

# CONFERENCE PROGRAM

03-05 March 2020

## 13<sup>th</sup> International Geological Conference

[WWW.SSG-SA.ORG](http://WWW.SSG-SA.ORG)



The **13<sup>th</sup>** المؤتمر الجيولوجي الدولي الثالث عشر  
International Geological Conference  
03-05 March 2020, Jeddah, Saudi Arabia



# Organizers





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# **SCHEDULE**

DAY 0	02 March 2020				
08:30—18:00	Arrival of participants / Registration				
DAY 1	03 March 2020				
08:00—09 :00	Arrival of participants / Registration				
	Hall A	Hall B	Hall C	E-Poster HALL	HALL D
09:00—09:30	Sultan SHAWLI Session Chair: Eng. Ahmed M. Fageeh				Workshop 1
09:30—10:30	[T1-OS1]	[T2-OS1]	[T3-OS1]		
10:30—11:00	Coffee Break				
11:00—12:30	[T1-OS2]	[T2-OS2]	[T3-OS2]	[T4-PS1 / Screen-1] [T5-PS1 / Screen-2] [T12+T13-PS1 / Screen-4]	Workshop 1
12:30—14:00	LUNCH				
14:00—15:30	[T1-OS3]	[T2-OS3]	[T3-OS3]	[T5-PS2 / Screen-2] [T7-PS1 / Screen-3] [T6-PS1 / Screen-4]	Workshop 2
15:30—16:00	Coffee Break				
16:00—17:00	[T12+T13-OS1]	[T2-OS4]	[T3-OS4]	[T3-PS1 / Screen-3] [T6-PS2 / Screen-4]	Workshop 2
19:00—21:00	Official Opening Ceremony				
21:00—22:00	Dinner				
DAY 2	04 March 2020				
09:00—09:30	Biswajeet Pradhan, CAMGIS, Australia Session Chair: Prof. Gad M. AlQady	François ROURE IFPEN, Rueil-Malmaison, France Session Chair: Dr. Nabil Khelifi			
09:30—10:30	[T5-OS1]	[T2-OS5]	[T3-OS5]	[T1-PS1 / Screen-1] [T3-PS2 / Screen-3] [T6-PS3 / Screen-4] [T8-PS1 / Screen-2]	
10:30—11:00	Coffee Break				
11:00—12:30	[T5-OS2]	[T7-OS1]	[T3-OS6]	[T1-PS2 / Screen-1] [T3-PS3 / Screen-3] [T6-PS4 / Screen-4]	
12:30—14:00	LUNCH				
14:00—15:30	[T5-OS3]	[T4-OS1]	[T11-OS1]	[T1-PS3 / Screen-1]	

				[T2-PS1 / Screen-2] [T3-PS4 / Screen-3]	
15:30—16:00	Coffee Break				
16:00—17:00	[T9+T10-OS1]	[T7-OS2]	[T8-OS1]	[T1-PS4 / Screen-1] [T2-PS2 / Screen-2] [T11-PS1/ Screen-4]	
DAY 3	05 March 2020				
09:00—09:30	Sébastien ROHAIS IFPEN, Rueil- Malmaison, France <b>Session Chair:</b> Prof. François Roure	Fadi Henri NADER IFPEN, Rueil- Malmaison, France <b>Session Chair:</b> Dr. Saleh I. Qaysi			
09:30—10:30	[T6-OS1]	[T7-OS3]	[T6-OS2]	[T2-PS3 / Screen-2] [T3-PS5 / Screen-3] [T9+T10-PS1/ Screen-4]	
10:30—11:00	Coffee Break				
11:00—12:30	[T6-OS3]	[T7-OS4]	[T8-OS2]	[T2-PS4 / Screen-2]	
12:30—14:00	LUNCH				
15:30—16:00	Coffee Break				
14:00—15:00	Panel Discussion & Closing Ceremony				
15:00	Social program : UMRAH ( Free of Charge )				



# About SSG 2020



تنظم وزارة الصناعة والثروة المعدنية ممثلةً بوكالتها للثروة المعدنية بالتعاون مع الجمعية السعودية لعلوم الأرض فعاليات المؤتمر الجيولوجي الدولي الثالث عشر الذي سيعقد بمشيئة الله بمدينة جدة بالمملكة العربية السعودية في الفترة من 3-5 مارس 2020م.



يهدف المؤتمر الى دعم وتعزيز المعرفة الجيولوجية وبناء روابط قوية بين الأكاديميين، وتعزيز السياحة الجيولوجية والبيئية وربطها بالتنمية المستدامة طويلة الأجل بمشاركة علماء الجيولوجيا والخبراء المعنيين من داخل وخارج المملكة. يأتي هذا المؤتمر امتدادا لسلسلة من المؤتمرات الدولية التي نظمتها الجمعية منذ عام 1992م لدعم وتعزيز التنمية المستدامة في الثروات المعدنية بالمملكة من خلال برنامج التحول الوطني 2020 ورؤية المملكة 2030.



لقد تفاعلت المراكز العلمية المحلية والدولية مع دعوة الجمعية والوكالة لعقد هذا المؤتمر وتم قبول ما ينوف عن خمسمائة ورقة علمية بالإضافة إلى خمس محاضرات رئيسية وورشتي عمل .

# About SSG 2020

The Ministry of Industry & Mineral Resources represented by the Deputy Minister of Mineral Resources and the Saudi Society of Geosciences organize the 13th International Geological Conference (SSG 2020) which will be held from 3 - 5 March 2020, Jeddah, Saudi Arabia.

The main objective of this conference is to advance and enhance the geoscientific knowledge and its relation to the sustainable development, to build strong links between academia, industry as well as relevant governmental and private sectors. The goal will be achieved and implemented through exchanging ideas and experiences among participants.

All concerned geoscientists and experts from all over the world are welcome to participate in SSG 2020. The conference will include oral and poster presentations, panel discussions, five special lectures by invited Keynote speakers and two workshops which will provide opportunities to show the latest developments and techniques.

# Organizing Committee



**Eng. Ahmed M. Fageeh**

DMMR (Chairman)

Deputy Minister for Mineral Resources, DMMR

## **Scientific Committee:**

**Prof. Abdullah M. Alamri**  
SSG (Chairman)

## **Workshops Committee:**

**Dr. Faisal A. Alqahtani**  
SSG (Chairman)

## **Exhibitions Committee:**

**Eng. Idris O. Balkhair**  
DMMR (Chairman)

## **Mass Media Committee:**

**Eng. Nabeeh Jameel**  
DMMR (Chairman)

## **Logistic Support Committee:**

**Mr. Asim R. Banten**  
DMMR (Chairman)

## **Registration Committee:**

**Eng. Faisal K. Shalabi**  
DMMR (Chairman)

**Mr. Yousef A. Al-Ayesh**  
SSG (Coordinator)





# SSG 2020 Scientific Committee

## Track 1: Mining: Mineralogy, Geology, Engineering, and Investment Incentives

- Abdel Monem Mohamed Soltan: Faculty of Science, Egypt
- Abdel-aal M. Abdel-karim: Zagazig University, Faculty of Science, Egypt
- Abdelhak Boutaleb: USTHB University Houari Boumediene Algiers, Algeria
- Adilkhan Baibatsha: Satbayev University, Kazakhstan
- Ali Bakri: King Abdulaziz University, Jeddah, Saudi Arabia
- Amin Gheith: Mansoura University, Egypt
- Ashish Juneja: Indian Institute of Technology, Bombay, India
- Ayman Maurice: Helwan University, Cairo, Egypt
- Azzedine Bouzenoune: Jijel University, Algeria
- Dariusz Obracaj: AGH University of Science and Technology, Poland
- Elsayed Ibrahim: Dr., Egypt
- Elżbieta Jasińska: AGH University of Science and Technology, Poland
- Fatma Ramadan: Zagazig university, Egypt
- Hesham Harbi: King Abdulaziz University, Saudi Arabia
- Houssa Ouali: Moulay Ismaïl University, Morocco
- Jaloul Bejaoui: National Center of Nuclear Sciences and Technologies, Sidi Thabet, Tunisia
- Khalil Djebbi: Laboratory of Hydraulic Modeling and Environment-Tunisia
- Maaz Ali: mining engineer, Sudan
- Madani Ghelamallah: Université Mustapha STAMBOULI - Mascara, Algeria
- Mahmoud Mekkawi: National Research Institute of Astronomy and Geophysics, Egypt
- Manoj Namdeo Bagde: CSIR-Central Institute of Mining & Fuel Research, India
- Marco Ludovico-marques: Polytechnic Institute of Setúbal/ESTBarreiro, Barreiro, Portugal
- Maria Josefa Herrero: Universidad Complutense de Madrid, Spain
- Mohamad Khir Abdul-wahed: Atomic Energy Commission, Damascus, Syria
- Mohamad Nur Heriawan: Bandung Institute of Technology, Indonesia
- Mohamed Gaber: Egyptian Petroleum Research Institute, Egypt
- Mohamed Mosbahi: fss, Tunisia
- Mohamed Wahbi Ali-bik: National Research Centre, Cairo, Egypt
- Mohammad Hady Farpoor: Shahid Bahonar University of Kerman, Iran
- Mohammed Sazid: Mining Engineering Department, King Abdulaziz University, Jeddah, Saudi Arabia
- Mostafa Redwan: Sohag University, Faculty of Science, Sohag, Egypt
- Moustafa Gharib: Geology Department-Faculty of Science-helwan University, Egypt
- Nabil Khelifi: Springer, Germany
- Oleg Kovin: Perm State University, Perm 614990, Russia
- Pinbo Ding: China University of Petroleum Beijing, China
- Ramdhane Benassi: University Tunis Al Manar/ University of Gafsa, Tunisia
- Salima Ouali: Centre de Développement des Energies Renouvelables (CDER), Algiers, Algeria
- Sana Ghrab: LR3E, Tunisia

## Track 2: Stratigraphy, Sedimentology, Basin analysis and Petroleum systems

- Abdelhak Boutaleb: USTHB University Houari Boumediene Algiers, Algeria
- Abdessamed Mahboubi: University of Science and Technology of Oran, Mohamed Boudiaf' (USTO-MB), Mnaouar' BP 1505, Bir El Djir 31000, Oran, Algeria
- Abdulaziz Laboun: ibnlaboun Geological Consultants, Saudi Arabia
- Abeer Abuhagaza: Egyptian Petroleum Research Institute, Egypt
- Abhik Kundu: Asutosh College, India
- Abir Ben Slimane: INRGREF, Tunis, Tunisia
- Ahmed Abdelhady: Minia University, Egypt
- Ahmed Radwan: Institute of geology, innsbruck university, innsbruck gulf of suez petroleum company, cairo, Austria
- Amin Gheith: Mansoura University, Egypt
- Ayonma Wilfred Mode: PTDF Chair of Pet Geology, University of Nigeria, Nsukka, Nigeria
- Azzedine Bouzenoune: Jijel University, Algeria

- Faisal Alqahtani: King Abdulaziz University, Saudi Arabia
- Fatma Ramadan: Zagazig university, Egypt
- Jalila Saadi: Carthage universityn FSBizerte, Tunisia
- Jinkai Wang: College of Earth Science and Engineering, Shandong University of Science and Technology, China
- Mahmoud Kora: Mansoura University, Egypt
- Marco Antonio Caçador Martins-ferreira: Federal University of Goiás, Brazil
- Marco Ludovico-marques: Polytechnic Institute of Setúbal/ESTBarreiro, Barreiro, Portugal
- Maria Josefa Herrero: Universidad Complutense de Madrid, Spain
- Moez Ben Fadhel: Institut Supérieur des Sciences et Technologies de l'Environnement de Borj Cedria, Tunisia
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- Mohamed Hédi Negra: Tunis El Manar University, faculty of Sciences of Tunis, Tunisia
- Mohammad Hady Farpoor: Shahid Bahonar University of Kerman, Iran
- Mohammed Aljahdali: King Abdulaziz University, Jeddah, Saudi Arabia, Saudi Arabia
- Mohammed Said Benzagouta: university of Oum Bouaghi, Algeria
- Muzaffer Özbüran: Dumlupınar University, Geological Engineering Department, Turkey
- Quan Vo: Vietnam Petroleum Institute, Vietnam
- Salim Gasmi: University of Larbi Tebessi Tebessa, Algeria
- Salima Ouali: Centre de Développement des Energies Renouvelables (CDER), Algiers, Algeria
- Sami Riahi: Université de Tunis El Manar, Faculte des Sciences de Tunis, Tunisia
- Shaik Rashid: AMU, India
- Sobhi Helal: Prof. of Paleontology, Geology Department, Faculty of Science, Fayoum University, Egypt
- Taizhong Duan: Sinopec, Beijing, China
- Tarek Anan: Mansoura, Egypt
- Valentina Flores-aqueveque: Universidad de Chile, Chile
- Youssef Bazeen: Faculty of Science, Al-Azhar University, Cairo, Egypt
- Zaineb Elamri: ISAM Kasserine, Tunisia

### Track 3: Hydrology, Environmental and Engineering Geology

- Abdelhadi Ammari: Ecole Nationale Supérieure d'Hydraulique, Blida, Algeria
- Abdelkader Khaldi: LRSBG Laboratory, Mascara University, Algeria
- Abderrahmane Boumezbeur: university of Tebessa, Algeria
- Abir Ben Slimane: INRGREF, Tunis, Tunisia
- Adel Djellali: Mining Institute, Larbi Tebessi University, 12002 Tebessa, Algeria
- Adnan Aqeel: Taibah University, Saudi Arabia
- Ahmed El-royes: Suez Canal University, Ismailia, Egypt
- Amin Gheith: Mansoura University, Egypt
- Amjad Kallel: ENIS, University of Sfax, Tunisia
- Bambang Setiawan: Program Studi Teknik Geologi Universitas Syiah Kuala, Banda Aceh 23111, Indonesia
- Behshad Jodeiri Shokri: Hamedan University of Technology, Iran
- Belgacem Agoubi: University of Gabès, Tunisia
- Charles A. Oyelami: Osun State University, Osogbo, Nigeria
- Elsayed Hermas: Umm Al-Qura University, Saudi Arabia
- Fathy F. Shaaban: Umm Al-Qura University, Saudi Arabia
- Fatiha Hadji: Tlemcen University, Tlemcen, Algeria
- Geetha Selvarani Arumaikkani: Vel Tech Rangarajan Dr. Sangunthala R& D Institute of Science and Technology, India
- Gessica Umili: Università degli Studi di Torino, Italy
- Hamouda Dakhlaoui: unuiversity Tunis El Manar, Tunisia
- Haris Khan: Aligarh Muslim University, Aligarh, India
- Harish Puppala: Birla Institute of Technology and Science, Pilani, Pilani 333 031, India
- Hossam Hamdy Elewa: National Authority for Remote Sensing & Space Sciences (NARSS), Egypt
- Husnul Kausarian: Geological Engineering Program, Universitas Islam Riau, Pekanbaru, Indonesia
- Ibrahim Mousa: Environmental biotechnology department, University of Sadat city, Egypt
- Ibrahim Oyediran: UNIVERSITY OF IBADAN, Nigeria
- Izabella Babcsányi: University of Szeged, Hungary
- Kehinde Ishola: UNIVERSITY OF LAGOS, Nigeria
- Keyvan Asghari: Isfahan University of Technology, Iran

- Khalil Djebbi: Laboratory of Hydraulic Modeling and Environment-Tunisia
- Kifle Woldearegay: Mekelle University, Ethiopia
- Konstantina Katsanou: University of Patras, Rio, Greece
- Levent Yilmaz: Nisantasi University Istanbul, Turkey
- Lydia Bondareva: Federal Scientific Center of Hygiene named after F.F. Erisman, Moscow, Russia
- M. Torabi-kaveh: Yazd University, Iran
- Mahmoud Mostafa Khalil: Geology Department, Faculty of Science, Minia University, El Minia, Egypt
- Manoj Namdeo Bagde: CSIR-Central Institute of Mining & Fuel Research, India
- Marco Ludovico-marques: Polytechnic Institute of Setúbal/ESTBarreiro, Barreiro, Portugal
- Marcus Gurk: University of Cologne, Germany
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- Melis A. Somay Altas: Dokuz Eylul Universitesi, Turkey
- Meriem Tarki: Department of geology, Faculty of Sciences of Gabes, Tunisia
- Miah Adel: University of Arkansas - Pine Bluff, United States
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- Michael Oladunjoye: University of Ibadan, Ibadan, Nigeria
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- Mohammad Muqtada Ali Khan: Universiti Malaysia Kelantan, Malaysia
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- Mohammed Said Benzagouta: university of Oum Bouaghi, Algeria
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- Mohd Yawar Ali Khan: King Abdulaziz University, Saudi Arabia
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- Mouez Gouasmia: University of Gafsa, Faculty of Sciences of Gafsa, Tunisia
- Moutaz Al-dabbas: University of Baghdad, Iraq
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- Nermin Sarlak: Karamanoglu Mehmetbey University, Turkey
- Nikolay Esin: Shirshov Institute of Oceanology, Russian Academy of Sciences, Russia
- Nor Aizam Adnan: Faculty of Architecture, Shah Alam, Malaysia
- Nur Azwin Ismail: Universiti Sains Malaysia, Malaysia
- Olfa Mahjoub: INRGREF, Tunisia
- Saad Al-humidan: King Saud University, Riyadh, Saudi Arabia
- Salah-eddine Tachi: Laboratoire de recherche science de l'eau, Ecole nationale polytechnique, algiers, Algeria
- Salim Gasmi: University of Larbi Tebessi Tebessa, Algeria
- Sami Guiza: National Engineering School of Gabés. University of Gabés. Tunisia
- Sana Ghrab: LR3E, Tunisia
- Sujatha Ramani: SASTRA Deemed to be University, Thanjavur, India
- Tewodros Alemayehu: Mekelle University, Ethiopia
- Tewodros Assefa Nigussie: Hawassa University, Ethiopia
- Usama Massoud: National Research Institute of Astronomy and Geophysics (NRIAG), Egypt
- Vahab Amiri: Yazd University, Iran
- Vinod Kumar Tripathi: Department of Farm Engineering, Banaras Hindu University, India

