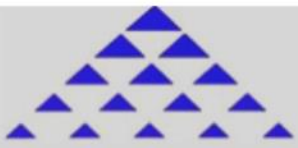


EGS



الجمعية الجيوفيزيائية المصرية

**The Egyptian Geophysical Society**

Established in 1980

# 2024

## EGS International Conference and the 35<sup>th</sup> Annual Meeting

**29 April 2024**

9.00AM - 4.00PM

- Ordinary General Assembly Meeting
- Honoring Ceremony
- Invited Talk
- Technical Sessions

**Venue: Conference hall of NRIAG - 1 Elmarsad street, Helwan, Cairo.**

<https://egs-egypt.org/>



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## **EGS International Conference and the 35<sup>th</sup> Annual Meeting Cairo, Egypt – April 29, 2024**

### **• Conferences Committee**

- Dr. Hatem Farouk Ewida
- Dr. Salah El Din Mousa
- Dr. Gad El Qady
- Dr. Mohamed Abd El Aal
- Dr. Aya Dahroug

### **• EGS Members of the Board of Directors**

- Geo. Samir Abdelmoaty
- Dr. Gad El Qady
- Dr. Salah El Din Mousa
- Dr. Ahmed Youssef
- Dr. Hatem Farouk Ewida
- Dr. Hassan Khalil
- Dr. Ali Bakr
- Dr. Hosny Ezz El Din
- Dr. Mohamed Hamed Abd El Aal
- Geo. Maged Fahim
- Geo. Shehab Elghazaly
- Dr. Mohamed Nabil El Gabry
- Dr. Aya Dahroug
- Geo. Aser Abdelaziz
- Dr. Ibrahim Attia



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# EGS International Conference and the 35<sup>th</sup> Annual Meeting Cairo, Egypt – April 29, 2024

## Program Schedule

- Registration 9:00 am – 10:00 am

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- Opening Ceremony 10:00 am – 10:30 am

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  - NRIAG President Talk
  - Conference Chairman Introduction
  - EGS Chairman Talk
  - Honoring Ceremony
- Keynote Speaker 10:30 am – 11:00 am

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  - “Green Hydrogen Directly from Seawater and its Potential in Egypt” By *Dr. Mostafa Oraby (AUC)*
- Technical Session One 11:00 am – 13:00 pm

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- Break 13:00 pm – 13:30 pm

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- Technical Session 2 / Posters 13:30 pm – 14:50 pm

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- General Assembly Meeting 15:00 pm – 16:00 pm

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## Technical Session One: Engineering and Environmental Geophysics

Chairmen: *Prof. Dr. A. El Mahmoudy* and *Prof. Dr. Tharwat Helmy*

- 11:00 am – 11:20 am
  - Role of Ground Penetrating Radar in Developing New Urbanized Areas in Makkah, Saudi Arabia.
    - Essam A. Morsy
- 11:20 am – 11:40 am
  - Application of seismic refraction and MASW geophysical techniques to characterize the subsoil structure under damaged buildings in Qeft city, Upper Egypt.
    - Ahmed M. Abdelgowad and Mahmoud A. Abbas
- 11:40 am – 12:00 pm
  - Evaluation of the Subsurface Geologic Condition Using Integrated Geophysical Study, East of New Cairo City
    - Elnazeer Haroun Tawir
- 12:00 pm – 12:20 pm
  - Hydrogeophysical Characterization of the El Azrag Aquifer: Insights from Zouerate State, NW Mauritania.
    - Sidi Mohamed Taleb Amar
- 12:20 pm – 12:40 pm
  - New insight from remote and hydrogeophysical data for a better understanding of the natural discharge at the New Valley, Western Desert, Egypt.
    - Mohamed Attwa and Dina Ragab
- 12:40 pm – 13:00 pm
  - Geological, structural and anthropogenic controls on groundwater flow and spring systems in Helwan, Egypt using stable isotope and DC resistivity data.
    - Mohamed Attwa, Elsayed Hermas, Ahmed Gad, and Doaa Hegazy

## Technical Session Two: Geodynamics and Reservoir Characterization

Chairmen: *Prof. Dr. Tharwat Abd El Fattah* and *Prof. Dr. Nadia Abu Ali*

- 13:30 pm – 13:50 pm
  - Predicting Geothermal Heat Flow in Egypt Using Random Forest Regression: A Machine Learning Approach.
    - Ahmed Mohamed Bekhit
- 13:50 pm – 14:10 pm
  - Recent Global Geopotential Model for different purposes in Geoscience: case study, Oases region Western Desert Egypt.
    - Mostafa Elwan
- 14:10 pm – 14:30 pm
  - Improved CO2 Sequestration Site Selection using a Machine Learning and and Multi-Attribute Analysis.
    - Tarek Khalifa
- 14:30 pm – 14:50 pm
  - Artificial Neural Network Can Determine Porosity and Water Shalysand Reservoirs.
    - Ghareb M. Hamada

