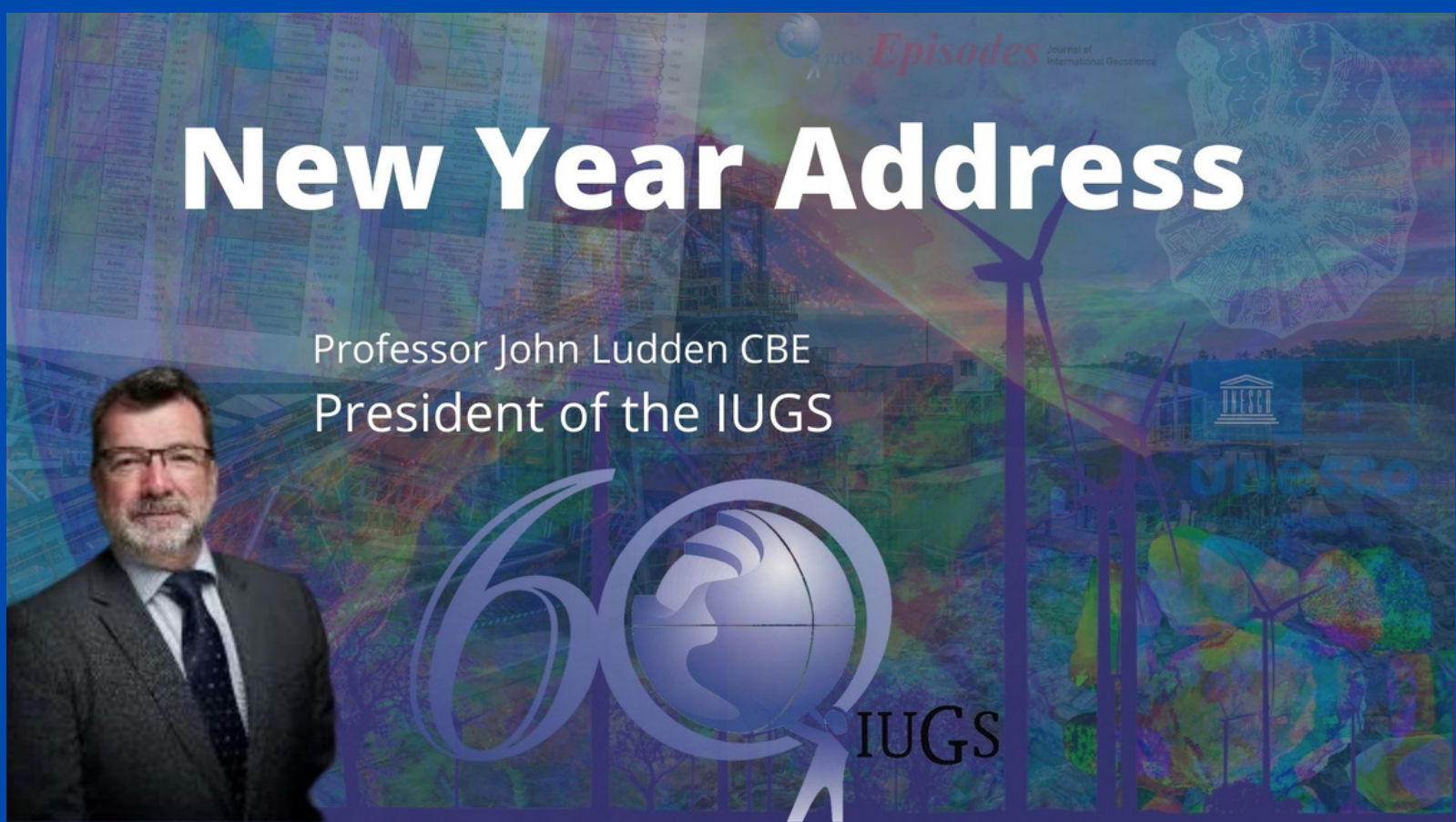




Episodes
Journal of International Geoscience

New Year Address

Professor John Ludden CBE
President of the IUGS



IUGS

<https://youtu.be/sTEjDfnRV4E>



<https://youtu.be/RbYMYrK9KNQ>



IUGS joins the 140th Anniversary
Celebrations Marking the Establishment of
the Geological Committee of Russia