## Track 4: Structural Geology, Tectonics, and Geodynamics

- Abdelhak Boutaleb: USTHB University Houari Boumediene Algiers, Algeria
- Abdullah Bamousa: Taibah University, Al MADinah Al Munawarah, Saudi Arabia, Saudi Arabia
- Abhik Kundu: Asutosh College, India
- Adilkhan Baibatsha: Satbayev University, Kazakhstan
- Azzedine Bouzenoune: Jijel University, Algeria
- Chafik Aidi: CRAAG, Algeria
- Harsh Bhu: Department of Geology, MLSukhadia University, Udaipur, India
- Khalifa Abdunaser: Researcher, Libya
- Marco Antonio Caçador Martins-ferreira: Federal University of Goiás, Brazil
- Muzaffer Özburan: Dumlupinar University, Geological Engineering Department, Turkey
- Pierre-olivier Bruna: Delft University of Technology, Netherlands
- Ramdhane Benassi: University Tunis Al Manar/ University of Gafsa, Tunisia

- Vincenzo Guerriero: Universita degli Studi di Napoli Federico II, Italy
- Wael Hagag: Department of Geology, Faculty of Science, Benha University, Egypt
- Zakaria Hamimi: Department of Geology, Faculty of Science, Benha University, Egypt

## Track 5: Geodesy, Geoinformatics, GIS, and Remote Sensing

- Abdelhamid Elnaggar: Mansoura University, Egypt
- Abdelkrim Bensaïd: university of orleans france, France
- Abdullah Bamousa: Taibah University, Al MADinah Al Munawarah, Saudi Arabia, Saudi Arabia
- Abir Ben Slimane: INRGREF, Tunis, Tunisia
- Adrijana Car: Carinthia Tech Institute, Austria
- Ali Tahir: Institute of Geographical Information Systems, National University of Sciences and Technology, Pakistan
- Ashraf Farah: Associate professor, faculty of Engineering, Aswan university, Aswan, Egypt
- Elsayed Hermas: Umm Al-Qura University, Saudi Arabia
- Elżbieta Jasińska: AGH University of Science and Technology, Poland
- Geetha Selvarani Arumaikkani: Vel Tech Rangarajan Dr. Sangunthala R& D Institute of Science and Technology, India
- Harish Puppala: Birla Institute of Technology and Science, Pilani, Pilani 333 031, India
- Hilal Nuha: Telkom University, Indonesia
- Hormoz Sohrabi: Tarbiat Modares University, Tehran, Iran
- Husnul Kausarian: Geological Engineering Program, Universitas Islam Riau, Pekanbaru, Indonesia
- Imtiaz Ahmed Ahmed Chandio: Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan, Malaysia
- John Prince Soundranayagam: V. O. Chidambaram College, Tuticorin Tamilnadu, India, India
- Maher Ibrahim Sameen: University of Technology Sydney, Malaysia
- Mamdouh El-hattab: Environmental Studies and Researches Institute, Sadat City, Egypt
- Marios Spiliotopoulos: Panepistimio Thesalias, Greece
- Mohamad Nur Heriawan: Bandung Institute of Technology, Indonesia
- Mohamed Said Guettouche: University of Sciences and Technology Houari Boumediene, Algiers, Algeria
- Muhammad Mahboob: School of Mining Engineering, University of the Witwatersrand, South Africa, South Africa
- Muheeb M. Awawdeh: Yarmouk University, Jordan
- Ozsen Corumluoglu: İzmir Kâtip Çelebi Üniversitesi, Turkey
- Pedram Masoudi: Geovariances, France
- Raj Stanley: Loyola College India, India
- Reda Amer: Lamar University, Beaumont, TX, United States
- Rifaat Abdalla: Sultan Qaboos University, Oman
- Safaa Hassan: National authority of remote sensing and space science, Cairo, Egypt
- Salah-eddine Tachi: Laboratoire de recherche science de l'eau, Ecole nationale polytechnique, Algiers, Algeria
- Shastri L. Nimmagadda: School of Management (IS), Curtin Business School, Curtin University, Perth, WA, Australia
- Sofiane Khelifa: Centre of Space Techniques, Algeria
- Vahab Amiri: Yazd University, Iran
- Xun Luo: CSIRO Energy, Australia

## Track 6: Geophysical Exploration: Seismic, Potential Field and Electromagnetic

- Abeer Abuhagaza: Egyptian Petroleum Research Institute, Egypt
- Abeer El-kenawy: Faculty of Science- Zagazig University-Zagazig, Egypt
- Ahmed Hamed: National Research Institute of Astronomy and Geophysics, Egypt
- Amin Khalil: Universiti Sains Malaysia, Pulau Pinang, Malaysia
- Animesh Mandal: IIT Kanpur, India
- Anirbid Sircar: Pandit Deendayal Petroleum University, School of Petroleum Technology, Gandhinagar, India
- B. D. Ako: Federal University of Technology, Akure, Nigeria
- Chafik Aidi: CRAAG, Algeria
- Elsayed Fergany: National Research Institute of Astronomy and Geophysics, Egypt
- Elsayed Issawy: National Research Institute of Astronomy and Geophysics, Cairo, Egypt
- Fathy F. Shaaban: Umm Al-Qura University, Saudi Arabia
- Gad-elkareem Mohamed: NRIAG, Cairo, Egypt
- Hosni Ghazala: Faculty of Science, Mansoura University, Egypt
- Husnul Kausarian: Geological Engineering Program, Universitas Islam Riau, Pekanbaru, Indonesia

- Ibrahim El-hemaly: National Research Institute of Astronomy and Geophysics, Cairo, Egypt
- Imen Hamdi Nasr: Faculté des sciences de Bizerte, Tunisia
- Kehinde Ishola: UNIVERSITY OF LAGOS, Nigeria
- Lorenzo Cascone: Dept.of Earth Science, Italy
- Lukumon Adeoti: University of Lagos, Nigeria
- Maan H. Abdullah Almajid: Lecturer in University of Mosul-College of petroleum and mining engineering - Mosul-Iraq, Iraq
- Marcus Gurk: University of Cologne, Germany
- Michael Adeyinka Oladunjoye: University of Ibadan, Nigeria
- Michael Oladunjoye: University of Ibadan, Ibadan, Nigeria
- Mohamad Nur Heriawan: Bandung Institute of Technology, Indonesia
- Mohamed Abdel-fattah: Suez Canal University. Ismailia, Egypt
- Mohamed Abdelwahed: King Abdulaziz University, Geohazards Research Center, Saudi Arabia
- Mohammed Farfour: Sultan Qaboos University, Oman
- Mostafa Toni: Helwan University, Faculty of Science, Geology Department, Cairo, Egypt
- Mouez Gouasmia: University of Gafsa, Faculty of Sciences of Gafsa, Tunisia
- Muhammad Hanif: Research Center for Geotechnology LIPI, Indonesia
- Nordiana Mohd Muztaza: School of Physics, Universiti Sains Malaysia, 11800 USM, Pulau Pinang, Malaysia
- Nur Azwin Ismail: Universiti Sains Malaysia, Malaysia
- Oleg Kovin: Perm State University, Perm 614990, Russia
- Pedram Masoudi: Geovariances, France
- Pinbo Ding: China University of Petroleum Beijing, China
- Ramdhane Benassi: University Tunis Al Manar/ University of Gafsa, Tunisia
- Saad Al-humidan: King Saud University,Riyadh, Saudi Arabia
- Said Eladj: University Boumerdes, Algeria
- Salima Ouali: Centre de Développement des Energies Renouvelables (CDER), Algiers, Algeria
- Taha Rabeh: National Research Institute of Astronomy and Geophysics (NRIAG), Helwan, Egypt
- Usama Massoud: National Research Institute of Astronomy and Geophysics (NRIAG), Egypt

## Track 7: Seismological investigations: Geologic and Geotechnical

- Abdelnasser Mohamed: National Research Institute of Astronomy and Geophysics, Egypt
- Abdullah Alamri: KSU, Saudi Arabia
- Ahmed Hamed: National Research Institute of Astronomy and Geophysics, Egypt
- Ashish Juneja: Indian Institute of Technology, Bombay, India
- Chafik Aidi: CRAAG, Algeria
- Elsayed Fergany: National Research Institute of Astronomy and Geophysics, Egypt
- Gaber Hassib: National Research Institute of Astronomy and Geophysics, Egypt
- Gad-elkareem Mohamed: NRIAG, Cairo, Egypt
- Haggag Mohamed: National Research Institute of Astronomy and Geophysics, NRIAG, Cairo, Egypt
- Hosni Ghazala: Faculty of Science, Mansoura University, Egypt
- Issa El-hussain: Sultan Qaboos University, Oman
- Kehinde Ishola: UNIVERSITY OF LAGOS, Nigeria
- Khaista Rehman: University of Peshawar, Pakistan
- Mahmoud Al-qaryouti: Ministry Of Energy and Mineral Resources, Jordan, Jordan
- Mavinakere Eshwaraiha Raghunandan: Monash University, Bandar Sunway, Malaysia
- Mohamad Khir Abdul-wahed: Atomic Energy Commission, Damascus, Syria
- Mohamed Abdelwahed: King Abdulaziz University, Geohazards Research Center, Saudi Arabia
- Mohammad Nasri: Shahrood University of Technology, Shahrood, Iran
- Mohammed Farfour: Sultan Qaboos University, Oman
- Mohammed Said Benzagouta: university of Oum Bouaghi, Algeria
- Mostafa Toni: Helwan University, Faculty of Science, Geology Department, Cairo, Egypt
- Murat Turkoz: Eskisehir Osmangazi University, Eskisehir, Turkey
- Muthu Kumar: VELLORE INSTITUTE OF TECHNOLOGY, India
- Nader Saadatkhah: Universiti Teknologi Malaysia (UTM), Malaysia
- Nur Azwin Ismail: Universiti Sains Malaysia, Malaysia
- Riad Benzaid: Université Mohammed Seddik Benyahia- Jijel. Algeria
- Sadi Kuleli: Massachusetts Institute of Technology, United States
- Said Eladj: University Boumerdes, Algeria
- Salah El Hadidy: Saudi Arabia, Jeddah, Saudi Geological Survey, Saudi Arabia

- Sandeep Kumar Aggarwal: Indian Institute of Technology (ISM,) Dhanbad India, India
- Suman Saha: Bangladesh Meteorological Department, Dhaka, Bangladesh, Bangladesh
- Xun Luo: CSIRO Energy, Australia

## Track 8: Geohazards: Mapping, Monitoring, and Mitigation

- Abdelkader Khaldi: LRSBG Laboratory, Mascara University, Algeria
- Abdelkrim Bensaid: university of orleans france, France
- Abdelnasser Mohamed: National Research Institute of Astronomy and Geophysics, Egypt
- Abderrahmane Boumezbeur: university of Tebessa, Algeria
- Adnan Aqeel: Taibah University, Saudi Arabia
- Adrijana Car: Carinthia Tech Institute, Austria
- Ahmed El-rayes: Suez Canal University, Ismailia, Egypt
- Bambang Setiawan: Program Studi Teknik Geologi Universitas Syiah Kuala, Banda Aceh 23111, Indonesia
- Elsayed Fergany: National Research Institute of Astronomy and Geophysics, Egypt
- Elsayed Hermas: Umm Al-Qura University, Saudi Arabia
- Elsayed Issawy: National Research Institute of Astronomy and Geophysics, Cairo, Egypt
- Elżbieta Jasińska: AGH University of Science and Technology, Poland
- Eric Leroi: Risques & Développement, Pau, France
- Faisal Alqahtani: King Abdulaziz University, Saudi Arabia
- Fathy F. Shaaban: Umm Al-Qura University, Saudi Arabia
- John Prince Soundranayagam: V. O. Chidambaram College , Tuticorin Tamilnadu , India
- Khaista Rehman: University of Peshawar, Pakistan
- Kifle Woldearegay: Mekelle University, Ethiopia
- Kuswantoro Marko: Universitas Indonesia
- Lorenzo Cascone: Dept.of Earth Science, Italy
- Mahmoud Al-qaryouti: Ministry Of Energy and Mineral Resources, Jordan, Jordan
- Mamdouh El-hattab: Environmental Studies and Researches Institute, Sadat City, Egypt
- Manoj Namdeo Bagde: CSIR-Central Institute of Mining & Fuel Research, India
- Marco Manso: Universidade de Evora, Portugal
- Mavinakere Eshwaraiah Raghunandan: Monash University, Bandar Sunway, Malaysia
- Michael Oladunjoye: University of Ibadan, Ibadan, Nigeria
- Mohamad Khir Abdul-wahed: Atomic Energy Commission, Damascus, Syria
- Mohamed Helmi Geriess: Faculty of Science, Suez Canal University, Egypt
- Mohamed Said Guettouche: University of Sciences and Technology Houari Boumedienne, Algiers, Algeria
- Mohamed Taieb Labiadh: Institute of Arid Region of Medenine - Tunisia
- Mohammad Reza Mansouri Daneshvar: Research Institute of Shakhes Pajouh, Isfahan, Iran
- Mostafa Redwan: Sohag University, Faculty of Science, Sohag, Egypt
- Mostafa Toni: Helwan University, Faculty of Science, Geology Department, Cairo, Egypt
- Moutaz Al-dabbas: University of Baghdad, Iraq
- Muhammad Hanif: Research Center for Geotechnology LIPI, Indonesia
- Muhammad Mahboob: School of Mining Engineering, University of the Witwatersrand, South Africa, South Africa
- Muheeb M. Awawdeh: Yarmouk University, Jordan
- Nader Saadatkah: Universiti Teknologi Malaysia (UTM), Malaysia
- Nor Aizam Adnan: Faculty of Architecture, Shah Alam, Malaysia
- Riad Benzaid: Université Mohammed Seddik Benyahia- Jijel. Algeria
- Sadi Kuleli: Massachusetts Institute of Technology, United States
- Samir Toumi: ENSH\_Blida, Algeria
- Sofia Koukina: Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia
- Sujatha Ramani: SASTRA Deemed to be University, Thanjavur, India
- Uday Chatterjee: BHATTER COLLEGE, DANTAN, VIDYASAGAR UNIVERSITY, WEST BENGAL, India
- Xun Luo: CSIRO Energy, Australia

## Track 9: Geoarchaeology, Geoheritage, and Geotourism

- Adrijana Car: Carinthia Tech Institute, Austria
- Ahmed Muftah: University of Benghazi, Faculty of Sciences, Benghazi Libya., Libya



- Farid Sellami: INRAP, France
- Ibrahim El-hemaly: National Research Institute of Astronomy and Geophysics, Cairo, Egypt
- Lorenzo Cascone: Dept. of Earth Science, Italy
- Mohamed Said Guettouche: University of Sciences and Technology Houari Boumediene, Algiers, Algeria
- Santi Dwi Pratiwi: Universitas Padjadjaran, Bandung, Indonesia
- Valentina Flores-aqueveque: Universidad de Chile, Chile

## Track 10: Renewable Energy: Assessment, Technology, and Feasibility

- Alberto Maria Gambelli: University of Perugia, Italy, Italy
- John Prince Soundranayagam: V. O. Chidambaram College, Tuticorin Tamilnadu, India, India
- Levent Yilmaz: Nisantasi University Istanbul, Turkey
- Madani Ghelamallah: Université Mustapha STAMBOULI - Mascara, Algeria
- Mohamed Abdel-fattah: Suez Canal University. Ismailia, Egypt
- Monia Procesi: Istituto Nazionale Di Geofisica E Vulcanologia, Rome, Italy, Italy
- Muhammad Bilal Tahir: University of Gujrat, 50700, Pakistan, Pakistan
- Noureddine Hassini: Université of Mostaganem, Mostaganem, Algeria
- Peng Zhan: KAUST, Saudi Arabia
- Samuel Ogunjo: Federal University of Technology Akure, Nigeria
- Zeroual Aouachria: univ. batna 1 Batna city- 05000, Algeria

