

The ascent continues...



**JAWAHARLAL NEHRU CENTRE
FOR ADVANCED SCIENTIFIC RESEARCH**

Jakkur, Bengaluru 560 064 INDIA

Ambience for Excellence

**“Science is organised knowledge.
Wisdom is organised life”**
- Immanuel Kant



JNCASR at IISc Campus - 1989



1. Jawahar Visitors House IISc Campus - 1991
2. JNCASR office at IISc Campus
3. Admin-entrance - 1995
4. Site for establishing JNCASR at Jakkur -1991
5. Entrance Foyer - 1995

JNCASR, Jakkur - MAIN ENTRANCE - 1995





Quadrangle at Main Entrance - 1995



Pauling Building - 1996

Library - 1995



The Bucky Ball
Dome at
Pauling Building

Advanced Materials Research Lab Entrance - 1999





Conference Hall - 1999

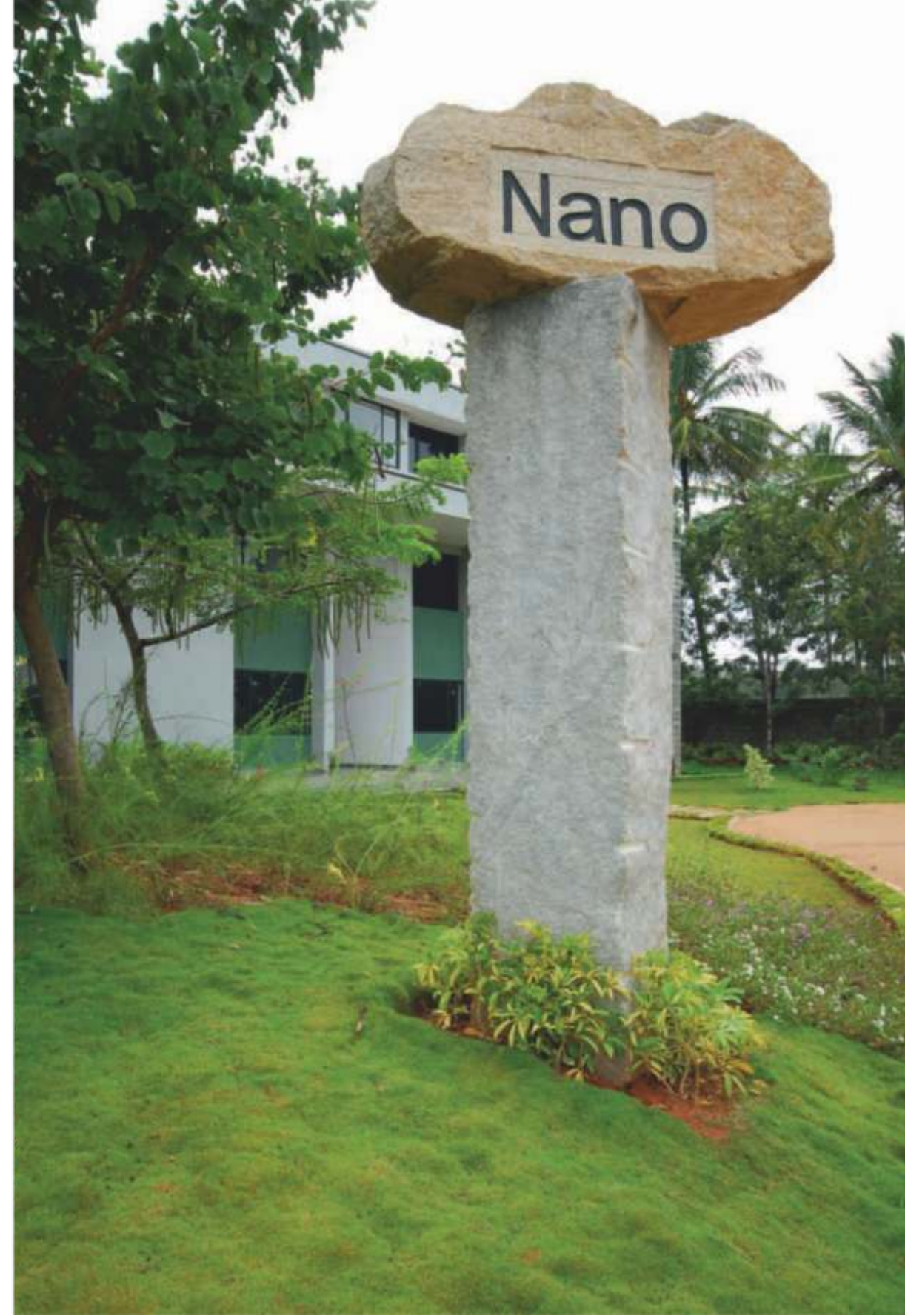


College Building - 2001

Engineering Mechanics Unit Building - 2007



Kanada Auditorium - 2008





