

# UNESCO Chair on Coastal Geo-Hazard Analysis

Research Institute for Earth Sciences  
Geological Survey of Iran

## Annual Report

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2023  
NOVEMBER  
Annual Report



UNESCO Chair on  
Coastal Geo-Hazard Analysis  
Research Institute for Earth Sciences  
Geological Survey of Iran



The logo consists of a blue square with a white horizontal bar across its center. The word "UNITWIN" is written in white, bold, uppercase letters on the blue background.

**UNITWIN**

The logo consists of a grey horizontal bar with the text "UNESCO Chairs" in white, bold, uppercase letters.

**UNESCO Chairs**

The UNITWIN/UNESCO Chairs Programme mobilizes expertise of higher education and research institutions to address the interdependent challenges of today's increasingly complex world.

It was established in 1992 with the vision to advance an integrated system of research, training and activities in diverse fields by building university networks and encouraging inter-university cooperation through the transfer of knowledge and expertise across borders.

The UNITWIN Programme is a unique intellectual and strategic resource of some 900 institutions from over 120 countries aimed at strengthening connections between research and development policy and practice at country, regional and global levels.

**Annual Report / November 2023**  
(after guidelines and procedures, revised March 2022)

The background of the cover is a photograph of a large, circular geodesic dome structure, possibly a stadium or a modern architectural feature, with a blue sky and clouds visible through the mesh. The dome's structure is composed of many interconnected lines forming a spherical shape.

The UNITWIN/UNESCO Chairs Programme

**Guidelines and procedures**

Revised March 2022

The logo consists of a blue square with a white horizontal bar across its center. The year "2023" is written in white, bold, uppercase letters on the blue background.

**2023**

# PREFACE 2023

## Executive office

The growing crisis caused by the effects of climate change and global warming has moved the global community away from carbon emissions. Sustainable development and achieving biological resilience through the use of clean and renewable energy, which is one of the provisions of the global climate conventions, brings the maximum development and localization of technology and knowledge, the development of infrastructure as well as the generalization and economization of this part of knowledge for everyone until 2030.

Today we are witnessing the rise and increasing use of "Artificial Intelligence" as a paradox between modernity, backwardness and sometimes tinged with demagoguery like other areas of knowledge in geological studies! In response to this problem, the production of basic geological information is associated with the production of wealth, the protection of national capital and its optimal management with the exploration of mineral resources, the estimation of possible geological risks and the preparation of land.

In this regard, geological maps can be mentioned as one of the most basic and complex information layers of geological data in the surface view of a territorial area. In different countries, the preparation of this basic information is considered the mission of the government, including geological surveys, universities and research institutes, the private sector or the participation of both, with the exponential explosion of the access to technological sciences at the beginning of the 21st century and new technologies to meet the ever-growing needs of the world's population, particularly disadvantaged countries, on the path to sustainable industrial development, agriculture, food security and, ultimately cycle...of the accumulation of wealth as an indicator of capacity and resilience as power inevitably leads to an ever-increasing use of effective human power and this depends on the knowledge that it is become a global trend.

Unfortunately, as we mentioned in the first annual report of the UNESCO Chair on Coastal Geo-Hazard Analysis, all contradictions exist in the global confrontation between human values and autocracy, war and peace, awakening and the fight for freedom and fundamental human rights.

That is why, at the end of 2023, we are happy and still proud that in addition to conceiving the idea and implementing new international studies in the field of coastal geological risks, broadly in the development of interdisciplinary sciences and the use of new technologies by forming and developing an international research network - Education beyond gender and beliefs, we have tried our best to create a change and contribute to improving the expertise of the younger generation.



**2023**  
Annual Report-Nov 2023

# TABLE OF CONTENTS

<b>5</b>	<b>Executive office</b>	<b>Table of Contents</b>
<b>7</b>	Remarks by Director of RIES	
<b>9</b>	Remarks by Chairholder	
<b>11</b>	Biography of Chairholder	
<b>13</b>	Mission and Goals of the UCCGHA	
<b>15</b>	Objectives of the UCCGHA	
<b>17</b>	Infrastructure and Flow Chart of the Chair	
<b>23</b>	Biography Scientific Council	
<b>27</b>	Executive Committee	
<b>33</b>	Research / Education Networking (MOU/Agreement)	
<b>35</b>	Research and Educational Activity	
	Research Project	
	Thesis	
	Workshops & Seminar	
<b>31</b>	Publication (Book, Map, Article, Meeting and Media)	
<b>49</b>	Further Planing	



