



The Programme of The 1st Geological Conference GeoBasrah-1

15-17 March 2022

**Department of Geology, College of Science,
University of Basrah, Iraq**



Programme Layout

First day 15 March 2022			
8:30 – 9:30 am	Welcome Desk and Registration		
9:30 – 11:00 am	Opening Ceremony		
11:00 – 12:00 pm	Keynote Lectures		
12:00 – 1:00 pm	Lunch		
Academic Sessions			
1:00 – 3:00 pm	Petroleum Geology	Water Resources	Engineering Geology
	Hall A	Hall B	Hall C
3:00 – 3:30 pm	Coffee Break		
Academic Sessions			
3:30 – 4:30 pm	Structural Geology	Water Resources	
	Hall A	Hall B	
Second day 16 March 2022			
Academic Sessions			
9:00 – 11:00 am	Geochemistry and Industrial Minerals and Rocks	Geophysics and Seismology	Stratigraphy and Paleontology
	Hall A	Hall B	Hall C
11:00 – 11:30 am	Coffee Break		
11:30 – 12:30 pm	Poster Session and Tour in the Laboratories of Department of Geology		
12:30 – 1:30 pm	Lunch		
Academic Sessions			
1:30 – 3:00 pm	Remote Sensing and GIS	Environmental Geology and Climate Change	Petroleum Geology
	Hall A	Hall B	Hall C
3:00 – 4:00 pm	Closing Session		
Recommendations and Awarding Certificate of Appreciation			
Third day 17 March 2022			
Field Trip to Jabal Sanam			

The Conference Programme

First day 15 March 2022	
8:30 – 9:30 am	Welcome Desk and Registration
9:30 – 11:00 am	Opening Ceremony (Conferences Hall)
Ayat of Quran Kareem Iraqi National Anthem Speech of the Chancellor of the University of Basrah Speech of the Dean of the College of Science Speech of the Head of the Department of Geology	
11:00 – 11:30 am	First Keynote Lecture
The History of the Department of Geology, College of Science, University of Basrah <i>Prof. Dr. Badir Albadran</i>	
11:30 – 12:00 pm	Second Keynote Lecture
Applications of Earthquake Data in Basrah City <i>Asst. Prof. Dr. Wathiq Abdulnaby</i>	
Awarding Prizes of Appreciation	
12:00 – 1:00 pm	Lunch

Academic Sessions 1:00 – 3:00 pm	
1 st Session (Hall A) Petroleum Geology	
Session Committee	
Chairman	Rapporteur
Dr Amer Al-Khafaji University of Babylon	Dr Amna M. Handhal University of Basrah
Time	Abstract Title
1:00 – 1:15 pm	3D Shear Failure Gradient Cube Construction for Mitigating Breakout Issues While Drilling Through Shaley Formations in Rumaila Oil Field, Southern Iraq <i>Yousif Al-Asadi, Gaisoni Nasreldin, Muwafaq Al-Shahwan, Osama Albooawath</i>
1:15 – 1:30 pm	Real Time Evaluation of Reservoir Fluid Using Mud Log Gas Data: Case Study in Zubair Oilfield, Southern Iraq <i>Hussein Saeed Almalikee</i>
1:30 – 1:45 pm	Reservoir Free Gas of Lower Paleozoic in Akkas and Qaim Fields, Western Desert, Iraq

	<i>Aboosh H. Al-Hadidy and Amal K. Nor aldin</i>
1:45 – 2:00 pm	Chemometric Differentiation of Oil Families and their Inferred Source Rocks in Halfaya, Amara, and Noor Oilfields, Southern Iraq <i>Mohamed W. Alkhafaji, Sawsan F. Al-Hazaa, Kenneth E. Peters</i>
2:00 – 2:15 pm	Quantitative Evaluation of Generated and Migrated Oil of the Middle - Upper Jurassic Succession, Northern Iraq <i>Basim F. Al-kubaisi and Amer S. Al-jibouri</i>
2:15 – 2:30 pm	Geothermal Gradients in Southern Iraq Inferred from Borehole Temperature <i>Rzger Abdulkarim Abdula</i>
2:30 – 2:45 pm	The Cause of Lost Circulation while Drilling in Shiranish Formation within the Saddle Area of Rumaila Oilfield, Southern Iraq <i>Muslim Al-Ali and Haider Mousa Jaffar</i>
2:45 – 3:00 pm	Source Rock Evaluation and Petroleum Generation of the Lower Cretaceous Yamama Formation: Its Ability to Contribute to Generating and Expelling Petroleum to Cretaceous Reservoirs of the Mesopotamian Basin, Iraq <i>Amer Al-Khafaji, Fahad Al-Najm, Mohanad Al-Owaidi, Mohammed Hadi Hindi</i>

