



## A- PERSONAL DATA :

- Name: Torhan Mudher Hassan (Al-Mufti).
- Nationality: Iraqi
- E-mail & Website: [muftitorhan@yahoo.com](mailto:muftitorhan@yahoo.com) – [www.torhanmufti.com](http://www.torhanmufti.com)
- Mobile:
- Family Status: Married (have three kids)
- Language: Turkish - Arabic – English - Kurdish

## Education:

- B.Sc. Geology, 1994, Mosul Univ. (The Third on the Stage).
- IQ. Examination 1995, Baghdad, (The Third on Iraq).
- Efficiency in English Language. 1994, Mosul Univ.
- M.Sc. Geochemistry (environmental), 1996, Mosul Univ.
- Efficiency in Computer, 1999, Mosul Univ.
- Ph.D. Using remote sensing in geochemistry, 2002, Mosul Univ.
- License in Operational Research, 2001, Center of administration development .Baghdad.
- License in advance statistic, 2002, Center of administration development. Baghdad.
- Executive leadership program certificate, institution on governance, Canada, 2016-2018.
- Special certificate in local government's administration from ENA, 2019, (FRANCE)

## **Professional Membership:**

- 1- Iraqi Geology Union.
- 2- International Council of Museums (ICOM) .
- 3- American association of petroleum geologist. (AAPG) .

## **B- Personal and Professional Qualities**

- 1-A scientific figure with a systematic work.
- 2 -Ability to think outside the box.
- 3-Superior ability to manage the duties.
- 4 -Ability to dismantle and simplify the problems and find solutions.
- 5-Ability to work on multiple files in parallel.
- 6-Adaptability to the environment.
- 7-Encyclopedic culture.

## **C- Conferences:**

Participant and chair of dozens of international and local conferences in the fields:

- 1-Scientific conferences in fields of geology - oil - agriculture – archeology in countries: Iraq, America, Malaysia, Turkey, Tunisia, Jordan, and Egypt.
- 2-Political conferences in the state administration, security affairs & economic issues. In countries: Iraq, Austria, Turkey, Azerbaijan, Britain, Spain, China, Qatar, Italy, Lebanon.
- 3- Conferences of strategic studies in the countries: Iraq, Slovenia, Pakistan, Lebanon, Turkey, Azerbaijan, Austria

## **D-Courses and Workshops**

Participated in dozens of development courses and workshops since 1998 – Recent day. In the fields of:

(Geology, oil, statistics, personnel methodology, senior management, industrial safety, remote sensing, geochemistry, local governments, and authorities' distribution) in the countries: (Iraq, the United States, Britain, Italy, France, the Emirates, and Canada).

## **E-Awards and Recognitions:**

- 1- Received the Outstanding Prize (IQ) in 1995 (third in Iraq).
- 2-Holds a patent for innovation within the 1996 team
- 3- Awarded the innovative research evaluation 2003-2009.
- 4- Recipient of the European - Arab Prize for Digital Technologies (the first Iraqi to win this international award) 2012.
- 5- Received the European-Arab Geomatics Prize 2012.
- 6- Best Turkmen character for the year 2013.
- 7-Recipient of the Balkan and Middle East Prize (the first Iraqi minister to take this award) for the year 2014, and it is intended for those who made changes in their countries
- 8- Recipient of the Public Diplomacy Award for Turkish-Speaking Countries, 2014.
- 9- One of the top ten political figures in Iraq for the year 2014.
- 10- One of the twelve best personalities in Iraq for the current period in the field of public policy and administration 2017.
- 11- Holds prizes and certificates from America, Britain, Turkey, Slovenia, Tunisia, Azerbaijan and other countries.