International Centre for Materials Science - 2008

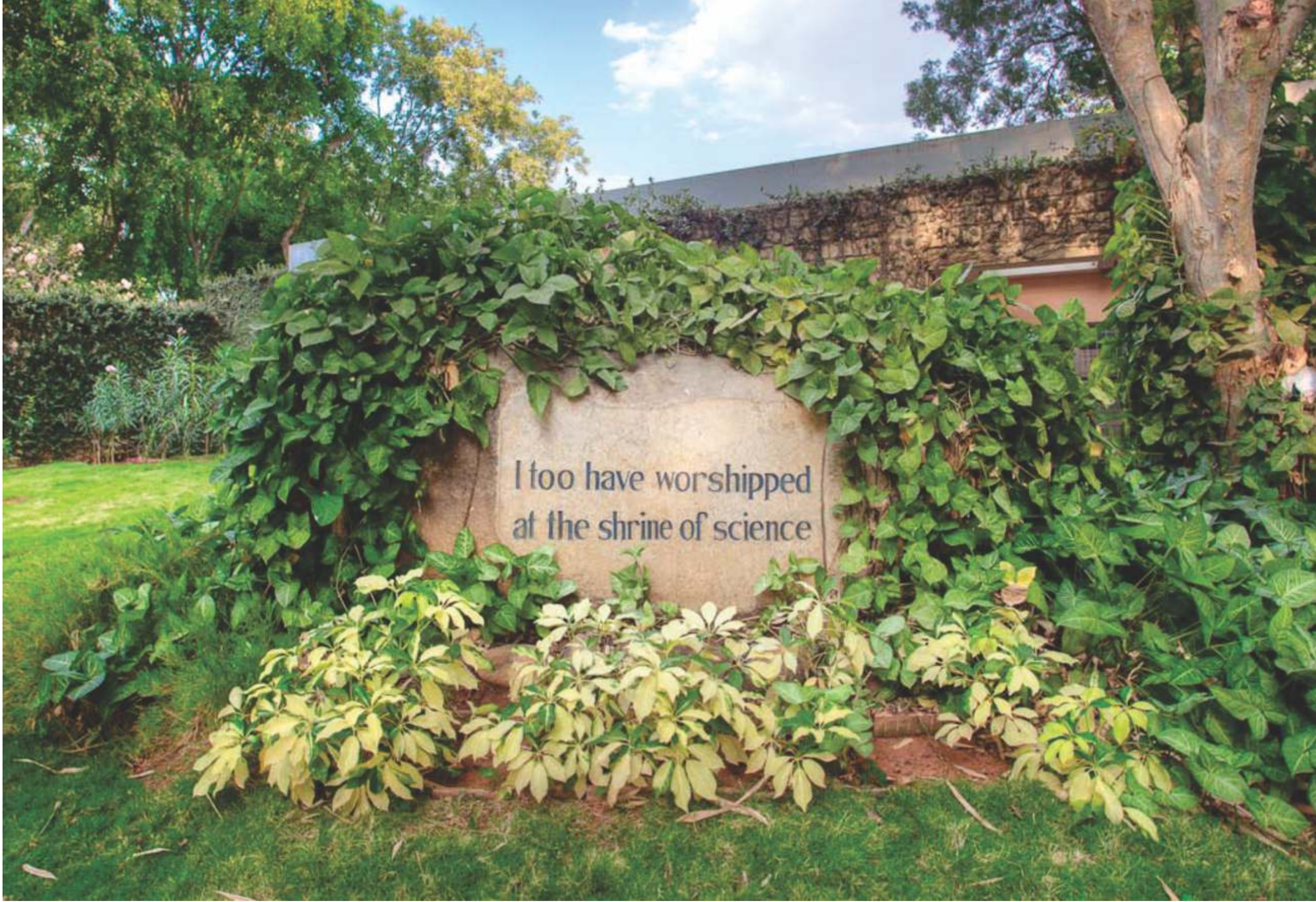


1. Dhanavanti Health Services - 2011
2. Dining Hall - 2008
3. Museum at Hall of Science - 2008
4. New Evolutionary & Organismal Biology Unit Building - 2013

◀ CCM Sheik Saqr Lab - 2013

Molecular Biology & Genetics Bldg - 2010 ▶



A stone plaque is the central focus, set within a lush garden. The plaque is rectangular and light-colored, with the text "I too have worshipped at the shrine of science" engraved in a dark, serif font. The plaque is framed by a dense, arching structure of dark green, heart-shaped leaves. In the foreground, several smaller plants with light green, rounded leaves are arranged in a row. The background features a stone wall, a large tree on the right, and a blue sky with scattered white clouds. The overall scene is bright and verdant.