## **Posters Session**

**Chairmen:** *Prof. Dr. Salah Mousa and Prof. Dr. Abbas Mohamed*

- **13:30 pm – 13:50 pm**
  - Combining Multiple Geophysical Approaches to Image Archaeological Ruins at Tell Barnugi, Behiera Governorate., Egypt.
    - Amr Abd El-Raouf, Elhamy Tarabees, Osman Badran, Penelope Wilson, and Ramy Ghoneim
- **13:50 pm – 14:10 pm**
  - Integration of GPR and EMI Techniques for Engineering Applications in Nubariya City.
  - Ali Abdalsalam, Elhamy Tarabees, Abdellatif Younis, and Osman Badran
- **14:10 pm – 14:30 pm**
  - Subsurface Geological Identification for Engineering Purposes using VLF-EM and TDEM Methods at New Nubariya City, Egypt.
    - Ali Abdalsalam, Elhamy Tarabees, Abdellatif Younis, and Osman Badran

**15:00 pm – 16:00 pm**

**Ordinary General Assembly Annual Meeting**



**Venue**  
**Conference hall of NRIAG**  
**1 Elmarsad street, Helwan, Cairo.**

<https://www.nriag.sci.eg/contact-us/>

### Access to the Venue

**BY CAR:** NRIAG can be reached by car through autostrad, please follow the direction on [this map](#) (the map below):

<https://www.nriag.sci.eg/contact-us/>

**BY SUBWAY:** Using subway no. 1 going to Helwan. Please get off at Helwan station (last station) then walk to NRIAG car stop in front of TE data (Reyad Street cross Shereef Street). See the map below. Bus will work every 15 minutes between 9:00 and 10:30 AM. After that you may use taxi (ask about Marsad Helwan)

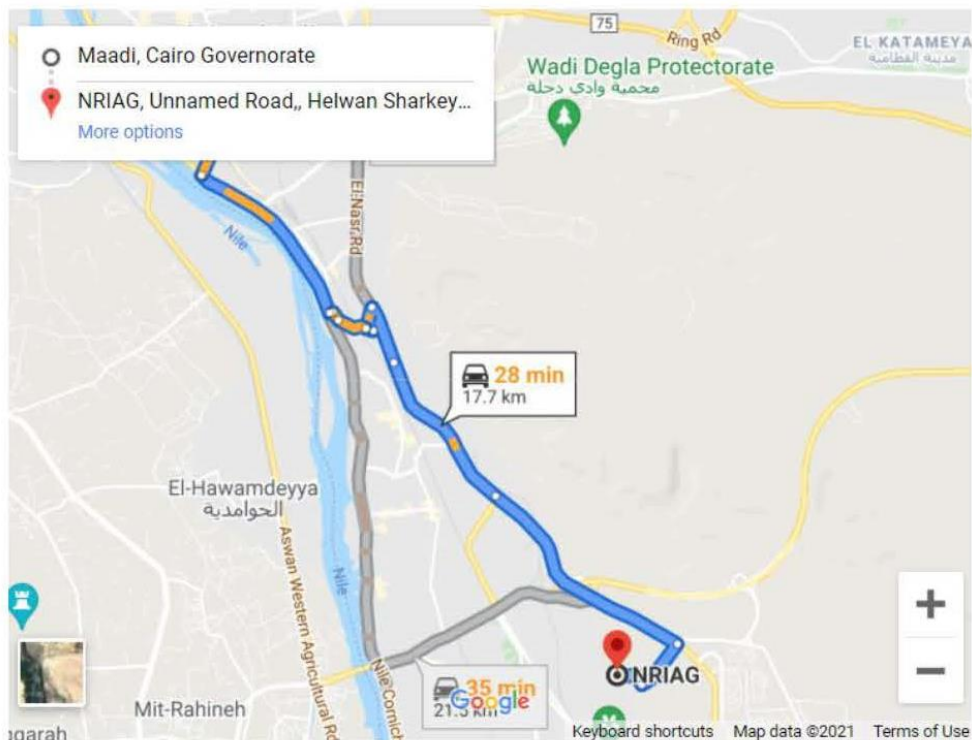


Fig 1: google map shows access to NRIAG via auto