



ACTIVITY REPORT

EXPERT LECTURE DELIVERED

1.	Name of Activity (Title)	Expert Lecture Delivered (Under MOU with Ehime University, Japan)
2.	Type of Activity (FDP/Lecture/Technical/conference etc.)	Lecture
	Name of department/ Section/ cell conducting the activity	Mechanical Engineering Department
3.	In coordination with (if any)	International Affairs Cell
4.	Date of conduct	28.07.2025
5.	Name of Activity Coordinator (s)	Prof. Sandhya Dixit, Dr. Mamta Kathuria, Dr Rajeev Saha
6.	Amount Spent	Nil
7.	Funding/ grant from (University/ Industry/ UGC/ AICTE/ DST/ TEQIP/ Outside Society/ agency/others (mention)	-
8.	Target audience	Students/ Research Scholars and Faculty members J.C.Bose UST, Faridabad
9.	No. of beneficiaries	57
10.	Name of Outside guests	Prof. Netra Prakash Bhandary, Graduate School of Science and Engineering, Ehime University, Japan
11.	Any other information	

An insightful expert lecture was delivered by **Prof. Netra Prakash Bhandary** from faculty of collaborative regional innovation, Ehime University, Japan, on the topic "**Landslides: A Natural Process to Hazard, Disaster, and An Academic Field**". The session aimed to deepen the understanding of landslides from a multidisciplinary perspective—bridging natural science, engineering, risk mitigation, and academic research.

The successful realization of the aforementioned session was made possible through the indispensable support and guidance of **Prof. S.K. Tomar**, the Vice Chancellor of J.C. Bose University, YMCA, Faridabad, Haryana, India. His guidance has been instrumental in shaping our institution's global initiatives. The academic discourse was thoughtfully organized under the guidance of **Prof. Arvind Gupta, Prof. Sandhya Dixit, Dr. Mamta Kathuria and Dr. Rajeev Saha**.

Prof. Netra Prakash Bhandary delivered an in-depth presentation on the natural



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geomorphic processes, but they become hazards when they affect human areas. He emphasized how human activities like deforestation and poor land use often escalate these hazards into disasters. Using examples from South and Southeast Asia, he showcased scientific methods such as GIS, remote sensing, and geotechnical tools for landslide monitoring and mitigation. Finally, he highlighted landslide studies as a vital interdisciplinary academic field, urging students to explore its importance in climate resilience and sustainable development.

The event saw the participation of over 57 attendees, including experts, researchers, and students, with notable attendance from many Professors from Mechanical, Computer and Civil Engineering department and, whose presence added to the prestige of the lecture.

The session concluded with a vote of thanks delivered by **Prof. Sandhya Dixit**, who thanked **Prof. Netra Prakash Bhandary** for his valuable insights and the attendees for their active participation. She also acknowledged the importance of such expert sessions in fostering global collaboration and advancing research in Mechanical and Civil Engineering.

The event was a part of activities under MOU between J.C.Bose University of Science and Technology, YMCA, Faridabad, Haryana, India and Ehime University, Japan and was organized by department of Mechanical Engineering in collaboration with International Affairs Cell.

This expert lecture was a resounding success, with attendees gaining valuable knowledge on the latest advancements in technology. The session reinforced the significance of interdisciplinary research and innovation in promoting academic discourse on environmental challenges. The session served as a valuable resource for all stakeholders in disaster risk management and geoscience education.



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EXPERT LECTURE

on

**Landslides: A Natural Process to Hazard, Disaster,
and an Academic Field**

Department of Mechanical Engineering

in co-ordination with

International Affairs Cell



Patron
Prof. S.K. Tomar
Vice Chancellor
JCBUST, YMCA, Faridabad (Haryana)



Speaker
Prof. Netra Prakash Bhandary
Faculty of Collaborative Regional Innovation
Ehime University, Japan

Conveners

Prof. Arvind Gupta Dr. Mamta Kathuria Prof. Sandhya Dixit Dr. Rajeev Saha

AUDIENCE : • Students, Researcher and Faculty of J.C. Bose University of Science and Technology, YMCA, Faridabad, Haryana

PLATFORM : ZOOM

Meeting ID : 541 187 0021

Meeting Link : <https://us02web.zoom.us/j/5411870021?omn=87678467048>

Date: 28.07.2025 (Monday)

