

## AITA MARI VENUE

## OXFORD VENUE

October 25

15:00 -18:00

18:00-19:30

## OPENING CEREMONY

Institutional opening and remarks

## Opening Keynotes

**Standards and procedures for, and benefits of, IUGS recognition of geological heritage sites****Stanley Finney**, Secretary General. International Union of Geological Sciences.**The International Union of Geological Sciences@ 60 years old****John Ludden**, President. International Union of Geological Sciences

19:30-20:30

Welcome cultural event

## PARTICIPANTS REGISTRATION

October 26

08:30-08:50

## HISTORY OF GEOSCIENCES

## Keynote lecture

**The beautiful history of a beautiful science. The historical value of Geosites****Ezio Vaccari**, Chair, IUGS Inter. Commission on the History of Geological Sciences (INHIGEO)

09:00

**001\_Siccar Point, Hutton's Unconformity. UK**

Martina Kölbl-Ebert, University of Munich &amp; INHIGEO

09:15

**002\_The Quaternary Phlegrean Fields volcanic complex. Italy**

Kathleen Histon, INHIGEO

09:30

**004\_The Holocene Puy-de-Dôme and Petit-Puy-de-Dôme volcanoes. France**

Kathleen Histon, INHIGEO. Benjamin van Wyk de Vries, Univ. Clermont Auvergne.

09:45

**005\_The Paleocene volcanic rocks of the Giant's Causeway and Causeway coast. UK**

Mark Cooper, British Geological Survey. Patrick N. Wyse Jackson, Trinity College Dublin

10:00

**006\_Funafuti Atoll. Tuvalu**

Sapolu Tetoa, Lands and Survey Department

10:15

**007\_Capelinhos volcano. Portugal**

Salomé Meneses, Azores UGGp

10:30

**008\_Tauberiente volcanic Caldera in La Palma island. Spain**

Juana Vegas Salamanca, IGME, CSIC

10:45-11:15

Coffee break

11:30-12:00

## Keynote lecture

**International Geoscience Program (IGCP) and Geoheritage****Ozlem Adiyaman**, UNESCO Earth Sciences and Geoparks section.

## AITA MARI VENUE

### IGNEOUS AND METAMORPHIC GEOLOGY

12:00 **045\_Archean Rocks of the Eastern Beartooth Mountains. USA**

David W. Mogk, Montana State University

12:15 **046\_The Stillwater Complex. USA**

Alan Boudreau, Duke University

12:30 **048\_Richat structure, a cretaceous Alkaline complex. Mauritania**

Michel Jébrak, Université du Québec à Montréal, Canada

12:45 **049\_The Miocene Torres del Paine intrusive complex. Chile**

Camilo Vergara, Ser. Nacional de Geología y Minería de Chile

### VOLCANOLOGY

13:00 **052\_The Quaternary Cameroon Volcano. Cameroon**  
Chislain Zangmo Tefogoum, University of Maroua

13:15 **055\_The Holocene Ulmen Maar. Germany**

Georg Büchel, Universität of Jena, Institute of Geosciences

13:30 **056\_The 1905-1911 Matavanu volcanic eruption. Samoa**

Iakopo Saumalu, Ministry of Natural Resources and Environment

13:45 **057\_The active Yasur-Yenkahe volcanic complex. Vanuatu**

Gary Lee, The Pacific Community-SPC, Fiji

### Lunch (not included in the registration)

15:30 **061\_The Cotacachi-Cuicocha volcanic complex. Ecuador**

Carlos Merizalde, Imbabura UGGp

15:45 **062\_The Quaternary Santorini Caldera. Greece**

Paraskevi Namikou, Dept. of Geology and Geoenvironment, NKUA

16:00 **063\_The vapor phase ignimbrites of Sillar in the Ñashuayco Quarries of Arequipa. Peru**

Diego Medina Núñez, INGENMET

16:15 **064\_The Pyroclastic deposits from the Huaynaputina volcano eruption 1600 CE. Peru**

Rigoberto Aguilar Contreras, INGENMET

16:30 **066\_El Tatío Geothermal field. Chile**

Camilo Vergara, Ser. Nacional de Geología y Minería de Chile

16:45 **067\_The Yellowstone volcanic and hydrothermal system. USA**

Jamie Farrell, University of Utah

### 17:00-17:15 IUGS MEDALS

Early career geoscientist medal. **Mónica Sánchez**  
Emile Argand IUGS medal. **Thure Edward Cerling**

