

1	Name of Activity	Lecture on 'Plane Waves in Micro Stretch Elastic Solid with Voids' by Prof. Sushil Kumar Tomar
2	Type of Activity (FDP/Lecture/Technical/conference etc.)	Colloquium
3	Name of Department/Section/Cell conducting the Activity	Research & Development Cell
4	In coordination with (if any)	-
5	Date of Conduct	30.11.2022
6	Name of the Activity Coordinator (s)	Dr. Sonia
7	Amount Spent	6000/-
8	Funding/grant from University/Industry/UGC/AICTE/DST/TEQIP/Outside Society/agency/others (Mention)	R & D Cell, J.C. Bose University of Science and Technology, YMCA, Faridabad
9	Target audience	Students, Ph.D. Scholars
10	No. of beneficiaries	260
11	Name of Outside Guests	Nil
12	Any other information	Appended below
13	Also attach two/three good quality photographs	enclosed

Report

The eminent mathematician and Vice-Chancellor of J.C. Bose University of Science and Technology, YMCA, Faridabad, Prof. Sushil Kumar Tomar today presented the linear theory of micro-stretch elastic solid containing a uniform distribution of uniform voids and correlated it with the viewpoint of the great Indian scientist Jagadish Chandra Bose who proved that plants have a sensitive nervous system like other life forms, and they can breathe and feel.

Prof. Tomar was addressing a colloquium organized by the Research and Development Cell of the University to mark the birth anniversary of Sir Jagadish Chandra Bose. Registrar Dr. S.K. Garg, Director (R&D) Prof. Naresh Chauhan, deans, and chairpersons of various teaching departments were present on this occasion. The event was coordinated by Dr. Sonia Bansal.

Earlier, Prof. Tomar garlanded the bust of J.C. Bose and paid rich tributes to him on his birth anniversary.

In his expert lecture on 'Plane waves in micro-stretch elastic solid with voids', the eminent mathematician Prof. Tomar, who has published over 125 research publications in reputed international journals, made the audience familiar with the topic by giving definitions of various concepts like a rigid body, waves, elastic waves, stress, strain, Hooke's Law, etc. He also talked about prominent mathematicians like Cauchy, Euler, and Lagrange. Prof. Tomar discussed the development of the micro-stretch theory by Ahmet Cemal Eringen. The best part of the talk was the idea implemented by Prof. Tomar to the theory which was driven by the quote 'Char-Achar-Chetna' by J.C. Bose.

Prof. Tomar made the derivation of mathematical equations to find out wave characters of various waves passing through micro-stretch elastic solids with voids. He proved through his mathematical equations that every particle in a solid medium behaves like a whole body and it has contraction (breathing).

Prof. Tomar encouraged all the participants, particularly students, to develop original ideas by pondering upon the concepts. He also congratulated the R&D Cell for organizing such a colloquium. Prof. Naresh Chauhan proposed the formal vote of thanks.



**J.C. BOSE UNIVERSITY
OF SCIENCE AND TECHNOLOGY,
YMCA, FARIDABAD (HARYANA)**
Accredited 'A+' Grade by NAAC, State Government University

On the occasion of

Birth Anniversary

of

SIR JAGADISH CHANDRA BOSE



Research and Development Cell

organizing a

COLLOQUIUM

by



Prof. Sushil Kumar Tomar
Vice-Chancellor
J.C. Bose UST, YMCA

Venue: Vivekanand Sabhagar | Date: November 30, 2022 | Time: 11:00AM

● **Organized by** ●

Dr. Sonia Bansal
Research Event Coordinator

Dr. Rajeev Saha
Dy. Director (R&D)

Prof. Naresh Chauhan
Director, R&D Cell,
JC Bose University