# REMARKS BY DIRECTOR OF THE RIES



**Dr. RAZYEH LAK**

The Research Institute for Earth Sciences (RIES) with over two decades of professional educational and research experience, is well known by distinguished faculty members and motivated researchers. This precious scientific background in the field of geology, natural hazards, environmental geology, mineral resources, geo-archaeology as well as the numerous scientific publications, in particular its official position and its relations with the Geological Survey of Iran (GSI) allowed RIES to be designated as the proposed host for a new UNESCO Chair in Coastal Geo-Hazards Analysis, which was finally approved in December 2021 by UNESCO. It could also be marked as a great honor for RIES, GSI and Iran.

Due to the serious growth of the environmental crisis in the world, especially on coastal areas, the UNESCO Chair in Coastal Geo-Hazards Analysis (UCCGHA) was created with the main objective of achieving sustainable coastal development by as the most sensitive ecosystem. Providing appropriate solutions to research, cultural and educational challenges, documenting information in the field of coastal geo-hazards and facilitating cooperation between students, researchers and academics is one of the prominent objectives of UCCGHA.

Fortunately, the UNESCO Chair on Coastal Geo-Hazard analysis has been largely supported by many scientists and academic members from universities and research institutes several countries such as Australia, Japan, China, Russia, Oman, Armenia, Germany, the Netherlands, Italy, France, the United Kingdom, Venezuela and Iran, which allowed us to organize an international scientific council at the start of the activities.

The conclusion of various memorandums of understanding with academic, executive, pedagogical and private departments, the establishment of public and specialized training programs at the international level are among the Chairs one-year achievements.

Close cooperation with UNESCO in programs and activities related to the recognition of coastal hazards and risks, such as the effects of climate and global warming on beaches and wetlands, Geo-environmental pollution, Tsunamis, Earthquakes, Floods, Erosion and sedimentation in coastal areas, Sea level fluctuations and finally helping sustainable development and increasing the resilience of the coasts are other objectives of the UCCGHA.



# REMARKS BY CHAIR HOLDER



**Dr. HAMID NAZARI**

The Research Institute for Earth Sciences (RIES) with over two decades of professional educational and research experience, is well known by distinguished faculty members and motivated researchers. This precious scientific background in the field of geology, natural hazards, environmental geology, mineral resources, geo-archaeology as well as the numerous scientific publications, in particular its official position and its relations with the Geological Survey of Iran (GSI) allowed RIES to be designated as the proposed host for a new UNESCO Chair in Coastal Geo-Hazards Analysis, which was finally approved in December 2021 by UNESCO. It could also be marked as a great honor for RIES, GSI and Iran.

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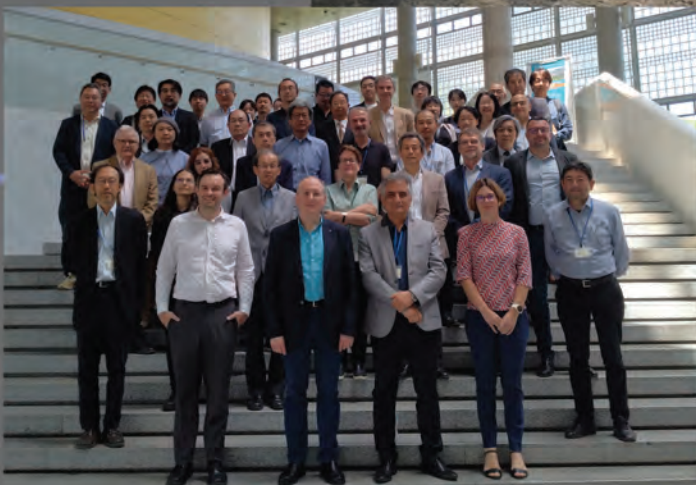
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Although illiteracy has been considered as the main challenge of transitional societies in the twentieth century; at the beginning of the twenty-first century, what worries developing societies the most is "bad education" rather than "illiteracy"! In the absence of aimed education and sustainable development programs, illiteracy in a downward trend is replaced by "bad education". The "bad education" that occurs partly because of the ineffective educational system and partly due to the social despair of any possible positive reform, results in what is known as the indifference and irresponsibility of intellectuals.