## **F-Innovative Achievements and Discoveries:**

- 1- Recording an innovative search in the interpretation of satellite images, 2002.
- 2- Registration of an innovative research in the production of antitoxic clays 2010.
- 3-Discovered of three ancient rivers in the ancient city of Nineveh (recorded for the first time internationally) 2012 (archaeological study).
- 4-Discovered of the method of collapse of the historical city of Hatra (recorded for the first time internationally) 2015 (archaeological study).
- 5-Discovered five new oil structure in Iraq (registered for the first time in Iraq) during the period 2005-2021.
- 6- exploration of new towers in zindan hill (archiological study)

## **G-Scientific Achievements, Researches and Studies:**

- More than sixty research and studies published inside and outside Iraq in the fields of (oil - environment - remote sensing - geochemistry - agriculture - archeology - environment - strategic studies) and they are:
  - 1- Oil researches (19 researches and studies) on oil properties, determining some oil fields extends, determining the structural phenomena of oil fields.
  - 2- Archeology researches 15 researches and studies, book number 1) on archaeological rivers, ancient cities, reinterpretation of some historical events.
  - 3-Agricultural researches (4) on the use of clays as a antitoxic in feeds
  - 4- Remote sensing researches (17 researches and studies) in the fields of oil, environment, and archeology.

5- Geochemistry and environmental researches (19 researches and studies) in the fields of mineralogy, geochemistry of elements, environment and pollution.

6- Strategic studies (16 studies) in the fields of local administration, components, transparency, terrorism, and geopolitics.

7-Supervising postgraduate students in universities (Kirkuk and Tikrit, Istanbul, Al-Bait "Jordan") in the fields of geochemistry, environment, remote sensing, agriculture, geological statistics, petroleum geology)

8-Dozens of scientific lectures and seminars at different universities and international institutions

9-Dozens of articles published on a different of websites, newspapers and magazines.

10-Dozens of studies and lectures in the field of decentralization.

### **H-Authored Books:**

1- Book on decentralization in administration, in two parts. 2012.

2-Poetry book called Nassif Al Shams 2012.

3-Poetry book called Sahel Sakina 2013.

4-Poetry book called Mausum Narcissus 2018.

5- The book Al-Tajdid fi Tafsir wa Al-Athar (Al-Jeb in Yusuf's story as a model) 2020. (ARCHILOGY AND QURAN).

6- Articles on Iraqi affairs 2022

### **I- Current Duties:**

- Advisor to the Iraq prime minister of Iraq for water issues .

-Academic and Expert:

- Associate supervisor of post graduate studies at the University of Kirkuk.

- Member and consultant in a number of international and local studies institutes and centers.
- Member of the American Society of Petroleum Geologists (an international organization)
- Member of the International Geomatics Organization
- Member of the Iraqi Geologists Syndicate
- Member of the International Organization of Local Governments
- Member of the International Society of Iraqi Scholars.
- Actual service in the Iraqi state for more than 23 years.

### **J-Gratitude and Appreciation:**

Holds more than forty letters of gratitude and appreciation from:

- Mr. President of the Republic
- Mr. Prime Minister
- Mr. Speaker of Parliament
- Ministers
- Secretary General of the Council of Ministers
- International institutions and organizations.

### **K-Previous Duties:**

- 1- Advisor pf provinces affairs (office of the Iraqi parliament speaker) 2022-2024.
- 2-Representative of the government in the parliament 2017-2020.
- 3-Head of the Secretariat of the High commission for coordinating among provinces (Minister's degree) 2015-2020, 2010-2014
- 4-Chairman and member of many committees (more than 50 committees during 2010-2020), the most important of which are:

Investment Land Allocation Committee, Religious Tourism, Negotiating with Investors, Authorities delegation to Local Administrations, Committee for Removing Water trace passing , Member of the Supreme Water Committee, Housing Initiative Committee, Airport Committee, Ethnic Balance Committee, Constitution Amendment Committee, Committee for Follow-up of All State branches , Committee Automated by the Registrar of Companies, Law Amendment Committees, Administrative Guillotine Committee, Height positions candidates Selection Committee, Energy Committee, Services and Construction Committee ... etc.

4-Adviser to the President of the Republic 2014-2015.

6- Minister of State for Provincial Affairs 2010-2014.

7- Acting Minister of Communications 2012-2014.