2nd Session (Hall B)	
Water Resources	
Session Committee	
Chairman	Rapporteur
Dr Qusai Y. Al-Kubaisi University of Baghdad	Dr Inass Abdal Razaq Almallah University of Basrah
Time	Abstract Title
1:00 – 1:15 pm	New Hydrogeological Classification of Iraq <i>Ahmed Srdah Al-Zubedi</i>
1:15 – 1:30 pm	Hydrochemical Conditions of Groundwater in Lailan Sub-basin (Southeast of Kirkuk Governorate, North of Iraq) <i>Jawdat A. M. Al-Hamdani, Arjan A. Rasheed, Sabah A. Khorsheed</i>
1:30 – 1:45 pm	Hydrogeologic Study of Al-Alam Sub-basin, Tikrit, North of Iraq <i>Yasir Ahmed khudhair, Sabbar Abdullah Salih, Ghazi Atiya Zarrag</i>
1:45 – 2:00 pm	Variation of Groundwater Characteristics Before and After Production Slowdown in Al-Mishraq Sulfur Mine-1, Northern Iraq

	<i>Mohammed Abdilfattah Ali, Sabbar Abdullah Saleh, Amara Ismail Hussain</i>
2:00 – 2:15 pm	Evaluating the Performance for the Station of Measuring Levels and Discharges on Tigris River in Baiji, and Suggesting Alternative Locations for the Station <i>Saif Al-Din Dhamin Alawi, Sabbar Abdullah Saleh, Faraj Ahmed Suleiman</i>
2:15 – 2:30 pm	Groundwater Quality Evaluation of Selected Wells in Mandali Area, Diyala Governorate, East of Iraq <i>Reham Basim Al-Mashhadani, Qusai Y. Al-Kubaisi, Ali Raouf Ajeena</i>
2:30 – 2:45 pm	Physiochemical Properties and Water Quality Index of Groundwater at Abu-Jir Village in Al-Anbar Governorate, Western Iraq <i>Alaa Mustafa Saeed Al-Dulaimi and Qusai Y. Al-Kubaisi</i>
2:45 – 3:00 pm	Hydraulic Parameters of Euphrates Aquifer in Alkhasfa Area, Western of Iraq <i>Qusai AL-Kubaisi, Sufyan Al-Sumaidai, Tariq Abed Hussain, Israa Al-Mashhadani</i>

3rd Session (Hall C) Engineering Geology	
Session Committee	
Chairman	Rapporteur
Dr Amer A. Laftah University of Babylon	Dr Raid A. Mahmood University of Basrah
Time	Abstract Title
1:00 – 1:15 pm	Soil Compaction Characteristics at a Construction Site in Qara Tabbah City, North of Iraq <i>Ali Mohammed and Asem A. Hassan</i>
1:15 – 1:30 pm	Study the Geotechnical Properties of Sandstone of Injana Formation in Bastora Valley, North of Iraq <i>Amara Ismael Hussian and Aso Kareem Ali Daody</i>
1:30 – 1:45 pm	Classification of Rock Slope Failures Along a Part of Erbil-Hiran Road, North of Iraq <i>Aomed Ahmed Mohammed and Dler Salam Majeed</i>
1:45 – 2:00 pm	Evaluation the Suitability of Sediments of the Lower Zab River for Engineering Purposes <i>Ibrahim Mustafa Hassan, Mohammed Rashid Abboud, Lafta Salman Kazem</i>

