# ISSMGE FOUNDATION
## REPORT ON CONFERENCE ATTENDANCE

<table>
<thead>
<tr>
<th>Your Name:</th>
<th>Your Organization:</th>
<th>Date of report:</th>
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<tr>
<td>Manali S. Patel</td>
<td>S V National Institute of Technology, Surat, Gujarat, India</td>
<td>20th March 2021</td>
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<table>
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<tr>
<th>Conference Title:</th>
<th>Location of Conference:</th>
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<td>CREST2020, 1st International Symposium on Construction Resources for Environmentally Sustainable Technologies</td>
<td>Kyushu University, Fukuoka, Japan</td>
<td>9-11 March 2021</td>
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## What you learned:
Sustainability is one of the focussed areas for all the engineering problems now a days. The symposium was mainly focused on sustainability, promotion of new ideas and innovative in design, construction and maintenance of geotechnical structures with aim of contributing towards climate change adaption and disaster resiliency. The conference was covering all the aspects of Construction and Resources for Environmentally Sustainable Technologies which is also the title of the conference CREST2020. The main focus of the conference was material recycling in Geo Engineering, Natural disaster and resiliency. Plenty of research was done in low cost and low carbon construction techniques, recycled materials in geotechnical construction, mechanical and consecutive properties of recycled materials, management and utilization of disaster wastes, climate change related to natural disasters, climate change independent natural disasters, physical and numerical modelling of disaster mitigation techniques, information based measures against natural disaster mitigation, natural disasters caused by climate change, natural disaster not caused by climate change, physical and numerical modelling of disaster prevention technology, natural disaster countermeasures using IoT and artificial intelligence, innovative techniques towards low carbon footprint, innovative case studies for sustainable design and construction, socio-economic and environmental aspects in sustainable construction and geological and hydrological aspects.

My interest was to understand the natural disaster and its prevention.

## People you met:
Dr Hemanta Hazarika, Kyushu University, Fukuoka, Japan  
Dr DN Singh, Indian Institute of Technology, Powai, India  
Dr Gabriele Chiaro, University of Canterbury, New Zealand  
Dr. Guojun Liu, Changshu Institute of Technology, China

## Main features of conference:
The symposium was supposed to be held during March 10-12, 2020. As a precautionary measure to halt the spread of the novel coronavirus (COVID - 19), the special instructions were issued on February 26, 2020, by both the Government of Japan and Kyushu University administration and the CREST 2020 organizing committee has decided to postpone the event to March 9-11, 2021. Later on, 16th January, 2021, the Government of Japan has issued a state of emergency for 11 prefectures, including Fukuoka prefecture, where the spread of the Covid-19 infection continues unabated. Under these circumstances, taking into the account the safety and security of participants and related parties, the symposium executive committee has decided to shift the symposium format to a completely online format from the existing hybrid format. Although it was an online conference, it has still maintained the standard in every aspect. There were 11 Keynote Lectures and 2 Plenary Lectures in the conference. On the very first day, Prof Ikuo Towhata gives his views on Recent Rainfall-Induced Slope Disasters and floods, Prof Charles Wang-wai Ng gives useful information...
regarding a novel waste-cover-waste landfill system without geo-membrane. Also Prof. Takaji Kokusho provided very much useful information on Liquefaction-induced Flow failure of Gentle Slopes of Fines-containing loose sands by his case histories and laboratory studies. On second day, Prof. Kenji Ishihara from Chuo University, Japan highlighted on Post-liquefaction flow slides and residual strength of sandy soils. Moreover, Prof. Masyhur Irsyam from Bandung Institute of Technology, Indonesia gives his views on The Role of the Indonesian Society for Geotechnical Engineering in Supporting the Development of Sustainable Earthquake-Resilience Infrastructure in Recent Years.

Your comments on the conference:
Previously the conference was about to held physically but, due to spread of novel corona virus at the last moment the conference has been shifted from physical mode to online mode. Though it was an online mode, still it was very much informative in terms of all technical aspects. The committee members have put their best effort to make the conference grand. Everything was preplanned. The organizers have asked for the presentation recording so if the participants have any issue regarding network connectivity, they can simply play their presentation. There were also preview rooms for each and every parallel sessions, in which participants have to show their entire presentation to the committee so any issues can be avoided. I am glad to be a part of this conference which was covering theoretical and practical aspects for the participants. I would like to acknowledge the ISSMGE Foundation for supporting me in attending the conference.

Please attach short report (maximum 400 words) suitable for publication in the ISSMGE Bulletin:
First of all, I would like acknowledge ISSMGE foundation for providing me this prestigious award in attending the international conference CREST2020 at Kyushu University at Fukuoka, Japan during 9-11 March 2021. The main focus of the conference was material recycling in Geo Engineering, Natural disaster and resiliency. Plenty of research was done in low cost and low carbon construction techniques, recycled materials in geotechnical construction, mechanical and consecutive properties of recycled materials, management and utilization of disaster wastes, climate change related to natural disasters, climate change independent natural disasters, physical and numerical modelling of disaster mitigation techniques, information based measures against natural disaster mitigation, natural disasters caused by climate change, natural disaster not caused by climate change, physical and numerical modelling of disaster prevention technology, natural disaster countermeasures using IoT and artificial intelligence, innovative techniques towards low carbon footprint, innovative case studies for sustainable design and construction, socio-economic and environmental aspects in sustainable construction and geological and hydrological aspects. My interest was to understand the natural disaster and its prevention. The conference was an eye opener for me in learning new aspects of construction resources, sustainability and natural disasters and resiliency. Although it was an online conference, it has still maintained the standard in every aspect. There were 11 Keynote Lectures and 2 Plenary Lectures in the conference. On the very first day, Prof Ikuo Towhata gives his views on Recent Rainfall-Induced Slope Disasters and floods, Prof Charles Wang-wai Ng gives useful information regarding a novel waste-cover-waste landfill system without geo-membrane. Also Prof. Takaji Kokusho provided very much useful information on Liquefaction-induced Flow failure of Gentle Slopes of Fines-containing loose sands by his case histories and laboratory studies. On second day, Prof. Kenji Ishihara from Chuo University, Japan highlighted on Post-liquefaction flow slides and residual strength of sandy soils. Moreover, Prof. Masyhur Irsyam from Bandung Institute of Technology, Indonesia gives his views on The Role of the Indonesian Society for Geotechnical Engineering in Supporting the Development of Sustainable Earthquake-Resilience Infrastructure in Recent Years. As a result, the conference
was very informative and eye opener for young researcher like me. I would be very much grateful to ISSMGE foundation for providing me the financial support in making my wish true for attending the international conference.

Photographs from the Conference:

Opening Ceremony

Opening address by Prof. Hemanta Hazarika, Kyushu University, Japan

Prof. Tatsuya Koumoto explaining correlations between $\eta_{opt}$ and $C_{cas}$
Deterministic Seismic Hazard Analysis of Ankleshwar City, Gujarat

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Country: India

Photographs during my presentation
Discussion with session chair Prof. Gabriele Chiaro