### 17:15-17:45 Keynote lecture

**Isotopes, improbable questions, an unexpected journey**

**Thure Edward Cerling**, University of Utah

## OXFORD VENUE

### STRATIGRAPHY

#### Keynote lecture

**GSSP. Establishment of global standards for the history of the Earth**

**David Harper**, Chair, IUGS International Commission on Stratigraphy

**013\_Paleoproterozoic Banded Iron Formation of the Quadrilátero Ferrífero. Brazil**

Joana Sánchez, Universidade Federal de Goiás

**014\_Glacial record of the Marinoan snowball Earth. Namibia**

Helke Mocke, Geological survey of Namibia

**015\_The Cambrian Explosion in Sirius Passet. Greenland**

David Harper, IUGS- ICS

**016\_The Great Unconformity at Grand Canyon. USA**

Laura J. Crossey, University of New Mexico

**017\_The Ordovician rocks of the Mount Everest. China and Nepal**

David Harper, IUGS- ICS

**018\_Permian-Triassic great extinction and GSSPs of Meishan. China**

David Harper, IUGS- ICS

**019\_Carboniferous – Triassic Unconformity in Telheira. Portugal**

João Xavier Matos, LNEG

**021\_Cretaceous-Paleogene transition at Seymour (Marambio) Island. Antarctica**

Jerónimo López-Martínez, Universidad Autónoma de Madrid, Scientific Committee on Antarctic Research (SCAR)

**022\_Cretaceous – Paleogene stratigraphic section of Zumaia. Spain**

Laia Alegret, Univ. of Zaragoza & ICS-ISPS

**023\_GSSP of the Meghalayan Stage in the Mawmluh Cave. India**

Satish C. Tripathi, The Society of Earth Scientists

18:00-19:00 Boat trip to Zumaia section

## AITA MARI VENUE

## PALEONTOLOGY

08:30-09:00

## Keynote lecture

**Palaentological heritage: A journey through the history of life on Earth**

**Isabelle Rouget**, International Paleontological Association. IPA

09:00

**027\_Burgess Shale Cambrian Palaeontological Record. Canada**

Todd Keith, Parks Canada

09:15

**028\_Ordovician Fezouata Shale fossil site at JbelTizagzaouine. Morocco**

Khadija El Hariri, Université Cadi Ayyad

09:30

**029\_Middle Ordovician giant trilobites of Canelas Quarry. Portugal**

Artur Abreu Sá, Arouca UG6p

09:45

**032\_Late Permian Tete Fossil Forest. Mozambique**

Nelson Ernesto Nhamutole, National Museum of Geology

10:00

**033\_The Ammonite Slab of Digne-les-Bains. France**

Nicolas Charles, French Geological Survey (BRGM)

10:15

**034\_Jurassic Solnhofen-Eichstätt Archæopteryx serial site. Germany**

Roland Eichhorn, Geological Survey of Bavaria (Germany)

