

خەلیفان

A Scientific Trip Soran University (SUN)



Hiwa Hussain Omer

By Ako Daraei

This scientific trip is arranged by SUN's
Engineering faculty, Petroleum & Mining Engineering
Department (DPME)

eng.soran.edu.iq

پوخته

له درێژهی کار و چالاکییهکانی فاکهلتیهکهمان پرۆژی پینچ شهممه ریکهوتی ۲۵/۹/۲۰۲۵، قووتابییانی قوناغی سێیهمی بهشی ئەندازیاری نهوت و کانزاکان به سهپرهرشتی د.ئاکو دارایی و د.ههوا حسین ماموستای ههمان بهش ههڵسان به ئەنجام دانی گهشتیکی زانستی بۆ ناوچهی (خهلیفان) به مهههستی ناسنابوونی قووتابیان به (GPR Survey)

Abstract

On Thursday, September 25, 2025, third-year students of the Department of Petroleum and Mining Engineering, under the supervision of Dr. Ako Daraei and Dr. Hewa Hussein, undertook a scientific field trip to the Khalifan area. During this excursion, the students conducted a GPR survey, thereby gaining practical, hands-on experience in geophysical field techniques.

الملخص

في يوم الخميس الموافق 25 سبتمبر 2025، قام طلاب السنة الثالثة في قسم هندسة البترول والتعدين، بإشراف الدكتور آكو دارايي والدكتور هيو حسين، برحلة علمية ميدانية إلى منطقة خليفان. خلال هذه الرحلة، أجرى الطلاب مسحًا جيوفيزيائيًا باستخدام الرادار الأرضي المخترق، مكتسبين بذلك خبرة عملية في تقنيات المسح الميداني الجيوفيزيائي.



Dr. Hewa Hussein Omar (B.Sc., M.Sc., PhD) is a lecturer and head of [department of Petroleum and Mining Engineering \(DPME\)](#) at Soran University's [Faculty of Engineering \(FENG\)](#) (SUN). In 2006, he earned a B.Sc. in mechanical Engineering from [Salahaddin University](#).

In 2009, he went to Russia to study at [Moscow Aviation Institute](#) at the Department of the Theory of Aircraft Engines, but first he took a preparatory course in the Russian language and after 8 months, after completing the preparatory course, he entered the Moscow Aviation Institute. In 2014, he earned a bachelor's degree with honors in aviation and rocket engineering, in 2016 he earned a master's degree with honors in aircraft engines from Moscow Aviation Institute And in 2021 he received his a Ph.D. in Thermal, Electrojet Engines and Aircrafts Power Plants at Samara research University. From 2016 to 2017, he worked as an assistant lecturer at Soran at the [Department of Engineering Chemistry](#) and from 2019 to 2022, he worked as an assistant lecturer at [Samara National research University](#) (Russia-Samara,) at the Department of theory of aircraft engine. The area of his interest is thermal, mechanical, power, and aircraft engineering.



Dr. Ako Daraei (B.Sc., M.Sc., PhD) is a lecturer at [DCVE](#) with a focus on geotechnics. He was awarded his B.Sc. in Mining Engineering; [Lorestan University](#), M.Sc. in Rock Mechanics; [Sahand University of Technology](#), and PhD degrees in Rock Mechanics ; [Shahrood Univeristy](#) of Technology in Iran. He has 15 years of industry experience in various countries. Dr. Daraei has designed and built tunnels, roads, slope stability, and a few unique bridges. His principal scientific interests are geotechnics, tunnel design, instrumentation and monitoring, slope stability, back analysis, and rock and soil dynamics.

About Soran University

[Soran University \(SUN\)](#) is located in the city of Soran, which is about a two-hour drive north-east of [Erbil](#) (Arbil, Hewlér), the capital of the [Kurdistan Region](#) of Iraq (KRIQ). The city is flanked by the famous Korek, Zozik, Henderén, and Biradost mountains. The medieval mountain village of [Rewandiz \(Rawanduz, رەواندێز\)](#) is a stone-cast away, and the two cities share this lovely, harmonious upland. While waiting for its green, environmentally friendly building to be erected on a hilltop overlooking the cities of Soran and Rewandiz, its existing city campus has been meticulously set out to accommodate the lovely natural landscape. The new campus will be the first of its type, being walkable, balanced, powered by renewable energy, and compliant with all international environmental regulations. There are 5 Faculties in [SUN](#); [Faculty of Arts](#) (FAAR), [Faculty of Science](#) (FSCN), [Faculty of Education](#) (FEDU), [Faculty of Law](#), Political Science, and Management (FLAW/PSM), and [Faculty of Engineering](#) (FENG). Also, there is SUN research centre. Moreover, at SUN, there is a Language Center. SUN signed many Memoranda of Understandings (MoU) with many International Universities,

How to get here

Soran University (SUN) is located in the heart of the city of Soran. The main city campus is easily found on Google Maps for direction.