



The Japan-India YNU Symposium 2021

**Science and Technology for
“Sustainable Transformation (SX)”**

December 27, 2021 Held Online



Preface

There are many problems in the world that need to be solved on a global scale. The impact of the COVID-2019 pandemic has dramatically changed our lifestyle. In addition, the world faces global environmental issues such as decarbonization, carbon neutrality, zero emissions and the circular economy. In this major transformational period, the technologies based on science are rapidly expanding across the traditional boundaries of physics, chemistry, biology, and earth science for achieving Sustainable Development Goals (SDGs).

With the increasing importance of Japan-India cooperation under these circumstances, a relay-type Japan-India exchange symposium aimed at SX (Sustainability Transformation) was planned with the support of the Sakura Exchange Program. In this program, a new attempt was made to deepen exchanges between faculty members and students in each field in advance between 6 universities in 4 regions and fields using the relay method. To conclude this program, we will hold an online Japan-India YNU symposium on the final day of December 27.

At this symposium, we will set a time zone in which researchers and students from Japan and India can freely participate, and share the results of discussions in four small groups in advance. It is expected that a lot of information that cannot be grasped in real time can be obtained in a short period of time by summarizing each discussion at the symposium on the final day. In this way, we will explore the ideal method of joint research and development by experts with diverse backgrounds in science and engineering research between Japan and India with YNU as a hub. And I hope that it will lead to the symposium by a hybrid of face-to-face and online from next year onwards. The organizers welcome participants who are interested in research in the interdisciplinary area and expect exciting and fruitful discussions.

Prof. Atsushi Suzuki
Yokohama National University
Yokohama, Japan
2021.12.27



A handwritten signature in black ink that reads "Atsushi Suzuki". The signature is written in a cursive, flowing style.

Program

12:00 JST– 8:30 IST **Zoom Open**

12:30 JST **Opening Session**

9:00 IST

Welcome Address

Prof. Hiromi Kabashima, Vice President, YNU

Keynote Talk

Prof. Gautam Biswas, IIT Kanpur, India

12:50 JST– 9:20 IST

Break

13:00 JST **Session 1 Report of Four-Day Discussions**

9:30 IST

Chair: *Atsushi Suzuki*

13:00 JST – 9:30 IST (10min)

Dr. Anupama Sharma, Panjab University

Dr. Hideaki Yoshitake, YNU

13:10 JST – 9:40 IST (10min)

Dr. Mahesh Ganesapillai, Dr. Aruna Singh, VIT University

Dr. Sivakumar Venkatachala, Anna University

Dr. Kazuho Nakamura YNU

13:20 JST – 9:50 IST (10min)

Dr. Bishakh Bhattacharya, IIT Kanpur

Dr. Yusuke Maeda, Dr. Takuto Araki, YNU

13:30 JST – 10:00 IST (10min)

Dr. Biman B. Mandal, IIT Guwahati

Dr. Kazutoshi Iijima, YNU

13:40 JST– 10:10 IST

Break

Poster Session Program

14:10 JST- 10:40 IST Short Presentations (2min/poster)

15:00 JST - 11:30 IST (30min) Odd presentation number

15:30 JST - 12:00 IST (30min) Even presentation number

Presenter

| No. | Presenter | Affiliation |
|-----|---|-------------|
| P01 | Adhithiya Venkatachalapati Thulasiraman | VIT |
| P02 | Kazuki Okawara | YNU |
| P03 | Anupama J R | Anna U |
| P04 | Kentaro Ogawa | YNU |
| P05 | Bidisha Mondal | VIT |
| P06 | Kota Amano | YNU |
| P07 | Shobana Srinivasan | Anna U |
| P08 | Sohail Farooq | YNU |
| P09 | Prabhu Palanichamy | Anna U |
| P10 | Taito Onoda | YNU |
| P11 | Antony Catherine Flora Louis | Anna U |
| P12 | Rishabh Mehta | VIT |
| P13 | Kiran Ravichandran | YNU |
| P14 | Ann Raeboline Lincy E. | Anna U |
| P15 | Yusuke Maeda | YNU |
| P16 | Ashutosh Bandyopadhyay | IIT-G |
| P17 | Mizuki Iijima | YNU |
| P18 | Joseph Christakiran Moses | IIT-G |
| P19 | Makoto Yamazaki | YNU |
| P20 | G. Janani | IIT-G |
| P21 | Baby Salini Jr | Anna U |
| P22 | Muskaan Kothari | VIT |
| P23 | Rajdip Soni | VIT |
| P24 | Suito Fumiyasu | YNU |
| P25 | Manpreet kaur | Panjab U |
| P26 | Jaspreet Kaur | Panjab U |
| P27 | Sharmistha | Panjab U |
| P28 | Kavita Sharma1 | Panjab U |
| P29 | Navlakshya Basra | IIT-K |
| P30 | Atinder Pal Singh | IIT-K |
| P31 | Bisla Vivek | YNU |
| P32 | Preeti | Panjab U |
| P33 | Manjot Singh Jyoti | Panjab U |

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Organizer

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