So, in this context, undoubtedly, the role of the United Nations Educational, Scientific and Cultural Organization as a worldwide community of experts who want Earth to be a better place to live and desiring to preserve it "as the only known human habitat" is very essential. The UNESCO projects, with the formation of scientific institutions, the development of regional convergence and synergy, and the expansion of the systematic network of young scientists in a way, regardless of gender, borders, and limitations, has brought attentions to the future of humanity by focusing on thematic issues such as natural hazard, environment, climate change and renewable energy.

Support for earth sciences projects in term of IUGS/IGCP could be mentioned as a way for transferring knowledge and technology to developing countries or establishing institutions in communities and less developed countries; training skills in a scientific context with human goals would provide the future of strategic management in developing countries. The UNESCO's financial support for IGCP programs and the projects, albeit small, will ensure coherence and commitment to the research program in a regional and international scale.

Undoubtedly, the most important results of the formation and development of a network of young regional experts and future decision makers in such projects will promote the development of mutual understanding with respect to beliefs, and above all, the scientific needs and practical potential of societies. Purposeful societies protect global equality and justice by running the programs that ultimately lead to permanent production and accumulation of national wealth. In other hand, a more dynamic and active functioning of the UNESCO and its subsidiaries, not only provide easy access to up-to-date knowledge and technology for all, but also contribute to the development and sustainable international win-win relationship, which ensuring peace around the world!



# MISSION

## MISSION AND GOALS OF THE UNESCO

The UNESCO Chair on Coastal Geo-Hazard Analysis (CGHA) is established as a competitive policy of labeling Integrated Geo-Hazard Research Site with main objective as:

- 1) To provide new operational conditions for translational research in coastal geology in order to optimize and accelerate the production of new knowledge
- 2) To promote the dissemination and application of this knowledge in the coastal hazard assessment and sustainable development and increase the resilience of communities living on the shores.

The real focus of skills in the UNESCO Chair at CGHA, hosted by the Research

Institute for Earth Science (RIES) which is affiliated by Geological Survey of Iran (GSI) , brings together relevant professionals from universities, research institutes, as well as public and private research organizations, with the aim of public convergence, transfer, sharing and localization of knowledge.

Through the diverse approaches of a large scientific networking, the CGHA Chair covers the whole range of research for which the ultimate goal is the improved understanding, training, monitoring and prevention of the natural hazard in onshore and off shore as well.

The UNESCO Chair on Coastal Geo-Hazard Analysis after an initial establishment dated on December 2021 was launched officially at February 2022.

The main sectors of the chair are composed of a scientific council on an international scale and an executive council on a national scale.

Description of the tasks expected from the Scientific Council, strategic policies, spiritual and facilities support, convergence and integration of international powerity in the academic, educational and research sectors in line with UNESCO missions.

Description of the expected tasks of the Executive Council and its specialized sub-committees with the following titles: International Relations; Education, liaison with UNESCO universities, research centers and chairs; Publishers; Data center, catalogs and websites and subcommittee for research on the

implementation of macro policies approved by the Scientific Council, internal and external networking, attracting spiritual and material support, management and executive support based on the subject and mission of each subcommittee, compiling an annual training calendar And periodic reports are in line with UNESCO standards.

Description of the expected tasks of the Executive Council and its specialized sub-committees with the following titles: International affairs; Education, liaison with universities, Research centers and UNESCO Chairs; Publication; Data center and websites as well as subcommittee for research on the implementation of policies approved by the Scientific Council, internal and external networking, attracting spiritual and financial support, visa

Service, logistic facilities, management and executive support based on the subject and mission of each subcommittee, compiling an annual training calendar and periodic reports are in line with UNESCO standards.

The Executive Council based on: the Chairman, the Secretariat, the Steering Board and the specialized sub-committees.

The responsibility of the board of directors, headed by the executive director, is to make policies in the method/timing and supervise the performance of the sub-executive committees and how to achieve the goals of the chair in accordance with the mission announced by the scientific council.

The structural link between the members of the Executive Council and the

Specialized committees, both inside and outside the Executive Council, will be the Secretariat





# OBJECTIVE

## The objectives of the chair

- Identify, network and enhance cooperation between centers, structures of expertise and communities of practice in preventing radicalization, both in Iran and abroad
- Provide a high level of expertise and develop innovative action research programs, as well as models based on evidence and best practices, to shape not only public policy but also radicalization and violent extremism prevention programs at the local, national and international levels
- Support the capacity building of key stakeholders, particularly in research, in school and community settings, in both online and offline contexts
- Raise awareness, ensure visibility and transfer knowledge to the public and media.



