



**ESRC** Earth  
Sciences  
Research Center

Sultan Qaboos University Oman  
1st International Conference on Earth Sciences and Energy Transition  
Muscat-Sultanate of Oman 6-10 February 2023



CO<sub>2</sub>

## Conference Program

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**1st International Conference on  
Earth Sciences and Energy Transition**  
6-10 February 2023 Muscat-Oman  
Earth Sciences Research Center - SQU



**Designed and Prepared by the Conference Program Committee**  
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**1st International Conference on  
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8-10 February 2023 Muscat-Oman  
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**1<sup>st</sup> ICESET** The First International Conference on Earth Sciences and Energy Transition is organized by the Earth Sciences Research Center at Sultan Qaboos University - Sultanate of Oman and will be launched every two years. The energy demand is increasing across many countries globally as the population increases. According to the United Nations report, the world population is expected to reach 9.6 billion by 2050, and energy demand is increasing from 11.4 billion tons of oil equivalent to 17.7 billion. The increase in global energy demand and consumption has significant implications for climate change. The transition to low-to-zero carbon energy is now a prime concern for the global community to reduce and avoid climate change and accordingly several governments have merged their economic growth rate and greenhouse gas emissions through a rapid increase in low-to-zero carbon energy. Earth sciences play a major role in enabling that transition possible toward low-to-zero carbon energy through geothermal energy, natural hydrogen exploration and production, carbon utilization and storage, energy storage, waste storage, and mining of minerals. The objective of this conference is to bring together earth scientists to share and exchange their up-to-date findings about low-to-zero carbon energy. The conference will also serve as a premier interdisciplinary forum for researchers, professionals, and educators to present and discuss the most recent innovations, trends, and concerns, as well as encountered challenges and adopted solutions in the field of earth sciences and energy transition.



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**Dear Earth Scientists,**

The Earth Sciences Research Center (ESRC) at Sultan Qaboos University cordially invites all earth scientists to the first [International Conference on Earth Sciences and Energy Transition](#) [ICESET-23] on **February 06 – 10, 2023 in Muscat, Sultanate of Oman**. The ESRC realized the future energy challenges as the energy demand is increasing across many countries globally as the population increases. According to the United Nations report, the world population is set to reach 9.6 billion by 2050, and energy demand is increasing from 11.4 billion tons of oil equivalent to 17.7 billion. Furthermore, the increase in global energy demand and consumption has significant implications for climate change. The transition to low-to-zero carbon energy is now a prime concern for the global community to reduce and avoid climate change, and accordingly, several governments have merged their economic growth rate and greenhouse gas emissions through a rapid increase in low-to-zero carbon energy. Earth sciences play a major role in enabling that transition towards low-to-zero carbon energy through geothermal energy, natural hydrogen exploration and production, carbon utilization and storage, energy storage, waste storage, and mining of minerals. The objective of ICESET-23 is to bring together earth scientists to share and exchange their most up-to-date findings about the energy transition and low-to-zero carbon energy. The conference will also serve as a premier interdisciplinary forum for researchers, professionals, and educators to present and discuss the most recent innovations, trends, and concerns, as well as encountered challenges and adopted solutions in the field of earth sciences and energy transition. I am looking forward to welcoming you to Muscat for a learning and memorable experience!

**Yours sincerely,**

**Organizing Committee**



## Organizer



## Host



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## 1. SCHEDULE



# 1 SCHEDULE

<b>First DAY</b>	<b>Monday 06 February 2023</b>
<b>08:00-09:30</b>	<b>Registration</b>
<b>09:30-10:00</b>	<b>Opening Ceremony</b> Conference Hall
<b>10:00-10:30</b>	<b>Coffee Break and Exhibition</b>
10:30-11:00	Keynote Speaker 1
11:00-12:30	Session Code A1-1 Conference Hall Session Code B1-1 Lecture Hall
<b>12:30-14:00</b>	<b>Lunch Break</b>
14:00-14:30	Keynote Speaker 2
14:30-15:30	Session Code A1-2 Conference Hall Session Code B1-2 Lecture Hall
<b>15:30-16:00</b>	<b>Coffee Break</b>
16:00-17:30	Session Code A1-3 Conference Hall Session Code B1-3 Lecture Hall
<b>18:30-21:30</b>	<b>Social Program: Ice Breaker and Dinner</b>
<b>Second DAY</b>	<b>Tuesday 07 February 2023</b>
08:30-09:00	Keynote Speaker 3
09:00-09:30	Keynote Speaker 4
9:30-10:00	Session Code A2-1 Conference Hall Session Code B2-1 Lecture Hall
<b>10:00-10:30</b>	<b>Coffee Break</b>
10:30-12:30	Session Code A2-2 Conference Hall Session Code B2-2 Lecture Hall
<b>12:30-14:00</b>	<b>Lunch Break</b>
14:00-14:30	Keynote Speaker 5
14:30-15:30	Session Code A2-3 Conference Hall Session Code A2-3 Lecture Hall
<b>15:30-16:00</b>	<b>Coffee Break</b>
16:00-17:00	Session Code A2-4 Conference Hall Session Code B2-4 Lecture Hall
<b>08:30-12:30</b>	<b>Short Course 1 Department of Earth Sciences (Meeting Room)</b>
<b>17:00-17:30</b>	<b>Gathering</b>
<b>17:30-22:00</b>	<b>Social Program: Tour to Muttrah Souq</b>
<b>Third DAY</b>	<b>Wednesday 08 February 2023</b>
08:30-09:00	Keynote Speaker 6
9:00-10:00	Session Code A3-1 Conference Hall Session Code B3-1 Lecture Hall
<b>10:00-10:30</b>	<b>Coffee Break</b>
10:30-12:30	Session Code A3-2 Conference Hall Session Code B3-2 Lecture Hall
<b>12:30-14:00</b>	<b>Lunch Break</b>
14:00-14:30	Keynote Speaker 7
14:30-14:50	Session Code A3-3 Conference Hall Session Code B3-3 Lecture Hall
<b>08:30-17:30</b>	<b>Short Course 2 Department of Earth Sciences</b>
<b>15:00-17:00</b>	<b>Closing and Award Ceremony</b>
<b>Fifth DAY</b>	<b>Friday 10 February 2023</b>
<b>08:00-17:30</b>	<b>Field Trip 3</b>





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## 2. CONFERENCE COMMITTEES







## 2. Conference Committees

### Organizing Committee

<b>Chair</b>	Mohamed El-Ghali, Sultan Qaboos University, Oman
<b>Co-Chair</b>	Arshad Ali, Sultan Qaboos University, Oman
<b>Members</b>	Osman Abdalla, Sultan Qaboos University, Oman Talal Al-Hosni, Sultan Qaboos University, Oman Mohamed Al-Kindi, ESCC, Oman Mariya Khalfan Al Kharusi, Sultan Qaboos University, Oman Abdulmunaim Al Zakwani, Geological Society of Oman, Oman Badriya Al Zakwani, Sultan Qaboos University, Oman Amna Al Shaidi, Sultan Qaboos University, Oman

### Scientific Committee

<b>Chair</b>	Arshad Ali, Sultan Qaboos University, Oman
<b>Co-Chair</b>	Mohamed El-Ghali, Sultan Qaboos University, Oman

#### Track 1 Natural Hydrogen (Session ID: NH)

<b>Chair</b>	Tarek Ganat, Sultan Qaboos University, Oman
<b>Co-Chair</b>	Khalid Al-Ramadan, King Fahd of Petroleum and Minerals, KSA
<b>Members</b>	Mohamed Al-Wosabi, Sana'a University, Yemen Arshad Raza, King Fahd of Petroleum and Minerals, KSA

#### Track 2 Geothermal Energy (Session ID: GE)

<b>Chair</b>	Mohamed Farfour, Sultan Qaboos University, Oman
<b>Co-Chair</b>	Osman Abdalla, Sultan Qaboos University, Oman
<b>Members</b>	Mingjie Chen, Sultan Qaboos University, Oman

#### Track 3 Solar and Wind Energy (Session ID: SWE)

<b>Chair</b>	Mohamed Moustafa, Sultan Qaboos University, Oman
<b>Co-Chair</b>	Hezam Al Awah, Qatar University, Qatar
<b>Members</b>	Numair Siddiqui, Universiti Technology Petronas, Malaysia Al Sharif Al Baghdadi, Libyan Academy of Postgraduate, Libya

#### Track 4 Hydroenergy (Session ID: HE)

<b>Chair</b>	Mohamed Khalifa, Libyan Academy of Postgraduate, Libya
<b>Co-Chair</b>	Mohamed Al-Gharbi, Water Researches and Technologies Center, Tunisia

#### Track 5 Wave and Tide Energies (Session ID: WTE)

<b>Chair</b>	NA
<b>Co-Chair</b>	NA

**Track 6 Energy Storage (Session ID: ES)**

**Chair** Mohamed El-Ghali, Sultan Qaboos University, Oman  
**Co-Chair** Osman Salad Hersi, University of Regina, Canada  
**Members** Ahmed Shmela, Cardiff University, UK  
Abdullah Alqubalee, King Fahd of Petroleum and Minerals, KSA

**Track 7 Energy Waste and Environment (Session ID: EWE)**

**Chair** Osman Abdalla, Sultan Qaboos University, Oman  
**Co-Chair** Sanket Joshi, Sultan Qaboos University, Oman  
**Members** Mingjie Chen, Sultan Qaboos University, Oman

**Track 8 Energy Management, Policies, and Economics (Session ID: EMPE)**

**Chair** Rifaat Abdalla, Sultan Qaboos University, Oman  
**Co-Chair** Sanket Joshi, Sultan Qaboos University, Oman  
**Members** Nisar Ahmad, Sultan Qaboos University, Oman

