



TENTH SUSTAINABLE MOUNTAIN DEVELOPMENT SUMMIT

DARJEELING
& KALIMPONG

Organised by:



TOWARDS ONE HEALTH :
Making Our Mountains Resilient

18th - 20th

November 2021





18th NOVEMBER 2021

Inaugural Session

2:00 - 2:10 pm

Welcome address

Mr. Praful Rao
(President, Darjeeling Himalaya Initiative)

2:10 - 2:20 pm

Address by Session Chair

Mr. PD Rai
(President, IMI)

2:20 - 2:30 pm

Cultural Programme

2:30 - 2:35 pm

Introduction of the keynote speaker

Mr. PD Rai
(President, IMI)

2:35 - 3:10 pm

Keynote Address

Dr. Soumya Swaminathan
(Chief Scientist, WHO, Geneva)

3:10 - 3:20 pm

Message from Hon'ble Chief Minister, West Bengal

3:20 - 3:35 pm

Address by Chief Guest

Dr. Pema Gyamtso
(Director General, ICIMOD, Kathmandu Nepal)

3:35 pm

Vote of Thanks

Ms. Priyadarshinee Shrestha
(Secretary, IMI)

18th
NOVEMBER 2021

Panel Discussion

4:00 - 4:10 pm

**Opening remarks and setting the context
Introduction of the Speakers**

Dr. VB Mathur
(Chairperson National Biodiversity Authority)

4:00 - 4:55 pm

Address by the Panel:

**‘One Health from the lens of Biodiversity and
Environment Conservation’**

Mr. Ravi Singh
(CEO and Secretary General, WWF- India)

‘One Health from the lens of Food Systems’

Dr Vandana Shiva
(Founder, Navdanya, Uttarakhand)

One Health - Veterinary Science & Practice in India

Dr. Sandeep Chaudhuri
*(Asst Prof Veterinary College Nagpur, One Health Mission,
Maharashtra)*

4:55 - 5:10 pm

Questions and Answers

Moderated by Dr. VB Mathur

5:10 - 5:25 pm

Summing up and responses from panel
(5 mins each)

5:25 pm

Concluding remarks

Dr. VB Mathur

19th
NOVEMBER 2021

One Health response to Zoonosis

11:00 - 1:00 pm

Introduction and Objectives of the Session

11:10 - 11:30 am

**Zoonotic diseases in the IHR: prevalence, trends &
emerging public health threats**

Dr. R. C. Dhiman
(ICMR, Govt. of India)

11:30 - 11:45 am

**Eco-epidemiology in Risk assessment: consideration
& challenges**

Dr. Lallianpuii Kawlani
(Wildlife Institute of India)

11:45 - 12:00 pm

**One Health and Zoonoses in the Indian Himalaya Region:
Lessons from Sikkim**

Dr. Thinley Bhutia
(SARAH, Government of Sikkim)

12:00 - 12:10 pm

**UNDP's perspective on One Health Approach and
zoonosis in IHR**

12:10 - 12:20 pm

Questions and Answers

Sunita Pradhan and STS Lepcha

12:20 - 12:25 pm

B R E A K

19th
NOVEMBER 2021

One Health response to Zoonosis

12:25 - 12:35 pm

Youth Perspectives on Media in strengthening Surveillance

Youth Representative

12:35 - 12:45 pm

Interactive Session

Sunita Pradhan and Youth representative

12:45 - 1:00 pm

Session Summary and Concluding Remarks

Sunita Pradhan and STS Lepcha



19th
NOVEMBER 2021

Biodiversity & Ecosystems for Human Health

2:00 - 2:10 pm

Objectives of the session and introduction to the session speakers

Dr. G.S. Rawat
(IMI)

2:10 - 2:30 pm

Keynote talk 1: Biodiversity, Ecosystems for Human Health: An overall perspective of research, action and policy in the IHR

Prof. Uma Rama Krishnan
(NCBS, Bangalore)

2:30 - 2:45 pm

Keynote talk 2: Ecosystem Restoration in the IHR: A critical need for human and animal health

Dr. Nakul Chettri
(ICIMOD, Kathmandu, Nepal)

2:45 - 3:00 pm

Keynote talk 3: Traditional knowledge, systems and practices underlies One Health in the IHR

Dr. Melari Nongrum
(Martin Luther Christian University, Shillong, Meghalaya)

3:00 - 3:10 pm

Question and Answers on the presentations

Dr. Sarala Khaling
(DHI)

3:00 - 3:15 pm

B R E A K

19th
NOVEMBER 2021

Biodiversity & Ecosystems for Human Health

3:15 - 3:30 pm

**Youth Perspectives: Best practices of Biodiversity
Conservation and Ecosystem Management from the IHR:
Implications for One Health approach**

Youth Representative

3:30 - 3:45 pm

Interactive Session

Moderated by Dr. Sarala Khaling

3:45 - 4:00 pm

Conclusion and key takeaways from the session

Mr. Deependra Sunar
(DHI)