## Track 11: Oceanography and Marine Geology

- Aaron Chow: New York University Abu Dhabi, United Arab Emirates
- Bianca Sung Mi Kim: University of São Paulo, Brazil
- Levent Yilmaz: Nisantasi University Istanbul, Turkey
- Moez Ben Fadhel: Institut Supérieur des Sciences et Technologies de l'Environnement de Borj Cedria, Tunisia
- Mohammed Aljahdali: King Abdulaziz University, Jeddah, Saudi Arabia, Saudi Arabia
- Nikolay Esin: Shirshov Institute of Oceanology, Russian Academy of Sciences, Russia
- Noura Kotti: National Engineering School of Sfax, Tunisia
- Peng Zhan: KAUST, Saudi Arabia
- Santi Dwi Pratiwi: Universitas Padjadjaran, Bandung, Indonesia
- Sofia Koukina: Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia
- Sundaramanickam Arumugam: Centre of Advanced Study in Marine Biology, Parangipettai, India, India
- Taizhong Duan: Sinopec, Beijing, China

## Track 12: Meteorology and Climate Change

- Aaron Chow: New York University Abu Dhabi, United Arab Emirates
- Abdelkader Khaldi: LRSBG Laboratory, Mascara University, Algeria
- Alberto Maria Gambelli: University of Perugia, Italy, Italy
- Hamouda Dakhlaoui: uniuersity Tunis El Manar, Tunisia
- Keyvan Asghari: Isfahan University of Technology, Iran
- Khalil Djebbi: Laboratory of Hydraulic Modeling and Environment-Tunisia
- Mahmoud Hozayn: National Research Centre, Cairo., Egypt
- Mazhar Rafique: University of Haripur, Pakistan
- Miah Adel: University of Arkansas - Pine Bluff, United States
- Mohamed Taieb Labiadh: Institute of Arid Region of Medenine - Tunisia
- Mohammad Reza Mansouri Daneshvar: Research Institute of Shakhsh Pajouh, Isfahan, Iran
- Moutaz Al-dabbas: University of Baghdad, Iraq
- Nadhem Brahim: Faculty of Sciences of Tunis, Tunisia
- Nermin Sarlak: Karamanoglu Mehmetbey University, Turkey
- Nor Aizam Adnan: Faculty of Architecture, Shah Alam, Malaysia
- Noureddine Hassini: Université of Mostaganem, Mostaganem, Algeria

- Peng Zhan: KAUST, Saudi Arabia
- Salim Gasmi: University of Larbi Tebessi Tebessa, Algeria
- Samuel Ogunjo: Federal University of Technology Akure, Nigeria
- Sujatha Ramani: SASTRA Deemed to be University, Thanjavur, India
- Suman Saha: Bangladesh Meteorological Department, Dhaka, Bangladesh, Bangladesh
- Tewodros Assefa Nigussie: Hawassa University, Ethiopia
- Valentina Flores-aqueveque: Universidad de Chile, Chile

### **Track 13: Arabian Plate and Red Sea Case Studies**

- Ibrahim El-hemaly: National Research Institute of Astronomy and Geophysics, Cairo, Egypt
- Mahmoud Al-qaryouti: Ministry Of Energy and Mineral Resources, Jordan, Jordan
- Mohamed Abdelwahed: King Abdulaziz University, Geohazards Research Center, Saudi Arabia
- Mohamed Wahbi Ali-bik: National Research Centre, Cairo, Egypt



# KEYNOTES



## The most important features that make mining one of the pillar of the national economy



**Sultan Shawli**  
**Ministry of Industry and Mineral Resources**  
**Saudi Arabia**

### **Abstract**

This paper highlights that one of the most important options for diversifying the economy in the Kingdom is to invest in the mining sector and its industries, this is because the kingdom distinguish by its wide geographical area and its diverse geology. A third of its area is igneous, metamorphic and volcanic rocks that make up the Arabian shield in the west of the Kingdom. which rich in mineral resources such as gold, silver, copper, zinc, rare earth and radioactive elements, while sedimentary rocks which covered two-thirds of the area of the kingdom in the middle and east, are rich in industrial minerals such as phosphate, aluminum ores and silica sand.

This paper shows the general geological parts of the Kingdom and its most important mineral investments prospects and the non-invested and the state's endeavor to focus on the development of the mining sector through the preparation of studies and plans and provide the necessary expertise and technical data bases that have proven that the Arabian shield and cover rocks contains more than five thousand mineral occurrences.

The mining sector occupied a prominent space in the Kingdom's vision for the future, and accordingly a comprehensive mining study was prepared in order to support the national economy as the study reached an evaluation of gold, phosphate, iron, aluminum, zinc, copper and rare earth elements, uranium, silica, quartz, limestone and ornamental stones.

This paper will highlights that, the Kingdom has unique features to make these minerals a third pillar of the economy, the most important features are the availability of minerals in promising quantities, appropriate wages for labor, high local demand for minerals, geographical location, proximity to the consuming countries, the freedom of trade, the availability of unexplored areas attracting international companies, the availability of energy and security stability of the Kingdom.

The paper also focuses on the role of the Ministry of Industry and Mineral Resources in encouraging domestic and foreign investment and keenness to develop value-added chains for Saudi mineral ores, and the ways the ministry has begun to take to develop and raise the sector's contribution to GDP from 2% to approximately 5%.

## From post-orogenic collapse to rifting and passive margin development: the Wilson cycle revisited



**François ROURE**  
IFPEN, Rueil-Malmaison, France  
Francoisroure84@gmail.com

### Abstract

Post-orogenic collapse is now well documented in Western Europe, deep crustal seismic imagery outlining the occurrence of a flat Moho and layered lower crust at the current location of the former Hercynian orogen. Permian normal faults in the Ebro Basin in Spain and Aquitaine Basin in France reactivate former south-verging or north-verging Carboniferous thrusts, whereas unconformable Triassic series rest mostly undeformed and parallel to the Moho from the Pyrenes to the North Sea. Absolute dating of granulitic units currently exposed in the Alps account for a Permian age also for the stretching observed in the European lower crust, i.e. before the main episodes of the Tethyan rifting.

The same layered fabric is also observed in the hyper-extended continental crust of the Algerian Basin in the Western Mediterranean, and is assumed to result from the gravitational collapse and negative inversion of the Kabylide units soon after their docking to the African passive margin in Oligocene time, accounting for the progressive opening of a new, Neogene oceanic domain.

Rapid post-orogenic thinning of the crust in the North American Cordillera accounts also for the emplacement of extensional metamorphic core complexes and negative inversion of former Laramian thrusts in the Basin and Range province, as well as to the rise of the asthenosphere and thermal doming, with coeval uplift and tilting of the foreland lithosphere from Alberta to Eastern Mexico.

A similar uplift of the foreland domain is observed from Algeria to the Sicilian Channel, offshore Tunisia, as well as in Oman, where it relates to the detachment of a former lithospheric slab, coeval with the opening of a new oceanic domain in a back-arc position.

These spatial and temporal changes observed in the lithosphere during the successive stages of the Wilson cycle will be discussed in terms of heat flow, petroleum modelling and hydrocarbon exploration risks in North Africa and the Middle East.

## Artificial Intelligence and Geospatial Computation for Natural Hazard Assessment



**Biswajeet Pradhan**

**Director & Distinguished Professor, The Centre for Advanced Modelling & Geospatial Information Systems (CAMGIS), Faculty of Engineering & IT,**

**University of Technology Sydney, 2997, NSW, Australia**

**Biswajeet.Pradhan@uts.edu.au**

### **Abstract**

Our world is expanding and getting complex day after day. Globally, natural disasters such as forest fires, landslides, floods, droughts, tsunamis and earthquakes cause approximately thousands deaths per year and property damage of about US 100 billion. New technologies have been developed to mitigate natural hazards such as floods, cyclones, earthquakes, and landslides. Novel methods have been tested for natural hazard, vulnerability and risk assessment using artificial intelligence (AI) and spatial computing models. Almost all these have been enabled by remote sensing and advanced geospatial computations. The speaker in this talk will first explain the basic and advanced geospatial concepts that have been widely used to solve natural hazard problems. Then, he will discuss several applications ranging from hazard assessment, vulnerability and risk mapping to natural hazards, and to site suitability assessment. Finally, the speaker will conclude the talk by presenting the current challenges in geospatial computation for natural hazard applications and areas to improve in future research works.

## Impacts of diagenesis and fluid-rock interactions on typical reservoir rocks with case studies from the Middle East and Europe



**Fadi Henri NADER**  
IFPEN, Rueil-Malmaison, France  
fadi-henri.nader@ifpen.fr

### Abstract

Most of the world major hydrocarbon reservoirs are heterogeneous in terms of their mineralogy and flow properties. Predicting the porosity and permeability evolutions of carbonates and sandstones at varying scales remains a tedious task due to diagenesis. While classical petrography and geochemical analyses allow the distinction and sorting of key diagenetic phases, more work remains to quantify their discrete and combined impacts on porosity and permeability of the bulk rock at large and small scales.

Proposing conceptual models, achieving quantitative estimations, and applying numerical simulations in iterative loops resulted in an advanced understanding of typical dolostone reservoirs from Europe and the Middle-East. Recent numerical modeling emphasized the physico-chemical pre-requisites for ferroan rather than non-ferroan dolomitization and related porosity evolution. Important larger-scale information on the crustal fluid circulations were intimately associated to the dolomitization fluids and conditions of precipitation.

At a smaller scale, a new methodology (involving laboratory analysis and micro-tomography) was developed to quantify the influence of dissolution and/or cementation on flow properties. Pore blocking calcite cement in sandstones were selectively leached, while the petrophysical characteristics continuously quantified and simulated. Results show a distinctive dissolution pattern for different cementation grades and Representative Elementary Volumes (REVs) – with important consequences for upscaling.

## Dynamic and stratigraphic architecture of rift basins: Insights from the Gulf of Suez/Red Sea and other worldwide analogues



**Sébastien ROHAIS**  
IFPEN, Rueil-Malmaison, France  
[sebastien.rohais@ifpen.fr](mailto:sebastien.rohais@ifpen.fr)

### Abstract

Understanding the geology of extensional basins has a major economic impact as more than a third of the global hydrocarbon resources are hosted in rift basins, and most of the passive margin petroleum systems are fed from source-rock deposited in underlying rift basins.

The dynamic and stratigraphic architecture of rift basins has long been explained using classical rift models (Gawthorpe and Leeder, 2000). The Gulf of Suez (Egypt) is a world-class example used to develop these conventional models.

For the last two decades, the hydrocarbon industry has led to major improvements in seismic imaging, resulting in the drilling of new wells in deep-water (>3000m water depth) along rifted margins. Significant progress in our understanding of rifting then occurred, resulting in new concepts supported by quantitative approaches. The Atlantic passive margins are probably the best documented rifted margins used to illustrate these new concepts.

Nowadays, it is well-established that rifting can be poly-phased, and associated with complex reactivation of faults, rift migration and sequential faulting. Consequently, such diversity in rift dynamic will obviously result in distinctive stratigraphic architectures. A review of these new concepts will be illustrated using the Gulf of Suez/Red Sea example and other worldwide analogues, to finally discuss their implications for reservoir plays and petroleum systems in rift basins.





# **WORKSHOPS**



# Workshop 1

## Geohazards in Saudi Arabia Study, Analysis and Impact

03 March 2020 Jeddah, Saudi Arabia

Overview Countries across the globe are prone to either multiple or a single catastrophic hazard either through sea, land or air. These hazards are collectively termed as Geohazards. The Geohazards considerations have grown in importance in Saudi Arabia as the government becomes increasingly aware of the potentially devastating impact these hazards can have on human lives, properties, and infrastructure. It is therefore critical that practices and technologies are continuously developed to ensure geohazards risks are timely and accurately identified and measures implemented to mitigate the risks involved. Within the geographic boundaries of Saudi Arabia, the geohazards that need a constant study and research perspective are seismic hazards, volcanic hazards, floods, landslides and radiation hazards.

This workshop will present an advanced overview of surface and subsurface-related geohazards. Particular attention will be paid to the improvements in geohazards identification, quantification of risk and mitigation, best practices, lessons learnt and technological advancements in handling geohazards, and potential impact on human lives, properties, and infrastructure. Special discussions will focus on seismic, volcanic, flooding and radiation hazards in the Kingdom.

Keynote speakers will be invited to present their latest findings concerning these hazards and suggestions will be put forward to help understand the ways and methods to tackle and minimize the occurrences of these hazards using latest technological methods. Proposals and suggested proceeds from these presentations will be best put to use by forming a team of researchers under a single umbrella which will focus in implementing the best practices to tackle these hazards.

The following geohazards overview will be presented during the workshop proceedings to make people better understand the geohazards in the Kingdom:

Focus Area	Presentation Topic
1) Seismic Hazards	a) Seismic Hazards in Saudi Arabia: An Overview
	b) Earthquake location and magnitude estimation using Sgraph Program
2) Volcanic Hazards	a) Volcanic Hazards in Saudi Arabia: An Overview
	b) Evaluation of Volcanic Hazards using Geophysical Methods
	a) Impact of Climate change in Saudi Arabia

3) Flood Hazards	b) Flood Hazard Analysis – Case Studies
4) Radiation Hazards	a) Radiation Hazards - Case Studies

Who should attend. In general, the workshop is organized for those who needs to understand and gain knowledge about the geohazards in Saudi Arabia. Specifically, it is intended for researchers in the field of geology, government personnel who deal with disaster management and students whose primary focus is the geology of the Kingdom.

Every Attendee will be given a certificate of presence and supporting educational materials if any from the participating partners or organizers.

**Workshop Fees:**

Workshop fees: 300 SR

## Workshop 2

### Geotourism in Saudi Arabia

### Vision, Ambition and Future

03 March 2020 Jeddah, Saudi Arabia

Overview Geotourism is a word referred to an adapted form of tourism that specifically focuses on geology and landscapes of countries which in turn shape the geological characteristics of a region. It promotes properly managed and quality tours to “geo-sites” and the conservation of geodiversity and an understanding of earth sciences through appreciation and learning. Though important, geotourism is still a new concept to various people, geologists and establishments.



The workshop aspires to bring together leading scientists, researchers, governmental organizations, and the private sector to exchange and share their experiences and research results on all aspects of Geotourism. It also provides a premier interdisciplinary platform for researchers, practitioners, and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Geotourism to summarize the best cases of Geotourism and to promote the development of community and modern society.

The 13th International Geological Conference organized by the SSG in support of the geotourism movement aims at:

1. Sharing geotourism experience and exploring challenges and opportunities;
2. Pioneering Saudi Arabia to promote geotourism and geoparks;
3. Supporting development of Saudi Arabia geotourism in the promotion of conservation, earth sciences popularization, and sustainable economic development. The following geotourism overview will be presented during the workshop proceedings to promote a better understanding of the future opportunities of geotourism in the Kingdom:

No.	Presentation Topic
1	Geotourism in Saudi Arabia: an overview
2	Saudi Geological Survey: pioneering role in discovering and identifying geo-sites for geotourism
3	Distinctive geological features in Saudi Arabia
4	Cave tourism in Saudi Arabia
5	Volcanic Park in Harrat Al-Madinah
6	The role of private sector in the field of geotourism

### Who should attend ?

In general, the workshop is organized for those who need to understand and gain knowledge about geotourism in Saudi Arabia. Specifically, it is intended for researchers in the field of geology, government personnel who deal with tourism and landscape sightseeing tours, students whose primary focus is the geology and the geography of the Kingdom, and the private sector interested in investment opportunities in the tourism industry in general.

Every attendee will be given a certificate of presence and supporting educational materials if any, from the participating partners or organizers.