**Track 9 CO<sub>2</sub> Capture, Utilization, and Storage (Session ID: CCUS)**

**Chair** Arshad Ali, Sultan Qaboos University, Oman  
**Co-Chair** Andreas Scharf, Sultan Qaboos University, Oman  
**Members** Khalifa Elderbak, Ellington Geological Services, USA  
Sankaran Rajendran, Qatar University, Qatar  
Mohamed Shalaby, Universiti Brunei Darussalam, Brunei  
Arshad Raza, King Fahd of Petroleum and Minerals, KSA  
Mingjie Chen, Sultan Qaboos University, Oman

**Track 10 Non-renewable Energy Resources and Case Studies (Session ID: NERCS)**

**Chair** Salah Al Khirbash, Sultan Qaboos University, Oman  
**Co-Chair** Talal Al-Hosni, Sultan Qaboos University, Oman  
**Members** Tariq Bhatti, Pakistan Nuclear Society, Pakistan  
Niaz Ahmad, Pakistan Nuclear Society, Pakistan

**Publications Committee**

**Chair** Mohamed El-Ghali, Sultan Qaboos University, Oman  
**Co-Chair** Arshad Ali, Sultan Qaboos University, Oman

**Field Trips Committee Trips Committee**

**Chair** Salah Al Khirbash, Sultan Qaboos University, Oman  
**Co-Chair** Mohamed Moustafa, Sultan Qaboos University, Oman  
**Members** Andreas Scharf, Sultan Qaboos University, Oman  
Issa Al Shibli, Geological Society Oman, Oman

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Laila Al Habsi, Geological Society Oman, Oman

### **Social Activities Committee**

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**Co-Chair** Mariya Khalfan Al Kharusi, Sultan Qaboos University, Oman

### **Program Committee**

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**Co-Chair** Arshad Ali, Sultan Qaboos University, Oman  
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Iftikhar Ahmed, Sultan Qaboos University, Oman  
Tarek Ganat, Sultan Qaboos University, Oman  
Rifaat Abdalla, Sultan Qaboos University, Oman  
Naser Tarhuni, Sultan Qaboos University, Oman  
Jenan Attar, Sultan Qaboos University, Oman  
Soad Al Handhali, Sultan Qaboos University, Oman  
Sulaiman Al Badi, Sultan Qaboos University, Oman

### **Visa and Accommodation**

**Chair** Mariya Khalfan Al Kharusi, Sultan Qaboos University, Oman

### **Marketing and Media Committee**

**Chair** Faisal Al Harrasi, Sultan Qaboos University, Oman  
**Co-Chair** Soad Al Handhali, Sultan Qaboos University, Oman





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### 3. KEYNOTE SPEAKERS





### **3 Keynote Speakers**

#### **Keynote Speaker 1**

##### **Unlocking the Future Energy Potential Through the Understanding of the Geology**

Mohamed Al-Kindi

Monday February 06, 2023 10:30-11:00 Conference Hall

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#### **Keynote Speaker 2**

##### **Bioleaching of Cu, Ni, Co, Mo, Au, U and Zn from ores and black shales: Past, present and future**

Tariq Bhatti

Monday February 06, 2023 14:00-14:30 Conference Hall

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#### **Keynote Speaker 3**

##### **Natural hydrogen exploration – State of knowledge and focus on the Intra-cratonic systems**

Emanuelle Frery

Tuesday February 07, 2023 08:30-09:00 Conference Hall

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#### **Keynote Speaker 4**

##### **Hydrogen: Decarbonization Lever and Future Energy Vector**

Khalil Al Hanashi

Tuesday February 07, 2023 09:00-09:30 Conference Hall

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#### **Keynote Speaker 5**

##### **From gas to stone Carbon Capture and Storage: where are we?**

Lionel Esteban

Tuesday February 07, 2023 14:00-14:30 Conference Hall

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#### **Keynote Speaker 6**

##### **Geothermal Energy: A Little-Known Defense in the Fight Against Global Warming**

Azzan Al Yaarubi, and Tefvik Kaya

Wednesday February 08, 2023 08:30-09:00 Conference Hall

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#### **Keynote Speaker 7**

##### **Energy Transition-The Underground Storage of Hydrogen**

Prashant Jadhawar

Wednesday February 08, 2023 14:00-14:30 Conference Hall

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## 4. SHORT COURSES





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## 4. Short Courses

### Short Course 1

#### **Carbonate Clumped Isotope Thermometry: Methodology, Instrumentation and Application in Earth and Space Science Materials**

Iffat Jabeen, PMI-SWOC, Canada, and Arshad Ali, Sultan Qaboos University, Oman

**Tuesday February 07, 2023 08:30-12:30 Department of Earth Sciences**

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### Short Course 2

#### **Using thin section to recognize and understand the carbonate diagenesis process and environment**

Mohamed Moustafa, Sultan Qaboos University, Oman

**Wednesday February 08, 2023 08:30-17:30 Department of Earth Sciences**

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## 5. FIELD TRIPS





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## 5 Field Trip

### Field Trip 3

#### **Transect through the Oman Mountains**

Mohamed Al-Kindi, ESCC, Oman

**Friday February 10, 2023 08:00-17:30**

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## 6. ORAL TALKS



## 6 ORAL TAKLS

### DAY 1 MONDAY FEBRUARY 06, 2023

08:00-09:30 CONFERENCE HALL  
 09:30-10:00 REGISTRATION  
 10:00-10:30 OPENING CEREMONY  
 COFFEE BREAK AND EXHIBITION

10:30-11:00 CONFERENCE HALL  
**Keynote Speaker 1: Mohamed Al-Kindi**  
**Unlocking the Future Energy Potential Through the Understanding of the Geology**

**SESSION A1-1 CONFERENCE HALL**  
**Session Chair Rifaat Abdalla**  
**Session Co-Chair Abdullah Al Fahdi**  
**Session Duration 11:00-12:30**  
**Number of Talks [6 Talks] = [3 Oral Talk In Person] Plus [3 Oral Talks Virtually]**

11:00-11:15 **Using a Hybrid Off-grid Semi-fixed Solar System to Power a Water Pump in a Water Supply Well in Remote Areas**  
 ICESET-23-136-3 Sharifa Al Ruheili, Khansaa AL Mahrami, Khalid AL Wardi, Mohammed AL Hashmi, and Omar Al Jaaidi  
**Oral Talk [In Person]**

11:15-11:30 **Machine Learning Algorithm Based Defect Severity of Solar PV System Components Monitored Through Thermal Imaging and Processed by Image Region Analysis**  
 ICESET-23-45-3 Al Reem Al Risi, Fatma Al Zaabi, Raqiya Al Maaini, Azza Al-Washahi, and Murali Krishna Boddu  
**Oral Talk [In Person]**

11:30-11:45 **Review of the Criteria for Selecting Wind Energy Sites**  
 ICESET-23-96-3 Maryam Rahman, Amar Oukil, Ahmed E-Bouri, Khaled Alawasa, and Rashid Al-Abri  
**Oral Talk [In Person]**

11:45-12:00 **Evaluation of Reservoir Characteristics and Logging of the Naccowlah Block of the Cooper-Eromanga Basin, Australia**  
 ICESET-23-52-10 Beyosta Acharya, Hisham Ben Mahmud, and Mohammed Khalifa  
**Oral Talk [Virtual]**

12:00-12:15 **Effects of Tuning Decision Trees in Random Forest Regression in Predicting Porosity of a Reservoir: A Case Study of Volve Oil Field, North Sea**  
 ICESET-23-59-10 Kushan Oshadi Sandunil Kohona Walawwe, Ziad Bennour, Hisham Ben Mahmud, and Ausama Giwelli  
**Oral Talk [Virtual]**

12:15-12:30 **Kinetic Rate-based Process Simulation of Biogas to Syngas Integrated With CFD Reactor Model**  
 ICESET-23-8-7 Mazeen Abdalla, Pali Rosha, and Hussameldin Ibrahim  
**Oral Talk [Virtual]**

<b>SESSION B1-1</b>	<b>LECTURE HALL</b>
<b>Session Chair</b>	<b>Osman Abdalla</b>
<b>Session Co-Chair</b>	<b>Jenan Attar</b>
<b>Session Duration</b>	<b>11:00-12:30</b>
<b>Number of Talks</b>	<b>[6 Talks] = [6 Oral Talk In Person]</b>
<b>11:00-11:15</b>	<b>Identification of Recharge Mechanism, Assessment of Groundwater Quality and Quantity of Lahore Aquifer Using Isotopic, Hydro-chemical and Numerical Modeling Tools</b> Niaz Ahmad, and Arshad Ali
<b>ICESET-23-83-10</b> <b>Oral Talk [In Person]</b>	
<b>11:15-11:30</b>	<b>Soil Salinity Mapping Using Remote Sensing and GIS in Arid Semi-Arid Region</b> Maryem Ismaili, Samira Krimissa, Mustapha Namous, Fatima Aboutaib, Hasna Eloudi, and Tarik Benabdelouhab
<b>ICESET-23-35-7</b> <b>Oral Talk [In Person]</b>	
<b>11:30-11:45</b>	<b>Site Selection Study on the Low and Intermediate Radioactive Waste Repository in Jordan</b> Osama A. Twaiq, and Nezar Hammouri
<b>ICESET-23-46-7</b> <b>Oral Talk [In Person]</b>	
<b>11:45-12:00</b>	<b>Parallel Self Organizing Neural Network (PSOINN) Prediction of Water Saturation in Carbonate Reservoirs</b> Hamada G M, Al-Gathe A A, and Al-Khudafi A M
<b>ICESET-23-11-10</b> <b>Oral Talk [In Person]</b>	
<b>12:00-12:15</b>	<b>Seismic Characterization of Carbonate Stringers Using Machine Learning: A Case Study from South Oman</b> Hilal Al Obaidani, and Mohammed Farfour
<b>ICESET-23-86-10</b> <b>Oral Talk [In Person]</b>	
<b>12:15-12:30</b>	<b>Machine Learning Application in Reservoir Characterization: A Case Study from Volve Field, North Sea</b> Hussein Al Shibli, and Mohammed Farfour
<b>ICESET-23-109-10</b> <b>Oral Talk [In Person]</b>	
<b>12:30-14:00</b>	<b>LUNCH BREAK</b>
	<b>CONFERENCE HALL</b>
<b>14:00-14:30</b>	<b>Keynote Speaker 2: Tariq Bhatti</b> <b>Bioleaching of Cu, Ni, Co, Mo, Au, U, and Zn from ores and black shales: Past, present, and future</b>
<b>SESSION A1-2</b>	<b>CONFERENCE HALL</b>
<b>Session Chair</b>	<b>Mohamed Al-Gharbi</b>
<b>Session Co-Chair</b>	<b>Bushra Al Daghari</b>
<b>Session Duration</b>	<b>14:30-15:30</b>
<b>Number of Talks</b>	<b>[4 Talks] = [2 Oral Talks In Person] Plus [2 Oral Talks Virtually]</b>