I too have worshipped
at the shrine of science

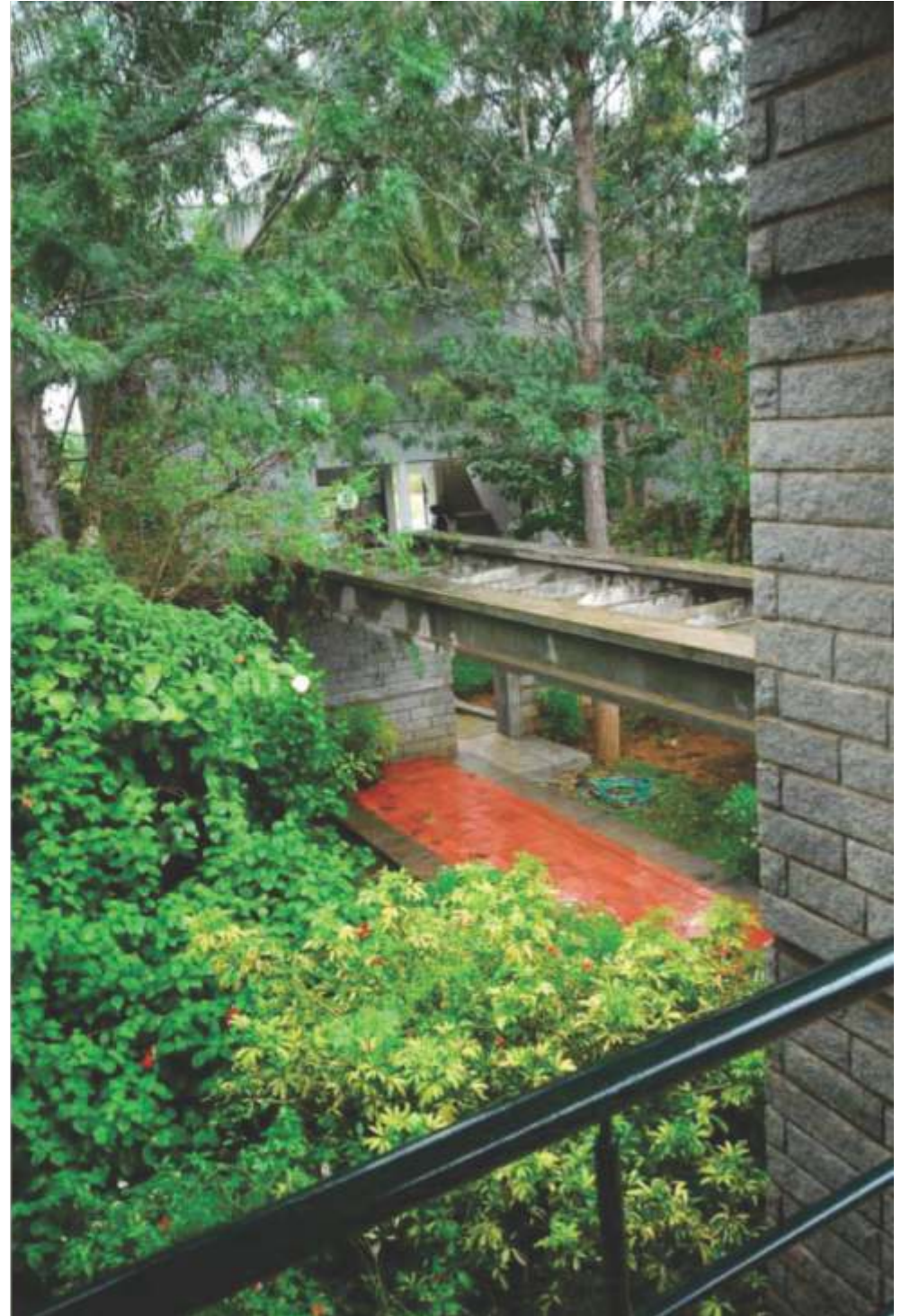


At JNCASR, the harmony between Nature and Buildings is maintained at the highest priority.





A Garden is a friend you can visit anytime.







*Look deep into Nature,
and then you will understand everything better...*

Synergistic Infrastructure

**“Science and Technology revolutionize our lives,
but memory, tradition and myth frame our response.”**

- Arthur M Schlesinger

Administrative Block

Efficient
Administration



Computer Lab



Digital Instructional Classroom



Library



New Council Room



Kanada Building

Creche



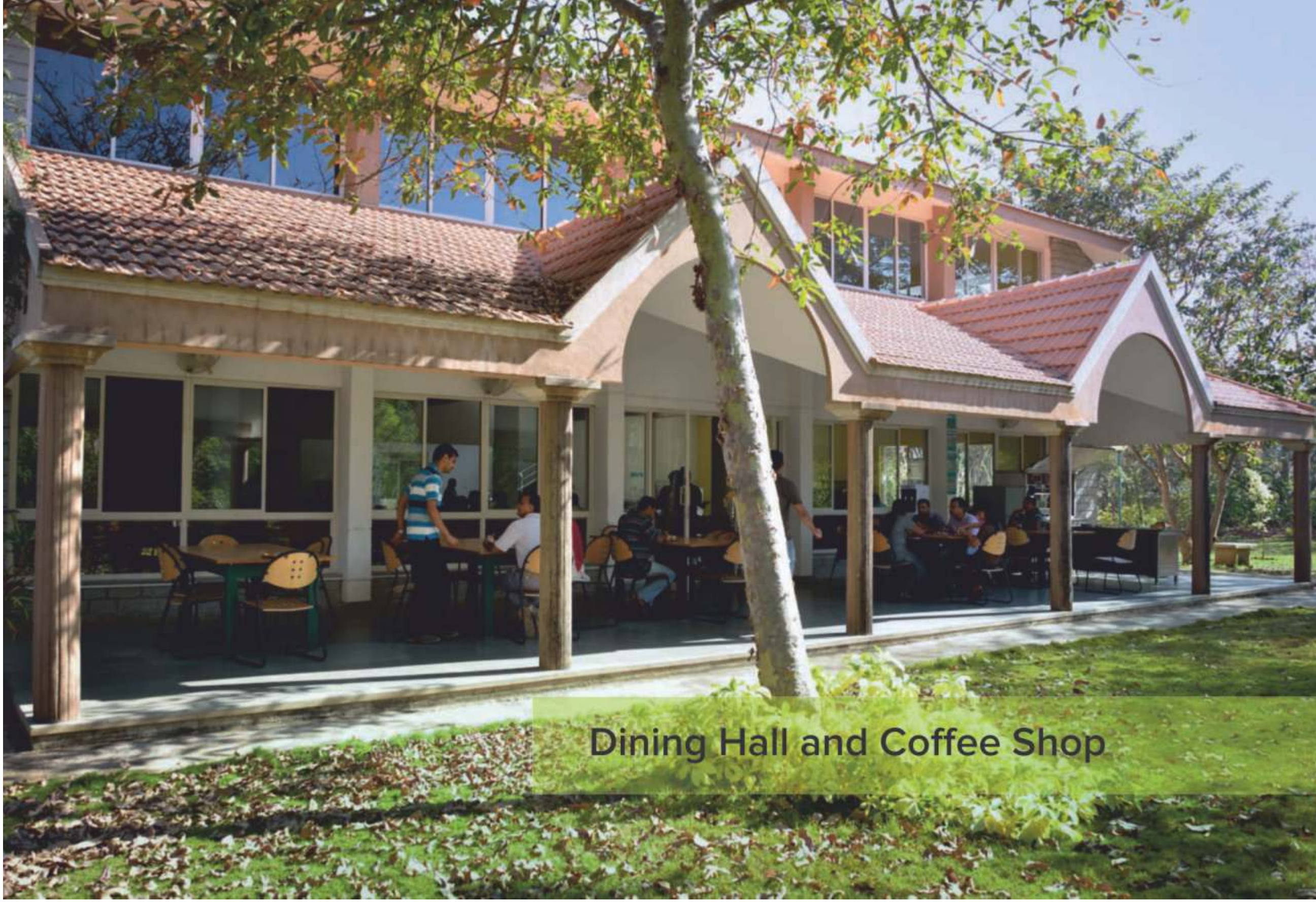
Dhanvantari Health Service



Visiting Students Hostel



Hostel



Dining Hall and Coffee Shop



**JAWAHARLAL NEHRU CENTRE
FOR ADVANCED SCIENTIFIC RESEARCH**
Jakkur, Bengaluru 560 064, INDIA





Campus Life of Students



Student Life

Badminton



Table Tennis



TV Room



Dining Area



Gym



Those who make it happen

**“Facts are the air of scientists.
Without them you can never fly.”**
- Linus Pauling

Presidents



C. N. R. Rao, FRS



V Krishnan



M R S Rao



K S Narayan (President In-charge)

Honorary Faculty



Roddam Narasimha, FRS



K S Valdiya



K B Sinha



H Ila



M R S Rao



Honorary Professors

MBGU

Molecular Biology and Genetics Unit is well-recognized for its research programmes and training in broad areas of biological and biomedical sciences. Research in its nine laboratories spans diverse areas of modern biology with emphasis on biomedicine. The current areas of research include infectious diseases, cancer genomics, human neurological disorders, mammalian stem cells cardiovascular development, transcription regulation and mechanism of chromosome segregation.