### Workshop Fees

Workshop fees: 300 SR

# **Track1. Mining: Mineralogy, Geology, Engineering, and Investment Incentives**





**Session: T1-OS1 / Hall A / 3 Mar 09:30~10:30**

**Program session chair: Amjad Kallel**

**ID 21: Magnetic and electrical conductivity of glass and glass-ceramics based on weathered basalts**

Bassem Ibrahim, Gamal Khater, Junfeng Kang, Yunlong Yue, Mokhtar Mahmoud<sup>2</sup>

**ID 86: Basalts natural pozzolans-like used as an alternative raw material for Portland clinker**

Ahmed Khalil, Hatem El-desoky

**ID 145: Improving the bearing capacity of clays by incorporating glass waste**

Hadj Bekki, Tarik M'raim, Naceur Katbi

**ID 156: Flotation Reagents Phase Diagram as a Key for Efficient Coal Upgrading**

Hussin Ahmed

**ID 162: A novel method for mine backfilling with foam mine fill**

Mohammed Hefni, Ferri Hassani

**Session: T1-OS2 / Hall A / 3 Mar 11:00~12:30**

**Program session chair: Hatem Hamdi A. Odah**

**ID 283: Radioactivity Associated With Precious and Base Metals Mineralization In The Black Shale of the Allouga Old Mine, South Western Sainai, Egypt.**

Osama Sallam, Raafat Hosien, Abdelhadi Abbas

**ID 308: Valorization of clay attached by essential oil for investigation as bio-insecticide.M**

Mourad Benzina, Sana Ghrab, Stéphanie Lambert

**ID 393: Control Rock Blasting Tools and Techniques for Mining and Civil Project**

Mohammed Sazid, Saud Almuahysini, Hussam Altalhi, Mohammed A. Hefni

**ID 210: Adding value to the Egyptian glauconite deposits as indigenous potash fertilizers: A case study from Abu-Tartur plateau in the Western Desert of Egypt**

Mohamed Askalany, Galal El-habaak, Mahmoud Abdel-hakeem

**ID 263: A quantitative approach to exploration targeting in Finland, integrating mineral systems analysis and mineral prospectivity modelling**

Pasi Eilu, Peter Sorjonen-ward, Vesa Nykänen, Ferenc Molnar, Tapio Halkoaho

**Session: T1-OS3 / Hall A / 3 Mar 14:00~15:30**

**Program session chair: Mohammed Hussien Basyoni**

**ID 443: Alteration Zones Associated With Volcanogenic Massive Sulphide Ores of the Ariab District, Red Sea Hills, Sudan.**

Samia A. Ibrahim, Elsheik M. Abdelrahman

**ID 500: Exploring abandoned gold mines for their mineralization potential, Central Eastern Desert, Egypt**

Mohamed Gobashy, Abdelmonem EldougDoug, Ahmed Abdelhalim, Maha Abdelazeem

**ID 505: Structure formula of phyllosilicates, solid solutions and assignment of Raman scattering bands within the crystallochemical variations**

Ali Tlili, Mongi Felhi

**ID 518: Geochemical Characterization of Jabal Guyan Gold Deposit by Using Principal Component Analysis**

Abidin Ugur Yucel, Ozcan Dumanlilar, Behzat Ersen Sahindur, Akhil Kumar Kornath, Ismail Cakici, Safarudheen Panangadanakath, Ali Al-murdif

**ID 32: Exploration of copper ore deposits using Geophysical , Geochemical and Remote Sensing data in Wadi El Regeita area, Southern Sinai, Egypt.**

Sultan Araffa, Salem M.salem

**ID 97: Suggested modern methods of production Ultrafine Silica Flour for Industrial Applications**

Mostafa Elwakil

**Session: T1-PS1 / Screen-1 / E-poster Hall / 4 Mar 09:30~10:30**

**Program session chair: Abdelkader Elouissi**

**ID 55: Insight into Mineralization zones and their Structural-Deformational Phases in Yemen Republic: New Approach**

Mohamed Tharwat Heikal

**ID 66: Mineralogical and geochemical survey of the oolitic iron ore of the Kandi sedimentary basin (North-East Benin, West Africa)**

Adiss Kamal Issifou Fatiou, Moussa Konate, Soulémana Yessoufou, Cossi Luc Adissin Glodji, Hamidou Saley Garba

**ID 76: SERPENTINITE AND SERPENTINIZATION OF EASTERN DESERT, EGYPT: PETROGRAPHIC AND ISOTOPIC CONSTRAINS**

Mohamed Ghoneim

**ID 78: REVIEW ON IGNEOUS PHOSPHATE RESOURCES OF EAST AND SOUTH EAST AFRICA**

Wondafrash Mamo Ghebre

**ID 304: GEOLOGY AND MINERALOGY OF THE URANIUM-BEARING CARBONACEOUS SHALE AND DOLOSTONE IN ALLOUGA AREA, SOUTHWEST SINAI, EGYPT**

Amer Bishr

**ID 312: Mineralogical and geochemical characteristics of weathered products of magmatic rocks in the Nefza area (northern Tunisia)**

Randa Ben Abdallah, Mounir Medhioub

**ID 315: Recovery of Lost Energy in Cement Industry**

Ali Bakri, Hussin Ahmed

**ID 421: Geotechnical characterization of the marl layers of the kef\_essnoun mine material for use in pavement construction and the core of dams**

Rachida Malaoui, Adel Djellali

**ID 519: Classification and Geochemical Evaluation of Al Masane Cu-Zn Mine**

Abidin Ugur Yucel, Ozcan Dumanlilar, Behzat Ersen Sahindur, Recep Yasar, Ali Hakim Kurt, Idzel Torreda Demetillo, Mikhail Jetro Montes, Ridvan Ata

**Session: T1-PS2 / Screen-1 / E-poster Hall / 4 Mar 11:00~12:30**

**Program session chair: Pasi Kustaa Eilu**

**ID 94: Late Neoproterozoic adakitic lavas in the Arabian-Nubian shield, Sinai Peninsula, Egypt**

Khaled Abdelfadil, Mohamed Obeid, Mokhles Azer, Paul Asimow

**ID 96: Stream sediment geochemical exploration for rare metals in an arid environment: an example from the Hamadat area (Opposite side of Tabuk in KSA), Eastern Desert of Egypt**

Ahmed El-kammar, Mostafa Elwakil, Yasser Abdel Rahman, Mohamed Fathy

**ID 109: Geology and geochemistry of the Neoproterozoic petrotectonic assemblages of the Arabian-Nubian Shield: Special reference to the Eastern Desert of Egypt**

Gaafar El Bahariya

**ID 124: Effect of Potassium Saturation of the Mineralogical Composition and Ceramic Properties of Some Egyptian Smectitic Clays**

Ahmed Mohamed

**ID 125: Arc volcanics and their plutonic equivalents of Wadi Hamash area, northern Arabian-Nubian Shield: Magma composition and generation during evolution of Neoproterozoic island arcs**

Moustafa Gharib

**ID 149: Zircon U-Pb geochronology, Hf isotope and elemental geochemistry constraints on the origin of El DairA-type granite from the SW Arabian-Nubian Shield, Sudan**

Mohammed Abdallsamed, Mushaal Salih, Wang Lian-xun, Hassan Mustafa, Hafizullah Ahmed, Asim Al Mansur

**ID 153: Gold resources from clastic Paleozoic rocks and their link with underlying Pre-Cambrian rocks, Southern Sinai, Egypt**

Elsayed Ahmed Saber Ibrahim

**ID 450: Geology, Mineralogy and Pb isotope of Bechater Zinc-Lead Deposit, Nappe Zone, Northern Tunisia**

Jaloul Bejaoui, Angela Baldanza, Ahmed Sellami

**ID 496: The application of 2D electrical resistivity tomography to map underground cracks: the case of the landslide of Kef Essenoun phosphate deposit, (northeast of Algeria)**

Ismail Nouioua, Abdelhak Tabet, Djamel Boubaya

**Session: T1-PS3 / Screen-1 / E-poster Hall / 4 Mar 14:00~15:30**

**Program session chair: Ahmed Abdelfattah Radwan**

**ID 155: Methods of Ore Pretreatment for Comminution Energy Reduction**

Sefiu Adewuyi, Hussin Ahmed, Haitham Ahmed

**ID 174: GEOCHEMISTRY AND FLUID INCLUSIONS studies in NE ALGERIAN MVT (Lead-zinc) MINERALISATION**

Abdelhak Boutaleb, Omar Haddouche, Djamel Eddine Aissa, Omar Kolli, Lounis Sami, Farouk Lekbal, Haroun Ferkous, Imene Benhamoud, Tarek Zerouki, Abou Lyakdan Bakelli, Nabyl Bouchilaoun

**ID 178: Gold and base metal potentialities in the stream sediments around Wadi Ras Abda area, North Eastern Desert, Egypt**

Fatma Ramadan, Ali Omran, Hisham Nahas, Mohamed Hassan

**ID 180: Geostatistical and Monte Carlo simulation in the mineral resources estimation**

Messaoud Mazari, Salima Chabou-mostefai, Abderrahim Bali, Badreddine Chemali

**ID 192: Decreasing the Phosphorus Content of Oolitic Hematite iron ore by - Roasting and Acidic Solution Leaching, El Bagrawia Area, Sudan**

Maaz Ali

**ID 216: Geo-mining study for a new iron ore deposit -Ain Zezia-Boukhadra mine ( Algérie)**

Fella Zenati, Adel Djellali

**ID 239: Phosphate rocks as potential source for critical rare earth elements**

Mariem Bouabdallah, Karima Horchani-naifer

**ID 362: Geotechnical characterization of limestone quarry of the Elma Labiod region, northeastern Algeria**

Dounia Amrani, Adel Djellali

**ID 385: Stability analysis of the rooms- and -pillars method of the mine Sig Algeria, by analytical and numerical methods**

Abdessattar Lamamra, Vitaly Andreevich Eremenko

**ID 411: Building geospatial data-base for gold prospects in the Eastern Desert of Egypt using remotely-sensed data and GIS**

Mamdouh Abdeen

**ID 511: Monitoring of ground deformation using Geotechnical investigation and SAR interferometry techniques, Ismailia district, Suez Canal Province, Egypt**

Ahmed Hegazi, Tarek Seleem, Amira Zaki

**ID 517: The Geochemistry of Jabal Guyan Gold Deposit Related to Shear Zone**

Akhil Kumar Kornath

**ID 520: Deep Mixing Technique for Soft Clay Soil: A Review**

Mohamed Sakr, Mostafa Elsaywaf, Ahmed Rabah

**Session: T1-PS4 / Screen-1 / E-poster Hall / 4 Mar 16:00~17:00**

**Program session chair: Basem Zoheir**

**ID 240: Palaeomagnetism of Bahariya iron ores and their genetic implications, North Western Desert, Egypt**

Ahmed Awad, Ahmed Khashaba, Ibrahim Elhemaly

**ID 241: Geophysical methods as a useful tool in mining exploration: case study of phosphates exploration in Tunisia**

Ramdhane Benassi

**ID 277: Geology and natural resources of the west (Algeria).**

Mohammed Mahmoudi

**ID 287: Application of nuclear techniques of uraniferous black shale in the Daia Mountains and Tanezrouft region (Hoggar).**

Naciba Barça, Abdelhak Boutaleb

**ID 288: Geological and Engineering assessment of white sand and sand dunes as frac sand for enhanced the productivity of oil wells**

Mohamed Gaber, Gamal Ibrahim

**ID 292: Compressive Study to Improve Swelling Soil by Using Geofoam Technique**

Gihan E.abdelrahman, Mohamed N.hosni, Walaa E.mohammed

## **Track 2: Stratigraphy, Sedimentology, Basin analysis and Petroleum systems**





**Session: T2-OS1 / Hall B / 3 Mar 09:30~10:30**

**Program session chair: Mohammed Eesa Aldabbagh**

**ID 28: Quality Assessment for Hydrocarbon Reservoirs using Mercury Injection Capillary Pressure (MICP) Tests**

Bassem Ibrahim

**ID 68: Depositional environments and Sequence Architecture of the Paleocene/Eocene succession around Um El Huwaitat area, southwest Safaga, Eastern Desert, Egypt**

Tarek Anan, Abdalla Shahin

**ID 72: Carbon isotope stratigraphy, planktonic foraminiferal biostratigraphy and bioevents of the Campanian-Maastrichtian succession at Gebel Nezzazat, southwestern Sinai, Egypt.**

Abdalla Shahin

**ID 105: Assessment of Unconventional Reservoirs of the Middle Jurassic Upper Safa Shales in the Egyptian Northern Western Desert.**

Esam Mohamed, Walid Mohamed, Mohamed Alsaqqa

**Session: T2-OS2 / Hall B / 3 Mar 11:00~12:30**

**Program session chair: Mohammed S. Fnais**

**ID 117: Formation Damage Diagnosis, Application on Hammam Faraun Reservoir: A Case Study, Gulf of Suez, Egypt**

Ahmed Radwan, Abdelbaset Abudeif, Mohsen Attia

**ID 138: Inorganic geochemistry of Miocene sediments from the lower Chelif Basin (NW Algeria): Weathering and provenance**

Fatiha Hadji, Abbas Marok, Ali Mokhtar-samet

**ID 158: A new insight into the Biostratigraphical and chronological relation of Usfan and Haddat Asham formations, west central Saudi Arabia**

Mohammad Gameil, Ali Mesaed, Rayan Thiga

**ID 194: Microbial To Evaporitic Facies Changes From Hypersaline, Coastal Lagoon To Solar Saltworks, Dahaban Area, Red Sea, Saudi Arabia**

Mahmoud Aref, Ammar Mannaa, Rushdi Taj

**ID 200: Provenance, tectonic setting and source area-paleoweathering of sandstones of the Bahariya Formation (Early Cenomanian) in Bahariya Oases, Egypt: Petrographic and geochemical constrains**

Hamdalla Wanas, Ehab Assal

**ID 269: Impact of the sea level and climate on the distribution of diagenetic minerals of the coarse-grained, deltaic progradational and aggradational sequences: Evidence from the Miocene Abu Alaqa group, east Gulf of Suez, Egypt**

Essam Elkhoriby, Osama Hlal, Sadoon Morad

**Session: T2-OS3 / Hall B / 3 Mar 14:00~15:30**

**Program session chair: Saleh I. Qaysi**

**ID 205: MACROBIOSTRATIGRAPHY OF THE UPPER CRETACEOUS – LOWER PALEOGENE SUCCESSION IN WASIF AREA, SAFAGA DISTRICT, EASTERN DESERT, EGYPT AND A NOTE ON THE OCCURRENCE OF THE AMMONITE GENUS EULOPHOCERAS HYATT, 1903 IN EGYPT**

Abdel Galil Hewaidy

**ID 207: Factors controlling the relative sea-level changes during the Upper Cretaceous-Lower Paleogene time in Kharga Oasis-Western Desert-Egypt: Evidences from foraminiferal analyses**

Abdel Galil Hewaidy, Youssef Bazeen

**ID 244: Abortion of Liassic carbonate platform in process of continentalization (Ouarsenis Mountains, NW Algeria): palaeoclimatic and palaeogeographic implications**

Miloud Benhamou, Salim Belkhedim, Nouredine Boualem

**ID 254: Sequence Stratigraphy and Hydrocarbon Potentialities of Eromanga Basin, Australia using 3D Seismic and Well Logs Data.**

Raad Tayeb, Faisal Alqahtani, Mohammed Khalil

**ID 295: Sequence Stratigraphy and depositional environments of the Subsurface Middle Eocene to Quaternary Succession, Red Sea Coast, Jeddah, Saudi Arabia**

Ali Al Zahrani, D. Mohammed Khalil, D. Faisal Al Qahtani

**ID 381: Biomarker characterization of Cenozoic Coals of Sarawak Basin, Malaysia: Implications for thermal maturity, petroleum source potential and depositional conditions**

Lanre Asiwaju, Wan-hasiah Abdullah, Khairul-azlan Mustapha

**Session: T2-OS4 / Hall B / 3 Mar 16:00~17:00**

**Program session chair: Biswajeet Pradhan**

**ID 309: Sedimentology of fluvial and tidal dominated Ordovician Siliciclastic Barik Formation outcrops in Huqf area, Central Oman**

Iftikhar Ahmed Abbasi, Mohamed El Ghali, Olga Sheluhina, Abdulrahman Al Harthy

**ID 311: Integrated palynological, geochemical, and well logging analyses to evaluate the source rock potential of the Middle Jurassic upper Khatatba Formation in Matruh Basin, northwestern Egypt**

Amr Deaf, Abubakr Maky, Awad Omran, Eman Zain El-arab

**ID 316: Organic matter input and sedimentary environmental conditions of the Lower Cretaceous shale sediments in the Orange Basin, South Africa**

Nura Abdulmumini Yelwa, Khairul Azlan Mustapha, Wan Hasiah Abdullah, Mohammed Hail Hakimi, Mimonitu Opuwari

**ID 359: Poly-histories of Matarombeo Basin, South-east Arm of Sulawesi, Indonesia**

Saptono Budi Samodra, Sugeng Sapto Surjono, Donatus Hendra Amijaya, Wiwit Suryanto

**Session: T2-OS5 / Hall B / 4 Mar 09:30~10:30**

**Program session chair: Kamal Abdelrahman Hassanein**

**ID 401: Description of new fossil material of *Rhinoceros sivalensis* (Rhinocerotidae, Mammalia) from Tatrot Formation, Upper Siwaliks of Pakistan**

Abdul Majid Khan

**ID 405: Rhinocerotids as Ecologically Most Successful Siwalik Ungulates: Enamel Hypoplasia based Implication**

Rana Manzoor Ahmad, Abdul Majid Khan, Amtur Rafeh, Muhammad Tahir Waseem, Ghazala Roohi