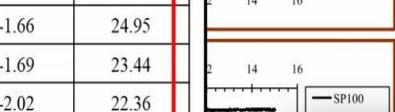
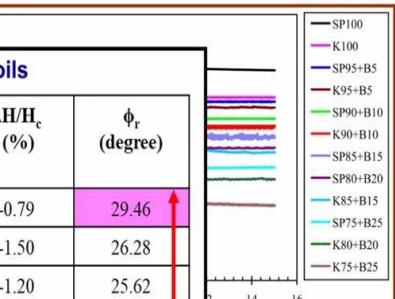
Time: 10:30(IST) / 14:00(JST)



Residual-state Shear Creep Tests

JCBoseU-EhimeU Online Joint Seminar | 28 July 2025

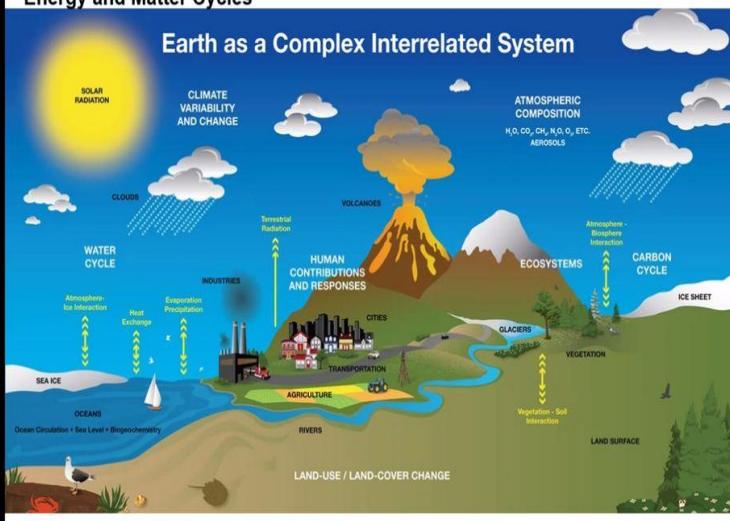
Sample Name	σ'_1 (kN/m ²)	τ_p (kN/m ²)	τ_r (kN/m ²)	$\Delta H/H_c$ (%)	ϕ_r (degree)
SP100	98.10	58.94	55.42	-0.79	29.46
K100	98.10	52.75	48.45	-1.50	26.28
SP95+B5	98.10	52.87	47.05	-1.20	25.62
K95+B5	98.10	51.67	45.65	-1.66	24.95
SP90+B10	98.10	49.60	42.55	-1.69	23.44
K90+B10	98.10	47.87	40.35	-2.02	22.36
SP85+B15	98.10	46.29	37.84	-2.64	21.09
SP80+B20	98.10	45.01	34.89	-3.57	19.58
K85+B15	98.10	45.24	33.61	-3.56	18.91
SP75+B25	98.10	42.50	29.92	-3.85	16.96
K80+B20	98.10	42.18	26.64	-4.68	15.19
K75+B25	98.10	47.07	19.13	-7.25	11.03



Netra Prakash Bhandary

Landslides as a natural process

Energy and Matter Cycles



Netra Prakash Bhandary's screen

JCBoseU-EhimeU Online Joint Seminar



■ Heat Energy of the Sun >>

Brings in changes into Earth's atmosphere >>

Winds/Storm,

Rain, Lightning

etc.