<https://youtu.be/7JCiss0pZBo>

Sponsors

IUGS ENERGY TRANSITION SERIES EVENT NO.1: GEOTHERMAL



Talks -Five 10 mins presentations (questions - later)

- Sir Tim Smit from The Eden Project - UK
- Dr. Joseph Moore Utah FORGE \$220 million DOE-funded Enhanced Geothermal System (EGS) technology project - USA
- Sana'a Al-Zyoud Geothermal Energy Potential for Future Utilization in Jordan Al al-Bayt University
- Rebecca Bolton, early-career geothermal geoscientist (WiNG and CGG) - UK
- Geoffrey Kiptoo Mibei Geologist Geothermal Development Programme – Kenya

Talks



<https://youtu.be/jPr60zbSIZQ>

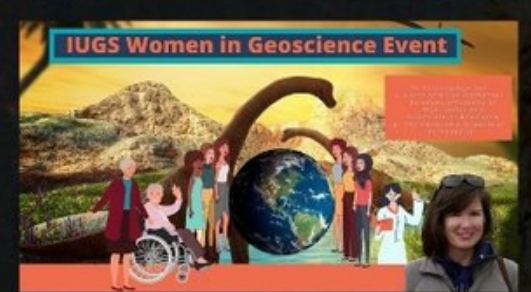
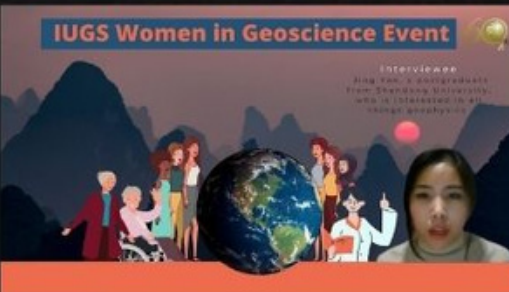
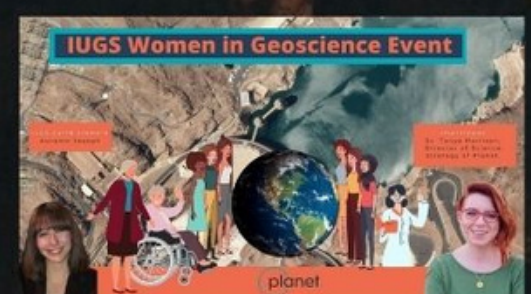
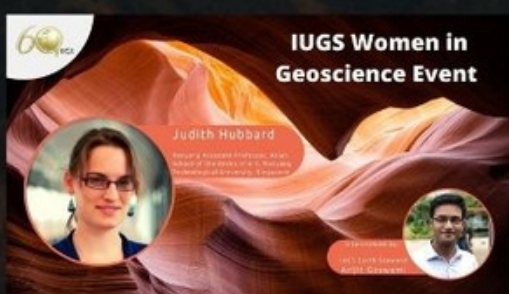
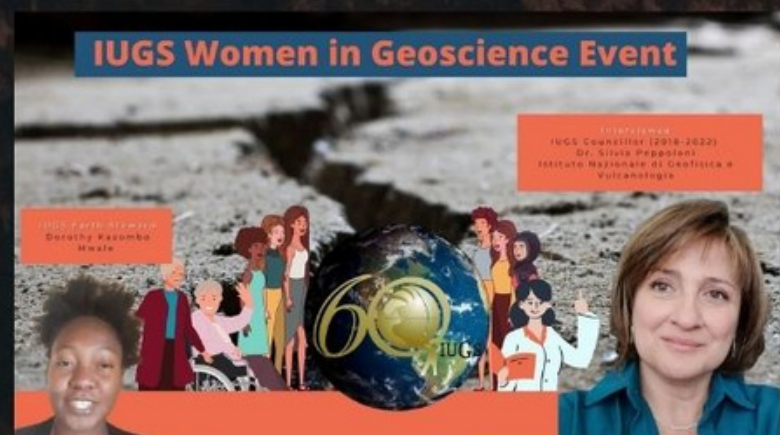
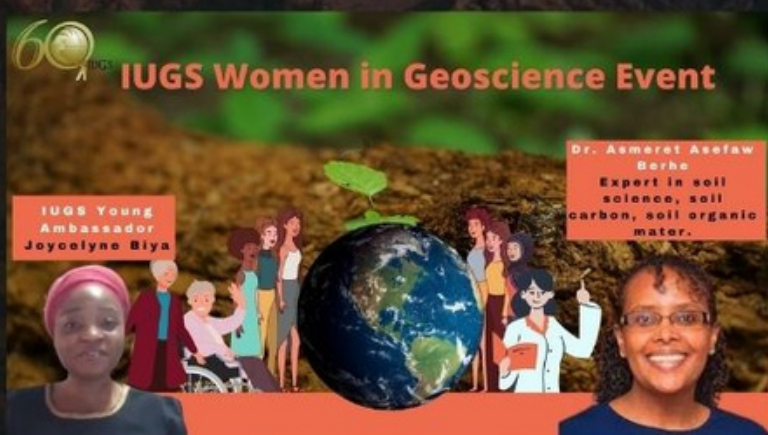
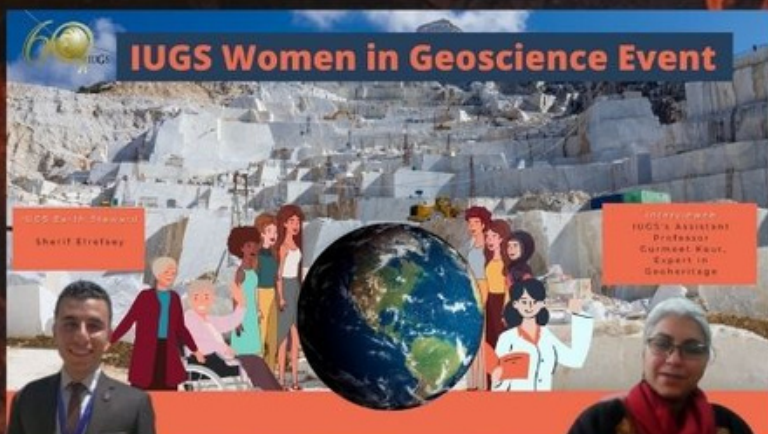
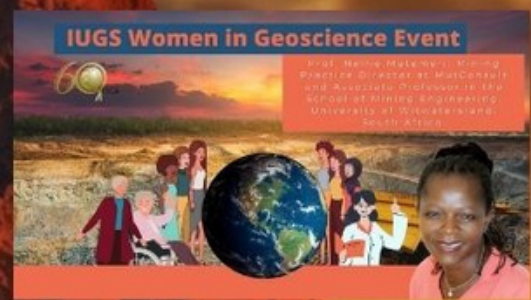
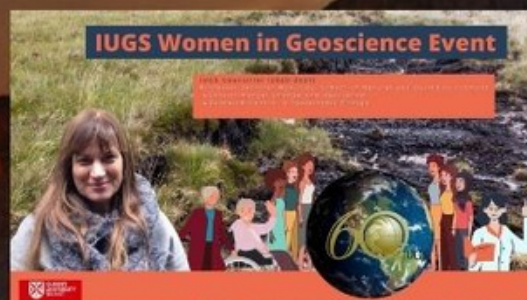
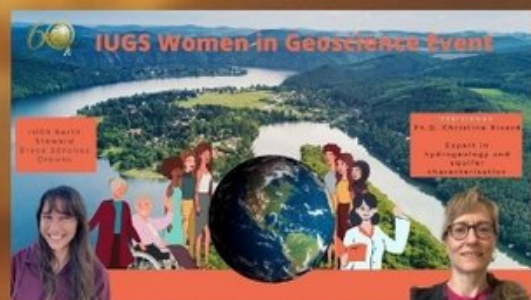
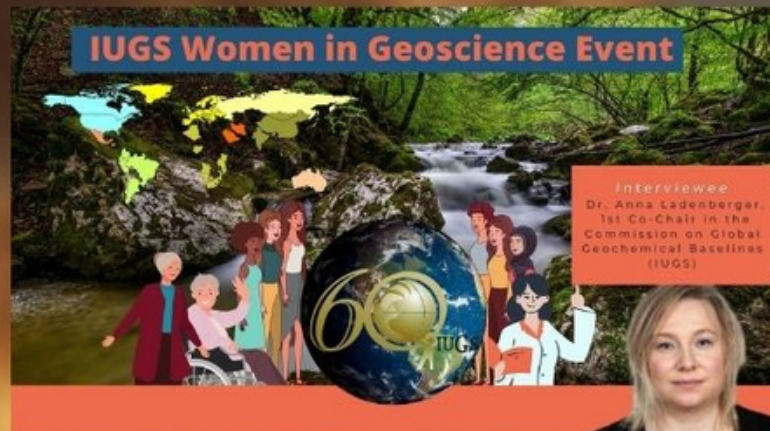




