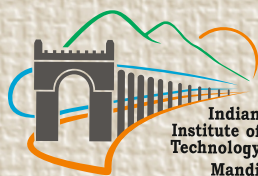


Indian Institute of Technology Mandi

4th

Convocation

10-10-2016

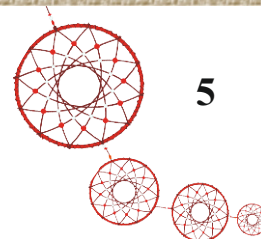


Scaling the Heights



SHRI PRANAB MUKHERJEE

**THE PRESIDENT OF INDIA
GOVERNMENT OF INDIA**

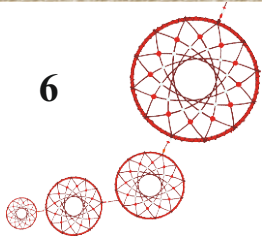


MESSAGE FROM THE HONORABLE PRESIDENT OF INDIA

The President of India, Shri Pranab Mukherjee, is happy to know that the Indian Institute of Technology Mandi, is organising its Fourth Convocation on October 10, 2016.

The President extends his warm greetings and felicitations to the faculty, staff and the graduating students of the Institute and sends his best wishes for the success of the Convocation Ceremony.

SHRI PRANAB MUKHERJEE



SHRI MOHAMMAD HAMID ANSARI

**THE HONORABLE
VICE PRESIDENT OF INDIA
GOVERNMENT OF INDIA**



MESSAGE FROM THE HONORABLE VICE PRESIDENT OF INDIA

The Hon'ble Vice President of India is happy to learn that the Indian Institute of Technology Mandi, Himachal Pradesh is organizing its Fourth Convocation Ceremony on October 10, 2016.

The Vice President extends his greetings and congratulation to the students, teachers and the staff and wishes the event all success.

SHRI MOHAMMAD HAMID ANSARI



SHRI PRAKASH JAVADEKAR

**HONB'LE MINISTER OF HUMAN RESOURCE
DEVELOPMENT GOVERNMENT OF INDIA**



सत्यमेव जयते

Government of India

MESSAGE FROM THE HONORABLE MINISTER OF HUMAN RESOURCE DEVELOPMENT

It gives me great pleasure to congratulate the graduating students, faculty, and staff of IIT Mandi on the occasion of its Fourth Convocation. I am aware of the excitement and the anticipation with which an event as important as Convocation is awaited, and I am happy to send my greetings on this important occasion in the life of the institute.\

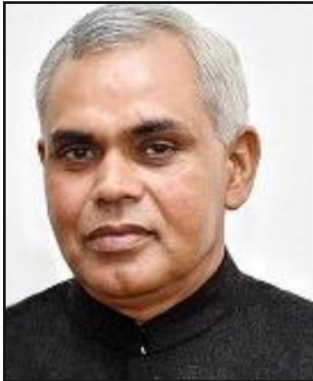
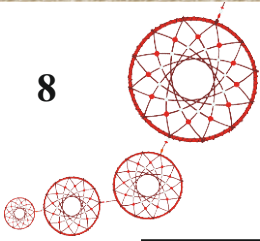
In India, the Golden Age of Institution building was the 1950s. This was the decade in which, after the tumult caused by Independence and Partition, our great national institutions were established. The first three IITs, of course, but also the National School of Drama, the Sahitya Academi, and many others. In the years that followed, these institutions have made a niche and a name for themselves. It is not easy, however, to follow in their footsteps.

Institution-building is both an art and a science: it requires logistics and manpower, but above all breadth of vision, an imagination that soars above the mundane, and an ability to predict the needs of the future. It is, therefore, heartening to know that Institutions with a potential for excellence continue to be built today, not only in the well-developed Metropolitan centres of our country, but in far-flung regions of our country.

In this regards, I would like to congratulate the IIT Mandi academic community, as I have been told that, in a very short time, this institute has risen to be a leader in science and technology education in the northern frontiers of India. IIT Mandi today has a vibrant community of 842 students in all, either beginning their exploration of the world as B.Tech. Students, or undertaking advanced research.

Sir Issac Newton, the famous physicist and mathematician, once said, “if I have seen future, it is by standing upon the shoulders of giants.” With this statement, he acknowledged the debt he owed to his predecessors in the world of science. I would like to ask the graduating students of IIT Mandi to remember the giants whose achievements have enabled them to see far. And perhaps one day, they too will be an inspiration to someone else. Each and every IIT Mandi graduating student this year has my very best wishes for his/her life's journey.