**ID 409: Analog comparison of petroleum elements and oil seepage in Borno (Chad) Basin, North-Eastern Nigeria**

Kabir Shola Ahmed

**ID 507: Diagenesis signatures as an indicator for subaerial erosion and transgressive surfaces: An example from the bounding surface between the Cambrian Amin and Miqrat formations, Sultanate of Oman**

Mohamed El-ghali, Olga Shelukhina, Iftikhar Abbasi, Maryam Harrasi, Osman Hersi, Abdulrazak Al-sayigh, Bader Al Waili

**Session: T2-PS1 / Screen-2 / E-poster Hall / 4 Mar 14:00~15:30**

**Program session chair: Hassan S. Naji**

**ID 7: New Record of The Cenomanian –Turonian Succession In The Quseir Region of Red Sea , Egypt.**

Reda Elgammal, Orabi Orabi

**ID 9: A new contribution : Coniacian-late Campanian Planktonic Events in the Duwi Formation, Red Sea Region, Egypt.**

Reda Elgammal, Orabi Orabi

**ID 41: Nannofossil biostratigraphy and paleoecology of the upper Campanian / Maastrichtian succession in Wadi Qena, Eastern Desert, Egypt**

Medhat Mandur, Sherif Farouk

**ID 65: Stratigraphic trapping opportunity in Upper Silurian- Lower Devonian (F6reservoir) of the Ahara spur field (south-east of the Algerian Sahara).**

Amel Belkacemi, Rachid Hamdidouche, Amar Asses, Belkacem Kadi

**ID 93: Palynology and Palynofacies Analysis Applications to the Hydrocarbon Exploration in the MENA Region**

Haytham El Atfy, Bandar Ghassal, Dieter Uhl

**ID 104: Analysis of hydro-sedimentary balance using ANSWER model of Mellegue-2 Dam (Tunisia)**

Olfa Hajji, Nader Ben Rhouma, Sahar Abidi, Lamia Laajili Ghezal

**ID 116: Geopressure Evaluation Using Integrated Basin Modelling, Well-Logging and Reservoir Data Analysis in Gulf of Suez, Egypt.**

Ahmed Radwan, Abdelbaset Abudeif, Mohsen Attia

**ID 132: Paleomagnetism of Bahariya Iron Ores and their Genetic Implications, North Western Desert, Egypt**

Ahmed Awad, Ahmed Khashaba, Esmat Abdelaal, Hassan El-shayeb, Ahmed Khalil, Ibrahim El-hemaly

**ID 485: CONTRIBUTION OF NMR TECHNOLOGY TO PETROPHYSICAL EVALUATION OF THE NEZZAZAT RESERVOIRS IN CENTRAL PROVINCE, GULF OF SUEZ, EGYPT**

Nader El-gendy, Moataz Barakat

**Session: T2-PS2 / Screen-2 / E-poster Hall / 4 Mar 16:00~17:00**

**Program session chair: Kehinde Ishola**

**ID 143: Oligocene ostracods biostratigraphy and paleoenvironmental implications of North Western Desert, Egypt**

Sherif Farouk, Mohamed Ahmed

**ID 161: Contribution towards the porous medium fluid characterization, using Wireline Formation Tester (MDT / RFT / XPT) support from hydraulic parameters determination: Case Study from Algeria**

Housseme Eddine Belhouchet, Mohammed Said Benzagouta, Abdelmadjid Dobbi, El Hadi Mazouz, Nada Achi, Joelle Duplaye, Mohamed Khodja

**ID 166: Effect of halite on petrophysical properties of TAGS reservoir - Toual field (SE Algeria): Prediction from well logs and core measurements.**

El Hadi Mazouz, Mohammed Said Benzagouta, El Hadj Youcef Brahim, Houssemeddine Belhouchet

**ID 179: Early Cretaceous bivalves from the Asfer Group of the Tataouine basin (Southern Tunisia) and their bearing on the age and regional correlation**

Kamel Boukhalfa

**ID 206: Integration geochemical data and burial history models to evaluate the Cretaceous source rocks of Khalda Concession in Abu Gharadig Basin of North Western Desert, Egypt**

Zakaria Abd-allah, Mohamed El-sayed, Mohamed Elbastawesy, Abdelrahman Salama

**ID 237: Palaeoenvironmental changes across the Paleocene/Eocene (P/E) boundary in north Wadi Qena, Eastern Desert, Egypt: mineralogical and geochemical confirmations**

Mamdouh Farrag Soliman

**Session: T2-PS3 / Screen-2 / E-poster Hall / 5 Mar 09:30~10:30**

**Program session chair: Mohamed Abdussamad**

**ID 242: Foraminiferal chronostratigraphy of the Maastrichtian successions in northern Tunisia**

Ezzedine Saïdi, Dalila Zaghib-turki

**ID 270: Reasons of good petrophysical characteristics (porosity and permeability) of the Trias Argilo- Gréseux Superieur (Triassic Upper Sandstone Clayey) hydrocarbons reservoir in Rhourde Nous field, Eastern Algerian Sahara**

Merzouk Zatout

**ID 298: PETROLOGY AND GEOCHEMISTRY OF THE AZ ZABIRAH SOUTH ZONE BAUXITE DEPOSIT, NORTH-CENTRAL SAUDI ARABIA**

Mahmoud Galmed, Madyan Yahya, Hisham Gahlan, Khaled Al Kahtany, Paul Asimow

**ID 336: The Paleocene/Eocene thermal maximum event (PETME) in Egypt**

Nageh Obaidalla

**ID 361: The Prospect of Kanikeh Formation as A Mesozoic Petroleum System in Central – Eastern Seram, Indonesia**

Sugeng Sapto Surjono, Desi Kumala Isnani

**ID 363: Total Organic Carbon Prediction in shale oil reservoirs using neural network with an application to Bakken Oil, USA**

Leila Aliouane, Sid-ali Ouadfeul, Amar Boudella

**Session: T2-PS4 / Screen-2 / E-poster Hall / 5 Mar 11:00~12:30**

**Program session chair: Timo Tarvainen**

**ID 371: Petrology and chemo-stratigraphy in Bahariya formation, North Western Desert, Egypt**

Gamal Attia

**ID 379: Geochemical Characterisation of the Awgu Formation from the Lower Benue Trough, Nigeria**

Mutiu Adeleye, Busola Buachie, Mutari Lawal

**ID 391: Sedimentological, Petrographical and Petrophysical controls on Reservoir Heterogeneity and Quality, the Late Ordovician Sarah Formation, NW Saudi Arabia.**

Mohammad Islam, Osman Abdullatif, Mohammad Makkawi, Sanlinn Kaka, Mohamed Yassin, Mutasim Osman

**ID 395: Biostratigraphic and Paleoecological study of Upper Cretaceous benthic fauna in Central Tunisia: Kasserine region**

Olfa Feriani, Zaineb Elamri, Sherif Farouk **ID 397: 3D seismic interpretation and well log analysis of Maui Field, Taranaki Basin, New Zealand.**

Mohammed Ahmed, Faisal Alqahtani, Hassan Naji

**ID 416: Direct in-situ U-Pb carbonate geochronology of the Late Neoproterozoic Kharus Formation, Jabal Akhdar, Northern Oman**

Mohamed El-ghali, Osman Hersi, Iftikhar Abbasi, Hezam Al Awah

**ID 429: The Jurassic of the southern Setifian platform (Ne Algerian): tectono-sedimentary evolution and paleoenvironments**

El Hadj Youcef Brahim, Mohammed Chadi, El Hadi Mazouz, Mohammed Said Benzagouta, Rami Djeflal

**ID 439: Source-rock characteristics of the Silurian Qusaiba shales from outcropping in the, Central Saudi Arabia: implication for oxidation and leaching of organic matter**

Mohammed Hakimi, Ali Kahal, Madyan Yahya, Abdulaziz Laboun, Khairul Zlanmustapha, Adel Al-johi

**ID 452: THE SABKHAS OF THE SOUTH CONSTANTINOIS: SEDIMENTOLOGICAL AND GEOCHEMISTRY STUDY (NE ALGERIA)**

Ramdane Marmi, Hanan Bouziane





## **Track 3: Hydrology, Environmental and Engineering Geology**

**Session: T3-OS1 / Hall C / 3 Mar 09:30~10:30**

**Program session chair: Hazem Al-otaibi**

**ID 45: Sonic wave measurements of soil materials at different depths as quality control of strength parameters.**

Ali Ismail Mohamed Ismail

**ID 77: INTEGRATION OF GEOGRAPHICAL INFORMATION SYSTEM, REMOTE SENSING, AND WATERSHED MODELING TO EVALUATE RAINWATER HARVESTING POTENTIALITIES IN WADI DAHAB, SOUTH SINAI**

Hossam Hamdy Elewa, Ahmed Mohamed Mahmud Nosair

**ID 79: Regeneration of the Spent Bleaching Earth of edible oil for the Efficient Removal of Heavy Metal Ions (As, Al, Mn and Fe).**

Ibrahim Mousa, Khalid Elnaggar, Manal Abdel-rahman

**ID 88: Changing trends in extreme rainfall in Macta watershed (Northwestern Algeria)**

Benali Benzater, Abdelkader Elouissi, Boumediene Benaricha, Mohammed Habi

**ID 524: Air Quality “Air Samples Analysis”**

Fayroz Basmer

**Session: T3-OS2 / Hall C / 3 Mar 11:00~12:30**

**Program session chair: Mansour Alhumimidi**

**ID 129: Utilization of micro metakaolin to improve the swelling potential of expansive soil**

Mohamed Sakr, Wasiem Azzam, Mohamed Meguid, Hebatalla Ghoneim

**ID 134: Detailed geophysical and hydro-geochemical studies on Hammam Faroun geothermal site, Gulf of Suez, Sinai, Egypt**

Elarabi Shendi, Mona Kayser, Mohamed Geriesh, Mohamed Abdel Fattah, Eslam Nagi

**ID 137: Assessment of water quality and Nitrate source in the Massa catchment (Morocco) using  $\delta^{15}\text{N}$  and  $\delta^{18}\text{O}$  tracers.**

Saadou Oumarou Danni

**ID 144: Hydro-environmental Hazards Impact Assessment of Urbanization Development at the Suez Canal Corridor Area, Egypt**

Mohamed Helmi Geriesh, El-arabi Shendi, Mohamed Arnous, Basma Mansour, El-sayed .  
Abu El Ella

**ID 154: Integrated the hydrologic data for water resources assessment in arid area: Al Wag basin, Southwest Sinai, Egypt.**

Sayed Mosaad

**ID 198: Magnetic susceptibility application as an index of soil pollution in the Sra Abdel Kader's (Tissmisilt-Algeria) area.**

Lynda Attoucheik, Said Maouche, Neli Jordanova, Diana Jordanova, France Lagroix, Bernard Henry, Mohamed El Messaoud Derder

**Session: T3-OS3 / Hall C / 3 Mar 14:00~15:30**

**Program session chair: Salah Mahmoud**

**ID 214: A multi-isotope approach to trace salinization in the lower valley of Wadi Medjerda aquifer, Tunisia**

Mohamed Fethi Ben Hamouda, Jamila Tarhouni, Diego Fernandez, Kip Solomon, Ioannis Matiatos

**ID 235: Electrical Resistivity Measurements using Non-Destructive Electrodes: A Significant Contributions to the Applications of Electrical Resistivity in Near Surface Geophysics**

Gamal Abdelaal, Mahmoud Senosy, Reem Husien

**ID 265: Geophysical, LiDAR and Drone Based Research Methods for Mapping Weakness Structures in Crystalline Bedrock - Sample Cases from Southern Finland**

Taija Huotari, Tuija Elminen, Heidi Laxström, Nicklas Nordbäck

**ID 274: Assessment of salt damage based on crystallization test due to high groundwater level in the Sandstone Monuments, Luxor, Egypt**

Raafat Hosien

**ID 279: Chemical and radiological investigations of the groundwater in the Quaternary aquifer in Upper Egypt, Qena, Egypt**

Ahmed Refaee, Abdel Mawgoud Mohammed, Shaban Harb, Gamal Kamal El-din

**ID 286: Geotechnical characterization of Durri Formation rock units between Km 18 and Km 40 along Qena-Safaga Road, Egypt**

Ahmed Ibrahim Ahmed

**Session: T3-OS4 / Hall C / 3 Mar 16:00~17:00**

**Program session chair: Hussain Jaber Alfaifi**

**ID 314: Flash flood hazard mapping based on GIS and rainfall data: A case study of Wadi Bisha, Kingdom of Saudi Arabia**

Maysa Taha, Samah El-barbary, Mansour Al-hashim

**ID 319: A General differential split-sample test to evaluate hydrological model transferability under climate variability**

Hamouda Dakhlaoui, Denis Ruelland, Yves Trambly

**ID 337: Integrated approach of direct current resistivity (DCR) measurements and hydrochemistry for monitoring wastewater penetration to groundwater aquifer: A case**

**study at West Nile Delta, Egypt.**

Amr Abd El-raouf, Osman Osman

**ID 338: Reactions Between Leachate And Possible Clay Types**

Ibrahim Adewuyi Oyediran, David Ayodele Olalusi

**Session: T3-PS1 / Screen-3 / E-poster Hall / 3 Mar 16:00~17:00**

**Program session chair: Hussein M. A. Harbi**

**ID 11: INTEGRATED GROUNDWATER CONTAMINATION ASSESSMENT OF TERTIARY VOLCANIC AQUIFER, IBB BASIN, YEMEN**

Ahmed El-rayes

**ID 23: Quality Assessment of Shallow Groundwater for irrigation purposes in Tadjenamet – Chelghoum Laid area (Eastern Algeria)**

Abdelhamid Khedidja, Tarek Drias Drias, Samir Djenba

**ID 40: Evaluate the Groundwater Potentiality Using Hydrogeological and Geophysical Studies at Beni-Suef District, Egypt**

Radwa Mohamed, Esam Ismail

**ID 52: Hydrogeochemical Characteristics of the groundwater at the Quaternary aquifer in the Western fringes of El Minia Governorate, Egypt using an integration of geochemical modeling and geo-statistical techniques**

Esam Ismail, Rafat Zaki, Nada Rapantova, Monika Licbinska

**ID 83: Geochemical assessment of the aquifer and hydrological characteristics in Assir region, southwest Saudi Arabia**

Mohamed Elkashouty, Aiman Aziz

**ID 101: Groundwater resources management from the pink-colored expectation to the tough reality: The Bouhefna-Haffouz aquifer system case study (Central Tunisia)**

Hamza Jerbi, Sylvain Massuel, Jeanne Riaux, Christain Leduc, Jamila Tarhouni

**ID 454: Study of the elimination of methylene blue by a local biosorbent**

Djedid Mebrouk, Guermit Mounira, Benalia Mokhtar, Ad Chifaa, Boudaoud Asma, Bensafeddine Fatiha, Soltani Amel, Elmsellem Hicham

**ID 495: The impact of new Assiut barrage construction on the groundwater situation of the Quaternary aquifer in Assiut, Egypt, predicted from GIS numerical modeling**

Waleed El Tahawy, Awad Omran, Ahmed Sefelnasr, Hassan Abdel-hak

**ID 509: Relationship between groundwater mineralization and variation of piezometry. Case of the Terminal Complex (CT) aquifer in the Oued Souf region in southern Algeria**

Nafaa Brinis, Mahfoud Mesameche, Seghiri Mohamed Lamine

**Session: T3-OS5 / Hall C / 4 Mar 09:30~10:30**

**Program session chair: Ali El-khadragy**

**ID 343: Geochemical baselines within geochemical provinces and around mining areas in Finland**

Timo Tarvainen, Tarja Hatakka, Mikael Eklund

**ID 349: Relation between flash flood recharge and trace metal pollution in the coastal aquifer - Wadi Baysh Basin, Western Saudi Arabia**

Jalal M. Basahi, Milad H. Z. Masoud, Rajmohan Natarajan

**ID 376: Evaluation of nitrate pollution sources using nitrogen and oxygen isotopes approach in the groundwater of Al-Kharj area in central Saudi Arabia**

Abid Khogali, Abdulaziz Al-shaibani, Bassam Tawabini, Mohammad Makkawi, Luis González, Martin Keller

**ID 377: Application of Geophysical and Geostatistical Techniques in Quantification of Leachate Downstream of Landfill Sites in Penang, Peninsular Malaysia**

Kehinde Ishola, Abdullahi Abdulrahman, Mohd Nawawi, Amin Khalil, Taiwo Owolabi

**Session: T3-PS2 / Screen-3 / E-poster Hall / 4 Mar 09:30~10:30**

**Program session chair: Abdullah Abdulaziz Sabtan**

**ID 107: Chemical Desorption of Cadmium Ions from Dry Palm fibers**

Asma Boudaoud, Mebrouk Djedid, Chifaa Ad, Mokhtar Benalia, Mounira Guermit, Amel Soltani, Hicham Elmsellem