IUGS: Celebrating Women in Geoscience

In Celebration of the UN International Day of Women and Girls in Science

<https://iugs60.org/iugs-women-in-geoscience-event/>



<https://youtu.be/fpZON6tFK4w>
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<https://youtu.be/p4Nh7F7dz4g>
https://youtu.be/8VoTqBhf_ZM
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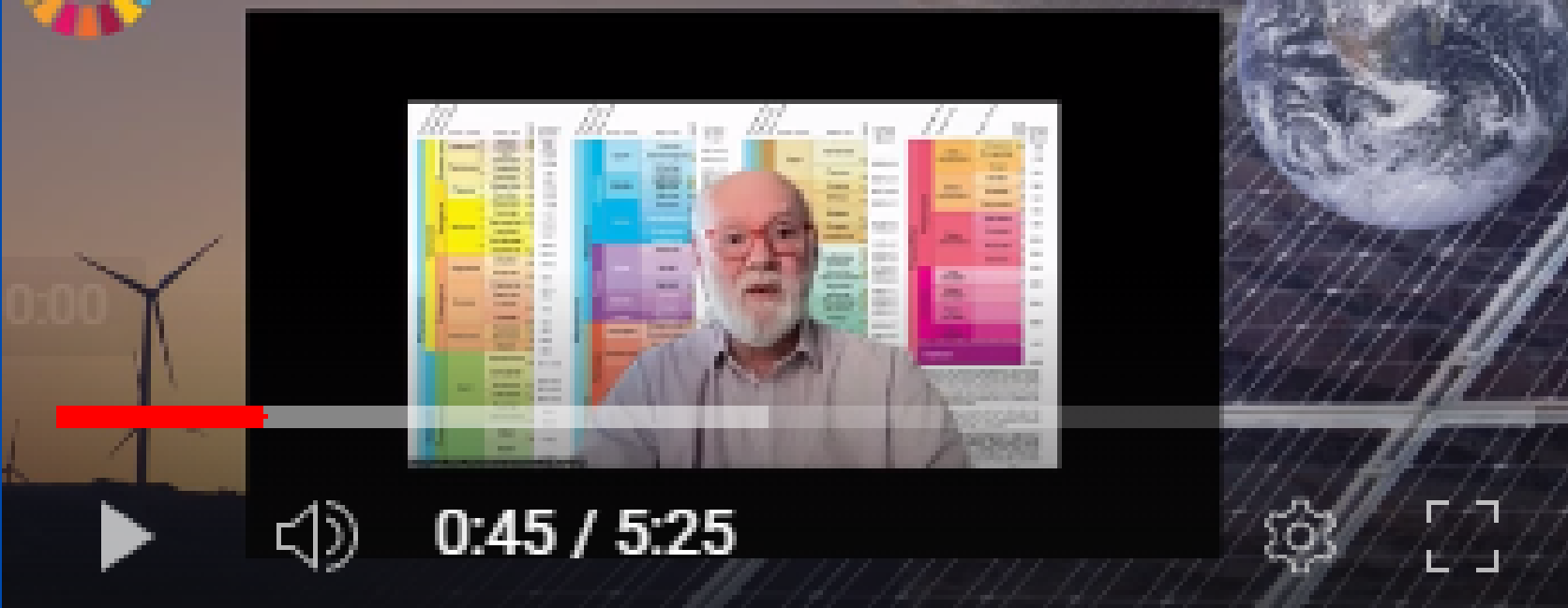
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<https://youtu.be/0Zq0qRmw2yc>
<https://youtu.be/lsMd9vDl5bs>
https://youtu.be/_-I7odYjZ9M



The IUGS wishes you a 'Happy Earth Day' 2022



THE GLOBAL GOALS



To catch up: <https://youtu.be/vRRrt2o0jou>

IUGS addressing societies needs



A united voice for geoscience

GAC SYMPOSIUM 2022



A Celebration of Canadian Geology

Special Focus: Canadian IUGS projects, Geoparks & IGCP projects which are creating a more sustainable future for all.