8-Member of the Kirkuk Provincial Council, 2005-2010

9-Senior Chief Geologist / north oil company 1997-2010

10-Expert degree 2015.

10- University professor and lecturer 2000- now (as a supervisor of post graduate studies).

## **L- Achievements in the Provincial Affairs and Decentralization Approaches:**

- Over than 50 meeting composed by central government and local governments 2011-2014, 2015-recent day.
- Tenth orders to concentrate the decentralization 2011-2014 ,2015-recent day .
- Rewrite the article 21 (the local government low) 2011, 2015
- Working on the article (draft of low) of the authorization between the central government and the local governments 2011,2 016
- Write draft of low of (mukhtarin low) 2011
- Working on transfer some duties from different ministries to the governorates 2011-recent day

- Working on transfer the duty of lands from the central committees to the local governments 2011-recent day
- Transfer the central projects which is not high cost to the local governments -2011
- Activation of the coordinator committee among the local governments and central government 2011- recent day
- Working to give the bought transfer authority to the governors 2011,2014
- Chairman of decentralization conference – hold at Baghdad 27-28/Feb./2012
- Write draft of the Iraq capital low 2012
- Establishment of planning and development council of each provinces 2013, 2016
- Super visor on book of studies on decentralization. Two parts p(1) 360 and p(2) 330
- Transparency and decentralization in Iraq, presentation submit to Iraqi Institute for Economic Reform symposium, Baghdad, April ,2015
- Chairman of tenth committee about the relations among provinces and solve problems
- Member of steering committee on fiscal decentralization with Canadian government 2015-recent day.
- Establish of trace passing curt in the provinces .2016
- Established of finance and management directory in the provinces 2017
- Writing and improving of maximize of local revenue (local low) for the provinces 2017.
- Team leader of writing of public policy of education, health, labor and social affairs, youth and sport, municipality and housing, agriculture. 2017.
- Establish of Performance Control and evaluation of Service Evaluation departments at the province's 2018.
- Tenth of other projects in decentralization.

## **M-Achievements in the Communications:**

Some of the most important achievements in the field of communications:

- 1- Establishing a general policy for communications in Iraq
- 2- Expanding the optical cable network.
- 3-Connecting Iraq to the submarine cable.
- 4-Reducing internet service tariffs.
- 5-Establishing the space division as the first step of the Iraqi Space Agency.
- 6-- Increasing the use of the Internet to more than eight times the previous period.
- 7-Plans to turn Iraq into an international Internet crossing.

## **N-Achievements in the field of investment promotion:**

-Chairman of the Committee for Land Allocation for Development and Investment Projects for the period (2010-2014) and (2015-2020). And allocating more than 2,300 investment and development pieces.

- Establishing a committee to follow up and activate investment projects that are lagging due to the government, vice president of this committee, and activate dozens of investment projects for the period (2017-2020).

- Head of the negotiation team with investors for the lagging projects and the activation of these projects for the period (2017-2020) and the success of dozens of projects.

- Active participation in amending the investment law and the system of the law in Iraq.
- Automation of the lands which allocating for investment.
- Participate in most of the investment committees and simplify procedures.
- Acting as an investment reference in many of the problems occurring for investment projects with the government.

## **O-Titles of Studies &Research:**

- M.Sc. Thesis: Mineralogical Geochemical Study of Recent Sediments of Tigris Comparison it with Sediments of Water Tanks at Mosul City.1996
- Ph.D. Thesis: Remote Sensing Techniques Geochemical Evidences For Interpretation of Thermal Anomalies in Qara Chauq & Bai Hassan, Northern Iraq.2002
- Investigation of Oil Contamination By Using Remote Sensing & Geochemical Evidence in Zab Area, N Iraq, Pub. In 1st Geology Magazine in Mosul, pp. 235-245. 2002
- Mineralogical Geochemical Comparison Between Recent Sediments of Tigris River & Water Tanks of Mosul City, Rafidain Sci. Jr.,No 2, V11, pp55-67. 2000
- Environmental Pollution of Tigris River's Recent Sediments & It's Stability, Rafidain Sci. Jr.,No. 2,V.11, pp52-65. 1999
- Pollution in Iraq after 4 Years of the War 1991, Pub. in Rolex Rewards Book .1995
- Statistical Study of Oil Compounded of Khabaz Oil Field, Oil Ministry Pub, p30 2001.
- Limitation of distances of Ismael structure and it is relation with the others structures, , Oil Ministry Pub., p12 2003