**ID 122: Stability assessment of Djebel Onk open pit phosphate mine using SMR and limit equilibrium methods, Bir El Ater, Tebessa, Algeria**

Abderrahmane Boumezbeur, Sara Bouziane

**ID 185: Reuse of mining wastes for stabilization of swelling soils**

Adel Djellali, Mouna Djellali, Fella Zenati

**ID 201: Utilization of lime columns for improving the soft clay- State of the art**

Mohamed Sakr, Mostafa Elsayaf, Wasiem Azzam, Esraa Eldisouky

**ID 222: Environmental Impact of Land Use(LU)/Land cover(LC) Changes on Development at the Suez Canal Corridor Area, Egypt**

Elsayed Abu El Ella, Mohamed Geriesh, El-arabi Shendi, Mohamed Arnous, Basma Mansour Mansour

**ID 226: Kinetics and thermodynamics of fluoride adsorption onto clay**

Sami Guiza, Francois Brouers, Mohamed Bagane

**Session: T3-OS6 / Hall C / 4 Mar 11:00~12:30**

**Program session chair: Fadi Henri Nader**

**ID 407: A Geographic Information System (GIS) for assessing the vulnerability of the aquifer subject to the semi-arid Mediterranean climate: case of the plain of Garaet Tarf (North East Algeria)**

Mahrez Boulabeiz, Laiche Aouidane

**ID 417: Application of Sen's innovative procedure on rainfall (Macta watershed - Algeria)**

Abdelkader Elouissi, Mohammed Habi, Benali Benzater, Boumedienne Benaricha, Oumria Ouafrih

**ID 422: Application of Electromagnetic and Electrical Resistivity Methods for Assessing Groundwater Potential in a Crystalline Basement, Southwest Nigeria**

Lukumon Adeoti, Olatunji Olawale, Rafiu Adegbola, Saheed Ishola, Taiwo Oyeniran, Oluwakemi Adeogun, Olawale Allo, Joshua Ademilola, Solomon Matthew

**ID 430: Effects of univariate and multivariate bias correction on hydrological projections in northern Tunisia**

Oussama Bellil, Hammouda Dakhlaoui

**ID 459: Hydrological Studies and Conceptual Design of New Proposed Underground Dams in Southwestern Region; Saudi Arabia**

Yousry Mattar, Metib Al Qahtani

**ID 177: Kinetic studies for the biosorption of nickel in aqueous solution by Pseudomonas sp. immobilized on Loofa Sponge**

Chifaa Ad, Ranya Amer, Tarek Taha, Nermine Nasser, Mebrouk Djedid, Asma Boudaoud, Mokhtar Mokhtar Benalia, Hichamm Elmsellem

**Session: T3-PS3 / Screen-3 / E-poster Hall / 4 Mar 11:00~12:30**

**Program session chair: Yahya M. Tarabulsi**

**ID 245: Groundwater Quality classification based on Banaga Water Crystal Diagram: An Innovative Approach**

Ahmed Elhag, Ahmed Babeker Elhag College Of Engineering

**ID 278: Wastewater Quality Assessment of Aïn Témouchent WWTP (NW, Algeria) for Irrigation purpose using CCME-WQI**

Fatiha Hadji, Bachir Hallouche, Khadidja Benzine

**ID 289: Spatialized estimation of the soil water holding capacity from the thermal infrared satellite data: case of the Mascara plain (Western Algeria)**

Abderrahmane Hamimed, Abdelkader Khaldi, Mansour Zaagane, Habib Azzaz

**ID 291: Impact of heavy metals on the engineering properties of the smectite clays of the volcanic basins of Western Algeria**

Salim Kouloughli, Mehdi Dib

**ID 301: Assessment of Groundwater Quality for Drinking and Irrigation Uses for El-Minia Governorate, Egypt**

Mustafa El-rawy, Ali Salem, Aya Hosny

**ID 323: Deep Fluid Inputs into the Continental-Scale Nubian Aquifer Constrained by Hydrochemical, Stable Isotope, and Noble Gas Data**

Abdel Mawgoud Mohammed, Abdel Mawgoud Mohammed, Laura Crossey, Karl Karlstrom, R.v Krishnamurthy, Alan Kehew

**ID 334: Assessment of sanitary landfill sites by using different geophysical tools: A case study in Egypt.**

Shokry Soliman, Sultan Araffa, Ahmed El-khafif, Tarek Shazley

**ID 340: Hydrogeochemistry and fluoride contamination in the groundwater of Al-Dhala Qa'tabah Basin, Al-Dhala Governorate, Yemen**

Srinivas Pokkunuri, Abdul Mosen Al Amry

**ID 348: Developing envelope curve for extreme Rainfall Events in the Saudi Arabia arid environment**

Hatem A. Ewea, Amro M. Elfeki, Nassir S. Al-amr, Jarbou A. Bahrawi

**Session: T3-PS4 / Screen-3 / E-poster Hall / 4 Mar 14:00~15:30**

**Program session chair: Hosni Ghazala**

**ID 352: Evaluation of physicochemical and heavy metals characteristics in surface water under anthropogenic activities using multivariate statistical methods, Garra River, Ganges Basin (India)**

Mohd Yawar Ali Khan

**ID 365: Evaluation of groundwater quality in Sohag governorate, Upper Egypt.**

Ashraf Embaby, Mohamed Hassan

**ID 366: Quality assessment of treated desalinated seawater: the cases of Souk Tlata and Honaine plants (NW, Algeria)**

Naima Badid, Abou Bakr Hachemaoui, Fatiha Hadji, Abderrazzak Atallah

**ID 370: Comparative Effect of Microbial Induced Calcite Precipitate, Cement and Rice Husk Ash on the Geotechnical Properties of Lateritic Soils**

Ibrahim Adewuyi Oyediran, Oladunni Olufunmi Ayeni

**ID 378: Identification and Characterization of Swelling Soils in Tebessa area (Algeria).**

Yacine Berrah, Serhane Brahmi, Nouar Charef, Abderrahmane Boumezbeur

**ID 400: Hydrochemical characteristics and groundwater quality assessment in Aïn Témouchent region (NW, Algeria)**

Bachir Hallouche, Fatiha Hadji, Abbas Marok, Zahra Benkhamallah

**ID 402: A GIS-based DRASTIC model for assessing aquifer vulnerability. Case study of Biskra wadi - (South-eastern Algeria)**

Tarek Drias, Abdelmajid Boufekane, Abdelhamid Khedidja

**ID 408: A "AHP" method based Spatialization of Water erosion in the High Valley of the Medjerda (Eastern Algeria)**

Moufida Belloula, Hadda Dridi

**ID 523: An integrated approach to study the waterlogging and groundwater quality degradation: a case from the new developed lands, north the Upper Egypt**

Mahmoud Mostafa Khalil, Mohamed Hassan Farag, Mostafa Rabei, Henning Froellje, Kay Hamer, Thomas Pichler



**Session: T3-PS5 / Screen-3 / E-poster Hall / 5 Mar 09:30~10:30**

**Program session chair: Samia Ibrahim**

**ID 428: Approche d'une gestion intégrée des eaux souterraines sous un climat semi aride, cas de la plaine Zana-Gadaïne (Est Algérien)**

Halima Belalite, Mohamed Redha Menani, Ali Athamena

**ID 432: Geoenvironmental Impact of Sinkholes in Sabkha Soil Along the North Coast of Egypt: A Case Study**

Mohamed Sakr, Abdel-moniem Abd El-hameed Abd El-hameed

**ID 441: Electrical Resistivity Tomography Study of Water Seepage in the Student University City Area, Wadi Halfa, Sudan**

Mohamed A. Mohamed-ali, Muhannad H. Ork Eldin

**ID 442: Application of electrical resistivity tomography and hydro-chemical analysis for an integrated environmental assessment**

Imen Hamdi Nasr, Abdelwahab Aydi, Amel Mhimdi, Wissal Issaoui, Achref Chaabane

**ID 447: Nutritional concerns of essential minerals in treated water of two desalination seawater plants**

Naima Badid, Fatiha Hadji, Abou Bakr Hachemaoui, Abderrazzak Atallah

**ID 425: Evaluation underground water storage around Lake Nasser using GRACE mascon solution**

Khalid Zahran



## **Track 4: Structural Geology, Tectonics, and Geodynamics**

**Session: T4-PS1 / Screen-1 / E-poster Hall / 3 Mar 11:00~12:30**

**Program session chair: Mounir Medhioub**

**ID 42: Field- and Landsat-based mapping of the Pan-African Shear Zones in the Arabian-Nubian Shield: example from Atalla Shear Zone, central Eastern Desert, Egypt**

Zakaria Hamimi, Wael Hagag, Samir Kamh, Safaa Hasan, Asmaa El-araby

**ID 44: Neoproterozoic deformation of the northwestern Arabian-Nubian Shield: Insights from Najd Shear-related El-Shalul Dome (Central Eastern Desert, Egypt)**

Wael Hagag, Zakaria Hamimi, Amr Khalil

**ID 60: Current Motion of the Suez-Sinai area from combined GPS velocity field**

Grazia Pietrantonio, Roberto Devoti, Salah Mahmoud

**ID 189: New evidence of Neogene-Quaternary extensional tectonic described in Northern Tunisia : origin and consequences**

Ramzi Azizi, Nouredine Mahmoudi, Lassaad Chihi

**ID 224: Mineralogy and Geochemistry of Garnet-bearing Granitoids from North-Western Arabian belt: Implications for Petrogenesis and Tectonic Setting**

Mahmoud Hassan, Tamer Abu-alam

**ID 458: Detecting and extracting automatic geological lineaments using Sentinel 1 satellite remote sensing data: A Case Study in the Metlaoui Region in Southern Tunisia..**

Slim Aliouet, Kamel Soudani, Fetheddine Melki

**ID 516: Polyphase history and kinematics of fault-propagation folds in the External Areas of the Maghreb belt, Case Study: Eastren Algeria**

El Hadj Youcef Brahim, Mohammed Chadi, Ramdane Marmi, Abdelkader Khiari, El Hadi Mazouz, Mohammed Said Benzagouta, Rami Djefal

**ID 522: Fracture network and karst system distribution in the tabular Middle Atlas, Morocco**

Hmidou El Ouardi

**Session: T4-OS1 / Hall B / 4 Mar 14:00~15:30**

**Program session chair: Sébastien Rohais**

**ID 51: Tectonic geomorphology development of Wadi Al Batin strike-slip fault**

Abdullah Bamousa, Ali Al Ghamdi, Ali Al Zahrani, Abdulaziz Nasser

**ID 14: TECTONIC SETTING AND STRAIN ANALYSIS FOR AL FAYD AREA, SOUTHERN ARABIAN SHIELD, SAUDI ARABIA**

Osama Kassem, Ali Khahal, Yousef Alamri, Hussain Al Faifi

**ID 147: Strong neotectonic block-rotations, related to the Africa-Eurasia convergence, in northern Algeria: paleomagnetic evidence from the Mitidja basin.**

Mohamed El Messaoud Derder, Hamou Djellit, Bernard Henry, Saïd Maouche, Rafik Bestandji, Hayat Ymel, Sofiane Gharbi, Abdeslam Abtout, Catherine Dorbath

**ID 202: Evidences for Central Arabian Graben System from Wadi Nisah area, Central Saudi Arabia: Integration of aerial maps and field observations**

Ammar Abdlmutalib, Osman Abdullatif

**ID 481: Late Cretaceous- Middle Eocene Dextral transpression and their control on the development of the rift-related fault pattern, Western side of the Gulf of Suez rift**

Said Moamed Said, Shawky Sakran

**526# Early Red Sea Multiphase Rifting: Spatial and temporal extensional changes along the Red Sea rift**

Thamer Aldaajani

**ID 16: Assessment of frequency and time domain electromagnetic methods for the archeological prospecting in the East Nile Delta, Egypt**

Adel Mohamed

**ID 31: The effect of the Upper Cretaceous dextral wrench tectonic on Abu Gharadig and Gindi basins, northern Western Desert, Egypt**

Mohammad Sarhan



## **Track 5: Geodesy, Geoinformatics, GIS, and Remote Sensing**

**Session: T5-PS1 / Screen-2 / E-poster Hall / 3 Mar 11:00~12:30**

**Program session chair: Oussama Bellil**

**ID 36: Seasonal assessment of groundwater contamination in coal mining areas of Balochistan, Pakistan**

Ayesha Ayub, Sheikh Saeed Ahmad

**ID 63: Crustal Deformation Modeling for the High Dam Area Deduced from GPS and InSAR Data**

Abdel-hamid Mohammed, Abdel-monem Sayed, Hosni Ghazala, Mohammed Saleh

**ID 91: Evidence of tectonic origin of the seismic activity at Abu-Dabbab area, Eastern Desert, Egypt, from GPS and SAR interferometry**

Abdel-monem Mohamed, Mohamed Saleh, Frédéric Masson, Nadia Abo-aly

**ID 99: Application of GIS in groundwater quality in a semi-arid region of Algeria**

Ismail Ghibeche, Blel Azouzi, Tarik Hartani

**ID 126: Appraisal of land degradation and land-use / land-cover change for sustainable development of Suez Canal region, Egypt: Utilizing Remote Sensing and GIS**

Mohamed Arnous, Mohamed Geriesh, El-arabi Shendi, Basma Mansour

**ID 136: Assessment of Surface Water Quality Using GIS And Inverse Distance Weighted Interpolation: Case Of Wadi El Bey, Tunisia**

Imen Khouni, Ghofrane Louhichi, Ahmed Ghrabi

**ID 148: Evaluation of Hydrodynamic effects on the Geomorphology of Indus Delta (Pakistan) by land sat data**

Gohar Ali Mahar, Nayyer Alam Zaigham

**ID 388: Spatio-temporal Analysis of Urban Growth and Transportation in Khartoum State , Sudan**

Nisreen Mahmoud, Yahya Al-tayeb

**ID 419: IDENTIFICATION OF THE FRACTURATIONS IN OUED MYA, SOUTH OF ALGERIA BY REMOTE SENSING**

Mohammed Hadjkouider

**ID 472: Comparison of two software Surfer and Arcgis compared to methods of interpolation application to a region on the wilaya of Djelfa,Algeria.**

Amira Kessab



**Session: T5-PS2 / Screen-2 / E-poster Hall / 3 Mar 14:00~15:30**

**Program session chair: Amar Guettouche**

**ID 150: Predictive modelling of Soil Erosion Rate using Geographic Information System (GIS) combined with An Extreme Learning Machine model (ELM) of Wadi Sahel-Soummam Watershed (Algeria)**

Messaoud Djeddou, Aouatef Hellal, Elhadj Mokhtari, Ibrahim A. Hameed

**ID 167: GIS, remote sensing and analysis of spatial aggregation analytical models for the study of land degradation in Algeria. application to the area of Naâma.**

Abdelkrim Bensaid, Malika Barki, Rachid Nedjai, Tewfik Mostephaoui

**ID 231: Contribution of radar imagery by SBAS technique to the measurement of mass movements caused by quarrying in the Beni Chougrane Mountains, Case of Djebel Aoud Asma (State of Mascara, Algeria)**

Farida Bachir Belmehdi, Moussa Lesгаа, Kamel Hasni

**ID 252: UTM extended zone for Algeria: Methodology and first results**

Bachir Gourine

**ID 253: Noise assessment in positions of GPS-DORIS co-located stations using power spectral density and wavelet analysis**

Sofiane Khelifa

**ID 321: Evaluating Changes in Water-logging, Soil Salinity and Vegetation Cover within Siwa Oasis in Egypt Using Remote Sensing Data and Techniques**

Abdelhamid Elnaggar

**ID 358: Contribution of Sentinel-2 satellite images for geological mapping in Ouanougha region (The Bibans Mountains, Tellian Atlas of Algeria).**

Ahmed Serkhane, Said Laidi, Abderahmane Ramdani, Youcef Bouhadad, Mohamed Said Guettouche, Ahmed Bennia

**ID 477: Mapping potential groundwater recharge zone at Aswan area - Egypt, using remote sensing and GIS Techniques**

Kareem Abd El Wahid

**ID 483: GLONASS-based Dual-Frequency Static-Precise Point Positioning for Hydrographic Applications- Case Study (Aswan, Egypt)**

Ashraf Farah

**Session: T5-OS1 / Hall A / 4 Mar 09:30~10:30**

**Program session chair: Yousif Abdullah Elrayah**

**ID 84: INSPECTION OF THE HYDROTHERMAL ALTERATION ZONES ASSOCIATED WITH MASSIVE SULFIDE DEPOSITS AT SOUTH EASTERN DESERT, EGYPT**

Safaa Hassan, Safwat Gabr

**ID 85: Comparing spectral based and object based classification using ASTER data for automatic mapping: A case study, basement rock of Eastern Desert , Egypt**