HALIFAX:

May 16-17 2022



19 Presentations

2 Panel discussions



Riding the waves of change
Surfer sur la vague
du changement



GEOLOGICAL
ASSOCIATION OF CANADA
ASSOCIATION
GÉOLOGIQUE DU CANADA



More information: <https://gac.ca/>

<https://youtu.be/qeLe1N5UPyU>

Chibanian GSSP Golden Spike Installation Ceremony in Ichihara, Japan 21.05.2022



This is a proud day for the international scientific community
and especially for the International Union of Geological
Sciences, the IUGS.



IUGS Secretary General
Prof. Dr. Stanley C. Finney

<https://youtu.be/JcBoi5rZSt8>

IUGS World Water Day Event



UN WATER
22 MARCH
WORLD
WATER
DAY

2022 Groundwater



To Catch up:

<https://youtu.be/L5lHXNqbs94>
<https://youtu.be/Kx1IVlHTQ6k>
<https://youtu.be/-W5zsQX6yR0>
<https://youtu.be/mdOVLA5-z4Q>
https://youtu.be/QOiz9Sx_ZPc
<https://youtu.be/GevopxmK4Lg>
<https://youtu.be/Keh2yT6nbeY>
https://youtu.be/e1_uWPV-53A
https://youtu.be/_VqD3EvEnpM
<https://youtu.be/Cbk9J4z-P8c>
<https://youtu.be/nwW3gRVj49E>
<https://youtu.be/kxxm4Muokuo>
<https://youtu.be/buaRzioRimU>
https://youtu.be/rzdWXJ2V_zs



THE STATE OF THE PLANET

WORLD-LEADING ENVIRONMENTAL EXPERTS

Talks, breakout rooms and panel discussion

VIRTUAL EVENT

When: 22nd April

At: 2-4.30 pm UK (BST)

To register: <https://www.events.iugc.ac.uk/details/earth-day-2022>



IUGS EARTH DAY EVENT

"THE STATE OF THE PLANET"

Planet Earth and its inhabitants are facing concurrent existential threats from climate change and biodiversity loss. Many parts of the world are already experiencing severe climate impacts, pollution, water and food insecurity challenges. Huge resource pressures and population displacements are forecast over the 21st century. This Earth Day event brings together international experts to give an overview of the state of the planet from their own perspective.

We envisage a panel discussion will explore how these different disciplines, perhaps working together, can meet the needs of future generations in a sustainable way.



To catch up: <https://youtu.be/CkdBRyYqdKE>



Geodiversity of Heritage Stone Resources



Geodiversity day welcome and introduction
by Associate Professor
Gurmeet Kaur



Tezoantla White Tuff

Erika Salgado Martínez (1,2), Laura Itzel González León (3),
Carles Canet (1,2) & Miguel Á. Cruz Pérez (1,2)

(1) Instituto de Geofísica, Universidad Nacional Autónoma de México, México
(2) Comarca Minera Geoparque Mundial, México
(3) Universidad Autónoma del Estado de Hidalgo, México



Pecchioni Gratin Stones of Florence

Fabio Fratini from CNR-ISPCC Florence,
Dott.ssa Geologo Elena Pecchioni
Dip.to Scienze della Terra Unifi.



Deccan Basalts

Dr. Raymond A. Duraiswami
Department of Geology, Savitribai Phule Pune University, India



Lower Globigerina Limestone, of the Maltese Islands

Prof. JoAnn Cassar
Professor and Head of the Department of Conservation and Built
Heritage within the Faculty for the Built Environment, University of
Malta, and Deputy Dean of the Faculty.



Sardinian Pink Granite

Dr. Nicola Caredda,
Associate Professor in Surface Mining and Dimension Stone
DICAAR - University of Cagliari, Italy



Connemara Marble

Patrick N. Wyse Jackson MA, PhD, ScD, HdipEd, FTCD, MRIA
Associate Professor of Geology, Curator, Geological Museum
Department of Geology
Trinity College Dublin,
IRELAND





6TH OCTOBER
**INTERNATIONAL
GEODIVERSITY
DAY**
THE DIVERSITY
SUSTAINS THE LIFE





**Introduction by the Chair of the IUGS Global Heritage
Stone Resource (GHSR), Ass. Prof. Gurmeet Kaur**



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Pecchioni Fratini Stones of Florence

Fabio Fratini from CNR-ISPCC Florence,
Dott.ssa Geologo Elena Pecchioni
Dip.to Scienze della Terra Unifi.