- Limitation of two Structures in N.E Kormor structure and limitation of distances of Aj dag and Kormor structures by using space imagery. Oil Ministry Pub, p15 2004
- Industrial Hard Scraps Locations and it is effect on the Water of Tigris River. Mosul City North of Iraq. Environmental Conference for Arabian Cities Pub. .Syria.pp56-67 2004
- Limitation of Sulfurous Soil in Northern Iraq and it is Using in Agriculture By Remote Sensing Technique. (Under Pub. 2005
- Limitation of the main Faults on (kithkka dome) Bai Hassan St. Northern Iraq. Spatial study for north oil co.20 p 2006
- Efficiency of Local Mineral Mud (M-T Mud) and (K-Mud) as Adsorbent Agent for Alatoxins.18TH INTERNATIONAL SOIL MEETING PUB(ISM). Turkey.V1 .pp142-1482006
- Joint study of Bai Hassan structure with conocophilips co. USA 2006
- Effect of using two type of local mineral mud (mohammed-torhan and Kirkuk) instead of activated sodium bentonite upon hematological and biochemical parameters for female quail fed diet contaminated with aflatoxin. Kirkuk Univ jour for sci.sturdies vol,2 pp 94-106 . 2007
- Study of gas-oil-water levels in khormalh dome(Kirkuk oil field...report for north oil company 2009
- Geochemistry study of Qayarh oil field..... study for north oil company 2010
- Environmental and biological study of the effective of hydrocarbon contamination in (wadi neft)-Kirkuk .Kirkuk university journal-special issue for1st cinf.vol4.no3. Pp70-88 2010
- ( Iraq ; Ability of dividing) Presentation at Baghdad federal conference-Baghdad Iraq 2011
- (IRAQ: PRESENT AND FUTURE CHALLENGES) Presentation at organization Islamic countries. Hold at Azerbaijan 2012.
- Using of remote sensing teq. In investigation of ancient Ninawa city. Northern Iraq .Pup .sumer meg. No.56(2011) ,pp407-417 2012
- Evaluation of efficiency of local muds (shorawaa-1 and turkishkan -1) Kirkuk-Iraq used in poultry feeding as a adsorb factor of afla toxin. International animal science congress of Turkish and relatives. Univ. Suleyman demirel. agriculture fak.isparta turkey 2012

- Efficiency of local muds (shorawaa-1) as a adsorb agent for aflatoxin in broiler diet. International animal science congress of Turkish and relatives. Univ. Suleyman demirel. agriculture 2012
- Iraq: different management levels (federalism &decentralization). Presentation at Alnahrain strategic center, Baghdad, 2014.
- Mineralogy and geochemistry of quaternary mud deposits at turkishkan region, south Kirkuk. Iraq .Tikrit journal of pure science ,vol.19,no.3,80-91 ,2014
- ISIS&Qaida : Opposite in leaderships and bases. Presentation submit at Alnahrain strategic center, Baghdad. 2015.
- Strategic Crescent in the Middle East. Presentation submit at Alnahrain strategic center, Baghdad, Iraq 2015.
- Iraq 4G (geology, geography, geopolitics, geostrategic), presentation at vein –Austria. United nation society and foreign affairs .vein-Austria, 18th-feb.2015.
- Iraq &middle east : triple problems , presentation at 6<sup>th</sup> think tanks platform of Islamic countries, Islamabad -Pakistan,7<sup>th</sup>- march- 2015
- The Reconciliation concepts and administration systems at Iraq, presentation submit to the Dijla center for strategic studies ,Baghdad June , 2015
- Analysis of ancient historical novla the fall of the city of Hatra by using remote sensing techniques, Sumer jer., vol LX1,2015, pp275-300.
- Iraq component and the recent challenges, presentation submit at the nahrain strategic center, Baghdad, Sep., 2015.
- Iraq 5G (Geology , geography , ,geopolitics , geostrategic , geobrilliant ) ,presentation at bait alhikma at Baghdad , oct, 2015.
- Study of North West extension of makhul structure using remote sensing techniques (central Iraq). Paper submitted , third Iraq oil and gas conference 30p.,oct,2015
- Morphotectonic study of lower zab river using remote sensing techniques (northern Iraq). International journal of environment and water.ISSN 2052-3408, VOL.5, ISSUE 3,201, PP14-23, 2016.