19th
NOVEMBER 2021

Sustainable Food Systems

4:15 - 4:20 pm

**Introduction and setting the context
Food culture diversity of the IHR, Challenges and Trends**

Ms. Binita Shah

4:20 - 4:25 pm

POLL - Challenges of local food systems and food cultures

Youth Representative

4:25 - 4:40 pm

**Indigenous peoples' food systems: Opportunities
and challenges**

Bah Phrang Roy

4:40 - 4:50 pm

**Voices from the mountains
Positive stories of sustainable food systems of the IHR**

Mr. Biju Negi
(Beej Bachao Andolan)

4:50 - 5:10 pm

Question and Answers / Interactions

5:10 - 5:20 pm

Changing Consumption Patterns - Setting the Context

Mr. Roshan Rai

5:20 - 5:25 pm

POLL - Changing Consumption Patterns

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Sustainable
Food Systems

5:25 - 5:45 pm

Changing Consumption Patterns - A reflection on One Health

Amit Khurana
(Centre for Science and Environment)

5:45 - 5:55 pm

Rapid assessments (IHR level) of challenges on local food cultures and changing food patterns. Mapping Local Markets

Youth representative presentation

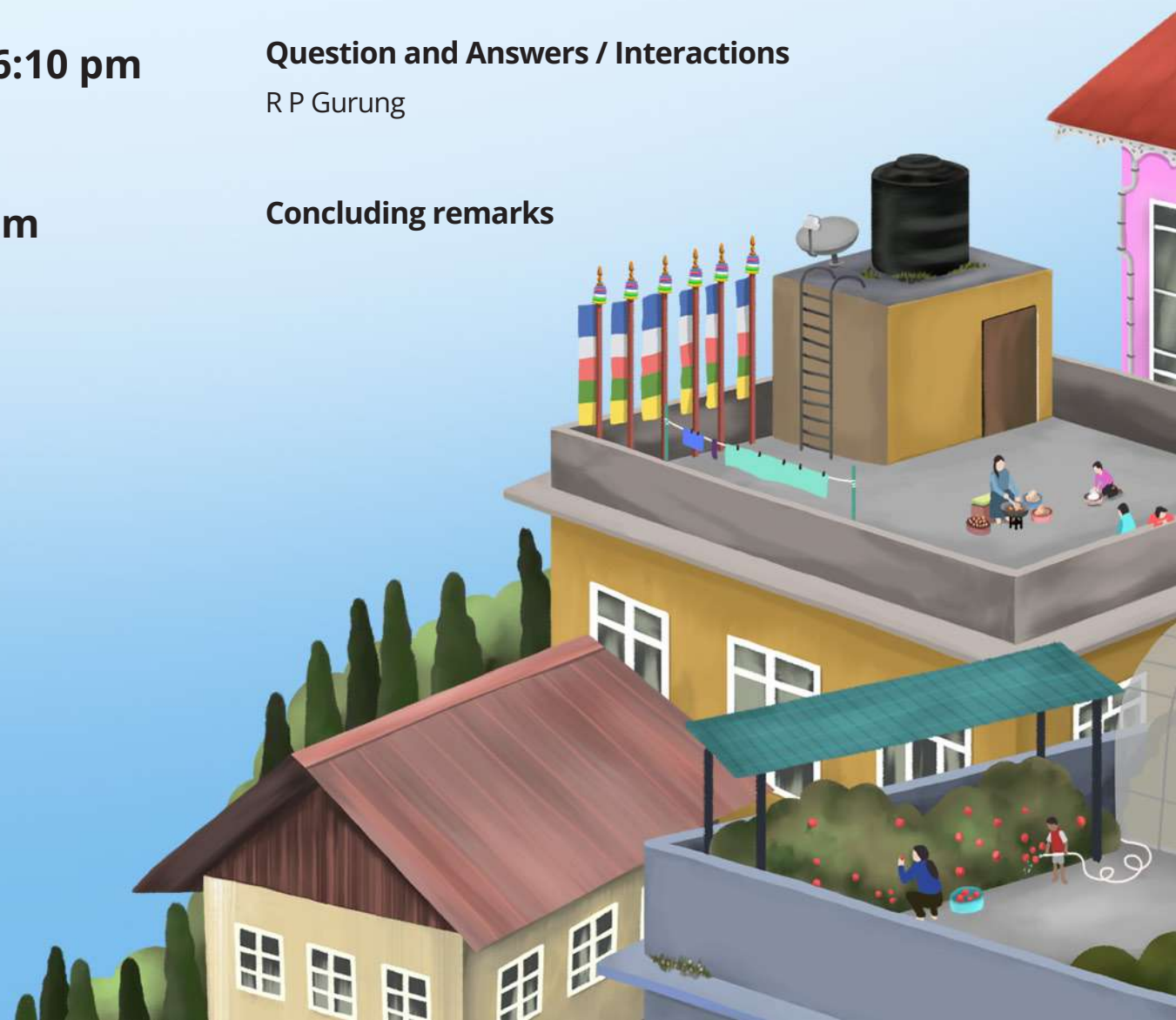
5:55 - 6:10 pm

Question and Answers / Interactions

R P Gurung

6:10 pm

Concluding remarks



20th
NOVEMBER 2021

Mountain
Legislators' Meeting

10:00 - 10:30 am

Arrival, tea and registration

10:30 - 10:40 am

Welcome Address - SMDSX Background

Mr. PD Rai
(President, IMI)

