide the atmosphere can handle before there is an environmental catastrophe.

Elon Musk”

“
The absence of evidence is not the evidence of absence.

Carl Sagan”

“
Science knows no country, because knowledge belongs to humanity, and is the torch which illuminates the world.

Louis Pasteur”

“
My legacy is going to be in affordable health care. I am willing to invest in developing that model and the policies around it.

Kiran Mazumdar-Shaw”

“
Law has become a business. Health care has become a business. Unfortunately, politics has also become a business. That really undermines society.

George Soros”

PROGRAM SCHEDULE

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

Prof. Dr. Dinesh Seth
Dean
Faculty of Engineering & Technology

Dr. Vikrant Gaikwad
Treasurer, NSRTC 2024
Associate Dean (Academics)
School of Engineering & Technology

Prof. Dr. Anup Kale
Co-Secretary, NSRTC 2024
Associate Dean
School of Science & Environmental Studies

Dr. Malhari Kulkarni
Co-Treasurer, NSRTC 2024
Associate Professor
Materials Science & Engineering

Prof. Dr. Neeraj Mahindroo
School of Pharmacy

Prof. Dr. Krishna K. Warhade
Director, Doctoral Program

Prof. Dr. Bharat Chowdhury
Electrical & Electronics Engineering

Prof. Dr. Mangesh Bedekar
School of Computer Science & Engineering

Prof. Dr. Nirupama Kocherlakota
School of Liberal Arts

Prof. Dr. Anand J. Kulkarni
Institute of Artificial Intelligence

Prof. Dr. Sarita R. Zele
Institute of Materials Science

Prof. Dr. Samarth D. Patwardhan
Petroleum Engineering

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 (NSRTC) for Viksit Bharat 2047

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Dr. Vishwanath Karad
MIT WORLD PEACE UNIVERSITY | PUNE
TECHNOLOGY | RESEARCH | SOCIAL INNOVATION & PARTNERSHIPS



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