# INFRASTRUCTURE AND FLOW CHART OF THE CHAIR

This scientific/cultural event could be mentioned as an opportunity for scientific connections and exchanges, opening a window of hope in the formation of an international network of Research centers and fifth-generation Universities.

Undoubtedly, a correct understanding of this valuable event for obtaining the UNESCO World Chair, given the international and structural capacities of the Chairs and the UNITWIN university network in the reconstruction, development, modernization and upgrading day. It can be a turning point in scientific direction by instilling the spirit of hope in the body of the geological community.

The UNITWIN program is the most important tool for capacity building in higher education and research institutions, and UNESCO achieves this capacity building through the exchange and sharing of knowledge across the world under the shadow of international solidarity and unity. Thus, UNESCO's strategy for the development of scientific institutes is to promote South-North, South-South and trilateral and multilateral cooperation.

Academic/research institutions work in partnership with NGOs, foundations and private and public sector organizations play an important role in promoting higher education.

The UNESCO Chair on CGHA in Iran, under the cover of international support with knowledge exchange and sharing, can be a capacity building tool in developing an education and research network on geohazards, especially in coastal areas of one of the world's most seismic regions.

The UNESCO Chair on Coastal Geo- Hazard Analysis (CGHA) is established as a competitive policy of labeling integrated Geo- Hazard Research site with main objectives as:

1. To provide new operational conditions for translational research in coastal geology in order to optimize and accelerate the production of new knowledge
2. To promote the dissemination and application of this knowledge in the coastal hazard assessment and sustainable development and increase the resilience of communities living on the shores
3. Therefore, in line with UNESCO's strategy, the main objective of this Chair will be more beneficial and effective in developing a scientific network, promoting international cooperation between countries and parties.

The real focus of skills in the UNESCO Chair at CGHA hosted by the Research The main sectors of the chair are composed of a scientific council on an international scale and an executive council on a national scale.

Description of the tasks expected from the scientific council, strategic policies, spiritual and facilities support, convergence and integration of international powerity in the academic, educational and research sectors in line with UNESCO missions.