Hemalatha Balaram



Kaustuv Sanyal



M R S Rao



MBGU

Maneesha Inamdar



Namita Surolia



Anuranjan Anand

Ravi Manjithaya



Tapas K Kundu



Udayakumar Ranga

A Sundaresan



Chandrabhas Narayana



G U Kulkarni



CMPU



S Balasubramanian

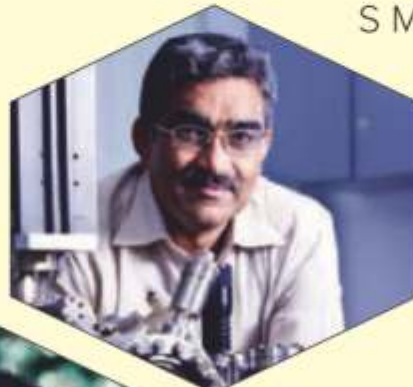
C. N. R. Rao, FRS



K S Narayan



S M Shivaprasad



M Eswaramoorthy



Tapas Kumar Maji

CPMU

Materials research in the **Chemistry and Physics of Materials Unit** spans a wide variety and includes work on nanomaterials, multifunctional materials, organic solar cells, hybrid materials, catalysts, optoelectronic materials and green solvents. The goal in these studies is the design and synthesis of novel architectures and its relationship to properties emanating thereof. Work on water splitting to generate hydrogen has also been initiated.

S M Shivaprasad



Rajesh Ganapathy



ICMS



C. N. R. Rao,
FRS



Ranjan Datta



Sridhar Rajaram

ICMS

International Centre for Materials Science is devoted to carry out high impact interdisciplinary research, promote collaborations, personnel exchange, organize discussions and meetings and promote education in Advanced Materials Science.

The ongoing research programs are Chemistry of Materials, Surface physics Soft Condensed Matter and low-dimension materials and other aspect of Materials Science. The Centre now houses several sophisticated research facilities such as molecular beam, epitaxy and other growth system, ultra high resolution TEM and state-of-the-art optical,, electrical and magnetic characterization probes.



EMU

K R Sreenivas



Roddam
Narasimha, FRS



Ganesh
Subramanian



Meheboob
Alam



Santosh
Ansumali

EMU

Engineering Mechanics Unit pursues research on a variety of topics where fluid and heat transfer play a critical role in providing insight into various phenomena. Research work done in the Unit has relevance in many technological applications and variety of phenomena encountered in nature.

Research on dynamics of suspensions, bubbly and granular flows explore fundamental-problems and their applications in chemical and other technologies.

EOBU



Vijay Kumar Sharma



Amitabh Joshi



T N C Vidya

EOBU

Evolutionary and Organismal Biology Unit is one of the principal centers in the country for research and training in chronobiology, evolutionary genetics, population ecology, behavioural neurobiology, behavioural ecology and phylogeography. We do mostly empirical research, both in the lab and in the field, using a combination of experimental tools from evolutionary quantitative genetics, molecular genetics, neurobiology, developmental biology, animal behavior, and population biology. We also conduct theoretical research, largely through computer simulations of mathematical models of biological processes.

NSU

Neuroscience Unit is a new academic unit established in November 2014. It is broad in its reach and extends from studies involved in understanding the unique molecular and biophysical properties of neuronal cells and their partners, as well as emergent properties of neuronal networks. The unifying theme of this Unit is to study the various aspects of nervous systems.

NSU



M R S Rao



James P Chelliah



Sheeba Vasu

NCU

New Chemistry Unit works on interdisciplinary aspects of chemical science. The most important areas that are actively pursued are at the interface of chemical biology, chemical Science and materials Science. Some of the specific areas of research are Inorganic nanaomaterials, carbon based nanaomaterials, Chemical storage of hydrogen, organic synthesis, peptides and nucleic acids, biomaterials, organic and supramolecular chemistry, antimicrobial agents, drug discovery, drug delivery systems, patternable polymers, conducting polymers, theoretical chemistry, and catalysis.



Jayanta Haldar



Ranjani Vishwanatha



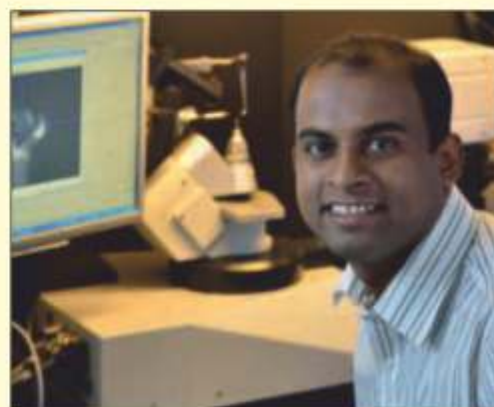
C N R Rao, FRS



Subi J George



T Govindaraju



Sebastian Peter

Kavita Jain



K B Sinha



N S Vidhyadhiraja



Meher Prakash



TSU

Shobhana
Narasimhan



Srikanth Sastry



Umesh V Waghmare

Subir K Das



Swapan K Pati



TSU

The research in **Theoretical Sciences Unit** is inspired by two complementary approaches to the study of matter and life: the search for universality, and the exploration and explanation of diversity.