Safaa Hassan, Mohamed Roshdy

**ID 95: Precambrian Rocks of Gabal Batoga area, South Eastern Desert of Egypt: Geology and Remote Sensing**

Mohamed Sadek, Baher El Kaliouby, Mohamed Ali-bik, Ahmed Elnazer

**ID 108: Static-PPP Positioning Accuracy Variation using High-rate GNSS Observations for Earthquake/Tsunami Warning Systems**

Ashraf Farah

**ID 223: Environmental Impact Evaluation of Solar Park Project in Western Desert, Minia, Egypt.**

Ramadan Abouelmagd, Josaphat Tetuko, Mostafa Barseem, Saffie Metwally, Mouhamed Shokry, Salah Mousa

**Session: T5-OS2 / Hall A / 4 Mar 11:00~12:30**

**Program session chair: Hassan Almarzouki**

**ID 256: Using optical and thermal infrared images from Aster and Landsat satellites for monitoring soil moisture: Case of Wadi Khelouia watershed in the northwest Algeria**

Abderrahmane Hamimed, Mansour Zaagane, Habib Azzaz, Benyekhlef Benamina, Abdelkader Khaldi

**ID 258: Map Data Architecture in development of digital bedrock mapping**

Jarmo Kohonen, Niina Ahtonen, Jouni Vuollo, Jouni Luukas

**ID 327: Gravity and climatic model applications to groundwater storage variations of the Nile Delta Aquifer**

Ahmed Mohamed

**ID 92: Recent Crustal Movement in the Greater Cairo Region, Egypt, revealed from GPS and PSI**

Abdel-monem Mohamed, Mohamed Saleh, Frédéric Masson, Ali Rayan

**ID 164: Validation of SARAL/AltiKa with Tide Gauge over Algerian Coast**

Ali Rami, Touati Benkouider, Mohamed Aissa Meslem

**Session: T5-OS3 / Hall A / 4 Mar 14:00~15:30**

**Program session chair: Ozcan Dimanlilar**

**ID 350: MONITORING DESERTIFICATION INDICIES IN THE MIDDLE ZONE OF WADI FATIMAH VALLEY USING MULTI-SOURCE REMOTE SENSING IMAGERY**

Elsayed Hermas, Motirh Al-mutiry, Abdullah Alqurashi, Huda Al-awaji

**ID 372: Shoreline change assessment and its prediction using remote sensing, GIS techniques and a hydrodynamic model approach: Case study of Aceh coast, Indonesia**

Satria Antoni, Rashad Bantan, Hamdy Aboulela, Muhammad Helmi, Biswajeet Pradhan

**ID 392: Saline Aquifers Stability Study after injection of CO<sub>2</sub>: Krechba (Algeria) Reservoir Case Study Using Envisat and Sentinel-1 data**

Kamel Hasni, Bachir Gourine, Hicham Dekkiche, Saddam Housseyn Allal

**ID 399: Using Bottom-Up Management Framework to Solve Problem of Oil Spills in Niger Delta Region of Nigeria**

Isa Adekunle Hamid-mosaku, Ibrahim Adewale Adepeju, Tosin Julius Salami, Kehinde Saheed Ishola, Ebenezer Oluwasayo Adukanle

**ID 461: Soil loss estimation using GIS and remote sensing over the Fergoug watershed in north-western Algeria**

Abdelkader Khaldi, Hamimed Abderrahmane, Mansour Zaagane, Habib Azzaz

**ID 15: Mapping Geothermal Anomalies in Rift-Related Wadi Natash Volcanic Field, South Eastern Desert, Egypt Using Thermal Infrared and SAR Remote Sensing Techniques**

Ahmed Madani



# **Track 6: Geophysical Exploration: Seismic, Potential Field and Electromagnetic**

**Session: T6-PS1 / Screen-4 / E-poster Hall / 3 Mar 14:00~15:30**

**Program session chair: Mohamed Abdelwahab Mohamed Ali**

**ID 436: Inferring the deep source structures using the potential field data and seismic interpretation: Gara Marine oilfield, southern Gulf of Suez, Egypt**

Ahmed Azab, Ali El-khadragy, Mohamed Saad, Ahmed Alaa

**ID 30: Paleomagnetism as a geochronologic gauge for deformational events: insights from Najd-related Nugrus Shear Zone, Northern Nubian Shield.**

Reem Mostafa

**ID 53: Reservoir Characterization using of the Ghara Oil Field, Gulf of Suez, Egypt: New insights from Seismic and Petrophysical data**

Hanan Genidi, Hatem Farouk, Adel Kamel

**ID 69: ATTENUATION OF P AND S WAVES FOR ASWAN REGION**

Gad-elkareem Mohamed

**ID 73: Integration between shallow seismic refraction and ground penetrating radar for detection the geotechnical and cultural features at the land around the buildings of Egyptian Petroleum Research Institute, Cairo, Egypt.**

Abeer El-kenawy, Ahmed Abo El-atta, Salah Shebl, Ahmed El-khafeef

**ID 75: Paeomagnetic study of The Upper Cretaceous Rocks from EL-Bahariya AHARIYA Oasis, Western Desert, Egypt Esmat Abdelaal National Research institute of Astronomy and Geophysics, Helwan, Cairo, Egypt.**

Esmat Abdelaal

**ID 82: Assessment of the Subsurface configurations at Kom Ombo Temple, South Egypt, Using Ground Penetrating Radar and Electrical Resistivity Tomography**

Hany Salah Mesbah, Samar Boghdady, Mahmoud Gabala, Abbas Mohamed Abbas Ali, Mohamed Rashed, Tharwat Abdel Fattah

**ID 111: Petrophysical and petrographical characteristics of Upper Rudeis reservoir rocks of July Oil Field, Gulf of Suez, Egypt**

Hesham Zahra, Alla Hefnawy

**Session: T6-PS2 / Screen-4 / E-poster Hall / 3 Mar 16:00~17:00**

**Program session chair: Hadj Bekki**

**ID 489: Joint Interpretation using 2-D Resistivity and Self-Potential Methods in Delineating Water Flow**

Nazirah Mahmud, Nordiana Mohd Muztaza, Alyaa Nadhira Salleh, Tajudeen Olugbenga Adeeko, Muhammad Taqiuddin Zakaria, Farid Najmi Rosli

**ID 181: Estimation of Curie Point Depth, heat flow and Geothermal gradient deduced from aeromagnetic data over Sinai, Gulf of Suez and north eastern Desert areas, North – Eastern Egypt.**

Ali Elkhadragey, El-arabi Shendi, Mona . Kaiser, Mohamed Abdel Fattah, Islam El-nekhiely

**ID 190: Geochemical and Electrical Resistivity Characters of the Sediments Irrigated with Sewage Water at Sohag Governorate, Upper Egypt**

Mohammed Mohammed, Mohamed Ali, Abdelbaset Abudeif, Gamal Abdelaal

**ID 195: Magnetic and geochemical investigation of the iron deposits in the Um Barmil area, Eastern Aswan-Egypt**

Mahmoud Mekkawi, Ibrahim El-hemly, Ahmed Qutb

**ID 196: Pore pressure and the seismic activity in some areas around Lake Nasser, Aswan, Egypt**

Haggag Mohamed

**Session: T6-PS3 / Screen-4 / E-poster Hall / 4 Mar 09:30~10:30**

**Program session chair: Iftikhar Ahmed Abbasi**

**ID 508: Delineation of the active subsurface structures in northeast capital Cairo area, Egypt**

Taha Rabeh, Ahmed Meneisy, Ahmed Abd El Gaber

**ID 212: Behavior of Groundwater due to the Seismicity at South-west of Aswan reservoir, Egypt.**

Sameh Moustafa

**ID 217: Shale gas evaluation of the Middle Jurassic Khatatba Shale Formation in the Obaiyed field (Western Desert, Egypt)**

Mohamed Abdel-fattah, Zakaria Abd-allah

**ID 218: Structural oil entrapment styles of the Miocene reservoirs in Sudr field (Gulf of Suez, Egypt): a branch of dry well analysis**

Mohamed Abdel-fattah, El-arabi Shendi, Ahmed Albrkawy

**ID 227: Georadar Usage for Characterization of the Clay Bands in Limestone Quarry: Case Study of Chanva Deposit (Russia)**

Oleg Kovin, Adnan Aqeel, Valeriy Goldyrev, Vitaliy Bryukhov

**ID 234: ACQUISITION ACTIVE OF MULTI-CHANNEL ANALYSIS OF SURFACE WAVES (MASW) DATA IN KARST TERRAIN**

Ghassan Alsulaimani

**Session: T6-PS4 / Screen-4 / E-poster Hall / 4 Mar 11:00~12:30**

**Program session chair: Maher Al-dahri**

**ID 271: Near surface geophysical observations on the Great Cavern, Felsőpetény testing area, near Budapest, Hungary**

Elsayed Issawy

**ID 284: Hydrocarbon Saturation and Fracture Determination Via Breakthrough 3D Seismic Reprocessing Technology**

Ahmed Radwan, Mona El Adawy, Oleg Kuznetsov, Igor Chirkin, Evgeny Rizanov, Samuel Leroy, Yury Lyasch, Sergey Koligaev

**ID 294: Groundwater exploration around Hurghada area, Egypt using Geophysical techniques**

Sultan Araffa, Mahmoud Mohamadin, Hassan Sabet, Mustafa Takey

**ID 317: Structural Interpretation of the Hydrocarbon Potential Zones around the Chad Basin, Nigeria using Aeromagnetic Data**

Kehinde Ishola, Lukumon Adeoti, Blessing Okoye, Muteeu Olopade, Rafiu Rafiu Adegbola



**ID 333: Shallow Aquifer Potentiality Using Resistivity and Electromagnetic Methods at Baqbaq area, Northwestern Coast, Egypt**

Adel Kotb

**ID 250: Using recent high-resolution aeromagnetic for spatial analysis of an intraplate Neogene volcanic fields of Siroua (Moroccan Atlas Mountains)**

Mustapha Bouiflane, Ahmad Manar, Nicolas Le Corvec

**ID 257: Integration of aeromagnetic data interpretation and resistivity tomography survey for investigation of the fractured area along Qena Safaga Road, South Egypt.**

Abdelhady El-akraby, Mohamed Khalifa, Wael Dosoky

**ID 261: ENGINEERING SEISMOLOGICAL STUDIES FOR THE NEW NUBIAN HABITATIONS AREA IN WADI KURKUR, ASWAN, EGYPT**

Rafaat Fat-helbary

**ID 262: Subsurface density structure imaging of the Algerian- Tunisian borders, using the 3D inverse modeling**

Mohammed Hichem Bencharef

**Session: T6-OS1 / Hall A / 5 Mar 09:30~10:30**

**Program session chair: François Roure**

**ID 19: Geophysical exploration of the gold deposits in the Wad-Allaqi area-Egypt**

Mahmoud Mekkawi, Usama Massoud, Ayman Ismail, Mohamed Al Deep, Ahmed Qutb, Sultan Awad, Abbas Mohamed

**ID 25: Integrated geophysical study for Hydrocarbon potential in the Central Part of Sayun-Masila Basin, Yemen; using Seismic and Potential field data.**

Hosni Ghazala

**ID 39: Density structure of the Hodna from 3D gravity inversion**

Djamal Boubaaya, Mohammed Hichem Bencharef

**ID 146: Decomposition of frequency and amplitude of seismic data to detect hydrocarbon-saturated reservoirs**

Mohammed Farfour, Said Gaci

**ID 499: Using Global Optimization Algorithm for Estimating Model Parameters from Magnetic Anomalies Due to Thin Dikes, Dipping Dikes and Vertical Faults: Applications for Mineral and Ore Deposits Exploration**

Mohamed Gobashy, Maha Abdelazeem, Mohamed Abdrabou

**Session: T6-OS2 / Hall A / 5 Mar 09:30~10:30**

**Program session chair: Brian New**

**ID 209: Investigation of Groundwater Potentiality at Abu Zeneima Area-West Sinai by DC Resistivity and Transient Electromagnetic Methods**

Usama Massoud, Ayman Ismail Taha, Abbas Mohamed Abbas, Hany Shaaban, Mohamed Abdel Sabour, Ahmed Mahmoud

**ID 243: Contribution of conventional well-logs in shale gas reservoirs characterization with an example from the Lower Barnett shale (USA)**

Sid-ali Ouadfeul, Leila Aliouane

**ID 267: Helicopter frequency electromagnetic survey applied to mineral exploration (Case of the Anti-Atlas belt, Morocco)**

Ahmed Manar, Mustapha Bouiflane

**ID 276: Source structures at Pre-Miocene level as deduced by gravity stripping, a case study: West Shokeir-Gharib, Gulf of Suez, Egypt**

Ahmed Ahmad

**ID 281: A Precise Reservoir Characterization Using Integrated Petrophysical and Sedimentological Studies on Early Cretaceous Sequences in Muglad Basin, Sudan**

Abeer Abuhagaza, Marwa El Sawy, Bassem Nabawy

**ID 172: Aeromagnetic tectonic framework the gold mineralization in the northern Iskel terrane, link to the major 4°30 and 4°50 shear zones**

Ismahane Chaouche, Mohamed Talbi, Dalila Zekiri-nemmour, Grégory Dufrechou

**Session: T6-OS3 / Hall A / 5 Mar 11:00~12:30**

**Program session chair: Ali Hadi Atef**

**ID 427: RESERVOIR PREDICTION USING SEISMIC ATTRIBUTES AND PRE STACK SEISMIC DATA**

Mohamed Mohamed Ishag Abdullah

**ID 445: MicroGravity mapping for Dammam Dome near-surface structure on King Fahd University of Petroleum & Mineral campus**

Muhammad Hanif, Stewart Alan Greenhalgh, Sanlinn Ismail Kaka

**ID 487: Imaging Subsurface Geological Structures Using 2-D Resistivity Method**

Nordiana Mohd Muztaza, Nur Amalina Mohd Khoirul Anuar, Muhammad Taquiuddin Zakaria, Farid Najmi Rosli, Nazirah Mahmud, Alya Nadhira Salleh, Nuraisyah Samsudin, Tajudeen Olugbenga Adeeko, Nurina Auni Ismail, Nur Azwin Ismail

**ID 488: Soil Bearing Capacity determination for Shallow Foundations using Geophysical Methods**

Alyaa Nadhira Salleh, Nordiana Mohd Muztaza, Rosli Saad, Muhammad Taquiuddin Zakaria, Nazirah Mahmud, Farid Najmi Rosli

**ID 490: Shallow offshore Seabed geotechnical modeling using seismic reflection method at Kuala Sanglang, Perlis, Peninsular Malaysia**

Amin Khalil, Mohd Nawawi, Hesham Abdelhafiez



# **Track 7: Seismological investigations: Geologic and Geotechnical**

**Session: T7-PS1 / Screen-3 / E-poster Hall / 3 Mar 14:00~15:30**

**Program session chair: Mohammed Farfour**

**ID 80: RIS Evidences in Lake Aswan Seismicity, Egypt**

Awad Ismail

**ID 128: Geological and Shallow Geophysical Surveys for Dynamic Geotechnical Properties Evaluation of Wadi Habib Entrance Site, Eastern Desert, Egypt**

Awad Omran, Ahmed-reda El-younsy, Yusry Soody

**ID 211: Ground-motion Prediction Equations in Egypt**

Abuoelela A. Mohamed Mohamed, M. H, Elkhadrgy Elkhadrgy, Hussein H. M Moussa, M. Yaseen Atiya, Mahamoud Sami Soliman Soliman

**ID 219: Comparative Study for Raft Design Based on Sap and 3D Plaxis Analysis**

. Gihan Elsayed Abdelrahman, Mohamed Hussein, Hassan Emad

**ID 228: A Study on the Relation Between Recent Induced Seismicity and Water Level in Tushka Area, Aswan, Southern Egypt**

Ezzat El-amin, Haggag Mohamed

**ID 266: New insights into local site effects on ground motion in Al-Madinah Al-Munawwara area, Saudi Arabia**

Talal Merghelani

**ID 318: MICROTREMOR HVSR STUDY OF SITE EFFECTS IN THE URBAN AREA OF DAKAHLIYA GOVERNATE, NILE DELTA, EGYPT**

Iman Abu El Nadr, Saud Abd El Hady, Ibrahim Korrat, Mohammed El-hanafy

**ID 325: First seismic site amplification zonation map of Al-Madinah Al-Munawwara area, Saudi Arabia**

Talal Merghelani, Walter Mooney, Mohamed Abdelwahed, Emad Nagm, Ibrahim Babikir, Atef Abukhatita

**ID 382: Geological Inspection for Subsurface Gas Pipeline Treatment and Handling at the Highway Road in Riau Province, Indonesia**

Husnul Kausarian, Hafiz Rahmat, Amirul Gusman, Dewandra Bagus Eka Putra, Firman Syarif, Iskandar Abdul Waris, Kharlina Rizda