<b>14:30-14:45</b>	<b>Remote Sensing Images Processing and Multi-Criteria Evaluation Methods Using Ordered Weighted Average (OWA) Approach for Olive Mill Wastewater Disposal Sites Selection in Sidi Bouzid Region, Tunisia</b>
<b>ICESET-23-69-7</b> <b>Oral Talk [In Person]</b>	Wissal Issaoui, Dimitrios D. Alexakis, Imen Hamdi Nasr, and Mohamed Hédi Inoubli
<b>14:45-15:00</b>	<b>Valorization of Waste Wood from Olive Tree and Palm Tree as Biosorbents for Water Retention in Soil and Nutrients Regulator for Plants</b>
<b>ICESET-23-74-7</b> <b>Oral Talk [In Person]</b>	Rim Driouich Chaouachi, Mohamed Taha Khadher, and Salah Ammar
<b>15:00-15:15</b>	<b>Permeability Determination of Qusaiba Source Rock Shale from North of Buraidah Outcrops</b>
<b>ICESET-23-55-10</b> <b>Oral Talk [Virtual]</b>	Omar A. Almisned, Imad A. Almushaigeh, and Hamdan G. Alyami
<b>15:15-15:30</b>	<b>Litho-Biostratigraphic Characteristics of Lower to Upper Cenomanian Age in the Aures Basin (NE Algeria)</b>
<b>ICESET-23-53-10</b> <b>Oral Talk [Virtual]</b>	Aida Bensekhria, Ramdane Marmi, and Gilles Merzeraud
<b>SESSION B1-2</b>	<b>Lecture HALL</b>
<b>Session Chair</b>	<b>Mohamed Khalifa</b>
<b>Session Co-Chair</b>	<b>Amrou Al Alawi</b>
<b>Session Duration</b>	<b>14:30-15:30</b>
<b>Number of Talks</b>	<b>[4 Talks] = [4 Oral Talk In Person]</b>
<b>14:30-14:45</b>	<b>Synthesis and Characterization of Zeolite Y From Bambu Clay</b>
<b>ICESET-23-85-7</b> <b>Oral Talk [In Person]</b>	Abdullahi A. Musa, Haruna M. Sani, Abdurashed Agava and Usman, and H. Taura
<b>14:45-15:00</b>	<b>Mapping and Analysis of Soil Erodibility in the Issen Basin (Western High Atlas, Morocco)</b>
<b>ICESET-23-92-7</b> <b>Oral Talk [In Person]</b>	Mohamed Ait Haddou, Youssef Bouchriti, Belkacem Kabbachi, Ali Aydda, and Rachid Amiha
<b>15:00-15:15</b>	<b>Artificial Intelligence to Reduce Uncertainty in Petroleum System Analysis: Example from Penobscot Field, Nova Scotia</b>
<b>ICESET-23-110-10</b> <b>Oral Talk [In Person]</b>	Mohammed Farfour, and Said Al Farsi
<b>15:15-15:30</b>	<b>Multi-wave Inversion (MWI) and Machine Learning (ML) for High Resolution P-wave Velocity Model of Near Surface: a Case Study From Oman</b>
<b>ICESET-23-132-10</b> <b>Oral Talk [In Person]</b>	Maha Al-Ghannami, David McCarthy and Mohammed Farfour
<b>15:30-16:00</b>	<b>COFFEE BREAK AND IN PERSON POSTER SESSION</b>

<b>SESSION A1-3</b>	<b>CONFERENCE HALL</b>
<b>Session Chair</b>	<b>Mohamed Farfour</b>
<b>Session Co-Chair</b>	<b>Intisar Al Hamadani</b>
<b>Session Duration</b>	<b>16:00-17:30</b>
<b>Number of Talks</b>	<b>[6 Talks] = [2 Oral Talk In Person] Plus [4 Oral Talks Virtually]</b>
<b>16:00-16:15</b>	<b>Multi-Wave Inversion and Unsupervised Machine Learning to Improve Seismic Imaging of Near Surface</b>
<b>ICESET-23-133-10</b>	Omaima Al Droushi, and Mohammed Farfour
<b>Oral Talk [In Person]</b>	
<b>16:15-16:30</b>	<b>Palynology of Precambrian/Neoproterozoic Sediments in the Sirt Basin, Libya: Reconnaissance Study</b>
<b>ICESET-23-125-10</b>	Ali D. El-Mehdawi, and Ibrahim E. Elkanouni
<b>Oral Talk [In Person]</b>	
<b>16:30-16:45</b>	<b>Assessment of the Petrophysical Properties to Improve Reservoir Characterization of the Eromanga Basin of Southwestern Queensland, Australia</b>
<b>ICESET-23-65-10</b>	Symon Sesu Raj Sagaiaraja, Hisham Ben Mahmud, and Mohamed KH. Khalifa
<b>Oral Talk [Virtual]</b>	
<b>16:45-17:00</b>	<b>Seismicity the Jeddah-Mekkah Region: Insights from Regional Stress Analysis</b>
<b>ICESET-23-73-10</b>	Makrem Harzali
<b>Oral Talk [Virtual]</b>	
<b>17:00-17:15</b>	<b>Hydrochemistry, Sources of Contamination and Associated Health Risk in High Nitrate Aquifer, Wadi Fatima, Saudi Arabia</b>
<b>ICESET-23-76-10</b>	Natarajan Rajmohan, Milad H. Z. Masoud, Abdulaziz M. Alqarawy, and Burhan A. M. Niyazi
<b>Oral Talk [Virtual]</b>	
<b>17:15-17:30</b>	<b>Fractures Evaluation of Basement Metamorphic Rock Using Conventional Well Logs: A Preliminary Study</b>
<b>ICESET-23-84-10</b>	Muhammad Luqman Hasan, and Tivadar M. Tóth
<b>Oral Talk [Virtual]</b>	
<b>SESSION B1-3</b>	<b>LECTURE HALL</b>
<b>Session Chair</b>	<b>Mohamed Moustafa</b>
<b>Session Co-Chair</b>	<b>Shahlaa Al Suhai</b>
<b>Session Duration</b>	<b>16:00-17:30</b>
<b>Number of Talks</b>	<b>[6 talks] = [6 Oral Talk In Person]</b>
<b>16:00-16:15</b>	<b>Dephosphoration of Iron Ore by Direct Reduction with Reformed Natural Gas</b>
<b>ICESET-23-14-10</b>	Mohammed Tayeb Abedghars
<b>Oral Talk [In Person]</b>	
<b>16:15-16:30</b>	<b>Beneficiation and Economic Aspects of Chromite Minerals from North Pakistan: A Case Study from Dargai Ophiolitic Complex</b>
<b>ICESET-23-51-10</b>	Muhammad Shahab, and Liaqat Ali
<b>Oral Talk [In Person]</b>	

<b>16:30-16:45</b>	<b>FTIR Study of Pipe 200 Kimberlite Peridotite Xenoliths: Evidence for Mantle Evolution</b>
<b>ICESET-23-81-10</b> <b>Oral Talk [In Person]</b>	Sahroz Khan, Nóra Liptai, István J. Kovács, Yana Fedorchuk, and Tivadar M. Toth
<b>16:45-17:00</b>	<b>Lower Eocene Black Shale Beds of the Rus Formation, Northern Oman: A Future Resource of Natural Fuel and Critical Metals</b>
<b>ICESET-23-97-10</b> <b>Oral Talk [In Person]</b>	Tariq Mahmood Bhatti, Arshad Ali, and Mohamed El-Ghali
<b>17:00-17:15</b>	<b>Environmental Bioremediation of Abandoned Copper Mine, Lasail, Northern Oman: A Proposed Case Study</b>
<b>ICESET-23-98-10</b> <b>Oral Talk [In Person]</b>	Tariq Mahmood Bhatti, Arshad Ali, and Mohamed El-Ghali
<b>17:15-17:30</b>	<b>Beneficiation and Economic Aspects of Chromite Minerals from North Pakistan: A Case Study from Dargai Ophiolitic Complex</b>
<b>ICESET-23-28-8</b> <b>Oral Talk [In Person]</b>	Muhammad Shahab, and Liaqat Ali
<b>18:30-21:30</b>	<b>SOCIAL PROGRAM: ICE BREAKER AND DINNER AT SULTAN QABOOS UNIVERSITY</b>