PRAKASH JAVADEKAR



SHRI ACHARYA DEVVRAT

**HIS EXCELLENCY
THE GOVERNOR OF HIMACHAL PRADESH**



MESSAGE FROM THE HONORABLE GOVERNOR OF HIMACHAL PRADESH

It gives me immense pleasure to know that Indian Institute of Technology Mandi is organizing Fourth Convocation Ceremony on October 10, 2016.

The Indian Institutes of Technology are highly regarded not only in India but all over the World for their excellence as academic institution. IIT alumni not only occupy prominent positions in Indian academia, industry, public service etc., but also serve in leadership roles at international corporations that impact billions of people around the globe.

The people of India as well as of Himachal Pradesh have high hopes from all the graduating students of IIT Mandi this day. It is expected that you will work for the betterment of the society, fully applying the skills and training which you have been privileged to receive during your time at the Institute.

I convey my heart-felt felicitation to the graduating students, their families, and the faculty and staff of IIT Mandi on this occasion.

SHRI ACHARYA DEVVRAT



SHRI VIRBHADRA SINGH

**CHIEF MINISTER
HIMACHAL PRADESH**



MESSAGE FROM THE HONORABLE CHIEF MINISTER, HP

Established in the year 2009, Indian Institute of Technology (IIT), Mandi is organizing its Fourth Convocation on 10th October, 2016. It is among the top engineering institutions in the Country formed with the objective to develop in each student the mastery of fundamentals, versatility of mind and motivation for learning, creating a talented pool of trained scientists and engineers who could contribute towards the economic and social development of the country.

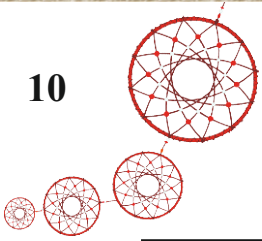
The Institute has progressed gloriously ahead by achieving excellence in all aspects of academic activity to produce high quality engineering students.

I am happy to know that the Institution is also bringing out a brochure to make the occasion memorable.

I extend my heartiest congratulations to the staff and faculty members and also extend my felicitation to the students being awarded degrees.

My best wishes for the convocation.

SHRI VIRBHADRA SINGH



PROF. JOACHIM HOLTZ

**EMERITUS PROFESSOR,
WUPPERTAL UNIVERSITY, GERMANY**

MESSAGE FROM THE HONORABLE CHIEF GUEST

When I became a Professor at IIT Madras, there were only rudimentary laboratory facilities. The faculty dedicated themselves to theoretical investigations, which was their notion of what a Professor had to do. I started installing the equipment required for experimental research, with financial support from the German Government. I had B. Tech. and M. Tech. students working on laboratory projects. It was with their assistance that I could develop a reversible AC drive as part of a first industrial project funded by Bharat Heavy Electricals Limited (BHEL).

Returning home from India, I became a Professor at Wuppertal University, and my students at IIT had become engineers in Indian companies. They contracted me to develop industrial products for Kirloskar and for Kerala Electronic Development Corporation (KELTRON). I also kept contact with my successor at IIT Madras. We visited frequently, working on research projects out of which an IIT student obtained his doctoral degree.

I have had many opportunities to watch the growth of academic institutes and industries over a time span of 56 years. As a result, I see that the students of IIT Mandi are now being trained for a successful professional career, in keeping with the needs of Indian industries. Alternatively, they may become educators and transmit their knowledge to next generations of engineers.

PROF. JOACHIM HOLTZ



SHRI M. NATARAJAN

**FORMER CHAIRMAN, BOARD OF GOVERNORS
IIT MANDI**

MESSAGE FROM THE HONORABLE GUEST OF HONOUR

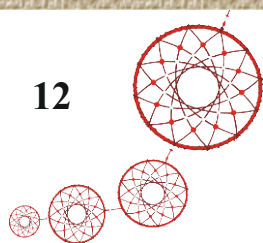
Respected Chief Guest, Chairman Board of Governors, Members of the Board of Governors, Members of the Finance Committee, Members of Senate, Prof. Timothy A. Gonsalves, Director IIT Mandi and Directors of other IITs, members of Faculty, distinguished invitees, research scholars, dear students, parents of the recipients of degrees and awards, members of IIT Mandi Staff, Ladies and Gentlemen, a very good afternoon to every one of you. As the guest of honour invitee, it gives me great pleasure to be, back in the campus, meeting with you all, and recounting, my association with the IIT, for the past 6 years, in seeing through its steady growth.