**ID 449: Geotechnical properties of an expansive soil stabilising with lime; application at Adrar area (Algeria)**

Khedidja Belaidi, Mohamed Amine Allal, Belkacem Mekerta, Mohamed Benabdelfattah

**ID 510: The 24th June, 2002 North-South Axis earthquake, Tunisia: Stress patterns from stress inversion of earthquake focal data.**

Makram Harzalli, Mohamed Mansour Abdelmalak, Habib Troudi, Samir Bouaziz

**Session: T7-OS1 / Hall B / 4 Mar 11:00~12:30**

**Program session chair: Majed Almalki**

**ID 59: Characterization of the ambient noise in Egypt**

Hesham Abdelhafiez, Mahmoud Soliman

**ID 160: Relocation and time domain moment tensor inversion of the 27 June 2015 Gulf of Aqaba earthquake sequence using data of the surrounding networks**

Mahmoud Elhadidy, Hani Zahran, Wael Alraddadi, Mahmoud Salam, Salah Youssef

**ID 184: CHARACTERISTICS OF EARTHQUAKE SWARM IN LUNAYYIR VOLCANIC FIELD, 2009, WESTERN SAUDI ARABIA.**

Salah Elhadidy, Zaam Alotaibe, Mahmoud Elhadidy

**ID 188: Seismic Microzonation for Earthquake Risk Mitigation at the Southern Extension of Marsa Alam City, Egypt.**

Raafat Fat-helbary, Karrar El-faragawy, Ahmed Hamed

**Session: T7-OS2 / Hall B / 4 Mar 16:00~17:00**

**Program session chair: Abdulaziz Laboun**

**ID 203: Seismic site characteristics for engineering purposes at the proposed location of new Olympic village and Logistic area, Aswan, Egypt**

Abdelnasser Mohamed

**ID 238: Seismic data compression and encryption method using 128-based numerical system and bitmap manipulation**

Mohamed Abdelwahed

**ID 251: Estimation of a local earthquake magnitude scale for Egypt**

Hussein Sabry Mohamed, Sherif El Hady

**ID 297: Site response and ground motion parameters around the Nile River, Giza, Egypt**

Mostafa Toni



**Session: T7-OS3 / Hall B / 5 Mar 09:30~10:30**

**Program session chair: Zakaria Hamimi**

**ID 324: Implication of horizontal to vertical spectral ratio of ambient noise measured at the ground surface of Al-Madinah Al-Munawwara area, Saudi Arabia**

Talal Merghelani, Walter Mooney, Emad Nagm, Mohamed Abdelwahed, Ibrahim Babikir, Atef Abukhatita

**ID 345: Discrimination between quarry blasts and natural earthquakes: Application to the vicinity of Al-Namas area, southern Saudi Arabia**

Khaled Yousef, Salah Elhadidy, Khald Al Gamdi, Albraa Altamrawi, Faroog Al Harthi, Talal Atwi

**ID 346: CHARACTERISTICS OF ONSHORE-OFFSHORE EARTHQUAKES IN AND AROUND NORTHERN RED SEA, WESTERN SAUDI ARABIA, PART 1.**

Salah Elhadidy, Zaam Al-otaibi, Abdullah Mouas, Mahmoud Elhadidy

**ID 356: Saudi National Seismic Network (SNSN) and seismicity of Kingdom of Saudi Arabia**

Zaam Alotaibi, Salah Elhadidy

**ID 424: Velocity structure of the uppermost mantle beneath the tanzanian craton and the surrounding proterozoic mobile belts from pn tomography**

Nada El Tahir, Andrew Nyblade

**ID 26: Studying the evolution of earthquake network measures for the main shock of 24/06/2015 in Egypt**

Khaled Omar, Dimitris Chorozoglou

**Session: T7-OS4 / Hall B / 5 Mar 11:00~12:30**

**Program session chair: Hani Zahran**

**ID 448: Deterministic Seismic Hazard Assessment for the Makkah Region, western Saudi Arabia**

Hani Zahran, Vladimir Sokolov, Salah El-hadidy

**ID 465: Dubai Smart Seismic Network**

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Lamri Dahoua, Riheb Hadji

**ID 131: 3D Photorealistic Models for Geological Outcrop**

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Ahmed Bennis, Lahsen Wahib Kebir, Oussama Benabbou, Mohamed Ghabi

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Helmy Osman, Hussein Harbi, Faisal Alqahtani, Abdullah Bamousa, Essam Aboud

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Mansour Zaagane, Soraya Refas, Abderahmane Hamimed

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Mohamed Said Guettouche

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Louiza Haddad, Zeroual Aouachria

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**ID 512: The Evaluation of Carbon Dioxide levels on Residential Sector in Upper Egypt**

Sara Elhadad, Bálint Baranyai, János Gyergyák, István Kistelegdi



# **Track 11: Oceanography and Marine Geology**

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**ID 152: Stable carbon and nitrogen isotopes of organic matters of the Shuaiba Lagoon sediments as an indication of environmental changes during the last 3600 yrs**

Ramadan Abu-zied, Mohammed Orif, Antonio Delgado-huertas, Mohammed Ghandourah

**ID 296: Bio mineralization and ocean acidification of bryozoans with descriptions of three bimineralic species from Andaman Sea**

Mohammed Naufal Naufal, Jayaraj Kadeparambil Arjunan

**ID 464: Multi-proxy investigations of the shallow subsurface Red Sea coastal sediments South Al-Lith, Saudi Arabia: Paleoenvironmental Reconstruction**

Aaid G. Al-zubieri, Ibrahim M. Ghandour, Ali S Basaham, Ammar A Manaa, Talha A. Al Dubai

**ID 62: Distribution Patterns of Calcareous Nannoplankton in Surface Sediments of the Northern and Central Red Sea: Observations of Productivity and Evidence of Dissolution by Brine Pools**

Mohammed Aljahdali, Jürgen Pätzold



**Session: T11-PS1/ Screen-4 / E-poster Hall / 4 Mar 16:00~17:00**

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**ID 5: TRACE METALS POLLUTION MONITORING BY ABNORMAL TESTS OF AMMONIA tepida (CUSHMAN): A CASE STUDY FROM THE MANZALA LAGOON, EGYPT**

Orabi Orabi, Ahmed Badr-eldin

**ID 6: SEASONALLY TRACE METALS POLLUTION MONITORING BY ABNORMAL TESTS OF AMMONIA tepida (CUSHMAN): A CASE STUDY FROM THE MANZALA LAGOON, EGYPT**

Orabi Orabi, Ahmed Badr-eldin

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**ID 330: Monitoring of changes in the coastal morphology using geographic information system – Case study from South of Jeddah, Saudi Arabia**

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Ahmed Hassan, Mahmoud Hassaan

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Abdelrazek Elnaggar, Atef Mansour

**ID 221: Archaeological Islamic Silver Coins: Meteorological Investigation and Laser Cleaning for exhibition of Visually-Impaired tourists**

Abdelrazek Elnaggar, Atef Mansour

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261: [T6-PS4 / Screen-4] - E-poster Hall  
262: [T6-PS4 / Screen-4] - E-poster Hall  
263: [T1-OS2] - Hall A  
265: [T3-OS3] - Hall C  
266: [T7-PS1 / Screen-3] - E-poster Hall  
267: [T6-OS2] - Hall A  
269: [T2-OS2] - Hall B  
270: [T2-PS3 / Screen-2] - E-poster Hall  
271: [T6-PS4 / Screen-4] - E-poster Hall  
272: [T8-PS2 / Screen-2] - E-poster Hall  
274: [T3-OS3] - Hall C  
275: [T8-OS2] - Hall C  
276: [T6-OS2] - Hall A  
277: [T1-PS4 / Screen-1] - E-poster Hall  
278: [T3-PS3 / Screen-3] - E-poster Hall  
279: [T3-OS3] - Hall C  
280: [T8-PS2 / Screen-2] - E-poster Hall  
281: [T6-OS2] - Hall A  
282: [T8-PS2 / Screen-2] - E-poster Hall  
283: [T1-OS2] - Hall A  
284: [T6-PS4 / Screen-4] - E-poster Hall  
286: [T3-OS3] - Hall C  
287: [T1-PS4 / Screen-1] - E-poster Hall  
288: [T1-PS4 / Screen-1] - E-poster Hall  
289: [T3-PS3 / Screen-3] - E-poster Hall  
291: [T3-PS3 / Screen-3] - E-poster Hall  
292: [T1-PS4 / Screen-1] - E-poster Hall  
294: [T6-PS4 / Screen-4] - E-poster Hall  
295: [T2-OS3] - Hall B  
296: [T11-OS1] - Hall C  
297: [T7-OS2] - Hall B  
298: [T2-PS3 / Screen-2] - E-poster Hall  
300: [T11-PS1/ Screen-4] - E-poster Hall  
301: [T3-PS3 / Screen-3] - E-poster Hall  
304: [T1-PS1 / Screen-1] - E-poster Hall  
308: [T1-OS2] - Hall A  
309: [T2-OS4] - Hall B  
311: [T2-OS4] - Hall B  
312: [T1-PS1 / Screen-1] - E-poster Hall

314: [T3-OS4] - Hall C  
315: [T1-PS1 / Screen-1] - E-poster Hall  
316: [T2-OS4] - Hall B  
317: [T6-PS4 / Screen-4] - E-poster Hall  
318: [T7-PS1 / Screen-3] - E-poster Hall  
319: [T3-OS4] - Hall C  
321: [T5-PS2 / Screen-2] - E-poster Hall  
323: [T3-PS3 / Screen-3] - E-poster Hall  
324: [T7-OS3] - Hall B  
325: [T7-PS1 / Screen-3] - E-poster Hall  
326: [T12+T13-PS1 / Screen-4] - E-poster Hall  
327: [T5-OS2] - Hall A  
329: [T11-PS1/ Screen-4] - E-poster Hall  
330: [T11-PS1/ Screen-4] - E-poster Hall  
331: [T8-PS2 / Screen-2] - E-poster Hall  
332: [T12+T13-PS1 / Screen-4] - E-poster Hall  
333: [T6-PS4 / Screen-4] - E-poster Hall  
334: [T3-PS3 / Screen-3] - E-poster Hall  
335: [T8-OS2] - Hall C  
336: [T2-PS3 / Screen-2] - E-poster Hall  
337: [T3-OS4] - Hall C  
338: [T3-OS4] - Hall C  
340: [T3-PS3 / Screen-3] - E-poster Hall  
341: [T12+T13-OS1] - Hall A  
342: [T12+T13-PS1 / Screen-4] - E-poster Hall  
343: [T3-OS5] - Hall C  
345: [T7-OS3] - Hall B  
346: [T7-OS3] - Hall B  
347: [T11-PS1/ Screen-4] - E-poster Hall  
348: [T3-PS3 / Screen-3] - E-poster Hall  
349: [T3-OS5] - Hall C  
350: [T5-OS3] - Hall A  
352: [T3-PS4 / Screen-3] - E-poster Hall  
354: [T8-OS2] - Hall C  
356: [T7-OS3] - Hall B  
357: [T12+T13-PS1 / Screen-4] - E-poster Hall  
358: [T5-PS2 / Screen-2] - E-poster Hall  
359: [T2-OS4] - Hall B  
360: [T8-PS2 / Screen-2] - E-poster Hall  
361: [T2-PS3 / Screen-2] - E-poster Hall  
362: [T1-PS3 / Screen-1] - E-poster Hall  
363: [T2-PS3 / Screen-2] - E-poster Hall  
365: [T3-PS4 / Screen-3] - E-poster Hall  
366: [T3-PS4 / Screen-3] - E-poster Hall  
367: [T12+T13-OS1] - Hall A

370: [T3-PS4 / Screen-3] - E-poster Hall  
371: [T2-PS4 / Screen-2] - E-poster Hall  
372: [T5-OS3] - Hall A  
376: [T3-OS5] - Hall C  
377: [T3-OS5] - Hall C  
378: [T3-PS4 / Screen-3] - E-poster Hall  
379: [T2-PS4 / Screen-2] - E-poster Hall  
380: [T12+T13-OS1] - Hall A  
381: [T2-OS3] - Hall B  
382: [T7-PS1 / Screen-3] - E-poster Hall  
384: [T8-PS2 / Screen-2] - E-poster Hall  
385: [T1-PS3 / Screen-1] - E-poster Hall  
388: [T5-PS1 / Screen-2] - E-poster Hall  
391: [T2-PS4 / Screen-2] - E-poster Hall  
392: [T5-OS3] - Hall A  
393: [T1-OS2] - Hall A  
395: [T2-PS4 / Screen-2] - E-poster Hall  
397: [T2-PS4 / Screen-2] - E-poster Hall  
399: [T5-OS3] - Hall A  
400: [T3-PS4 / Screen-3] - E-poster Hall  
401: [T2-OS5] - Hall B  
402: [T3-PS4 / Screen-3] - E-poster Hall  
404: [T8-PS2 / Screen-2] - E-poster Hall  
405: [T2-OS5] - Hall B  
406: [T9+T10-OS1] - Hall A  
407: [T3-OS6] - Hall C  
408: [T3-PS4 / Screen-3] - E-poster Hall  
409: [T2-OS5] - Hall B  
411: [T1-PS3 / Screen-1] - E-poster Hall  
416: [T2-PS4 / Screen-2] - E-poster Hall  
417: [T3-OS6] - Hall C  
419: [T5-PS1 / Screen-2] - E-poster Hall  
421: [T1-PS1 / Screen-1] - E-poster Hall  
422: [T3-OS6] - Hall C  
424: [T7-OS3] - Hall B  
425: [T3-PS6 / Screen-3] - E-poster Hall  
427: [T6-OS3] - Hall A  
428: [T3-PS5 / Screen-3] - E-poster Hall  
429: [T2-PS4 / Screen-2] - E-poster Hall  
430: [T3-OS6] - Hall C  
432: [T3-PS5 / Screen-3] - E-poster Hall  
435: [T8-OS2] - Hall C  
436: [T6-PS1 / Screen-4] - E-poster Hall  
439: [T2-PS4 / Screen-2] - E-poster Hall  
441: [T3-PS5 / Screen-3] - E-poster Hall  
442: [T3-PS5 / Screen-3] - E-poster Hall  
443: [T1-OS3] - Hall A  
445: [T6-OS3] - Hall A  
447: [T3-PS5 / Screen-3] - E-poster Hall  
448: [T7-OS4] - Hall B  
449: [T7-PS1 / Screen-3] - E-poster Hall  
450: [T1-PS2 / Screen-1] - E-poster Hall  
452: [T2-PS4 / Screen-2] - E-poster Hall  
453: [T9+T10-PS1/ Screen-4] - E-poster Hall  
454: [T3-PS1 / Screen-3] - E-poster Hall  
457: [T9+T10-OS1] - Hall A  
458: [T4-PS1 / Screen-1] - E-poster Hall  
459: [T3-OS6] - Hall C  
461: [T5-OS3] - Hall A  
464: [T11-OS1] - Hall C  
465: [T7-OS4] - Hall B  
466: [T11-PS1/ Screen-4] - E-poster Hall  
472: [T5-PS1 / Screen-2] - E-poster Hall  
477: [T5-PS2 / Screen-2] - E-poster Hall  
478: [T8-PS2 / Screen-2] - E-poster Hall  
481: [T4-OS1] - Hall B  
482: [T7-OS4] - Hall B  
483: [T5-PS2 / Screen-2] - E-poster Hall  
485: [T2-PS1 / Screen-2] - E-poster Hall  
487: [T6-OS3] - Hall A  
488: [T6-OS3] - Hall A  
489: [T6-PS2 / Screen-4] - E-poster Hall  
490: [T6-OS3] - Hall A  
495: [T3-PS1 / Screen-3] - E-poster Hall  
496: [T1-PS2 / Screen-1] - E-poster Hall  
498: [T9+T10-PS1/ Screen-4] - E-poster Hall  
499: [T6-OS1] - Hall A  
500: [T1-OS3] - Hall A  
501: [T9+T10-OS1] - Hall A  
505: [T1-OS3] - Hall A  
507: [T2-OS5] - Hall B  
508: [T6-PS3 / Screen-4] - E-poster Hall  
509: [T3-PS1 / Screen-3] - E-poster Hall  
510: [T7-PS1 / Screen-3] - E-poster Hall  
511: [T1-PS3 / Screen-1] - E-poster Hall  
512: [T9+T10-PS1/ Screen-4] - E-poster Hall  
515: [T7-OS4] - Hall B  
516: [T4-PS1 / Screen-1] - E-poster Hall  
517: [T1-PS3 / Screen-1] - E-poster Hall  
518: [T1-OS3] - Hall A

519: [T1-PS1 / Screen-1] - E-poster Hall

520: [T1-PS3 / Screen-1] - E-poster Hall

521: [T7-OS4] - Hall B

522: [T4-PS1 / Screen-1] - E-poster Hall

523: [T3-PS4 / Screen-3] - E-poster Hall

524: [T3-OS1] - Hall C

**See you at  
SSG-2022...**