<b>DAY 2                      TUESDAY FEBRUARY 07, 2023</b>	
<b>CONFERENCE HALL</b>	
<b>08:30-09:00</b>	<b>Keynote Speaker 3: Emanuelle Frery</b> <b>Natural hydrogen exploration – State of knowledge and focus on the Intra-cratonic systems</b>
<b>09:00-09:30</b>	<b>Keynote Speaker 4: Khalil Al Hanashi</b> <b>Hydrogen: Decarbonization Lever and Future Energy Vector</b>
<b>SESSION A2-1                      CONFERENCE HALL</b>	
<b>Session Chair</b>	<b>Jenan Ahmed Attar</b>
<b>Session Co-Chair</b>	<b>Salma Al Rahbi</b>
<b>Session Duration</b>	<b>09:30-10:00</b>
<b>Number of Talks</b>	<b>[2 Talks] = [2 Oral Talks In Person]</b>
<b>09:30-09:45</b>	<b>Can Helium gas be a substitute to Hydrogen gas in laboratory core flooding exercise for safety: A Nuclear Magnetic Resonance core flooding experience</b>
<b>ICESET-23-122-1</b> <b>Oral Talk [In Person]</b>	Lionel Esteban, Ahmed Al-Yaseri, Joel Sarout, Ausama Giwelli, and Mohammad Sarnadivaleh
<b>09:45-10:00</b> <b>ICESET-23-138-1</b> <b>Oral Talk [In Person]</b>	<b>Hydrogen Production from Hydrocarbons</b> Abir Al Shuaili
<b>SESSION B2-1                      LECTURE HALL</b>	
<b>Session Chair</b>	<b>Abdalla Al Fahdi</b>
<b>Session Co-Chair</b>	<b>Fathiya Al Nasiri</b>
<b>Session Duration</b>	<b>09:30-10:00</b>
<b>Number of Talks</b>	<b>[2 Talks] = [2 Oral Talks In Person]</b>
<b>09:30-09:45</b>	<b>Quaternary Aeolianite Dunes Provenance: Petrofacies and Geochemical Characteristics of Bousher Dune Fields of Northern Oman</b>
<b>ICESET-23-20-10</b> <b>Oral Talk [In Person]</b>	Al-Hakam Al-Yazeedi, Al-Yas Al-Rajihi, Mohamed Al-Habsi, and Mohamed A.K. El-Ghali
<b>09:45-10:00</b>	<b>Quaternary Aeolianite Sandstone Paleoenvironment Evolution: Lithofacies and Geochemical Evidence from the Bousher Dune Fields of Northern Oman</b>
<b>ICESET-23-107-10</b> <b>Oral Talk [In Person]</b>	Mohamed Al-Habsi, Al-Yas Al-Rajihi, Al-Hakam Al-Yazeedi, and Mohamed El-Ghali
<b>10:00-10:30                      COFFEE BREAK AND IN PERSON POSTER SESSION</b>	
<b>SESSION A2-2                      CONFERENCE HALL</b>	
<b>Session Chair</b>	<b>Andreas Scharf</b>
<b>Session Co-Chair</b>	<b>Razan Al Naabi</b>
<b>Session Duration</b>	<b>10:30-12:30</b>
<b>Number of Talks</b>	<b>[8 Talks] = [2 Oral Talk In Person] Plus [6 Oral Talk Virtual]</b>



<b>10:30-10:45</b> <b>ICESET-23-12-10</b> <b>Oral Talk [In Person]</b>	<b>Palynofacies and Geochemical Investigation of the Triassic Source Rock Sequences in Maragh Trough, North East Sirt Basin, Libya</b> Mohamed Hrouda, Ali El-Mehdawi, and Khadiga Ashure
<b>10:45-11:00</b> <b>ICESET-23-67-10</b> <b>Oral Talk [In Person]</b>	<b>Source Rock Characteristics and Evaluation for Natih-E Member of North Oman</b> Ibrahim K.I. Al Salimi, Mohamed A.K. El-Ghali, and Iftikhar Ahmed Abbasi
<b>11:00-11:15</b> <b>ICESET-23-13-9</b> <b>Oral Talk [Virtual]</b>	<b>Reservoir Simulation of Enhanced Oil Recovery with CO<sub>2</sub> Sequestration</b> Ramil Guliev
<b>11:15-11:30</b> <b>ICESET-23-29-9</b> <b>Oral Talk [Virtual]</b>	<b>Calculating Carbon Sequestration at Curzon Hall Campus, University of Dhaka</b> Ria Adhikar
<b>11:30-11:45</b> <b>ICESET-23-37-4</b> <b>Oral Talk [Virtual]</b>	<b>GIS-based Site Suitability Analysis for Hydropower Plant Development Using Analytic Hierarchy Process (AHP)</b> Sandeep Panchal
<b>11:45-12:00</b> <b>ICESET-23-17-1</b> <b>Oral Talk [Virtual]</b>	<b>Renewable Hydrogen Energy Transition: Policy Implications in Southeast Asia</b> Sharmili Dhar, and Muhammad Nawaz
<b>12:00-12:15</b> <b>ICESET-23-36-9</b> <b>Oral Talk [Virtual]</b>	<b>The Assessment of Regulatory Ecosystem Services : the Case of the Carbon Storage Service using Invest Model in the Beht Watershed (Morocco)</b> Hassana Ismaili Alaoui and Rabea Ziri
<b>12:15-12:30</b> <b>ICESET-23-90-6</b> <b>Oral Talk [Virtual]</b>	<b>Machine Learning Approach in the Modelling of Intrinsic Kinetic Rate Constant for Methane Hydrates</b> Alamezie Chinedu, Prashant Jadhawar, Jos Derksen, and Motaz Saeed
<b>SESSION B2-2</b> <b>Session Chair</b> <b>Session Co-Chair</b> <b>Session Duration</b> <b>Number of Talks</b>	<b>LECTURE HALL</b> <b>Tarek Ganat</b> <b>Mithaa Al Jabri</b> <b>10:30-12:30</b> <b>[8 Talks] = [8 Oral Talks In Person]</b>
<b>10:30-10:45</b> <b>ICESET-23-21-10</b> <b>Oral Talk [In Person]</b>	<b>Evaluating the Stratigraphic Reservoir of the Middle Devonian Sandstone Strata across the Central-North Al-Wafa Field of Ghadames Basin, North-Western Libya: Integrated Reservoir Facies Architecture Relationships and Depositional Environments</b> Mohamed KH. Khalifa, Mohamed A. Soltanb, and Bottrillc R.S.

<b>10:45-11:00</b>	<b>Evaluation of Remaining Oil in the Gharif Formation Reservoirs of Mature Oil Field</b>
<b>ICESET-23-57-10</b> <b>Oral Talk [In Person]</b>	Majid Al-Musalhi, Svetlana Rudyk, and Usman Taura
<b>11:00-11:15</b>	<b>A Review of Lithostratigraphic Significance Relationships and Facies Distribution Across the Darling Basin, Southeastern Australia: Concepts and Examples from Hydrocarbon Reservoir Potential of the Uppermost Silurian through Devonian Sandstone Formations</b>
<b>ICESET-23-61-10</b> <b>Oral Talk [In Person]</b>	Mohamed KH. Khalifa, and Mills K. J.
<b>11:15-11:30</b>	<b>Displacement Pressure of MICP Curves for Saturation-Height Modeling in Tight Gas Reservoir</b>
<b>ICESET-23-101-10</b> <b>Oral Talk [In Person]</b>	Svetlana Rudyk, and Pavel Spirov
<b>11:30-11:45</b>	<b>Diagenetic Alterations of the Infra- Cambrian Ara Carbonates (A1C) in the South Oman Salt Basin</b>
<b>ICESET-23-105-10</b> <b>Oral Talk [In Person]</b>	Salma Al Rahbi, Mohamed A.K. El-Ghali, Mohamed Moustafa, Abdul Rahman Al-Harithi, and Aisha Al-Hajari
<b>11:45-12:00</b>	<b>Diagenesis and Reservoir Quality of the Cryogenian Glacial System: An Example from the Outcropping Fiq Formation of the Abu Mahara Group in the Jabal Akhdar Area, Northern Oman</b>
<b>ICESET-23-106-10</b> <b>Oral Talk [In Person]</b>	Razan Y. Al Naabi, Mohamed A.K. El-Ghali, Mohamed S.H. Moustafa, and John D. Smweing
<b>12:00-12:15</b>	<b>Petrophysical Properties and Diagenetic Alterations of The Late Carboniferous and Early Permian Glaciogenic Reservoirs: An Example from Al Khata Formation, Block 56, Eastern Flank of South Oman Salt Basin</b>
<b>ICESET-23-112-10</b> <b>Oral Talk [In Person]</b>	Elham K.S Al-Nadabi, Mohamed A.K. El-Ghali, and Alex Ilic
<b>12:15-12:30</b>	<b>Depositional Environment and Reservoir Quality of the Pre-Cambrian Kharus Formation, Wadi Bani Kharus, Saltanat of Oman</b>
<b>ICESET-23-113-10</b> <b>Oral Talk [In Person]</b>	Elham K.S Al-Nadabi and Mohamed A.K. El-Ghali
<b>12:30-14:00</b>	<b>LUNCH BREAK</b>
<b>CONFERENCE HALL</b>	
<b>14:00-14:30</b>	<b>Keynote Speaker 5: Lionel Esteban</b> <b>From gas to stone Carbon Capture and Storage: where are we?</b>
<b>SESSION A2-3</b>	<b>CONFERENCE HALL</b>
<b>Session Chair</b>	Khalil Al Hooti
<b>Session Co-Chair</b>	Alya Al Balushi
<b>Session Duration</b>	14:30-15:30
<b>Number of Talks</b>	[4 Talks] = [2 Oral Talks In Person] Plus [2 Oral Talks Virtually]