■ Heat Energy of the Earth >>

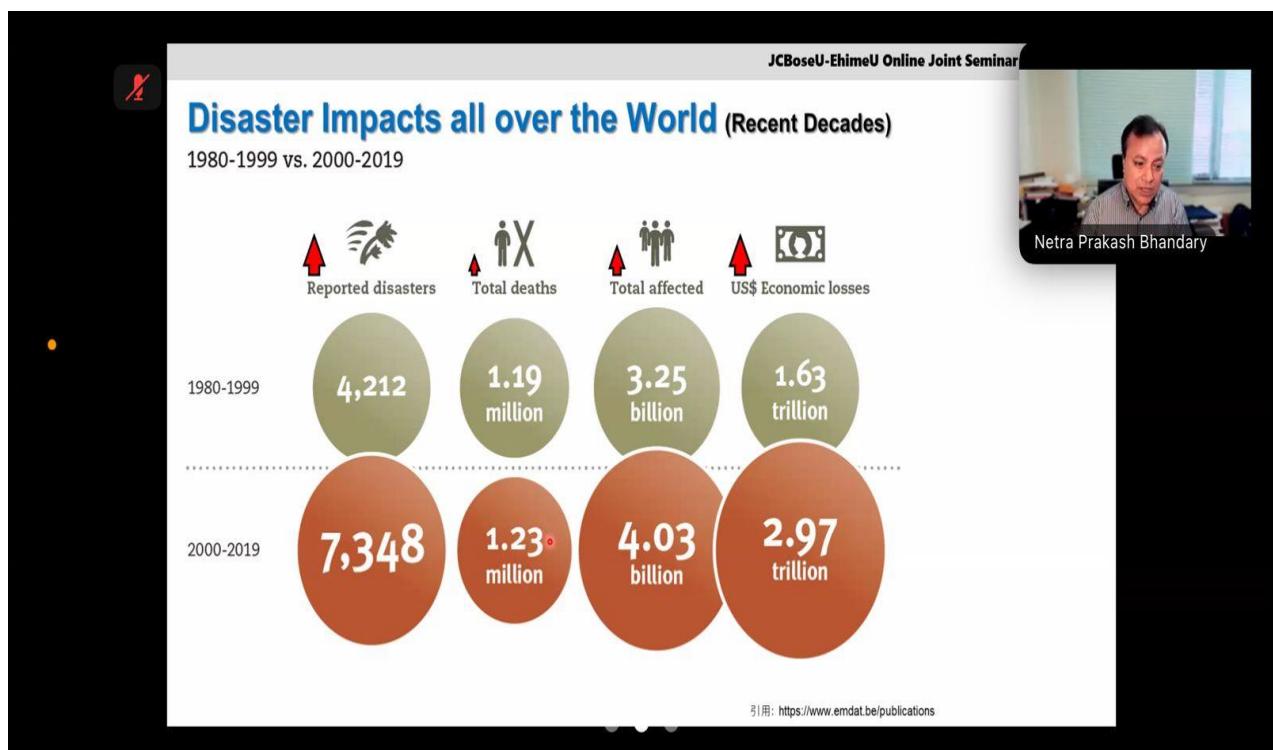
Brings in changes in inner core and outer crust

>>Plate tectonics, earthquakes and volcanoes



Devesh left

Netra Prakash Bhandary





10:53 Photos

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Landslides: A natural process to hazard, disaster, and an academic field

Netra Prakash Bhandary (Prof. Dr.)
Graduate School of Science and Engineering
Ehime University
JAPAN

Houston, Osaka, Nantes, Tokyo, Fukui, Shizuoka

Ehime University Main Campus

Netra Prakash Bhandary's screen

Participants (52)

Search

Waiting room (1)

OC OnePlus CPH2467
Joining...

Host

SD Sandhya Dixit

Co-host (2)

Netra Prakash Bhandary

DM Dr. Mamta Kathuria (me)

Unmute Start video Participants 52 Chat 1 Reactions Share



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Zoom Meeting You are viewing Netra Prakash Bhandary's screen View Options

Recording... 3 people entered the waiting room View X

Sign in 01:02:36 View

Landslide hazard (in Japan) JCBoseU-EhimeU Online Joint Seminar | 28 July 2025

Google Earth

Nandini

Sandhya Dixit

Netra Prakash Bhandary

Isha Raj

Yoshiteru Itagaki

Unmute Stop Video Security Participants Chat Share Screen Start Summary AI Companion Pause/stop recording Reactions Apps Notes More End

6 11:03 ENG IN 28-07-2025

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Recording... 33 people 01:58:04 View

Sign in 01:58:04 View

Netra Prakash Bhandary Sandhya Dixit Rohan 2044 Rohan 2044 Yoshiteru Itagaki Dr. Mamta Kathuria

prof. hari_om_chaudhary Rajeev Saha Ashutosh Dixit Sandeep Grover Dr Arvind Gupta

MOHD SHAD KRISH Prit Vishwakarma Manu Kaushik

J. C. Bose University of Scien... MOHD SHAD KRISH Prit Vishwakarma Manu Kaushik

seema Rani Harshil tarun Akshita Singla Deepanshu

Neman Aggarwal OPPO CPH2337 Shivam Singh Dhruv Navneet

Neman Aggarwal OPPO CPH2337 Shivam Singh Dhruv Navneet

Mute Stop Video Security Participants Chat Share Screen Start Summary AI Companion Pause/stop recording Reactions Apps Notes More End

1/2 11:59 ENG IN 28-07-2025



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