Established in 2009, IIT Mandi remains, the torch bearer for the advancement of knowledge, in Science and Technology, in this enchanting Himalayan landscape. In a span of 7 years, the institution has grown in strength, accommodating, close to 1000 students. Among these students, 500 are in B.Tech. programmes, and the rest constitute, post graduate students in Science and Technology disciplines, with over 200 of them, pursuing their studies as Research Scholars, an accomplishment that IIT can be truly proud of.

The construction activities under phase 1, at the south campus comprising of Hostels, Administrative and Academic blocks, with associated laboratories, class rooms, and the centralised mess for the students and the residences for some faculty, as planned are almost complete. The planned construction activities at the north campus, had not been to the satisfaction of the IIT, and that has indeed delayed, the complete shifting of all activities of the IIT, Mandi.

The Director, the faculty, the staff, and the student community, besides the contractor agencies, the central and the state governments, all must be thanked, for their contributions to the making of this beautiful campus, in the picture place, and matching these equally with their research and academic accomplishments.

I recall in my address to you all last year, I had emphasised, that the Education and Research, in the field of Science and Technology, has increasingly become inter disciplinary in nature, and is increasingly becoming a necessity to solve real world problems. It is essential therefore, there must be greater sharing of information, and meeting of minds, between the faculties of various disciplines, research scholars, and determined efforts towards attending to the perceived problems of the society, in an innovative and effective manner. This in my view will also promote acquisition of Technologies developed, by IITs, by our industries, for products and systems.



Technology adaptation, and scaling up for production, has its own challenges, and the faculty at IITs, must strive hard to get associated, with such developments, for they too provide, opportunities for projects in many newer areas, that may have to be nurtured in the larger interest of the country.

In this year's address, I wish to emphasise on the importance of understanding, the global changes in Environment, Energy, and Enterprise, and the impact of these, on our development efforts, and for the reasons of business with the rest of the world. In the energy sector, renewable energies will demand solutions for energy storage, and distribution of quality electric supply, because of the fluctuating nature of supplies.

Energy storage systems of a wide variety, such as, fuel cells, Lithium ion, and many other batteries, molten sodium/salt bath, pumped storage, are all being studied, for cost effective solutions. Similar efforts in the transport sector, is looking into electric drives, energy recovering systems, and super conduction, and magnetic, levitations, for Propulsion, to cite a few.

Enterprises in the western hemisphere, are increasingly, becoming global players, capitalising, on human resources, favourable investment climates, newer and emerging markets, and local capital, and are coming out with products and systems of a wide variety, meeting with the specific needs of each country, in an increasingly innovative, and cost effective manner. They also have the total control of newer materials developed to meet with the above said challenges. This will impact developing countries in that many technologies may not be forthcoming for licensed production. The strangle hold will be equally applicable to the manufacturing plant and machinery. These challenges will have to be addressed by our institutions and industries.

As a developing nation, our country has several socio-economic challenges, relating to poverty and illiteracy, food and nutrition, water supply and sanitation, housings, Heath care, and productive agriculture. The increasing migration of population from villages to urban centres, the exponential growth of mega cities and the improvements in our economy, and rising expectations thereof, all pose problems of their own demanding greater use of Science and Technologies, in finding satisfactory solutions.

I felt that I must give you an over view of the problems in development, and growth of our aspiring nation in the current scenario. I am confident that IIT Mandi, as it grows, will develop the capabilities and capacities, and associated skill sets, for their rightful share for the country's growth, and do the nation proud.

May I conclude, wishing every one of the post graduating and graduating students, the very best in their professional career that begins now. My congratulations, in are also to the Director, and the faculty, and staff for their sustained efforts, in the shaping of IIT Mandi. I wish the IIT the very best in the years ahead, and hope to see this institution as a top ranking institution, of which the country, can be truly proud of. Lastly, I wish to thank, the MHRD, the members of the Board of Governors, and Director, for their sustained cooperation, during my 6 years, in the capacity of Chair person BOG, and what a great experience this was. Thank you.

SHRI M. NATARAJAN