2:00 – 2:15 pm	Geotechnical and Geoelectrical Assessment of Soil Compaction Characteristics at the Campus Site of University of Diyala, Baqubah City <i>Gehan Usama Nadhum and Asem Ahmed Hassan</i>
2:15 – 2:30 pm	Assessment of Soil Collapse Using GPR in Bismayah Site, Southern Baghdad City, Central Iraq <i>Hussein Abdulrahim Al-Saady, Hussein H. Karim, Firas H. AL-Menshed</i>
2:30 – 2:45 pm	Geotechnical Assessment of Sand Dunes for Constructions Purposes, Basrah Governorate, Southern Iraq <i>Thair Thamer Al-Samarrai</i>
2:45 – 3:00 pm	The Effect of Geotechnical and Technical Factors in Road of Basrah Governorate, Southern Iraq <i>Fatima Q. Al-Kawam and Raid A. Mahmood</i>
3:00 – 3:15 pm	Cross Borehole Technique and Engineering Properties for a Hospital Site in Basrah City, Southern Iraq <i>Eman M. Jaafar, Amer A. Laftah, Anmar H. Salih, Zuhair J. Alwan</i>

3:00 – 3:30 pm	Coffee Break
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Academic Sessions 3:30 – 4:30 pm	
1st Session (Hall A) Structural Geology	
Session Committee	
Chairman	Rapporteur
Dr Rabee Kh. Znad University of Mosul	Dr Basim Soltan University of Basrah
Time	Abstract Title
3:30 – 3:45 pm	Determination of Magnitudes and Orientation of the Paleostress of Bekhme Structure in Shaqlawa Area, Northeastern Iraq <i>Atheer E. AL-Hachem and Shatha Hassan</i>
3:45 – 4:00 pm	Using Geomorphic Criteria as an Indicator for Lateral Propagation of the Shaikhan Anticline in the Zagros Fold and Thrust Belt, the Iraqi Segment <i>Rabee Kh. Znad, Hadeer Gh. M. Adeeb, Alaa N. Hamdon</i>
4:00 – 4:15 pm	Joints Analysis of Tertiary Rocks in Dokan Area and its Tectonic Indications, North Eastern Iraq <i>Ayyed Hussien Ward and Alaa Ahmed Mohmmmed</i>

4:15 – 4:30 pm	Structural Interpretation for the Postulated Basement of Iraq Southern Desert: A New Look Utilizing Magnetic Data <i>Hayder A. Al-bahadily, Ali M. Al-rahim, Andrew J. Long</i>
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2nd Session (Hall B)	
Water Resources	
Session Committee	
Chairman	Rapporteur
Dr Sabbar Abdullah Salih Tikrit University	Dr Omer Al-Tamimi University of Kirkuk
Time	Abstract Title
3:30 – 3:45 pm	Water Balance Determination of Groundwater Using Modeling Flow: A Case Study in West of Karbala Governorate <i>Muthanna M. A. AL-Shammari, Alaa M. Hammadi, Ali A. Al Maliki</i>
3:45 – 4:00 pm	Using Isotopes for Dating and Residence Time of Groundwater in an Aquifer, a Case Study at Al-Najaf, Middle Iraq <i>Arshad W. A. Al-Enezy, Mohanad R. A. Al-Owaidi, Mohammed L. Hussein</i>
4:00 – 4:15 pm	Hydrogeology of the Quaternary Unit at Ali Al-Gharbi District Northeast Missan Governorate, Iraq <i>Ahmed M. Hashoosh, Alaa M. Al-Abadi, Fadhil K. Jabbar</i>
4:15 – 4:30 pm	Groundwater Vulnerability Analysis via GALDIT-GIS Method to Seawater Intrusion, South of Iraq <i>Lamees Salim Alqurnawy, Inass Abdal Razaq Almallah, Aymen Abdulateef Alrubaye</i>