<b>14:30-14:45</b> <b>ICESET-23-44-9</b> <b>Oral Talk [In Person]</b>	<b>Listwaenite Formation during Extensional Tectonics (Fanja Area, Eastern Hajar Mountains, Sultanate of Oman)</b> Andreas Scharf, Ivan Callegari, Frank Mattern, Christopher M. Bailey, and Uwe Ring
<b>14:45-15:00</b> <b>ICESET-23-34-3</b> <b>Oral Talk [In Person]</b>	<b>Experimental Investigation on the Impact of Ground Surface Reflection Properties in the Photovoltaics Generation</b> Idris Al Siyabi, and Mohammed Al Lawati
<b>15:00-15:15</b> <b>ICESET-23-70-9</b> <b>Oral Talk [Virtual]</b>	<b>Preliminary Findings From A small-Scale Field Trial of Coastal Enhanced Weathering with Olivine in NY, USA</b> Grace Andrews, Hailey Hayes, Sydney Ethen, Christopher Gobler, Robert Cerrato, Matthew Sclafani, Nicolas S. Fisher, Francesc Montserrat, Stephen Romaniello, and Nathan Gerard Walworth
<b>15:15-15:30</b> <b>ICESET-23-99-9</b> <b>Oral Talk [Virtual]</b>	<b>Cretaceous Sandstone Reservoirs of Southern Oman as Potential Candidates for CO<sub>2</sub> Sequestration and Storage system</b> Salad Hersi, O., Abbasi, I.A, El-Ghali., M.A.K, Al-Harathi, and A., Arshad Ali
<b>SESSION B2-3</b> Session Chair Session Co-Chair Session Duration Number of Talks	<b>LECTURE HALL</b> Talal Al-Hosni Anwaar Al Mahrouqi 14:30-15:30 [4 Talks] = [4 Oral Talks In Person]
<b>14:30-14:45</b> <b>ICESET-23-102-9</b> <b>Oral Talk [In Person]</b>	<b>Extraction of a heavy Hydrocarbon Mixture from Cavernous limestone by Supercritical Carbon Dioxide</b> Svetlana Rudyk, and Pavel Spirov
<b>14:45-15:00</b> <b>ICESET-23-120-10</b> <b>Oral Talk [In Person]</b>	<b>Turbidities and Sub-Marine Fan System in Batain Mélange Zone: An Example from the Late Cretaceous Fayah Formation in Northeastern Oman</b> Iftikhar Ahmed Abbasi, Jenan Attar, Abdulrahman Al-Harthy, and Mohamed A.K. El-Ghali
<b>15:00-15:15</b> <b>ICESET-23-126-10</b> <b>Oral Talk [In Person]</b>	<b>Depositional environment and diagenesis of Al Aziziyah 2 Formation, Jifarah Basin, northwest Libyan</b> Mohamed Moustafa , Michael Pope, Ethan Grossman, and Ibrahim Y. Mriheel
<b>15:15-15:30</b> <b>ICESET-23-77-2</b> <b>Oral Talk [In Person]</b>	<b>Using Digital Rock Technology for Pore Scale Investigation for the Success of Geothermal Fluid Reinjection</b> Njeru Rita Mwendiaa, Matthias Halischb, and Janos Szanyia
<b>15:30-16:00</b>	<b>COFFEE BREAK AND IN PERSON POSTER SESSION</b>
<b>SESSION A2-4</b> Session Chair Session Co-Chair Session Duration Number of Talks	<b>CONFERENCE HALL</b> Mingjie Chen Lababa Al Hilali 16:00-17:00 [4 Talks] = [4 Oral Talks Virtually]

<b>16:00-16:15</b>	<b>Analysis of Ice Conditions to Identify Transport Accessibility in the Arctic</b>
<b>ICESET-23-68-8</b> <b>Oral Talk [Virtual]</b>	Kristina Galkova, and Ramil Guliev
<b>16:15-16:30</b>	<b>Foresight facing land degradation affected by climate change and environmental, human activities</b>
<b>ICESET-23-117-7</b> <b>Oral Talk [Virtual]</b>	Reza Balouch Mohammad Rezakhani, Hamed Eskandari Damaneh, Gholamreza Zehtabian, Hassan Khosravi, and Hadi Eskandari Damaneh
<b>16:30-16:45</b>	<b>Using GIS to Model an Environmental Risk Assessment Associated With Waste Water of Olive Oil Mills</b>
<b>ICESET-23-78-7</b> <b>Oral Talk [Virtual]</b>	Yasser Farhat, and Wided Batita
<b>16:45-17:00</b>	<b>Genesis and Economic Potential of Meta Sediments Sulfide Deposits of Bagrot Valley, Tehsil Danyor, District Gilgit, Gilgit Baltistan, Pakistan</b>
<b>ICESET-23-115-10</b> <b>Oral Talk [Virtual]</b>	Adil Nawaz, Muhammad Kamran, Abdul Ghaffar, and Muhammad Waqas
<b>SESSION B2-4</b>	<b>LECTURE HALL</b>
<b>Session Chair</b>	<b>Sanket Joshi</b>
<b>Session Co-Chair</b>	<b>Muthanna Al Mughairi</b>
<b>Session Duration</b>	<b>16:00-17:00</b>
<b>Number of Talks</b>	<b>[4 Talks] = [4 Oral Talks In Person]</b>
<b>16:00-16:15</b>	<b>Stratigraphy, Foraminiferal Paleontology, and Facies Architecture of the Late Cretaceous Post-Emplacement Simsim Formation in Oman</b>
<b>ICESET-23-64-10</b> <b>Oral Talk [In Person]</b>	Mithaa Salim Al-Jabri, Iftikhar Ahmed Abbasi, Ercan Ozcan, Mohamed El-Ghali, and Abdulrazaq Al Sayigh
<b>16:15-16:30</b>	<b>Depositional Facies of the Cryogenian Glacial System: An Example from the Outcropping Fiq Formation of the Abu Mahara Group in the Jabal Akhdar Area, Northern Oman</b>
<b>ICESET-23-75-10</b> <b>Oral Talk [In Person]</b>	Razan Y. Al Naabi, Mohamed A.K. El-Ghali, Mohamed S.H. Moustafa, and John D. Smweing
<b>16:30-16:45</b>	<b>Seismic Sequence Stratigraphic Subdivision of the Snake Cave Interval within the Darling Basin, Southeastern Australia (Southern Pondie Range, Blantyre and western Neckarboo Sub-Basins) using Integration of Seismic and Well Data.</b>
<b>ICESET-23-103-10</b> <b>Oral Talk [In Person]</b>	Mohamed KH. Khalifa, K. J. Mills, and Mohamed A. K. El-Ghali
<b>16:45-17:00</b>	<b>Paleotopographic highs and incised valleys at the top of the Middle Ordovician Hawaz Formation, Murzuq Basin, SW Libya: New insights from high-resolution seismic attributes</b>
<b>ICESET-23-104-10</b> <b>Oral Talk [In Person]</b>	Aiman Ezzaroug, Osman Salad Hersi, and Ahmad Alzaruk.
<b>17:00-17:30</b> <b>17:30-22:00</b>	<b>ASSEMBLY AT SULTAN QABOOS UNIVERSITY</b> <b>SOCIAL PROGRAM: TOUR TO MUTTRAH SOUQ</b>

**DAY 3****WEDNESDAY FEBRUARY 08, 2023****CONFERENCE HALL****08:30-09:00**

**Keynote Speaker 6: Azzan Al Yaarubi and Tevfik Kaya**  
**Geothermal Energy: A Little-Known Defense in the Fight Against Global Warming**

**SESSION A3-1****CONFERENCE HALL**

**Session Chair**  
**Session Co-Chair**  
**Session Duration**  
**Number of Talks**

**Mohamed Al-Kindi**  
**Abdulrahman Shehu**  
**09:00-10:00**  
**[4 Talks] = [2 Oral Talks In Person] Plus [2 Oral Talks Virtually]**

**09:00-09:15**

**Chemostratigraphy of the Lower Mahil Formation (ks-1 Khuff-equivalent), Northern Oman**

**ICESET-23-127-10**  
**Oral Talk [In Person]**

Mohamed Moustafa, Mohamed El-Ghali, Rasha Al Ragaishi, Iftikhar Ah-med, Hezam Al-Awah, Musaab Shakir Al Sarmi, Abdulrazak Al-Sayigh, Arshad Ali, Araf Al Humaidi, and Nada Al Ghafri

**09:15-09:30**

**Evolution of Himalayan Geothermal Fields and Assessment of Reservoir Temperatures using Chemical and Isotopic Geothermometers**

