

GIER and Accompanied Activities		
Monday 6th March	QGIS for Beginners Workshop* *Registration is required	Page 2
Tuesday 7th March	First Symposium Day: <ul style="list-style-type: none"> - Opening session - Special Keynote Speaker - Session 1-1 Extreme Weather Events: Early Warning, Mitigation and Adaption - Session 1-2 Geospatial Information for Urban Planning and Flood Management 	Page 3
Wednesday 8th March	Second Symposium Day: <ul style="list-style-type: none"> - Session 2-1 Climate Change in Arid Region - Session 2-2 GIS data in Meteorology and Infrastructure - Session 2-3 Geospatial Information Research in Ecology - Closing session 	Page 6
Thursday 9th March	Site Visit: National Multi Hazard Early Warning Center; Meteorological Services	Page 8

Version 3



Regional Symposium on Geospatial Information Exchange and Research (GIER)

GIS Workshop: Monday, 6th March 2023

QGIS for Beginners¹

12:00-15:00

GU2 101 Computer lab – German University of Technology in Oman

¹ Separate Registration is required to join this workshop.

For more information about workshop registration and fees, contact GIER@gutech.edu.om



All Symposium Sessions will take place at GUtech Campus – RH, Main Building²

First Symposium Day: Tuesday, 7th March 2023

09:00- 09:30 Registration		
09:30-10:15	Opening Session Under the patronage of H.E. Eng Ali Al Abri, Undersecretary of Ministry of Agriculture, Fisheries Wealth and Water Resources, for Water Resources	
Chair: Prof. Dr. Ekkehard Holzbecher, GUtech, Oman		
09:30-09:35	Symposium Chair Speech	Prof. Ekkehard Holzbecher Department of Applied Geosciences, GUtech
09:35-09:45	Opening Speech	Prof. Michael Braun Rector, GUtech
09:45-09:55	Message from the Ministry of Agriculture, Fisheries Wealth, and Water Recourses	Ministry Representative MAFWR, Oman
09:55-10:05	Oman Space Policy	Dr. Saud Al Shuaili Team Leader of National Space Programme
10:05-10:15	Message from Meteorological Services in Oman	Dr. Humaid Al Badi Meteorology Services, Oman
10:30-11:15	Special Keynote Speaker Prof. Klaus Schilling	
10:30-11:15	Formations of Very Small Satellites for Innovative Earth Monitoring	Prof. Klaus Schilling President Center for Telematics, Wuerzburg, Germany
11:15-11:30 Coffee Break		

² Free of charge for registered participants. For registration before 6 March 2023, check the link: <https://forms.office.com/r/9gSc94TnSN>

11:30-12:45		Session 1-1 Extreme Weather Events: Early Warning, Mitigation, and Adaption
Chair: Dr. Said Al Sarmi, SQU, Center of Environmental Studies and Research, Oman		
11:30-11:55	Cyclones Across the Arabian Sea	David Membery <i>Formerly with the Met Department at Seeb Airport</i> United Kingdom
11:55-12:20	The importance of geospatial information systems in the management of torrents and flash floods "A case study of the hydrogeomorphology of the Nile River north of the city of Khartoum"	Abbas Babiker <i>Imam Muhammad Ibn Saud Islamic University</i> Saudi Arabia
12:20-12:45	Investigation of the wildfire with the Use of Canadian Fire Weather Index and MODIS products	Ebrahim Asadi Oskouei Climate Change Centre, Iran
12:45-13:45	Lunch Break and Pray	

13:45-16:00		Session 1-2 Geospatial Information for Urban Planning and Flood Management
Chair: Dr. Humaid Al Badi, Meteorology Services, Oman		
13:45-14:20	<u>Keynote</u> The Server based unified thematic Geological mapping in cloud computing, approach: Deep Machin Learning	Hamid Nazari <i>UNESCO</i> Iran
14:20-14:45	Analysis of the impact of urban expansion on the edge of valleys on the aggravation of the risk of flooding - case of the Algerian arid regions	Abderrahmane Noui <i>Center for Scientific and Technical Research on Arid Regions (CRSTRA)</i> Algeria