GDU



K S Valdiya



C P Rajendran

Geodynamics Unit

ETU

Educational Technology Unit



Some Scientific Accomplishments

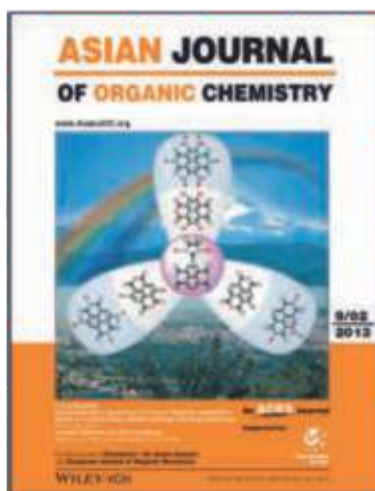
**“If it cant be expressed in figures,
it is not science - it is only an opinion.”**

- Robert Heinkein

Govindaraju's coverage
image in Advance Functional Materials



Govindaraju Cover Image



Journal of Chemical Sciences,
Govindaraju



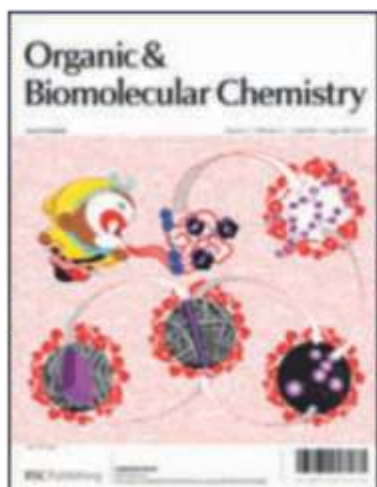
Govindaraju's research
image in ChemComm



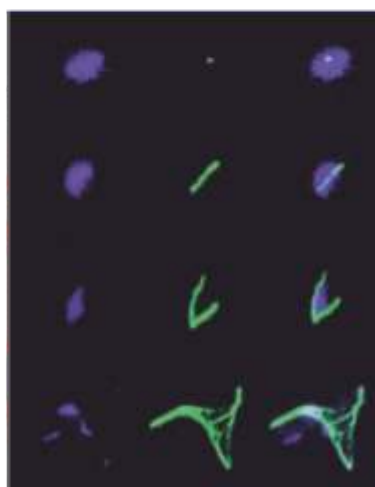
Govindaraju's image in
Chemistry A European journal



Govindaraju's image in
Organic & Biomolecular Chemistry



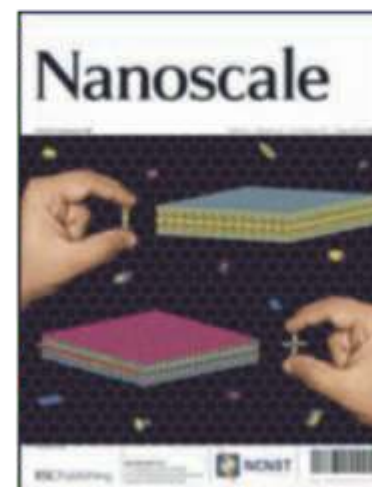
Dr. Kaustav Sanyal at Eurkyatic Cell



Dr. Kaustav Sanyal mBio cover image



Govindaraju's cover image in Nanoscale



**Beautiful outcome
of the cutting edge
scientific research**



Administrative Staff



Academic and Extension Office Staff



ICMS Staff with Director



Presidents Office staff and officer at Jakkur Campus



Dinning Hall Staff



Library Staff 1999



Library Staff 2005



Housekeeping Staff



Jawahar Visitor House IISc Campus Staff



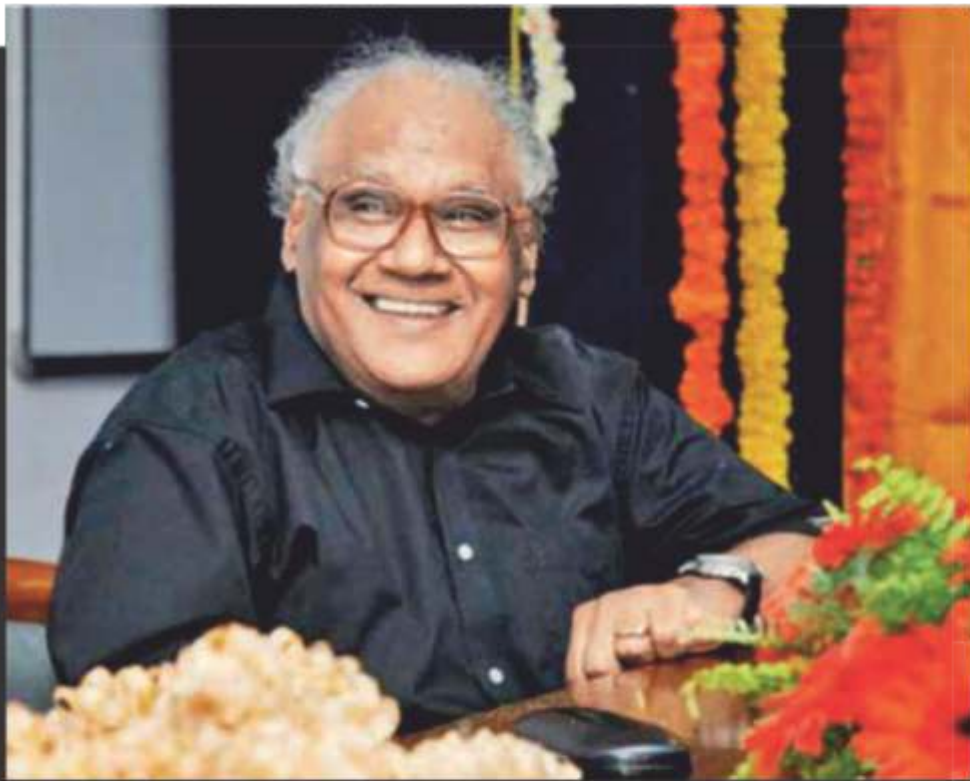
Presidents Office Staff IISc Campus

Our Illustrious Founder President

**“Climbing the Limitless Ladder:
A Life in Chemistry”**



Receiving the Bharat Ratna from
Shri Pranab Mukherjee, President of India



Initiating, propagating
and supporting
Nano Science in India



with his students



Chairman of Scientific Advisory Council to the Prime Minister



**SHAPING THE
NATIONAL POLICY
FOR SCIENCE EDUCATION
AND RESEARCH
OVER DECADES...**



In conversation with Mr. Narendra Modi, Prime Minister of India

Equipment

Tools and Probes for Molecular Design

**“An experiment is a question science poses to Nature,
and a measurement is recording of Nature’s answer”**

- Max Planck



TITAN
Aberration Corrected
Transmission Electron Microscope

Equipped with instruments to determine the structure and properties of molecules and materials at the atomic scale.