**ICESET-23-72-2**  
**Oral Talk [In Person]**

Niaz Ahmad, and Arshad Ali

**09:30-09:45**

**The Effect of Casing Design on Well X Production in Geothermal Y Field Using Jiwa Flow**

**ICESET-23-47-2**  
**[virtual] [Oral Talk]**

Akhmad Sofyan, and Syafira Wiharti

**09:54-10:00**

**Detection of Geothermal Potential Zones in Desert Area Using Remote Sensing**

**ICESET-23-116-2**  
**[virtual] [Oral Talk]**

Mahdie Shaker, Hassan Khosravi, Hadi Eskandari Dameneh, Seyede Marziyeh Shobeiri

**SESSION B3-1****LECTURE HALL**

**Session Chair**  
**Session Co-Chair**  
**Session Duration**  
**Number of Talks**

**Salah Al Khirbash**  
**Zeyana Al Aufi**  
**09:00-10:00**  
**[4 Talks] = [4 Oral Talks In Person]**

**09:00-09:15**

**Comparison Between Seismic Reservoir Characterization for Oil and Gas Industry and for Geothermal Industry**

**ICESET-23-88-2**  
**Oral Talk [In Person]**

Mohammed Farfour, Mohamed El-Ghali, and Khalil Al Hooti

**09:15-09:30**

**Geophysical Modeling for Understanding the Geology of Geothermal Fields: Example from North Sea**

**ICESET-23-89-2**  
**Oral Talk [In Person]**

Mohamed Farfour

**09:30-09:45**

**Hot Springs in North Oman, Causes and Potential of Geothermal Energy**

**ICESET-23-100-2**  
**Oral Talk [In Person]**

Osman Abdalla, Talal Al-Hosni, Mohamed Al-Wardi, and Rashid Al-Abri

<b>09:54-10:00</b>	<b>An Innovative Method of Water Management by Desalinating the Produced Water Using Thermal Renewable Energy</b>
<b>ICESET-23-135-2</b>	Sharifa Al Ruheili, Felix Tiefenbacher , Khansaa AL Mahrami, Nazir Shahin, and Omar Al Jaaidi
<b>Oral Talk [In Person]</b>	
<b>10:00-10:30</b>	<b>COFFEE BREAK AND IN PERSON POSTER SESSION</b>
<b>SESSION A3-2</b>	<b>CONFERENCE HALL</b>
<b>Session Chair</b>	<b>Iftikhar Ahmed</b>
<b>Session Co-Chair</b>	<b>Ayman Al Tiwani</b>
<b>Session Duration</b>	<b>10:30-12:30</b>
<b>Number of Talks</b>	<b>[10 Talks] = [2 Oral Talks In Person ] Plus [5 Oral Talks virtually] Plus [3 Posters Virtually]</b>
<b>10:30-10:45</b>	<b>Prediction of Capacity Diving in Second-Life of Lithium-Ion Batteries for Renewable Energy Storage Applications</b>
<b>ICESET-23-2-6</b>	Satheesh Kumar Sampath, and Saravanan Velusamy
<b>Oral Talk [In Person]</b>	
<b>10:45-11:00</b>	<b>Hydrogen Storage in the Subsurface – lessons learned in Europe – Options in Oman</b>
<b>ICESET-23-71-6</b>	Peter Kukla, Sausan Al Riyami, Detlef Stolten, and Heidi Heinrichs
<b>Oral Talk [In Person]</b>	
<b>11:00-11:15</b>	<b>Prediction of Blast-Induced Flyrock Distance Using ANN and MLR: A Comparative Analysis</b>
<b>ICESET-23-7-7</b>	Oluwabankole Joseph Ojo, and Abiodun Ismail Lawal
<b>Oral Talk [virtual]</b>	
<b>11:15-11:30</b>	<b>Investigation of Radioactivity Levels in Cement Raw Materials and Product Samples from Messebo Cement Fabric in Ethiopia</b>
<b>ICESET-23-43-7</b>	Yared Birhane Kidane, and Tilahun Tesfaye Deressu
<b>Oral Talk [virtual]</b>	
<b>11:30-11:45</b>	<b>A Review on the Effect of Thermal Properties on the Soundless Chemical Demolition Agent Expansion Pressure and Rate for Rock and Cement Breakage Application</b>
<b>ICESET-23-32-7</b>	Aiman Mahmad Nor, Mohd Hazizan Mohd Hashim and Syed Fuad Saiyid Hashim
<b>Oral Talk [virtual]</b>	
<b>11:45-12:00</b>	<b>Quantifying Variability of Physical /Petrophysical Properties of a Potential Disposal Site of Radioactive Waste Using X-ray Computed-Tomography Scan Images (CT)</b>
<b>ICESET-23-25-7</b>	Saja Abutaha, János Geiger, Sándor Gulyás, and Ferenc Fedor
<b>Oral Talk [virtual]</b>	
<b>12:00-12:15</b>	<b>Prediction of an Environmental Impact of Blasting in Dolomitic Marble Deposit Using Different Types of ANN</b>
<b>ICESET-23-9-7</b>	Akinyemi Morakinyo, and Abiodun Ismail Lawal
<b>Oral Talk [virtual]</b>	
<b>12:15-12:30</b>	<b>Stay for Virtual Posters Session [3 virtual posters]</b>
	<b>CONFERENCE HALL</b>
	<b>Refer to page 50 for detailed Schedule</b>

<b>SESSION B3-2</b>	<b>LECTURE HALL</b>
<b>Session Chair</b>	<b>Ali El-Mehdawi</b>
<b>Session Co-Chair</b>	<b>Mohammed Al Hooti</b>
<b>Session Duration</b>	<b>10:30-12:30</b>
<b>Number of Talks</b>	<b>[8 Talks] = [8 Oral Talks In Person]</b>
<b>10:30-10:45</b>	<b>Numerical Evaluation of Integrated CO2 Sequestration and Geothermal Production using Depleted Oil Reservoirs in North Oman</b>
<b>ICESET-23-49-9</b>	Mingjie Chen, Ali Al-Maktoumi, and Azizallah Izady
<b>Oral Talk [In Person]</b>	
<b>10:45-11:00</b>	<b>Facies Architecture, Depositional Model and Diagenesis of a Foreland Basin: An Example from Upper Cretaceous Muti Formation, Jabal Akhdar dome, Central Oman</b>
<b>ICESET-23-56-10</b>	Jenan Ahmed Attar, Iftikhar Ahmed Abbasi, Mohamed El-Ghali, Abdulrahman Al Harthy and Abdulrazaq Al Sayigh
<b>Oral Talk [In Person]</b>	
<b>11:00-11:15</b>	<b>Groundwater Resources of North Oman: Quality and Vulnerability, A Review</b>
<b>ICESET-23-63-10</b>	Khadija Semhi
<b>Oral Talk [In Person]</b>	
<b>11:15-11:30</b>	<b>Potential of Hydrogen Underground Storage in Volcanic Reservoirs of Australia: Is it worth looking into?</b>
<b>ICESET-23-121-6</b>	Lionel Esteban, Ahmed Al-Yaseri, Ausama Giwelli, Joel Sarout, Mohammad Sarmadivaleh, Shreya Jagdish Kanakiya, Ludmila Adam
<b>Oral Talk [In Person]</b>	
<b>11:30-11:45</b>	<b>Role of the Preexisting Halokinetic and Basement in the Structural Evolution of M'rhlila-Cherichira Fault Systems, Central Tunisian Atlasic domain</b>
<b>ICESET-23-137-10</b>	Mohamed Gharbi, Hakim Gabtni, and David Boote
<b>Oral Talk [In Person]</b>	
<b>11:45-12:00</b>	<b>Carbon Dioxide Sequestration Experiment Designed for Undergraduate Students to Understand Ocean Acidification: A low-Cost Experimental Design and Execution</b>
<b>ICESET-23-139-9</b>	Arshad Ali, Khulood Alhinai, Mohamed A.K. El-Ghali, Muhammad I. Kakar, Hafiz Ur Rehman, Sobhi J. Nasir, Iftikhar A. Abbasi, Mohamed Moustafa, and Iffat Jabeen
<b>Oral Talk [In Person]</b>	
<b>12:00-12:15</b>	<b>Diagenesis Study of the Mid-Cretaceous Natih Formation, Northern Oman</b>
<b>ICESET-23-140-10</b>	Basil Alsalti, Mohamed S.H. Moustafa, Mohamed A.K. El-Ghali, and Iftikhar Ahmed Abbasi
<b>Oral Talk [In Person]</b>	
<b>12:15-12:30</b>	<b>Seismic Characterization of Sahmah Field, Middle and Lower Gharif Formation</b>
<b>ICESET-23-108-10</b>	Iman Al Qassabi and Mohammed Farfour
<b>Oral Talk [In Person]</b>	

<b>12:30-14:00</b>	<b>LUNCH BREAK</b>
<b>14:00-14:30</b>	<b>CONFERENCE HALL</b> <b>Keynote Speaker 7: Prashant Jadhawar</b> <b>Energy Transition-The Underground Storage of Hydrogen</b>
<b>SESSION A3-3</b> <b>Session Chair</b> <b>Session Co-Chair</b> <b>Session Duration</b> <b>Number of Talks</b>	<b>CONFERENCE HALL</b> <b>Arshad Ali</b> <b>Sulaiman Al Badi</b> <b>14:30-15:05</b> <b>7 [Poster Virtual]</b>
<b>14:30-15:05</b>	<b>Stay for Virtual Posters Session [7 virtual posters]</b> <b>CONFERENCE HALL</b> <b>Refer to page 50 and 51 for detailed Schedule</b>
<b>SESSION B3-3</b> <b>Session Chair</b> <b>Session Co-Chair</b> <b>Session Duration</b> <b>Number of Talks</b>	<b>LECTURE HALL</b> <b>Rifaat Abdalla</b> <b>Ibrahim Al Salmi</b> <b>14:30-14:45</b> <b>[1 Talks] = [1 Oral Talks In Person]</b>
<b>15:30-17:00</b>	<b>CONFERENCE HALL</b> <b>Closing and Award Ceremony</b>