10:40 - 10:50 am

Background presentation on UNEP Projects

Ms. Divya Dutt
(UNEP)

10:50 - 11:05 am

Issues and Challenges of Waste Management in the IHR with specific reference to Uttarakhand, IHR perspective
IMI / ZWH team/ SDFU

11:05 - 11:20 am

Inaugural Address

Shri Chowna Mein
(Hon'ble Deputy Chief Minister Arunachal Pradesh)

11:20 - 11:30 am

Special Remarks

Shri Premchand Aggarwala
(Hon'ble Speaker, Uttarakhand LA)

11:30 - 11:40 am

Special Remarks

Co-Chair: Shri Sanjay Jaiswal
(Chairperson, Water Resources Committee)

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Mountain Legislators' Meet

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Youth Reflections and Way Forward

11:40 - 1:40 pm

Open Discussion

Led by Chair or Moderator

1:40 - 2:00 pm

Closing Remarks

Shri James Sangma

(Minister, Department of Forests, Environment & CC, GoM)

2:00 - 2:10 pm

Summing Up & Way Forward

Shri Sushil Ramola

(Former President IMI (TBC))

2:10 - 2:15 pm

Vote of Thanks

SDFU

11:00 - 1:00 am

Reflections from the previous sessions

Mental Health and Youth in the IHR

Way forward

Mr. Amba Jamir and Mr. Krishna Rautela

11:00 - 11:05 am

Welcome and Setting the Context

11:05 - 11:25 pm

Youth and Mental Health in IHR

Raj Mariawala

(Director, MHI)

11:25 - 11:35 am

Question and Answers

11:35 - 12:50 am

SMDSX sharing and Way Forward

12:50 - 1:00 pm

Concluding Remarks and Vote of Thanks



20th
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Governance &
Institutional processes
that promote One Health

20th
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Governance &
Institutional processes
that promote One Health

2:00 - 2:10 pm

**Introduction and setting the context
Mapping the intersect of One Health**

Dr. Sarala Khaling
(ATREE / DHI)

2:10 - 2:15 pm

Chairperson's opening remarks

Dr V B Mathur
(Chairman, National Biodiversity Authority)

2:15 - 2:35 pm

Insights from previous sessions
- **One Health response to Zoonoses**
- **Biodiversity and Ecosystems for human health**
- **Sustainable Food Systems**

Speakers tbc

2:35 - 2:40 pm

Interactive session - Polls on Key Questions

2:40 - 3:15 pm

Responses and Reflections from IHR

Key Stakeholders from IHR
Nagaland Chief Secretary/Health Commissioner
Uttarkashi - DM who is working on One Health

3:15 - 4:15 pm

**Inputs and responses from the Panel Governance and
institutional processes for One Health implementation:
challenges, policy environment and capacity**

Dr Arun Maira
(Former member, Planning Commission)
Shri C K Mishra
(Former Secretary, GoI)
Dr. Illias Animon
(FAO - South Asia (TBC))

4:15 - 4:25 pm

Concluding remarks

Dr V B Mathur
(Chairman, National Biodiversity Authority)

4:15 - 4:30 pm

Vote of Thanks

20th
NOVEMBER 2021

Dr. R. S. Tolia
Memorial Session

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Valedictory Session

5:00 - 5:05 pm

Welcome and Introduction to the Speaker

Priyadarshinee Shrestha
(Secretary, IMI)

5:05 - 5:45 pm

Dr. R.S. Tolia Memorial Lecture

Dr. E Sharma
(Vice Chancellor, TERI School of Advanced Studies)

5:45 - 6:00 pm

**Dr. R.S. Tolia Award 2021 Announcement
Few words from the Winner**

Ms. Preranandita Baisnab
(Programme Coordinator)

6:00 - 6:05 pm

Welcome address

Mr. Praful Rao
(President, DHI)

6:05 - 6:15 pm

Outcomes and recommendations of SMDSX

Ms. Priyadarshinee Shrestha

6:15 - 6:25 pm

**State Chapter Actions for taking forward the
recommendations**

Ms Binita Shah

6:25 - 6:35 pm

Announcing the Indian Himalaya Photography Contest

6:35 - 6:45 pm

**Passing of the Baton
Few words from the members**

6:45 - 6:55 pm

President's Remarks

Mr. PD Rai

6:55 - 7:00 pm

Vote of Thanks

Mr. Roshan Rai
(Secretary, DHI)