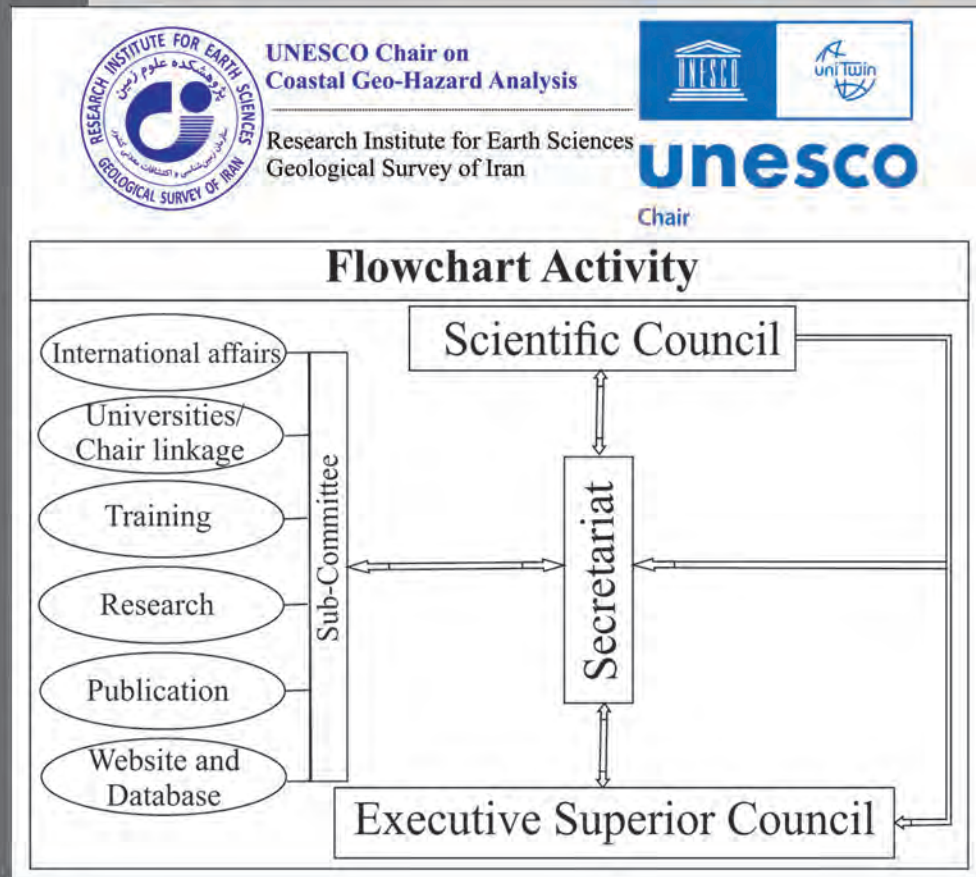
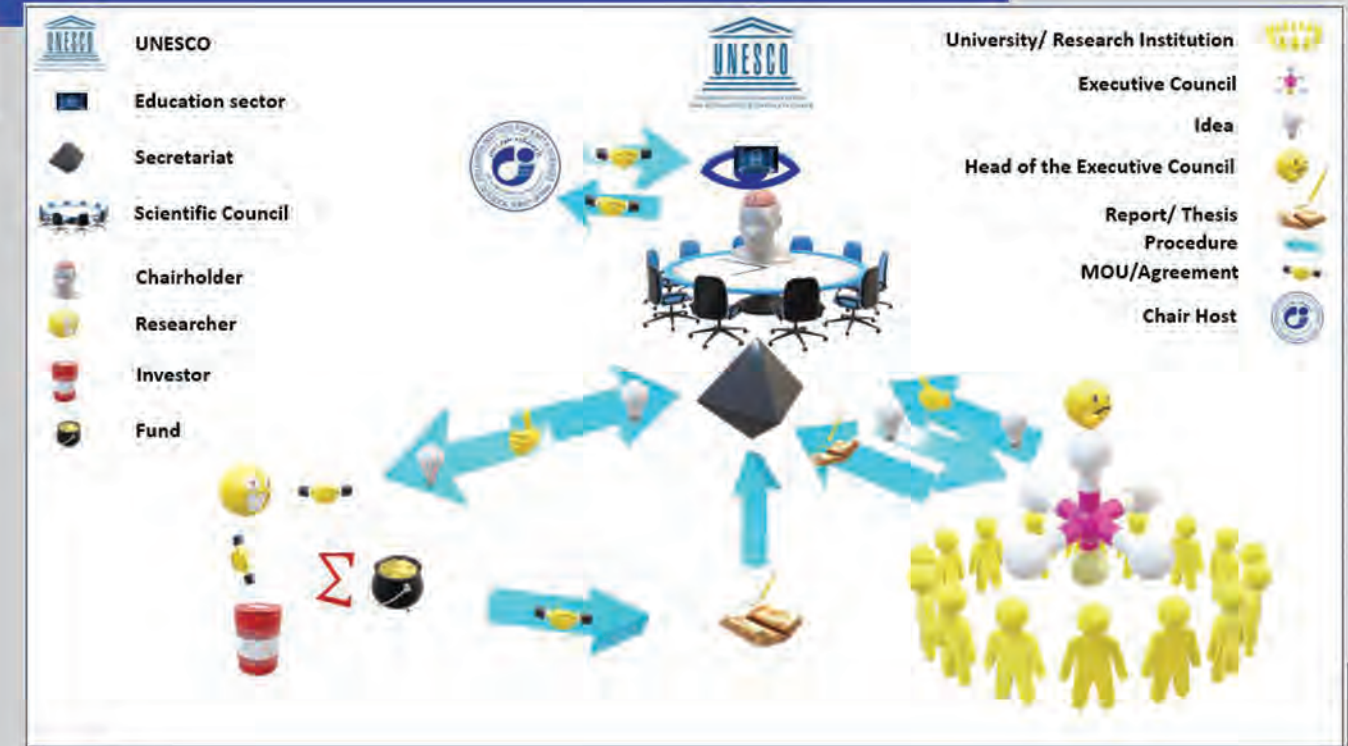
It is very fortunate that this chair has from the beginning the structure and support of the internationally renowned scientific community in a range of Australia, Japan, China, Russia, Armenia, Germany, Netherlands, Switzerland, Italy, France and the United Kingdom as well as Iran.

Description of the expected tasks of the Executive Council and its specialized subcommittees with the following titles:

International Relations; Education, liaison with UNESCO universities, research centres and chairs; Publishers; Data center, catalogs and websites and sub-committee for research on the implementation of macro policies approved by the Scientific Council, internal and external networking, attracting spiritual and material support, management and executive support based on the subject and mission of each sub-committee, compiling an annual training calendar and periodic reports are in line with UNESCO standards.