Second day 16 March 2022	
Academic Sessions 9:00 – 11:00 am	
1st Session (Hall A) Geochemistry and Industrial Minerals and Rocks	
Session Committee	
Chairman	Rapporteur
Dr Faraj Habeeb Tobia Salahaddin University	Dr Sattar Al-Khafaji University of Basrah
Time	Abstract Title
9:00 – 9:15 am	Geochemical Characteristics of the Lower Jurassic Carbonates from Imbricated Zone, Iraqi Kurdistan Region: Implication for Restricted Lagoonal Environment <i>Faraj Habeeb Tobia, Hikmat Safi Al-Jaleel, Idrees Nadir Ahmed</i>
9:15 – 9:30 am	Rifting over a Suprasubduction Zone: Evidence from Gabbros from the Mawat Ophiolite, NE Iraq <i>Heider AL Humadi, Sabah A. Ismail, Markku Väisänen</i>
9:30 – 9:45 am	Mineralogy, Geochemistry and Provenance of Injana Formation in Zurbatiya and Badra Areas, Eastern Iraq <i>Sattar Al-Khafaji and Nael Al-Najari</i>
9:45 – 10:00 am	Assessment the Suitability of Limestone Rocks in the Nfayil Formation–Bahr Al-Najaf Depression for Industrial Purposes <i>Hussien Ghni Ahmed, Jaffar Hussain Ali, Murtadha Jabbar Issa</i>
10:00 – 10:15 am	Texture of Dune Sands of Najaf Dune Field, Iraq <i>Ahmed Jawad Al-Naji, Tahseen Alkanaby, Jawad Mahdi, Thamer Abaas Al-Shammery</i>
10:15 – 10:30 am	Geochemical and Heavy Minerals Study in Selected Areas at Al-Muthanna Province, Southern Iraq <i>Mohammed L. Hussein, Mohanad R. Al-Owaidi, Mahdi A.Menshed, Murtada D. Abdululah</i>
10:30 – 10:45 am	Geochemical Assessment of Some Trace Elements in Selected Locations at Thi-Qar Governorate, Iraq <i>Harith Alsaad, Noor A. Alkhalf, Kareem Hussein Khwedim</i>
10:45 – 11:00 am	Mineralogical Variation of the Banks of Shatt Al-Arab and Shatt Al-Basrah River Sediments in Southern Iraq <i>Amna N. Al-Amery and Harith A. Al-Saad</i>

2nd Session (Hall B)	
Geophysics and Seismology	
Session Committee	
Chairman	Rapporteur
Dr Emad Al-Heety University of Anbar	Dr Wathiq Abdulnaby University of Basrah
Time	Abstract Title
9:00 – 9:15 am	Integrated Geophysical Study of South West of Al-Najaf Area <i>Salar S. Hasan Al Karadaghi</i>
9:15 – 9:30 am	Detection of Deep-Seated and Shallow Lineaments Using Aeromagnetic Data: A Case of the Salman Basin within Al-Muthanna, Southern Desert of Iraq <i>Aqeel Rahman, Inass Almallah, Ahmed Mousa</i>
9:30 – 9:45 am	Utilizing Seismic Attributes to Enhance Deduction of the Subtle Stratigraphic Trap in Mishrif Formation at Dujaila Oilfield, SE of Iraq <i>Ahmed Muslim Attallah Khawaja and Jassim Muhammad Thabit</i>
9:45 – 10:00 am	Reservoir Characterization (Quantitative Interpretation) Using 3D Seismic Data and Well Data of Mishrif Formation in Faihaa Oilfield, Southern Iraq <i>Ammar Ahmed Jaber</i>
10:00 – 10:15 am	Crustal Structure Beneath Karbala Seismic Station, Iraq, from Receiver Function Analysis <i>Huda Farhan Rafea, Emad Al-Heety, Wathiq Abdulnaby</i>
10:15 – 10:30 am	Earthquake Source Fault in Al-Refaei District, Southern Iraq <i>Ali Ramthan, Wathiq Abdulnaby, Najah Abd, Hanan Mahdi, Haydar Al-Shukri, Rengin Gök</i>
10:30 – 10:45 am	Detection of Recent Tectonic Activation in Iraq Alluvial Plain (Al-Tar's Crack and Seismic Activity in Al-Rifai-Applied Study) <i>Raheem Abdan, Basim Al-Fadhli, Zeyad Ahmed</i>
10:45 – 11:00 am	Tectonic Analysis of the Basrah Subzone Earthquakes, Southern Iraq <i>Wathiq Abdulnaby</i>
11:00 – 11:15 am	Relocation of Diyala-Ilam Earthquake Sequences, NE Iraq <i>Muntadher Al-Kaabi, Dania Hantoosh, Wathiq Abdulnaby</i>