10:30-11:00

11:15-11:45

## Keynote lecture

**Past, present and global challenges for Geoconservation**

**Lars Erikstad**, President. International Association for the Conservation of Geological Heritage. ProGeo

11:45

**037\_Late Cretaceous Rudist Bivalves of the Caribbean province. Jamaica**

Sherene James-Williamson, University of the West Indies

12:00

**038\_Eocene paleontological record of Messel Pit Fossil Site. Germany**

Marie-Luise Frey, Welterbe Grube Messel gGmbH

12:15

**039\_Miocene Primates Paleontological site of Napak. Uganda**

Jackline Nyiracyiza Besigye, Ministry of Tourism, Wildlife and Antiquities

12:30

**040\_Lesvos Early Miocene Petrified Forest. Greece**

Nikolaos Zouras, Lesvos Petrified Forest UG6p

12:45

**041\_Palaeoanthropological Sites of Human Evolution of Laetoli–Olduvai Gorge. Tanzania**

Ramadhani Khatibu, Ngorongoro Conservation Area

13:00

**042\_Late Quaternary asphalt seeps and paleontological site of La Brea Tar Pits. USA**

Lori Bettison-Varga, Natural History Museum of Los Angeles County

13:15

## OXFORD VENUE

## GEOMORPHOLOGY

## Keynote lecture

**Geomorphological landscapes: valuable hosts of remarkable Geoheritage**

**Mauro Soldati**, Inter. Association of Geomorphologists. IAG

**079\_The Sugar Loaf monolith of Rio de Janeiro. Brazil**

Joana Sánchez, Universidade Federal de Goiás

**084\_The Grand Canyon. USA**

Karl E. Karlstrom, University of New Mexico

**087\_Dry Falls and The Channeled Scabland. USA**

Stanley Finney, California State University

**088\_Jutulhogget Canyon. Norway**

Tom Haldal, Geological Survey of Norway

**089\_Perito Moreno Glacier. Argentina**

Piotr Migoń, Inter. Association of Geomorphologists. IAG

## Coffee break

**090\_Rockglaciers of the Engadine. Switzerland**

Isabelle Gärtner-Roer, University of Zurich

**092\_Yardang (Kalut) in the Lut Desert. Iran**

Alireza Amrikazemi, Member of the Scientific Committee of Lut Desert World Heritage Base

**093\_Namib Sand Sea. Namibia**

Piotr Migoń, Inter. Association of Geomorphologists. IAG

**095\_Vajont landslide. Italy**

Paola Coratza, University of Modena and Reggio Emilia

**096\_Pamukkale Travertines. Turkey**

Mehmet Özkul, Pamukkale University

**098\_Škocjan Caves in the Classical Karst. Slovenia**

Matevž Novak, Geological Survey of Slovenia

**099\_Sac Actun Underwater Cave System. Mexico**

Rafael López Martínez, Univ. Nacional Autónoma de México

Lunch (not included in the registration)

October 28

15:00-15:30	<b>GEOCOLLECTIONS</b> A new IUGS recognition for the greatest geological collections at international level <b>Rachel Wallcot, Angela Ehling &amp; Marcela Gómez,</b> IUGS-ICG. Subcommittee on Geocollections
15:30-16:30	<b>THE FIRST 100</b> Evaluation and selection process Definition and main standards. What is next? <b>Asier Hilario, Benjamin Van Wyk de Vries, Juana Vegas, Zhang Jianping,</b> IUGS - ICG. Subcommittee on Sites.
16:30-17:45	<b>IUGS STONE HERITAGE DESIGNATIONS</b> <b>Kaur Gurmeet, Angela Ehling &amp; Victor Cardenes,</b> IUGS-ICG. Subcommittee on Stone Heritage

18:00-19:00 Boat trip to Zumaia section

08:30	<b>TECTONICS</b> <b>069_Namakdan Salt Cave. Iran</b> Alireza Amrikazemi, Qeshm Island UGGp
	<b>071_Upper Jurassic ophiolitic sequence in La Désirade Island. France</b> Nicolas Charles, French Geological Survey (BRGM)
	<b>073_Northern Snake Range metamorphic core complex. USA</b> David W. Mogk, Montana State University
<b>MINERALOGY</b>	
09:15	<b>075_Tsumeb ore deposit. Namibia</b> Helke Mocke, Geological Survey of Namibia
09:30	<b>076_The giant mercury deposit of the Almadén syncline. Spain</b> José Luis Gallardo Millán, Univ. of Castilla-La Mancha
09:45	<b>077_Deposits of Amethyst of Los Catalanes Gemological District. Uruguay</b> César Goso Aguilar, Univ. de la República. Mauricio Faraone, Servicio Geológico de Uruguay
<b>IMPACT STRUCTURES</b>	
10:00	<b>100_Domo de Araguainha Impact Structure. Brazil</b> Joana Sánchez, Universidade Federal de Goiás
10:15-10:45	
11:00-11:30	<b>GEOLOGICAL SURVEYS SUPPORTING IUGS GEOLOGICAL HERITAGE SITES</b> <b>Juana Vegas,</b> IGME-CSIC / IUGS - ICG.
11:30-12:00	<b>Keynote lecture</b> <b>Global Geopark: Memory of the Earth sustaining local communities</b> <b>Nickolas Zouros.</b> President. Global Geoparks Network. GGN

Coffee break

12:45-14:15 **IUGS 60th ANNIVERSARY CELEBRATION FINAL EVENT**  
*Official announcement of the First 100 IUGS Geological Heritage Sites*  
*IUGS Zumaia declaration and Cultural performance*

14:30 Final Lunch (included in the registration)

