

"Waste Management to Ensuring Safety and Enabling Sustainability"

A Workshop at
Soran University (SUN)



Department of Chemical Engineering

This workshop is arranged by SUN's
Department of Chemical Engineering

Solid waste management (SWM) is an integral part of an environmental management system and economic improvement. Recycling of waste to the new product or eliminate the potential hazard are crucial challenge nowadays due to the huge of industrials waste around the world. Rapid increase in waste generation production is putting tremendous strain on Kurdistan Region waste handling infrastructure. In the absence of modern and efficient waste handling and disposal infrastructure most of the waste is disposed in unregulated landfills, whcih is leading to negative impact on the human and environment.

بەرێوەبردنی پاشماوهی رەق (SWM) بەشیکی دانەبراوێ له سیستەمی بەرێوەبردنی ژینگە و باشتەركردنی ئابووری. دووبارە بەكارهێنانەوهی پاشماوه بۆ بەرھەمه نوێیەكە یان نەهێشتنی مەترسییە ئێگەرییەكان لەم سەردەمەدا تەحەدای یەكلاكەرەوهن بەهۆی زۆری پاشماوهی پیشەسازییەكان لە سەرانبەری جیهان. زیادبوونی خێرای بەرھەمەینانی پاشماوه، فشارێکی زۆر دەخاتە سەر ژێرخانی مامەڵەکردن لەگەڵ پاشماوهی هەریەمی كوردستان. لە غیای ژێرخانی مۆدێرن و كارامەیی مامەڵەکردن و فرێدانی پاشماوه زۆربەیی پاشماوهكان لە زبڵخانه رێكنەخراوهكاندا فرێدەدرێن، ئەمەش دەبێتە هۆی كاریگەری نەرێنی لەسەر مەروۇف و ژینگە.

تەد إدارة النفايات الصلبة (SWM) جزءاً لا يتجزأ من نظام الإدارة البيئية والتحسين الاقتصادي. تعد إعادة تدوير النفايات وتحويلها إلى منتج جديد أو إزالة المخاطر المحتملة تحدياً كبيراً في الوقت الحاضر نظراً لضخامة النفايات الصناعية حول العالم. إن الزيادة السريعة في إنتاج النفايات تضع ضغطاً هائلاً على البنية التحتية لمعالجة النفايات في إقليم كردستان. في ظل غياب البنية التحتية الحديثة والفعالة للتعامل مع النفايات والتخلص منها، يتم التخلص من معظم النفايات في مدافن النفايات غير المنظمة، مما يؤدي إلى تأثير سلبي على الإنسان والبيئة.

Speaker Profile



Prof. Ibtisam Mustafa Kamal teaches Process Engineering at the [Faculty of Engineering \(FENG\)](#). She earned her B.Sc. in 1975 and her M.Sc. in 1982 in Polymer Technology from the University of Basrah in Iraq. In 1990, she received a PhD in Polymer Technology from the [University of Basrah](#), and in 2012, she received her 2nd PhD (HDR) in Process Engineering from [La Rochelle University – France](#). Prof. Kamal's research effort is evidenced by over 140 peer-reviewed scientific articles and two patents, one of which is European. Prof. Kamal's research focuses on the simulation, optimization, and modelling of materials production processes, namely biofuels, environmentally friendly drilling fluids, smart building materials, and green nanoparticles.

badiea abdullah mahyoub Is associate professor since 2017, A lecturer at many universities since 2011., Ph.D in Corrosion Engineering, [Mysore University](#), India, 2010. M.Sc. in [Chemical Engineering](#), specialist of Heat Transfer, [Basra University](#), Iraq, 2003, bachelor's degree in chemical engineering, [Baghdad University](#) 1999. He has more than 30 publications in the area of Corrosion Engineering, Energy, Engineering Maintenance, solid waste recycling, and nanofluids. Two years Head of Industrial and Manufacturing System Engirting, four years vice- dean of Faculty of Engineering and Information Technology, and three years dean of Postgraduate Studies Center, Tazi University.



Dr. Hamid Kazemi Hakki (B.Sc., M.Sc., PhD) works as a researcher and lecturer in the [Department of Chemical Engineering \(DCHE\)](#) at FENG. He received an M.Sc. and a Ph.D. in Chemical Engineering from [Sahand University of Technology](#) (SUT) (Tabriz-Iran). He worked as a lecturer and supervisor at [Urmia Technical University](#), as well as at SUT. In 2021, he was named Iran's greatest technologist by the Ministry of Education. His principal scientific interests include photocatalysis and catalysis, photoreactor and microphotoreactor design, silica aerogel and novel photocatalyst synthesis, photocatalytic, hydrophobic, and anti-fog coatings, and the recycling of plastic wastes into useful items.



Miss Khadijeh Mirza (B.Sc., M.Sc.) is an Assistant Lecturer in the Department of Chemical Engineering (DCHE). She earned a BSc in Chemical Engineering with a minor in the Petrochemical Topic, as well as a Master's degree from the same department in Transport Phenomena from [Urmia University of Technology](#) in Iran. Environmentally friendly industrial processes, waste management, equipment design, and modelling are among Khadijeh's research interests.

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 \(Rawanduz, رەواندز\)](#) 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.



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