3rd Session (Hall C)	
Stratigraphy and Paleontology	
Session Committee	
Chairman	Rapporteur
Dr Abdulsalam M. Al-Tarif Tikrit University	Dr Maher M. Mahdi University of Basrah
Time	Abstract Title
9:00 – 9:15 am	Sequence Stratigraphy of Late Jurassic Period in the Southern Iraq <i>Hussein Shwayel Aoudah</i>
9:15 – 9:30 am	Lithofacies Study of the Pliocene Sequences in Bekhere Anticline, Zakho Area Northern Iraq <i>Aizadeen M. Abdullah Al-Hassan, Abdulsalam M. Al-Tarif, Faris N. Hassan</i>
9:30 – 9:45 am	Lithofacies and Sedimentary Structures studies of Injana Formation at Zakho Area, Northern Iraq <i>Hussein Z. Ahmed, Abdulsalam M. Al-Tarif, Lafta S. Kadhim</i>
9:45 – 10:00 am	Microfacies Characteristics of the Jeribe Formation in Selected Subsurface Sections, Northern Iraq <i>Muwafaq S. Ibraheem, Abdulsalam M. Salih, Yaseen S. Kareem</i>
10:00 – 10:15 am	Microfacies Analysis and Depositional Environment of Pila Spi Formation (Middle-Late Eocene), in the Nerwa Section, Berat Anticline, High Folded Zone, Kurdistan Region, Northern Iraq <i>Irfan Sh. Asaad</i>
10:15 – 10:30 am	Petrography and Depositional Environment of the Middle Jurassic Sargelu Formation in Selected Oil Wells from Balad, Ajil and Baiji Oil Fields, Iraq <i>Ali H. Dohan, Lafta S. Kadhim, Faris N. Hassan</i>
10:30 – 10:45 am	Microfacies and Depositional Environments of Yamama Formation in Selected Wells, Southern Iraq <i>Shatha A. Mohsin, Abbas H. Mohammed, Fahad M. Alnajm</i>
10:45 – 11:00 am	Sequence Stratigraphy of Yamama Formation in West Qurna Oilfield, Southern Iraq <i>Rana T. Al-Khayat, Maher M. Mahdi, Maher J. Ismail</i>

Social Session	
11:00 – 11:30 am	Coffee Break
11:30 – 12:30 pm	Poster Session and Tour in the Laboratories of Department of Geology
12:30 – 1:30 pm	Lunch

Poster Session 11:30 – 12:30 pm	
	<p>Lithofacies and Sedimentary Cycles of the Kolosh Formation Sequence in the Tigran Region, Northeastern Iraq <i>Ayad Mohamad Jouer Dathan, Abdul Salam Mehdi Altarif, Amaar Mohammed Al-Taiiy</i></p>
	<p>Morphometric Analysis of Ubaydh Valley Basin, Western Desert of Iraq Using GIS <i>Muthanna M. A. AL-Shammari and Ali O.A. Al-Masoodi</i></p>
	<p>Morphotectonic Analysis of the Drainage Basins: A Case Study of Teeb Basin, South Eastern Iraq <i>Zahraa R. Fakher, Sahar T. Al-Mulla, Riaed S. Jassem</i></p>
	<p>Middle-Upper Eocene Dammam Formation Paleofacies and Paleoecology Study in Nasiriya Oilfield, Southern Iraq <i>Falah H. Maziqa, Maher M. Mahdi, Abbas H. Mohammed</i></p>
	<p>Depositional Environments of Saadi Formation in the West Qurna 2 Oilfield, Southern Iraq <i>Adian A. Myzban and Mohanad H. Al-Jaberi</i></p>

Academic Sessions 1:30 – 3:00 pm	
1st Session (Hall A) Remote Sensing and GIS	
Session Committee	
Chairman	Rapporteur
Dr Sundus A. Abdullah University of Baghdad	Dr Ali K. Al-Ali University of Basrah
Time	Abstract Title
1:30 – 1:45 pm	Assessment of the Hydrogeologic and Hydrologic Boundaries Using the Morphometric Parameters of Laylan Sub-basin, Kirkuk, Iraq <i>Omer Al-Tamimi, Najem Khaled Najem Abo-Khomra, Arsalan Ahmed Othman</i>
1:45 – 2:00 pm	Selection of Optimum Method to Discriminate Earth's Features Using Landsat 7 and 8 ETM+ Images of Tar An-Najaf Area, Central Part of Iraq <i>Sa'ad R. Yousif and Watheq F. Shneen</i>
2:00 – 2:15 pm	Remote Sensing and Geographical Information System Applications in Urban Planning for the Case of Al-Aziziyah in Wasit Governorate in Iraq <i>Sundus A. Abdullah and Rana S. Haded</i>
2:15 – 2:30 pm	The Integration of Remote Sensing and GIS to Assign Morphotectonic Indices of Drainage Basin, Eastern Missan <i>Zahraa R. Fakher, Sahar T. Al-Mulla, Riaed S. Jassem</i>
2:30 – 2:45 pm	Hydrological and Morphometric Analysis of Wadi Al-Batin Alluvial Fan Using Remote Sensing and GIS Techniques, South Western of Iraq <i>Suaad Albhadili, Inass Almallah, Saher Almulla</i>
2:45 – 3:00 pm	Remote Sensing and Natural Resources <i>Sahar Saadoun Abdullah</i>

