



**J.C. BOSE UNIVERSITY OF SCIENCE & TECHNOLOGY YMCA,
FARIDABAD (HARYANA)- 121006**
(Established by Haryana State Legislative Act No.21 of 2009)
Accredited 'A' Grade by NAAC

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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(A Haryana State Government University)
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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)



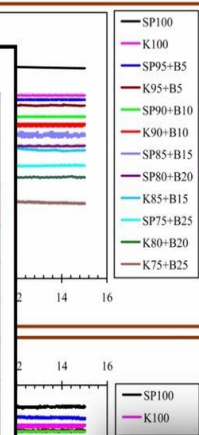
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Residual-state Shear Creep Tests

JCBoseU-EhimeU Online Joint Seminar | 28 July 2025

Summary of the ring shear tests of the clayey soils

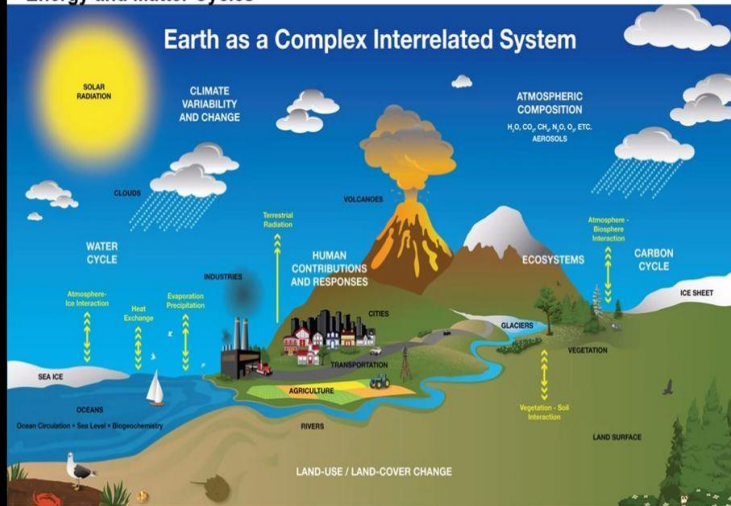
| Sample Name | σ'_a (kN/m ²) | τ_p (kN/m ²) | τ_r (kN/m ²) | $\Delta H/H_c$ (%) | ϕ_r (degree) |
|-------------|-------------------------------------|----------------------------------|----------------------------------|-----------------------|----------------------|
| SP100 | 98.10 | 58.94 | 55.42 | -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



<https://mydasdata.larc.nasa.gov/basic-page/energy-and-matter-cycles>

Netra Prakash Bhandary's screen

■ **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



Netra Prakash Bhandary

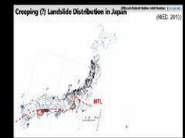


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Devesh left



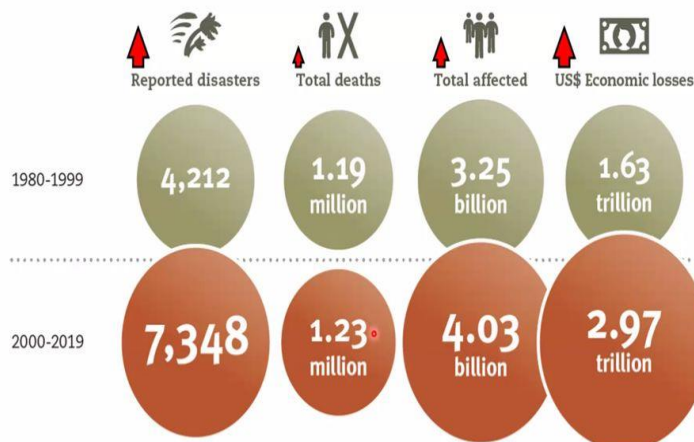
Netra Prakash Bhandary



JCBoseU-EhimeU Online Joint Seminar

Disaster Impacts all over the World (Recent Decades)

1980-1999 vs. 2000-2019



引用: <https://www.emdat.be/publications>



Netra Prakash Bhandary





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10:53



Photos

JCBoseU-EhimeU Online Joint Seminar | 28 July 2023

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



Netra Prakash Bhandary's screen


×

Participants (52)




Q Search

✓ Waiting room (1)





OnePlus CPH2467
Joining...


Host





Sandhya Dixit




Co-host (2)






Netra Prakash Bhandary







Dr. Mamta Kathuria (me)




 Unmute


 Start video


 52

Participants

 1

Chat

 Reactions

 Sh



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

Recording... | 3 people entered the waiting room | Sign in | 01:02:36 | View

Landslide hazard (in Japan)

JCBoseU-EhimeU Online Joint Seminar | 28 July 2025

Participants: Nandini, Sandhya Dixit, Netra Prakash Bhandary, Isha Raj, Yoshiteru Itagaki

Unmute | Stop Video | Security | Participants (48) | Chat | Share Screen | Start Summary | AI Companion | Pause/stop recording | Reactions | Apps | Notes | More | End

Windows taskbar: 11:03 28-07-2025

Zoom Meeting | Recording... | Sign in | 01:58:04 | View

Participants (33):

- Netra Prakash Bhandary
- Sandhya Dixit
- Rohan 2044
- Yoshiteru Itagaki
- Dr. Mamta Kathuria
- prof. hari_om_chaudhary
- Rajeev Saha
- Ashutosh Dixit
- Sandeep Grover
- Dr. Anurag Gupta
- MOHD SHAD
- KRISH
- Prit Vishwakarma
- Manu Kaushik
- seema Rani
- Harshil
- tarun
- Akshita Singla
- Deepanshu
- Nemant Aggarwal
- OPPO CPH2337
- Shivam Singh
- Dhruv
- Navneet

1/2 | J. C. Bose University of Scienc... | MOHD SHAD | KRISH | Prit Vishwakarma | Manu Kaushik | seema Rani | Harshil | tarun | Akshita Singla | Deepanshu | Nemant Aggarwal | OPPO CPH2337 | Shivam Singh | Dhruv | Navneet

Mute | Stop Video | Security | Participants (33) | Chat | Share Screen | Start Summary | AI Companion | Pause/stop recording | Reactions | Apps | Notes | More | End

Windows taskbar: 11:59 28-07-2025



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