Fruit Fly Experiment

Molecular Beam Epitaxy



Brillouin scattering



Gene Sequencing



EMU-laser

Surface Sensitive Probes
XPS-AES



Physical Property
Measurement System



TECNAI - TEM



Automatic Layer Deisition

Supercomputer



Biology Lab



FESEM



X-Ray Diffraction

Chromatin Biology
and Genomics Lab



Small Angle
X-Ray Scattering - SAXS



Supramolecular
Chemistry Lab



Device Fabrication
Clean Room



SQUID Magnetometer



High Resolution X-Ray Diffraction

TITAN: Ultra High Resolution Electron Microscope



Nuclear Magnetic Resonance



*Momentous Occasions and
Distinguished Visitors*

**“No one should approach the temple of science
with the soul of a money changer”**

- Thomas Browne

From leaders of democracy to rulers from around the world
visit JNCASR for a noble cause of science



Inauguration of Jakkur Campus

Honorary Fellowship to
Prof. M S Swaminathan



Honorary Fellowship to
Shiekh Saud Bin Saqr Qasimi



Honorary Fellowship to
Mr. Narayan Murthy - Infosys



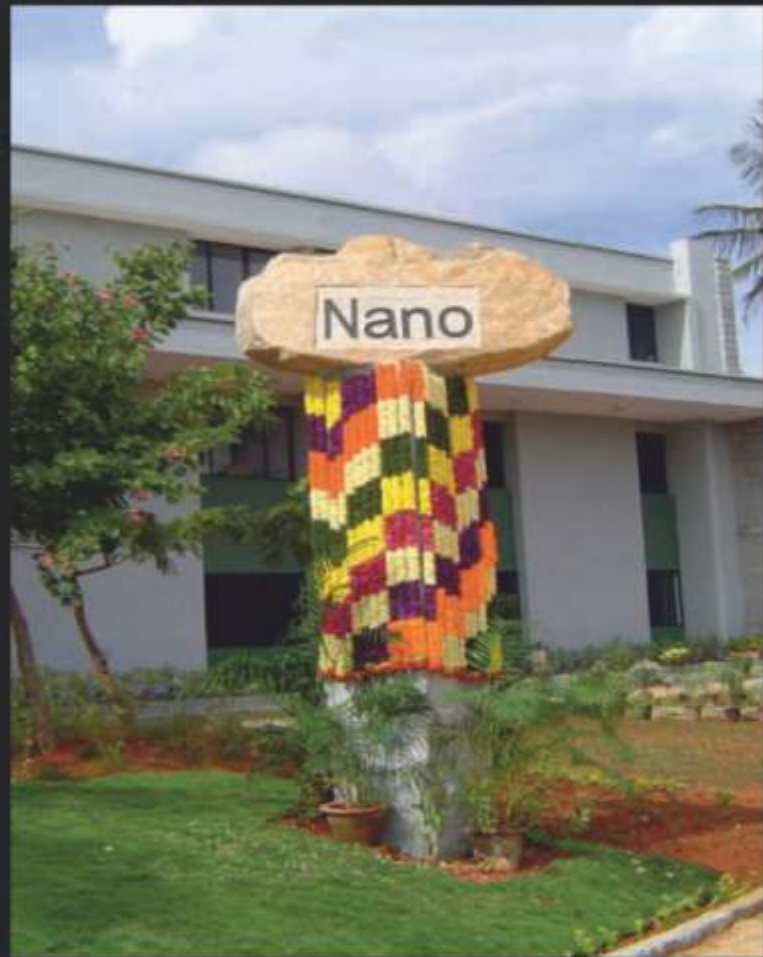
Honorary Fellowship to
Dr. Manmohan Singh

Dr. Manmohan Singh inaugurating
ICMS and CNR Rao Hall of Science



Inaugural Stones of
ICMS and CNR Rao Hall of Science





Inauguration of Nano Building by Shri. Kapil Sibal



Inauguration of Madan Mohan Malaviya Amphitheatre
by Prof. Bengt Norden and Prof. Richard Zare



Inauguration of CCMS-SSL
by Sheik Saud Bin Saqr Qasimi



Prof. M R S Rao in a committee to identify great minds



Prof. M R S Rao receiving the 'Padma Shree' from the President of India

International Links



Signing of MoU between JNCASR and iCeMS, Kyoto



MoU with A. Cheetam



MoU with University of Queensland



MoU with Kyoto

Visitors



James Watson - NL



Daniel Nocera



M K Bhan



Micheal-Gretzel

Visitors



K VijayRaghavan



Martin Rees



Akira Ishihama



T Ramasami

Visitors



Andre Geim - NL



Anthony Cheetham



J M D Coey



Jean-Marie Tarascon

Visitors



Ahmed H. Zewail - NL



Alan Heeger - NL



Richard N Zare



Spenta Wadia

Visitors



Jules Hoffmann - NL



David Gross - NL



Shiekh Saud Bin Al Qasimi



Sonia Gandhi

Visitors



Montek Singh Ahluwalia



Manmohan Singh, Prime Minister of India



Prof. Makame Barawa, Minister of sci-tech and communications, Republic of Tanzania