2nd Session (Hall B)	
Environmental Geology and Climate Change	
Session Committee	
Chairman	Rapporteur
Dr Moutaz A. Al-Dabbas University of Baghdad	Dr Mohanad H. Al-Jaberi University of Basrah
Time	Abstract Title
1:30 – 1:45 pm	Assessment of Heavy Metal Pollution in the Deep Sediment, Darbandikhan Reservoir, Kurdistan Region, Northern Iraq: Using R-mode Factor Analysis <i>Hikmat S Al-Jaleel and Awaz K Rasul</i>
1:45 – 2:00 pm	Assessment of Heavy Metal Pollution Levels of Street Dust in Hilla, Middle of Iraq <i>Jwad k. Manii and Ali Nashmi</i>
2:00 – 2:15 pm	Global Climatic Changes Effect on the Hydrochemical and Biological Characteristics of Euphrates River from Haditha to Al-Hindiya, Iraq <i>Iman A. Al-Ali and Moutaz A. Al-Dabbas</i>
2:15 – 2:30 pm	Estimation of Physiochemical Properties of Wastewater on Al-Chibayish Marsh Water in Al-Fhood City, Thi-Qar Governorate <i>Maitham A. Sultan, Easm A. Abd-Wahed, Saif A. Hussein, Shrooq S. Shamsaldin, Hadeel R. Wahab</i>
2:30 – 2:45 pm	Assessment of Heavy Metal Pollution in the Water and Sediments of Al-Dalmaj Marsh Environment <i>Faris Nasir Murad Al-Hemidawy and Sadiq Kadhum Lafta Al-Zurfi</i>

3rd Session (Hall C) Petroleum Geology	
Session Committee	
Chairman	Rapporteur
Expert Dr Abdullah Al-Yaseri Basrah Oil Company	Dr Mohammed Sattam Al-Karkh University
Time	Abstract Title
1:30 – 1:45 pm	The Hydrogeochemistry of Water Injection and its Effect on Petrophysical Properties of Upper Sand Member of Zubair Formation in West Qurna1 Oilfield, Southern Iraq <i>Zahraa A. Muzaal, Wasan S. Al-Qurnawi, Fahad M. Al-Najm</i>
1:45 – 2:00 pm	Reservoir Evaluation and Diagenesis Processes of Khasib Formation in Selected Oil Fields, South East of Iraq <i>Mohammed Sattam and Mohammed H. Hindi</i>
2:00 – 2:15 pm	Tar-mat Origin, Distribution, and its Geochemical Properties in the Zubair Formation of the West Qurna Oil Field, Southern Iraq <i>Haneen M. Al-Abd Al-Aali, Amna M. Handhal, Basim H. Soltan, Maher J. Ismail, Maysaa Khalid Raheem</i>
2:15 – 2:30 pm	Petrophysical Characteristics Evaluation of Rumaila Formation in Selected Wells from Ratawi Oilfield, Southern Iraq <i>Humam Q. Hameed</i>
2:30 – 2:45 pm	Reservoir Properties Evaluation and Diagenesis Processes of Yamama Formation in Selected Oil Fields, Southern Iraq <i>Mohammed Sattam and Aqeel Fattah Hasan</i>
2:45 – 3:00 pm	The Reservoir and Source Evaluation Study of the Zubair Formation in the North Rumaila Oil Field, and the Determination of the Origin of the Accumulated Oil <i>Hadeer Al-Aradi, Fahad Alnajm, Amer Al-Khafaji</i>

Closing Session 3:00 – 4:00 pm
Recommendations and Awarding Certificate of Appreciation

Third day 17 March 2022
Field Trip to Jabal Sanam