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The structural link between the members of the Executive council and the specialized committees, both inside and outside the Executive Council, will be the Secretariat.

Fortunately, to achieve this objective, despite the short time of activity of the Chair since its official announcement on December 3th, 2021, the UNESCO Chair has developed a roadmap and led constructive exchanges, concluded MOU or updated with research and academic centers, scientific associations and the private sector and knowledge-based enterprises and official media have a significant performance which, coupled with the growing network of education-research cooperation within and around from outside Iran's geopolitical borders, promises the possibility of forming agile structures.

The global educational dynamics and research, within the framework of national laws and governance in accordance with the needs and standards of the UNESCO in the 21st century, a century with rapid and fundamental changes in the framework of human attitudes towards knowledge and technology, thought and intellectuality in the concept of "literacy".

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# EXECUTIVE COMMITTEE

The Executive Committee monitors our research program according to the Chair's objectives. It advises the chair holder and is responsible, among other things, for approving the annual activity reports, as well as any significant changes to the budget or the Chair's objectives. The Executive Committee also approves the annual planning of research and dissemination activities, as well as the Chair's scientific program as defined by the Scientific Committee.

**Affiliation:** Research Institute for Earth sciences, Geological Survey of Iran

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### Dr. Razyeh Lak

**Affiliation:** Head of RIES and Executive Manager  
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**Dr. Manouchehr Qoreishi**



**Aazam Takhtchin (RIES)**



**Sedigheh Ghanipour (RIES)**



**Shirin Safavi (RIES)**



**Hourieh Alibeygi**



**Elnaz Aghaali (RIES)**



**Hamoon Memarian**



**Mehrnoosh Poorsaeed**



**Keivan Ajdari (RIES)**



**Hanieh Bakhshaei (GSI)**



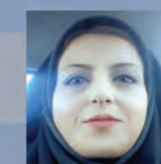
**Dr. Reza Behbahani (GSI)**



**Dr. Javad Darvishi khatooni (GSI)**



**Mohammadreza Ensani (GSI)**



**Marziyeh Estrabi Ashtiyani (GSI)**



**Dr. Gholamreza Hoseinyar (GSI)**



**Mojtaba Kavianpour Sangno (GSI)**

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## DEVELOPMENT



### Development of regional relations of the UNESCO Chair in Coastal Geo- Hazards

In order to cooperate and develop relations in the field of geosciences, the joint meeting of the UNESCO Chair in Coastal Geo- Hazards, Research institute for Earth Sciences and Geological Survey of Iran was held with German University of Technology in Oman, Sultan Qaboos University and Meteorology and Air Navigation Complex (PACA) in 13-15 December 2022. In this meeting, the officials, while welcoming, the professors of that group gave a presentation of the university and its facilities and Director of RIES, Deputy of GSI and Chairholder presented a presentation of their performance and activities and also, at the end of the meeting, the expedition team visited that complex and it was decided to conclude a memorandum of understanding for cooperation between the Research Institute of Earth Sciences and the chair.