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## 7. POSTERS



## 7 POSTER

### 7.1 IN PERSON POSTERS

#### EXHIBITION HALL

DAY 1 Monday February 06, 2023 10:00-10:30 12:30-14:00 16:00-16:30	DAY 2 Tuesday February 07, 2023 10:00-10:30 12:30-14:00 16:00-16:30	DAY 3 Wednesday February 08, 2023 10:00-10:30 12:30-14:00
<b>Number of Posters</b>		<b>[7 In Person Posters]</b>
<b>ICESET-23-5-3</b>	<b>Modified equivalent circuit for Solar Photovoltaic cell with considering environmental factors</b> Maiya Al Shuaili, Sawsan Al Manji, Tariq Al Maimani, Wafa Al Alawih, and Satheesh Kumar Sampath	
<b>ICESET-23-95-10</b>	<b>Stratigraphic trapping opportunity in Upper Silurian-Lower Devonian (F6 reservoir) of the Ahara spur field (South-east of the Algerian Sahara)</b> Amel Belkacemi, Rachid Hamdidouche, et Amar Asses, and Belkacem Kadi	
<b>ICESET-23-111-10</b>	<b>Structural Setting of North Western Tunisia Insights from Gravity Data Interpretation: Applications in Mineral exploration</b> Imen Hamdi Nasr, Adnen Amiri, Anis Barhoumi, Wajdi Belkhiria, Adama Yousouf Kone, Wisal Issaoui, Ousama Abidi, Ahmed Ezzine, and Med Hedi Inoubli	
<b>ICESET-23-123-10</b>	<b>Geochemical Evaluation of the Tanezzuft Formation in the Sirt Basin, Libya</b> Adel Elharbi, and Mustafa Shogman	
<b>ICESET-23-124-8</b>	<b>Parametric and Non-Parametric Measurement of Efficiency in Energy Industry: a systematic literature review</b> Nisar Ahmad, Bilal Ali, and Hamza Wali	
<b>ICESET-23-131-8</b>	<b>Energy-Environment-Food-Output Nexus: A Panel data analysis of a global sample</b> Muhammad Hassaan Wali, Faran Ali, and Emmad Ali	
<b>ICESET-23-134-10</b>	<b>Depositional sequence of Late Paleocene/Early Eocene Carbonate play system in North Sirt Basin and Offshore Area, Libya</b> Mohamed Haman and Abdullatif Dugdug	

## 7.2 VIRTUAL POSTERS

**DAY 3** **Wednesday February 08, 2023**

**SESSION A3-2** **CONFERENCE HALL**

**Session Chair** **Iftikhar Ahmed**

**Session Co-Chair** **Jenan Attar**

**Session Duration** **12:15-12:30**

**Number of Talks** **[3 Posters Virtually]**

**12:15-12:20** **Raw Materials Requirements to Meet the Demand for Green Hydrogen Electrolyzers**

**ICESET-23-79-1** **Poster [Virtual]** **Bernardo Teixeira, Miguel Brito, and António Mateus**

**12:20-12:25** **Site Suitability Analysis for On-Shore Wind Farms Using Big Data Analytics and Geospatial Tools**

**ICESET-23-42-3** **Poster [Virtual]** **Dapo Olatunbosun, Adamson Oloyede, Esther Hanson, Tijesuni Ogunrombi, Fadilat Aliu, and Dimeji Durosaro**

**12:25-12:30** **Analysis and Evaluation of the Technological Efficiency of Carbon Dioxide Sequestration Projects in Oil Fields with Hard-to-Recover Reserves**

**ICESET-23-19-9** **Poster [Virtual]** **Pavel Motovilov, Andrey Sentemov, Ivan Belozеров, and Denis Kuryatkov**

**12:30-14:00** **LUNCH BREAK**

**SESSION A3-3** **CONFERENCE HALL**

**Session Chair** **Arshad Ali**

**Session Co-Chair** **Sulaiman Al Badi**

**Session Duration** **14:30-15:5**

**Number of Talks** **7 [Poster Virtually]**

**14:30-14:35** **Towards the Search for a Local Geo-Material for Geo-Environmental Applications**

**ICESET-23-38-7** **Poster [Virtual]** **Demdoum Abdellah, Daheur Elhadj Guesmia, and Loualbia Hamza**

**14:35-14:40** **Investigation of the Radiative Effect of Dust Storm in the Use of Solar Energy**

**ICESET-23-54-7** **Poster [Virtual]** **Nahid Alipour, Tayyeb Mesbahzadeh, and Sara Karami**

**14:40-14:45** **Machine Learning Methods for Spatial Modeling of Water Erosion Susceptibility in a Semi-arid Region**

**ICESET-23-15-7** **Poster [Virtual]** **Fatima Aboutaib, Samira Krimissa, Hasna Eloudi, Mustapha Namous, Maryem Ismaili, and Abdenbi Elaloui**

**14:45-14:50** **Sentiment Analysis in Social Media**

**ICESET-23-80-8** **Poster [Virtual]** **Salima Khan, Shahab Saquib Sohail, and Nida Iftikhar**

<b>14:50-14:55</b>	<b>Physical Modeling of Oil Displacement by Supercritical Carbon Dioxide Using Core Material and Reservoir Fluids</b>
<b>ICESET-23-22-9 Poster [virtual]</b>	Denis Kuryatkov, Ivan Belozerov, Elena Pustova, Ekaterina Khripkova, Egor Prokhorov and Alisher Khakimov
<b>14:55-15:00</b>	<b>Investigation of the Phase Behavior of Asphalt-Resin-Paraffin Substances during the Interaction of liquid CO<sub>2</sub> with Reservoir Oil</b>
<b>ICESET-23-23-9 Poster [virtual]</b>	Alisher Khakimov, Nikolai Eremin, Andrey Sentemov, Pavel Motovilov, Elena Pustova, Ekaterina Khripkova, and Egor Prokhorov
<b>15:00-15:05</b>	<b>Application of Soft Data Driven Methods for Evaluation of Groundwater Quality Variables</b>
<b>ICESET-23-91-10 Poster [virtual]</b>	Neda Gavili, Payam Khosravinia, Hadi Sanikhani, and Mazyar Osmani
<b>15:30-17:00</b>	<b>CONFERENCE HALL Closing and Award Ceremony</b>





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## 8. PUBLISH ONLY





## 8 PUBLICATION ONLY

Number of Publication	[4 Abstracts]
ICESET-23-6-1	<b>Mechanochemical Origin of Fossil Hydrogen</b> Azariy Barenbaum, and Andrey Shilovski
ICESET-23-128-10	<b>Origin of Authigenic Clays in A Fine-Grained Hybrid-Energy Delta: An Example From The Upper Cambrian to Lower Ordovician Barik Formation, Central Oman</b> Mohamed A.K. El-Ghali, Mohamed S.H. Moustafa, Shahad Al Mahrooqi, Iftikhar Ahmed Abbasi, Arshad Ali, Osman Salad Hersi, Khalid Al-Ramadan, Abdulwahab Muhammad Bello, Hezam Al-Awah, Numair Siddique, Abdullah Alqubalee
ICESET-23-129-10	<b>Origin of Authigenic Clays in A Shallow Marine System: An Example From The Middle Cambrian Miqrat Formation, Central Oman</b> Mohamed A.K. El-Ghali, Mohamed S.H. Moustafa, Latifa Al Maani, Iftikhar Ahmed Abbasi, Arshad Ali, Osman Salad Hersi, Khalid Al-Ramadan, Abdulwahab Muhammad Bello, Hezam Al-Awah, Numair Siddique, Abdullah Alqubalee
ICESET-23-130-10	<b>Feldspar Dissolution and its Control on Reservoir Quality of a Fine-Grained Hybrid Delta: A Case Study of the Upper Cambrian to Lower Ordovician Barik Formation, Central Oman</b> Mohamed A.K. El-Ghali, Mohamed S.H. Moustafa, Arshad Ali, Olga Shelukhina, Iftikhar Ahmed Abbasi