- Determined two new structures (south east khanoqa and north tharhtar) using remote sensing technique (central Iraq).Geo-Sp Mag. , vol 6, no 16. , geo – Tunis 2017.
- Using of remote sensing in water policy studies in Iraq, paper and presentation submitted at symposium of water management by using GIS and remote sensing, ministry of water resources, Iraq. 2017-12-12.
- Iraqi component and maintaining the unity of Iraq, paper and presentation submitted at Iraq unity and democracy at BAYAN center of planning and studies, at 2017-12-17.
- Geostatistical evaluation of oils in different reservoirs of khabaz oilfield (northern Iraq). Geological bulletin of turkey, vol 60, issue 3, pp 347-363, 2017.
- Geomatic study of suspended sediments in selected samples of Tigris river between sarafiya bridge and alshuhadaa bridge ,Baghdad-Iraq .jour Kirkuk univ. /scientific studies (kujss),vol 13 , issue 3, sept 2018 ,pp(174-187)
- Middle east; Decentralization administration (Iraq as an example), presentation submitted at Istanbul security conference, turkey, 07-09 Nov, 2018 , TASAM center .
- Determination of the morphostructure phenomenon in northeast Kirkuk by remote sensing techniques, paper submitted at the first international conference of AL-Karkh Univ of science, 14-15/Nov/2018, Baghdad.
- Determine the northwestern extensions of the Bai Hassan field (Daoud Dome 0and it is geological relationship with the area of well Ismail -1 ,northern Iraq . paper submitted at the first scientific conf. for exploration researches , ministry of oil , oil exploration co., Baghdad, Iraq, 21-21/NOV/2018.
- Structural study of cretaceous formations for sufaiya area northwest Iraq. Jour of petroleum researches &studies, oil ministry, Iraq, issn 22205381, pp41-51, 2018.
- Study of North West extensions of makhul structure using remote sensing techniques central Iraq. Jour of petroleum researches &studies, oil ministry, Iraq, issn 22205381, pp E47-E70, 2018.
- Shale geochemistry within kolosh formation (Paleocene –early Eocene) in dokan region – northeastern Iraq; implication for province, pale weathering and tectonic setting. Kirkuk univ. jour/ scientific studies (kujss), vol14, isuue 2, june 2019, pp125-144, issn; 1992-0849.