Ramchandra Guha

Visitors



Jairam Ramesh, Minister



Dr D V Rajakumar, Neurosurgeon - Fortis Hospital



Kapil Sibal, Minister



Rawat, Minister

Visitors



Jaipal Reddy, Minister



A P J Abdul Kalam, President of India



**Manmohan Singh, Prime Minister of India
and Yeddyurappa, Chief Minister of Karnataka**



K R Narayanan, Vice-President of India

Visitors



Vikram Sampath, ISRO Satish Dhawan Lecture



S M Krishna, Chief Minister of Karnataka



Justice Sujata Manohar



Justice Venkatachaliaha



Messages from Distinguished Visitors

How wonderful to have had the opportunity of
visiting the S.N. Centre at the time of its inauguration.
My gratitude for inviting me to this occasion and
all my good wishes for the glorious success of the Centre

Narayanank. R.
4-3-55

K R Narayanan, President of India

This visit (actually, the second in my life)
was again a great moment for me.
I love the Science which is being done here
and I love the atmosphere of the campus,
and above all the enthusiastic assistance
from the seniors and the students.
With the hope of coming back one day

Jules Hoffmann
12.10.2012

Jules A Hoffmann, Nobel Laureate

It is a real pleasure to give
to a Bangladeshi

James D. Watson

9 January 1999

James D Watson, Nobel Laureate

I am very impressed by this beautiful campus, designed on a very human scale, to encourage creative thinking in science. I hope to visit you often in the years ahead.

Bruce Alberts
National Academy of Sciences
Washington DC, USA

Bruce Alberts

A journey into the future. Exciting, enchanting and full of promise. A centre of excellence of unique values headed by a man who is larger than life and has gone India proud. Thanks to this Centre India will find a place of pride in the future of nano-technology


Michael
25/2/11

my father who I would be very happy of this scientific monument. It is my personal delight to meet and congratulate my friend Prof CN KAO whose leadership has been vital in the outcome of wonderful research facility. All the best.

26.8.2013

Dear Ramu
This centre is a wonderful achievement

Harry Kroto



Harry Kroto, Nobel Laureate

Together with my delegation I was highly pleased to visit the jewel-encased Nehru Centre for Advanced Scientific Research - a leading Indian institution. We hope to establish a co-ordinated program between the Centre and our partner Brazilian institutions, thus furthering the cause of the co-operation between our two countries.

26.8.2013

Antonio
Minister of Science and Technology, Brazil

Minister of Science and Technology, Brazil

I am inspired to visit
 the Great Institute JNCASR.
 Great discoveries will emanate as a result
 from the Institute.
 My regards
 A.P.J.

Dr. A P J Abdul Kalam, President of India

I am delighted to visit JNCASR
 Institute an oasis of science
 and enjoyed to witness the wonderful
 growth it has achieved since
 my last visit. I was touched
 by the warmth and commitment
 of the student staff and professors.
 It is a remarkable achievement.
 We are deeply proud of our
 contribution through Sheikh
 Saqr bin Mohammed Al Qasbi

Sheik Saqr, RAK

In hope of continuing and strengthening
 relations with science in the UK — and
 in appreciation of your hospitality and friendship

Martin Rees
 11. Jan 2007

Martin Rees

I have thoroughly enjoyed
 my visit to JNCASR. It is without
 doubt becoming a premier centre
 of scientific research in India.
 My best wishes to Prof. C.N.R. Rao and
 his colleagues and congratulations to them
 for the wonderful work they are
 doing.

14-05-06

H.D. KUMARASWAMY
 CHIEF MINISTER
 KARNATAKA

H D Kumaraswamy, Chief Minister of Karnataka

May we congratulate Prof Rao
 and his colleagues for what has been
 created here at the JNCASR under
 their leadership.

It raises the level of all Indians
 living abroad and reestablishes our pride
 in India.

Lord & Lady Pane

Lord & Lady Pane

Chemistry is beautiful,
 exciting, and beneficial
 for mankind.

2006. 11. 2

Ryoji Noyori
 RIKEN

Ryoji Noyori, Nobel Laureate

Outreach and Science Dissemination

**“Science is not only a disciple of reason but,
also, one of romance and passion.”**

- Stephen Hawking

You have enemies? Good.

That means you've stood up for something,
sometime in your life.