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Lower Globigerina Limestone, of the Maltese Islands

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Deccan Basalts

Dr. Raymond A. Duraiswami
Department of Geology, Savitribai Phule Pune University, India



To watch the videos:

<https://youtu.be/vCUKApkTguo>

https://youtu.be/mY_nlzkjm5Q

<https://youtu.be/vZmc038iT2g>

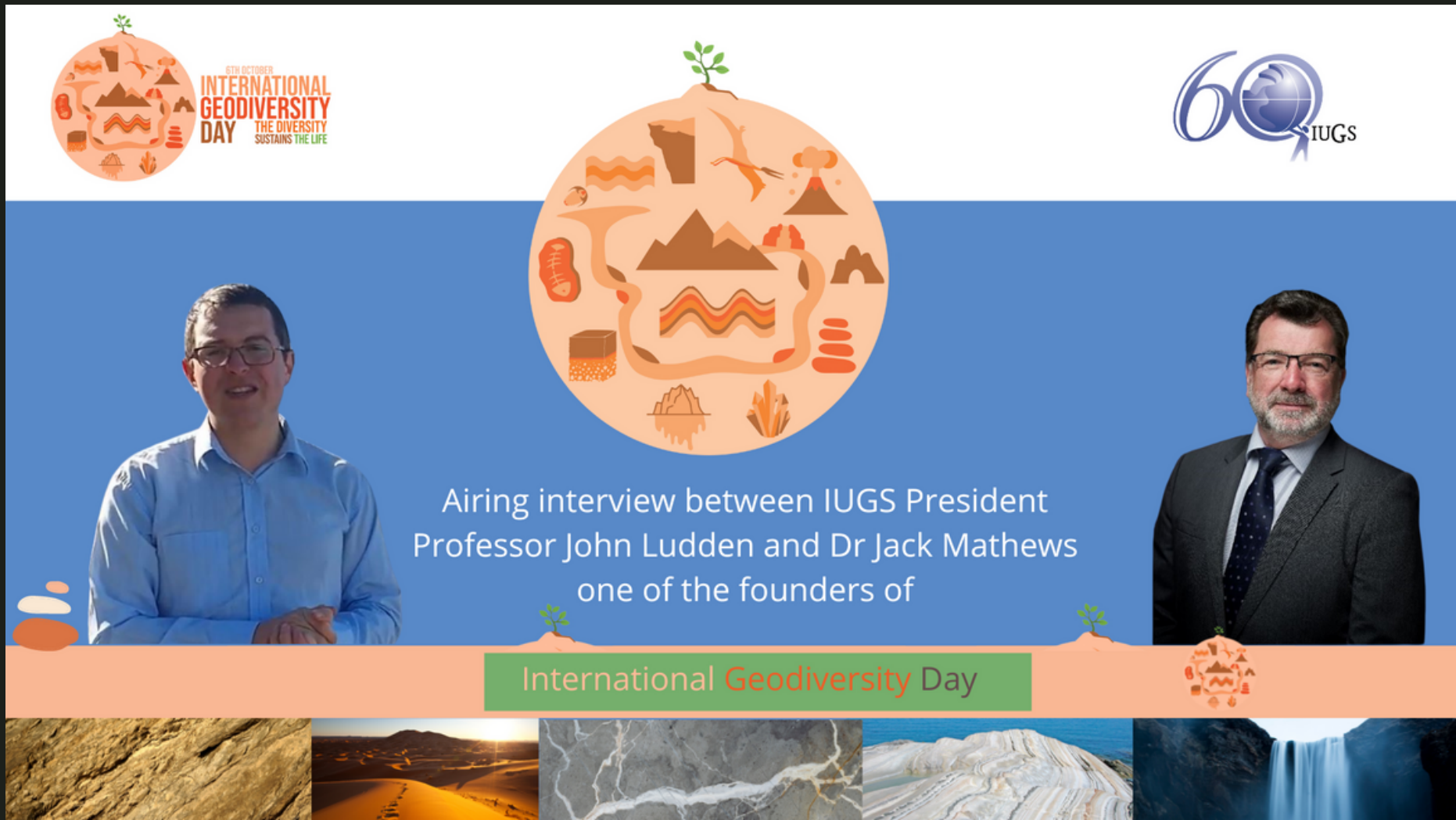
<https://youtu.be/-G2volpuMfE>

<https://youtu.be/RyGHiUxXrE8>

<https://youtu.be/iFXAfgzzOWU>

<https://youtu.be/Fy7ON6wQOOM>

<https://youtu.be/QHIAN-GSXRO>



https://youtu.be/lrkV325i0_E

Special live IUGS Geodiversity mini-event

Title: Geodiversity of time, tales and Earth's energy

3x 10 mins talks and 15 min Q&A on 3 geodiversity topics

Geodiversity of time

Geodiversity of the Permian - climate, tectonics and mass extinction - analogues for future Earth?