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## 9. PROGRAM INDEX



## 9 Program Index

CH = Conference Hall

LH = Lecture Hall

ID	Day	Date	Time	Hall	ID	Day	Date	Time	Hall
ICESET-23-02-06	Wed	08 Feb.	10:30	CH	ICESET-23-78-07	Tues	07 Feb.	16:30	CH
ICESET-23-05-03	-	-	-	-	ICESET-23-79-01	Wed	08 Feb.	12:15	CH
ICESET-23-07-07	Wed	08 Feb.	11:00	CH	ICESET-23-80-08	Wed	08 Feb.	14:45	CH
ICESET-23-08-07	Mon	06 Feb.	12:15	CH	ICESET-23-81-10	Mon	06 Feb.	16:30	LH
ICESET-23-09-07	Wed	08 Feb.	12:00	CH	ICESET-23-83-10	Mon	06 Feb.	11:00	LH
ICESET-23-11-10	Mon	06 Feb.	11:45	LH	ICESET-23-84-10	Mon	06 Feb.	17:15	CH
ICESET-23-12-10	Tues	07 Feb.	10:30	CH	ICESET-23-85-07	Mon	06 Feb.	14:30	LH
ICESET-23-13-09	Tues	07 Feb.	11:00	CH	ICESET-23-86-10	Mon	06 Feb.	12:00	LH
ICESET-23-14-10	Mon	06 Feb.	16:00	LH	ICESET-23-88-02	Wed	08 Feb.	9:00	LH
ICESET-23-15-07	Wed	08 Feb.	14:40	CH	ICESET-23-89-02	Wed	08 Feb.	9:15	LH
ICESET-23-16-01	-	-	-	-	ICESET-23-90-06	Tues	07 Feb.	12:15	CH
ICESET-23-17-01	Tues	07 Feb.	11:45	CH	ICESET-23-91-10	Wed	08 Feb.	15:00	CH
ICESET-23-19-9	Wed	08 Feb.	12:25	CH	ICESET-23-92-07	Mon	06 Feb.	14:45	LH
ICESET-23-20-10	Tues	07 Feb.	9:30	LH	ICESET-23-95-10	-	-	-	-
ICESET-23-21-10	Tues	07 Feb.	10:30	LH	ICESET-23-96-03	Mon	06 Feb.	11:30	CH
ICESET-23-22-09	Wed	08 Feb.	14:50	CH	ICESET-23-97-10	Mon	06 Feb.	16:45	LH
ICESET-23-23-09	Wed	08 Feb.	14:55	CH	ICESET-23-98-10	Mon	06 Feb.	17:00	LH
ICESET-23-25-07	Wed	08 Feb.	11:45	CH	ICESET-23-99-09	Tues	07 Feb.	15:15	CH
ICESET-23-28-08	Mon	06 Feb.	17:15	LH	ICESET-23-100-02	Wed	08 Feb.	9:30	LH
ICESET-23-29-09	Tues	07 Feb.	11:15	CH	ICESET-23-101-10	Tues	07 Feb.	11:15	LH
ICESET-23-32-07	Wed	08 Feb.	11:30	CH	ICESET-23-102-09	Tues	07 Feb.	14:30	LH
ICESET-23-34-03	Tues	07 Feb.	14:45	CH	ICESET-23-103-10	Tues	07 Feb.	16:30	LH
ICESET-23-35-07	Mon	06 Feb.	11:15	LH	ICESET-23-104-10	Tues	07 Feb.	16:45	LH
ICESET-23-36-09	Tues	07 Feb.	12:00	CH	ICESET-23-105-10	Tues	07 Feb.	11:30	LH
ICESET-23-37-04	Tues	07 Feb.	11:30	CH	ICESET-23-106-10	Tues	07 Feb.	11:45	LH
ICESET-23-38-07	Wed	08 Feb.	14:30	CH	ICESET-23-107-10	Tues	07 Feb.	9:45	LH
ICESET-23-42-03	Wed	08 Feb.	12:20	CH	ICESET-23-108-10	Wed	08 Feb.	12:15	LH
ICESET-23-43-07	Wed	08 Feb.	11:15	CH	ICESET-23-109-10	Mon	06 Feb.	12:15	LH
ICESET-23-44-09	Tues	07 Feb.	14:30	CH	ICESET-23-110-10	Mon	06 Feb.	15:00	LH
ICESET-23-45-03	Mon	06 Feb.	11:15	CH	ICESET-23-111-10	-	-	-	-
ICESET-23-46-07	Mon	06 Feb.	11:30	LH	ICESET-23-112-10	Tues	07 Feb.	12:00	LH
ICESET-23-47-02	Wed	08 Feb.	9:30	CH	ICESET-23-113-10	Tues	07 Feb.	12:15	LH
ICESET-23-49-09	Wed	08 Feb.	10:30	LH	ICESET-23-115-10	Tues	07 Feb.	16:45	CH
ICESET-23-51-10	Mon	06 Feb.	16:15	LH	ICESET-23-116-02	Wed	08 Feb.	9:54	CH
ICESET-23-52-10	Mon	06 Feb.	11:45	CH	ICESET-23-117-07	Tues	07 Feb.	16:15	CH
ICESET-23-53-10	Mon	06 Feb.	15:15	CH	ICESET-23-120-10	Tues	07 Feb.	14:45	LH
ICESET-23-54-07	Wed	08 Feb.	14:35	CH	ICESET-23-121-06	Wed	08 Feb.	11:15	LH
ICESET-23-55-10	Mon	06 Feb.	15:00	CH	ICESET-23-122-01	Tues	07 Feb.	9:30	CH
ICESET-23-56-10	Wed	08 Feb.	10:45	LH	ICESET-23-123-10	-	-	-	-
ICESET-23-57-10	Tues	07 Feb.	10:45	LH	ICESET-23-124-08	-	-	-	-
ICESET-23-59-10	Mon	06 Feb.	12:00	CH	ICESET-23-125-10	Mon	06 Feb.	16:15	CH

<b>ICESET-23-61-10</b>	Tues	07 Feb.	11:00	LH	<b>ICESET-23-126-10</b>	Tues	07 Feb.	15:00	LH
<b>ICESET-23-63-10</b>	Wed	08 Feb.	11:00	LH	<b>ICESET-23-127-10</b>	Wed	08 Feb.	09:00	CH
<b>ICESET-23-64-10</b>	Tues	07 Feb.	16:00	LH	<b>ICESET-23-128-10</b>	-	-	-	-
<b>ICESET-23-65-10</b>	Mon	06 Feb.	16:30	CH	<b>ICESET-23-129-10</b>	-	-	-	-
<b>ICESET-23-67-10</b>	Tues	07 Feb.	10:45	CH	<b>ICESET-23-130-10</b>	-	-	-	-
<b>ICESET-23-68-08</b>	Tues	07 Feb.	16:00	CH	<b>ICESET-23-131-08</b>	-	-	-	-
<b>ICESET-23-69-07</b>	Mon	06 Feb.	14:30	CH	<b>ICESET-23-132-10</b>	Mon	06 Feb.	15:15	LH
<b>ICESET-23-70-09</b>	Tues	07 Feb.	15:00	CH	<b>ICESET-23-133-10</b>	Mon	06 Feb.	16:00	CH
<b>ICESET-23-71-06</b>	Wed	08 Feb.	10:45	CH	<b>ICESET-23-134-10</b>	-	-	-	-
<b>ICESET-23-72-02</b>	Wed	08 Feb.	9:15	CH	<b>ICESET-23-135-02</b>	Wed	08 Feb.	9:54	LH
<b>ICESET-23-73-10</b>	Mon	06 Feb.	16:45	CH	<b>ICESET-23-136-03</b>	Mon	06 Feb.	11:00	CH
<b>ICESET-23-74-07</b>	Mon	06 Feb.	14:45	CH	<b>ICESET-23-137-10</b>	Wed	08 Feb.	11:30	LH
<b>ICESET-23-75-10</b>	Tues	07 Feb.	16:15	LH	<b>ICESET-23-138-01</b>	Tues	07 Feb.	9:45	CH
<b>ICESET-23-76-10</b>	Mon	06 Feb.	17:00	CH	<b>ICESET-23-139-09</b>	Wed	08 Feb.	11:45	LH
<b>ICESET-23-77-02</b>	Tues	07 Feb.	15:15	LH	<b>ICESET-23-140-10</b>	Wed	08 Feb.	12:00	LH

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**SEE YOU AT ICESET-25**



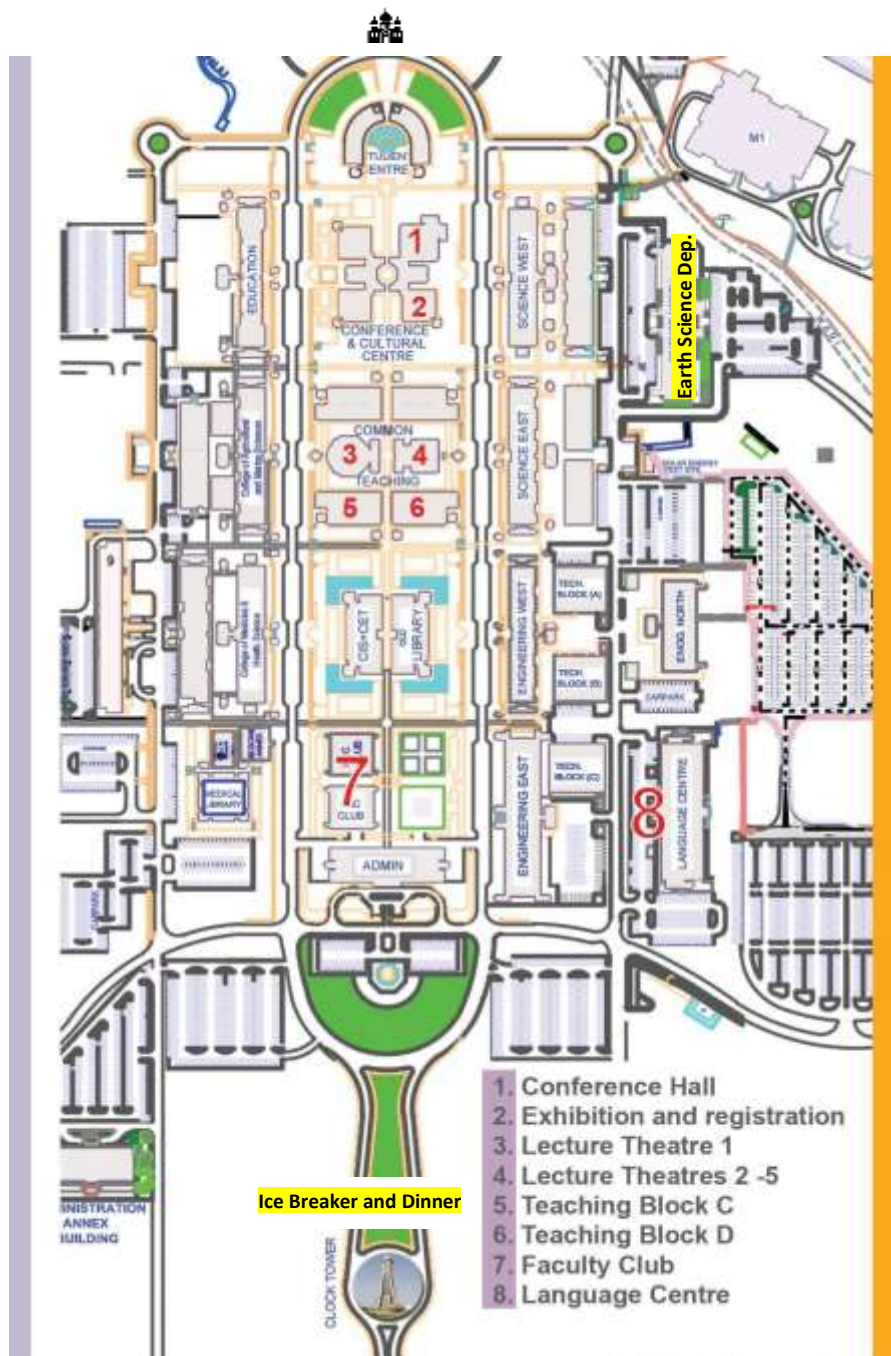
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## 10. CAMPUS MAP









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