- Winston Churchill



Experiments by Prof CNR Rao





Introducing and Inspiring Young Generation to the Excitement in Science



CNR Rao Hall of Science



Attentive School Children



K R Sreenivas Demonstration

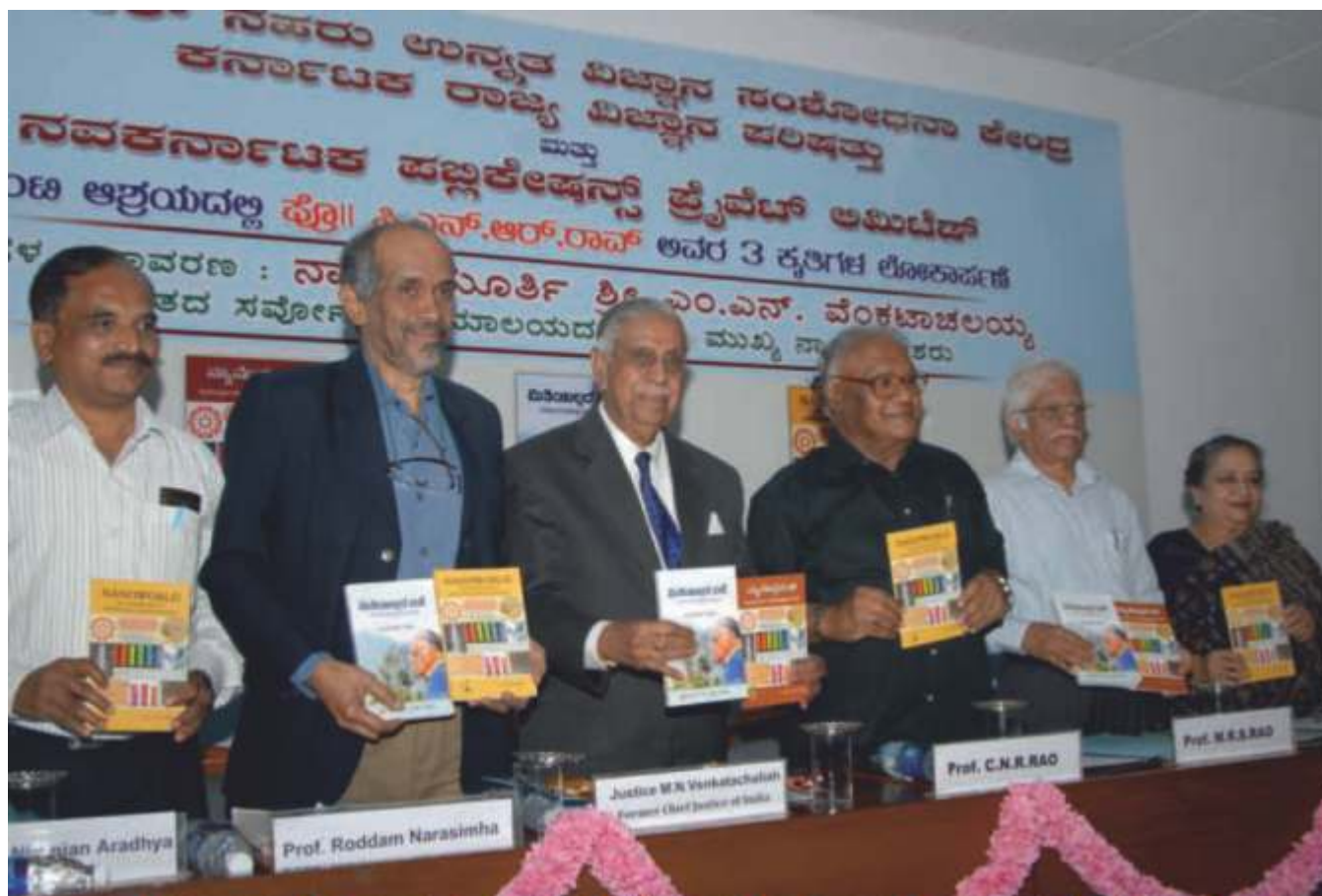


Science Teacher Awards

The Science of today is the technology of tomorrow

- E. Teller





Nano Book Release



Outreach at Uttaranchal



Project Oriented Chemistry Education

The important thing is
never to stop questioning.

- A Einstein



cultural programmes

Silver Jubilee Celebrations



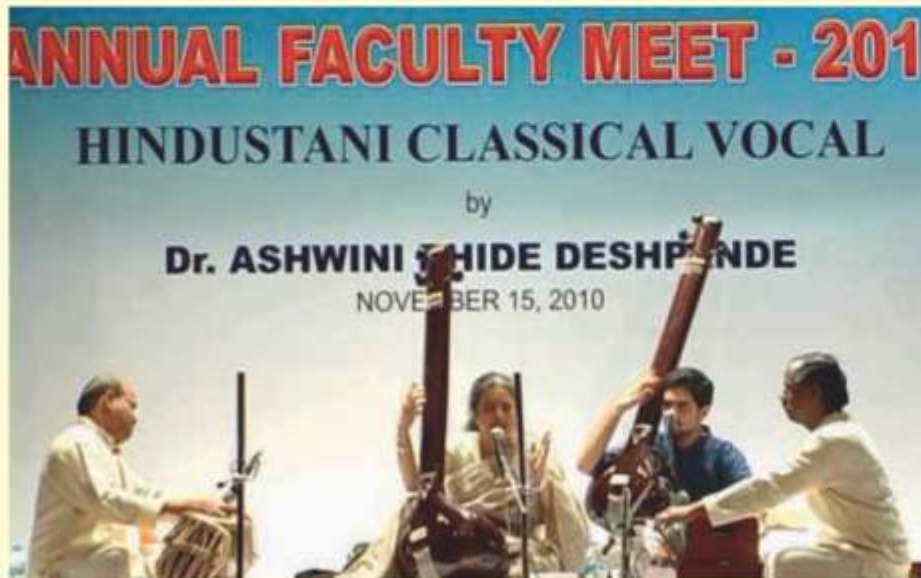
Sarod Concert by Ustad Amjad Ali Khan, Ayan Ali Khan and Amaan Ali Khan



Smt. Kaushiki Desikan



Pt. Ganapati Bhat



Dr. Ashwini Bhide Deshpande



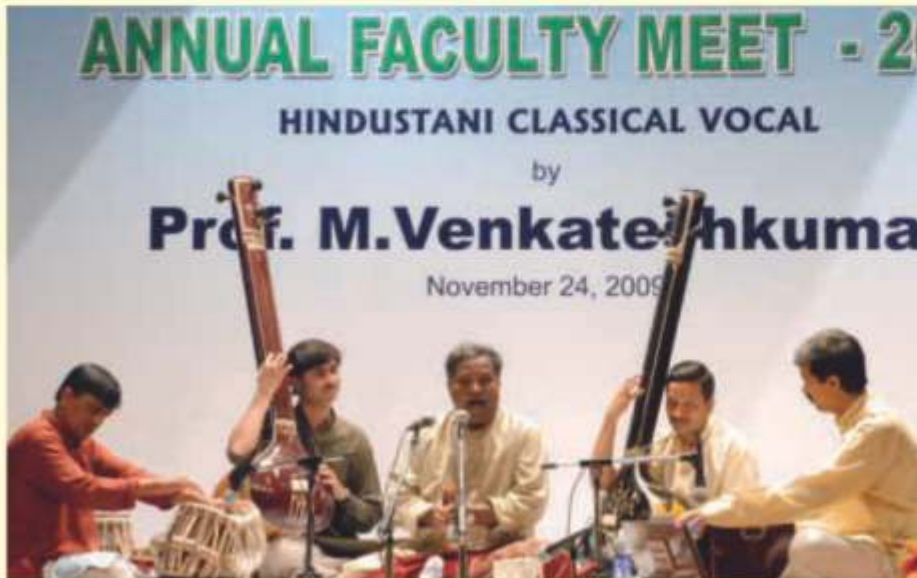
Smt. Manasi Prasad



Pt. Vinayaka Thorvi



Sri. Amit Nadig



Sri. M. Venkateshkumar



Sri. Pravin Godkhindi

Funded by governments and industries from all over the world

National Agencies :



International Agencies :



Private Agencies :