- Identify the main faults on Kithkeh dome (Bai Hassan structure) using remote sensing techniques. Journal of Petroleum researches & studies, vol24, ISSN22205381, pp 21-32, 2019, Iraq.
- Historical and linguistic study of the event of flood in Mesopotamia ,jour. Education college, Wasit Univ. no.39,part1,pp313-338,2020,Iraq
- Using of remote sensing in protection of archeological sites in Iraq, presentation submitted at special symposium for Iraq heritages protection, by COMSIC, 5<sup>th</sup> /06/2020.
- Install the Iraqi components and sovereignty, presentation and paper submitted at Iraq sovereignty and international relationship online conf, Kirkuk Univ. august, 2020.
- Using of remote sensing in archeological studies at Mosul and Erbil cities, presentation submitted in special symposium at wasit Univ. 19<sup>th</sup> /10/2020.
- Output of instability in Middle East and North Africa, presentation submitted at 6<sup>th</sup> Istanbul security international conf. Turkey-Istanbul, 5<sup>th</sup> /11/2020. Published in summery booklet, p32.
- Evaluation of elements composition of maze (zea mays ) cultivated in Kirkuk, and their environmental impacts ,northern Iraq. middle east conf. on contemporary scientific studies-v ,proceedings book volIII,pp225-240,Ankara turkey .march 2021 .
- The Arab and the Achaemenid innovation of Egypt (529- 521B.C.),paper the recent trends in innovation ,creation and technology conf. publish issn 2785-9908, pp262-278,Egypt-Matroph (4-8)april-2021.
- Water supply problems at south of Iraq and it is treatment until (539B.C.), paper submitted at the first international conf, of karbala univ, education college , Iraq, 4<sup>th</sup>,augest-2021.
- Determination the morphostructure phenomenon, east khor al-zubair by space imageries. 4<sup>th</sup> international conf, on Geomatics applications pub., no.26,vol9,june2021.
- Geochemical distribution of some heavy metals in agricultural soil and their environmental impacts, in Kirkuk, northern Iraq. Iraqi geological magazine no2A,vol54,2021.
- 'The structural situation and hydrocarbon potentials of the Paleozoic sequences for the qaim and akkas area, western Iraq , paper submitted at the second internationals conf, of petroleum and petrochemicals ,technology uinv, Iraq ,may 2021

- Determination of northwestern extensions of bai Hassan field (daoud culmination) and it is geological relationship with ismail-1 area, northern Iraq , journal of petroleum research and studies ,no31,june 2021,pp74-85.
- Geochemical distribution of some heavy metals in agricultural soil and their environmental impacts in Kirkuk, northern Iraq. Iraqi geological JOUR. Vol54(2A) PP 75-92. 2021.
- Water supply problems in southern Iraq and ways to treat them , up to a year 539 BC,The first scientific conf.,karbala Univ.,april ,2021,pp880-893.
- Tattoos are a manifestation of the ancient Mesopotamian heritage , jour. Of athar al-rafedain,vol.7, no.1, issn 2664-2793 online, univ of mosul ,college of archeology pp97-129, ,2022
- Extension of the saline water of Arabian gulf and its relationship to the cities of the southern Mesopotamia by using of remote sensing ,jour summer , vol 66 ,2020, pp 89-109,2022.
- Satellite data and their uses in exploring hydrocarbon structures (determination of the morphostructure phenomenon north of tharhar ;ake- central Iraq ). Geo-Sp Mag., Vol 10,NO.27, PP1-12,Feb,2022.
- Proving the origin and migration of oils by using its physiio-chemical properties, northern Iraq .middle east international conference on contemporary scientific studies ,vii,Vol2,ISBN 978-625-8405-85-9,PP153-168, BEIRUT Arab Univ., 2022,
- using remote sensing techniques in the exploration excavation of the archaeological zindan hill, The second scientific international conference for Biology and pure science19th - 20th October 2022college of science university of Mosul
- Identification of Gypsum and Gypsiferous soil by using remote sensing data (northern Iraq).the first transcendental scientific conf. Kirkuk university . December,22,2022.
- Geochemical evaluation of Injana formation clays used in the manufacture of kilns: Kirkuk northern Iraq .international jour. Of geography ,geology, and environment .2023(1)pp105-110.
- Land transportation routs between erbil and Kirkuk. Wasit jour. Of humanities and social scince ,uiniv of wasit,Iraq vol 19,issue 53,6-5-2023,pp21-36.

- The battle of kut al-amara (al-emara) and the Iraqi role in it ,the first volume of the historical researches of wasit governorate, wasit univ. publications, 2023 pp1-19.
- Iraq; desertification ,drought and storms, TASAM publications, international relations series , pp 394-419.2024
- Geostatistical analysis application to evalute heavy metal distribution in stream sediments if shwan sub – basin ,Kirkuk ,northern Iraq. iraqi geological jour. 2025,58(1B) pp165-179>