Geodiversity of energy - Geothermal reservoirs

When 06.10.22 Time: 1-1.45 BST Tickets - Free More information: <https://iugs60.org/geodiversity/>

https://youtu.be/Jp_nbfgHjTs

The roots of a geological union for the future of the Earth



INHIGEO: Promoting studies in the history of geological disciplines

IUGS 60th Celebrations - online INHIGEO special event

Event was held on 8 th October 2022

To view the video recording: <https://youtu.be/DT5UEVwlj1o>

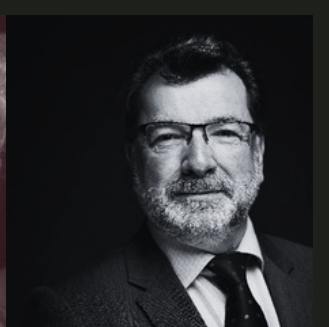
Moderators

Ezio Vaccari

Martina Kölbl-Ebert

INHIGEO President

INHIGEO Secretary-General



Opening address

John Ludden

IUGS President

A Planetary Health Check

Global Geochemical Baselines

Assessing the geochemistry of life's most vital Earth resources

More info: <https://youtube.com/shorts/FJkz4FihfCI>

Global Earth Stewardship
The **science** protecting our waters,
soils and air.



Moderators

Dr. Anna Ladenberger

Ms. Gloria Namwi Simubali

Professor John Ludden

IUGS-CGGB Co-Chair

IUGS-CGGB Deputy Chair

IUGS President



This event took place online on 10th October 2022

To Catch up on what you may have missed:

Part A: <https://youtu.be/1B-1QVg1Qzg>

Part B: <https://youtu.be/pdDm80HBTZw>

Tectonics: the science of the dynamic Earth



Event happened online: 12.10.22



Introductory Talk by Dr Taija Torvela, vice-chair of *TectTask*
What is tectonics and structural geology?

Special interest keynote talks:



Ameha Atnafu Muluneh

Talk: Splitting a continent: Deformation in the Ethiopian Rift, East Africa



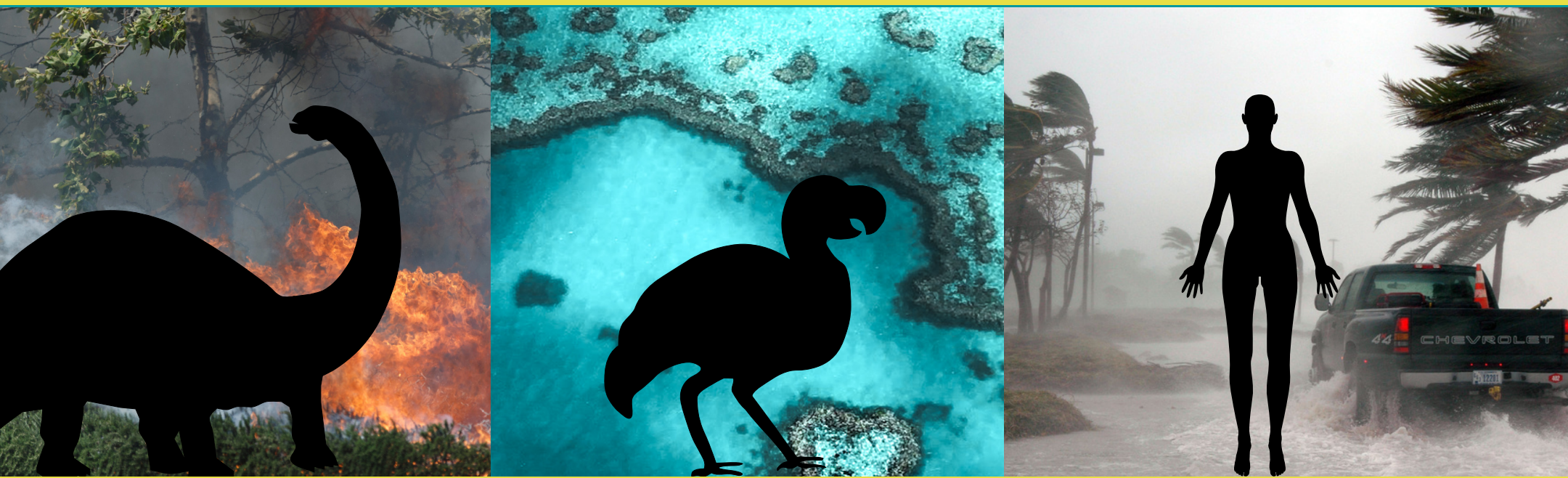
Manish Mamtani

Talk: How do gold deposits form? Insights from structural geology



To watch the recording of this event: <https://youtu.be/Ph-xc69ErwE>

Extinctions and the Stratigraphical Record: Is the past the key to the present?



Discussion Panel Event which took place 14.10.22

David A.T. Harper

Introduction to the International Chronostratigraphic Chart (IUGS): a framework for the recognition and understanding of mass extinctions.

Michael J. Benton (Chair)

The significance of mass extinctions in the history of life.

Junxuan Fan

AI algorithms and supercomputer searches of stratigraphic records for Earth's hidden extinctions.

Cameron Penn-Clarke

Recognition of high-latitude extinctions during the Devonian crises: challenges and future perspectives.

Zhen Xu

Vegetation collapse and recovery through the greatest mass extinction crisis of all time.

Melanie During

A spring-time apocalypse at the KPg boundary.

Eline Lorenzen

The rise and decline of the Pleistocene megafauna.

Daniela Schmidt

Palaeontology's contribution to understanding biodiversity loss and climate change impacts.



Recording available here: https://youtu.be/Tpl_duu_Fhs



Geoscience Solutions for Net Zero

Public Online Event held: 13.10.2022



12-2.20 pm BST, **11 x short** talks by leading science, policy and energy experts
2.20 pm-3.20 pm panel discussions and open mic



12.00 pm: Greeting from Professor John Ludden (IUGS President), housekeeping by Prof. Mads Huuse (Chair of Energy Group)

12.05: COP26 - COP27 Presenting progress and regressions since the last COP and an independent review of energy and climate forecasts.

Presenter: Arijit Goswami (IUGS Earth Steward and independent youth representative (India))

12.10: COP27 A short brief of what will be happening at COP27 in Egypt in Nov 2022.

Presenter: Sherif Abdelkader

(IUGS Earth Steward and independent Arab Youth Council for Climate Change representative (Egypt))

12.12: - Geoethics of advocacy in addressing society's greatest challenges

Giuseppe Di Capua IAPG-International Association for Promoting Geoethics (Treasurer)

12.25: - The big geocommunications rethink

Professor Iain Stewart, El Hassan Research Chair for Sustainability, UNESCO Chair in Geoscience and Society

12.40: -The role of Science and science unions in solving some of society's greatest challenges

Alison Meston (The International Science Council)

12.55: - The possible role of Geounions in solving key global challenges such as the climate crisis, Earth resource shortages, and anthropogenic degradation of the natural environment.

Professor John Ludden - President of the IUGS

1.05: - Micro-scale (individual geoscientist) Advocacy policy approaches - Chloe Hill (EGU)

A hand over to the advocates for geosolutions (with possible macro-scale advocacy potential)

1.20: Re-Storing carbon with nature and geology

Net Zero, Prof. Stuart Haszeldine from the University of Edinburgh

1.35: The Case for Geological Net Zero,

Professor Myles Allen, Professor of Geosystem Science in the School of Geography and the Environment and Department of Physics, and Director of the Oxford Net Zero initiative.

1.50: Case study of one of the possible Geosolutions - CCS

Prof. He Qingcheng , the principal scientist on Carbon Capture and Storage of China Geological Survey

2.05-2.20 pm Geothermal solutions for cooling and heating demands and its' global potential to contribute to Net Zero Sanaa al-zyoud Al al-Bayt University, Institute of Earth and Environmental Sciences, Jordan

To catch up on this event: youtu.be/AIFHJOeZlvq