14:45-15:10	Inferring active fault within desiccated parts of Lake Urmia, NW Iran	Aram Fathian <i>RWTH Aachen University</i> Germany
15:10-15:35	Performance of Temperature Laps Rate estimated from MODIS LSTs over Iran	Yashar Falamarzy Climate Change Centre, Iran
15:35-16:00	Impacts of Land use Land Cover Change (LULCC) On Flash Floods in Semi-Urban Settings and Arid Climatological Zones	Anwarelsadat Elmahal <i>University of Khartoum</i> Sudan
16:00-16:25	Urban Heat Island Effect over Oman	Kahlan Al-Toubi Meteorological Services Oman

Second Symposium Day: Wednesday, 8th March 2023

09:00-10:50		Session 2-1 Climate Change in Arid Region
Chair: Prof. Dr. Ekkehard Holzbecher , <i>GUtech, Oman</i>		
09:00-09:35	<u>Keynote</u> Impact of Climate Change on Flood Inundation Maps in Turkey	Elcin Kentel <i>Middle East Technical University</i> Turkey
09:35-10:00	Climate change and Health; Predicting allergic and non-allergic respiratory diseases outbreaks in correlation with air pollution by leveraging Artificial Intelligence in Gulf Cooperation Council (GCC) countries	Samia Al-Shouli <i>King Saud University</i> Saudi Arabia
10:00-10:25	Trends in “Hydrospatial” Science Research	Rifaat M Abdalla <i>Sultan Qaboos University</i> Oman
10:25-10:50	Climate Change: Current Status and Prospects of Solar Energy in GCC Countries	Ibtihaj Alsiyabi <i>GCC Stat</i> Oman
10:50-11:05	Coffee Break	

11:05-12:45		Session 2-2 GIS data in Meteorology and Infrastructure
Chair: Ahmad Al Barwani , <i>Oman water Society, Oman</i>		
11:05-11:30	Rainfall Enhancement Project in the Sultanate of Oman	Yarub Alamri <i>Ministry of Agriculture, Fisheries Wealth and Water Resources</i> Oman
11:30-11:55	Comparative of Rain Estimation between Rain Gauges, Space born and	Aisha Al Hashmi

	ground-based radar and for extreme rainfall events in Oman	<i>GUtech</i> Oman
1:55-12:45	GIS data Governance: GIS Data Submission Process for build-in project, replacement project at Oman electricity Transmission Company	Rahma Al Balushi <i>Oman Electricity Transmission Company</i> Oman
12:45-13:45	Lunch Break and Pray	

13:45-15:00 **Session 2-3**
 Geospatial Information research in Ecology

Chair: **Prof. Rifaat Abdalla**, Sultan Qaboos University, Oman

13:45-14:10	Vegetation and cloud cover shape semi-arid carbonate landform development	Amani Alabri GCC-Stat Oman
14:10-14:35	Application of deep learning in remote sensing space data for analyzing the biodiversity of the ecosystem	Yaseen Al-Mulla Sultan Qaboos University Oman
14:35-15:00	Towards Geo-information System-based Enhanced Environmental and Natural Resources Management in Sudan.	Mohamed Osman <i>University of Khartoum</i> Sudan
14:35-15:45	Lunch Break and Pray	

15:45-16:15 **Closing Session**
 Closing Remarks and open discussion

Chair: **Prof. Dr. Ekkehard Holzbecher**, *GUtech*, Oman

	Closing Statement and Concluding Remarks	
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Site visit: Thursday, 9th March 2023

National Multi Hazard Early Warning Center, Meteorological Services

09:00-11:30 Start and End Location: Holiday Inn, Seeb

08:30	Departure from Hotel
09:00	Arrival at the Civil Aviation Authority.
11:00	Arrive at the Hotel