# MEMORANDUM OF UNDERSTANDING

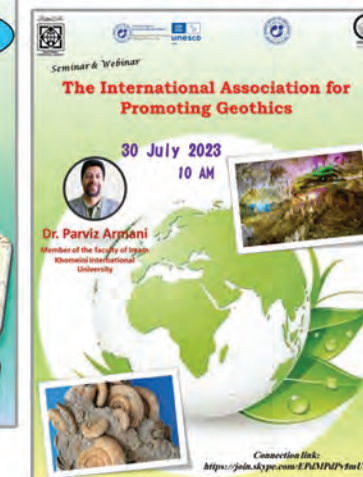
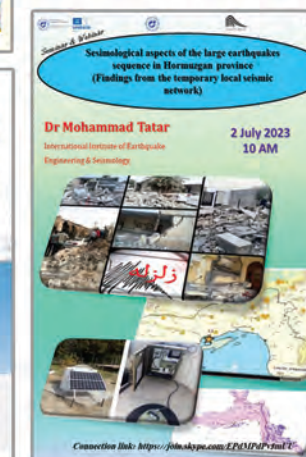
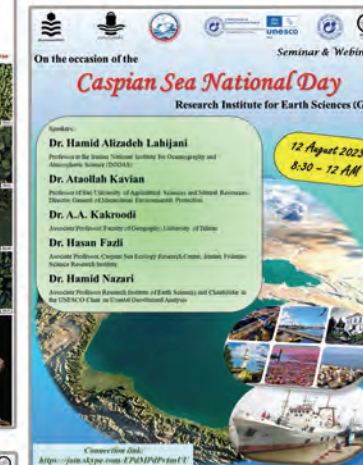
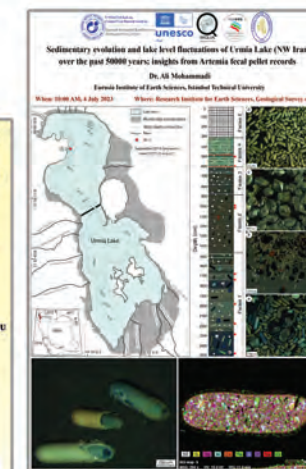
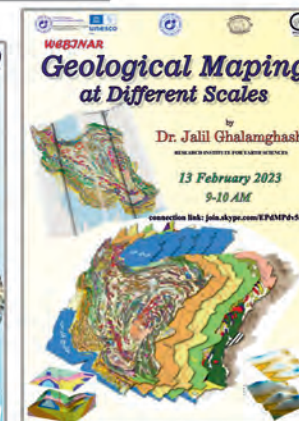
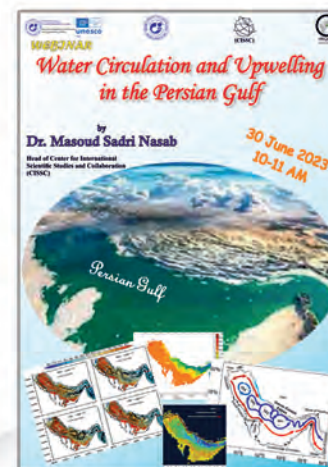
## Trilateral Memorandum of Understanding between UNESCO Chair on Coastal Geo- Hazards Analysis, and Research Institute for Earth Sciences, Geological Survey of Iran

1. Afarinesh consulting Engineering
2. Caspian Sea Ecological Research Center
3. Department of Environment of Mazandaran
4. Geological Society of Iran
5. German University of Technology in Oman
6. Golestan University
7. Hormozgan University
8. Imam Khomeini International University
9. Institute of Geology and Geophysics, Chinese Academy of Sciences
10. International Association for Promoting Geoethics (IAPG)
11. Iranian Quaternary Association
12. Journal of Animal Environment
13. Kanlran Consulting Engineering Company
14. Kharazmi University
15. Mazandaran Department of Environment
16. Pardazesh seir afagh
17. PARS Geological Research Center (Arian Zamin)
18. Qeshm Island UNESCO Global Geopark
19. Raspina Virtual Development
20. Shahrood University of Technology
21. Shargh Daily news paper
22. Technological Cooperation Between Seismology Research Center of International Institute of Earthquake Engineering and Seismology
23. UNESCO Category 2 Regional Education and Research Centre on Oceanography for West Asia ( RCOWA )
24. UNESCO Chair on Engineering Education
25. University of Science and Technology of Mazandaran
26. University of Tehran
27. Urmia University
28. International UNESCO Center for Health Related Basics Sciences and Human Nutrition
29. Research Institute of Applied Sciences



# Research / Edu Activity CONFERENCES AND WORKSHOPS

1. Caspian Sea National Day 12 August 2023
2. Geological Mapping at Different Scales, 13 February 2023
3. Seismological aspects of the large earthquakes sequence in Hormozgan province (Findings from the temporary local seismic network), 2 July 2023
4. Sedimentary evolution and lake level fluctuations of Urmia Lake (NW Iran) over the past 50000 years; insights from Artemia fecal pellet records- 4 July 2023
5. Water circulation and upwelling in the Persian Gulf – 30 June 2023
6. 19th anniversary of the Bam Earthquake (6.6 Mw), 26 December 2023
7. The international association for promoting Geothics. 30 July 2023
8. 26th Conference of Geological Society of Iran
9. The 25th Symposium of Geological Society of Iran
10. The 41st National Geosciences Congress
11. 5th National Conference on Quaternary Sciences



Research / Edu Activity

# PUBLICATION MEETING



- Joint Meeting between UNESCO Chair on CGHA and Korea University
- Joint Meeting between UNESCO Chair on CGHA and Tokushima University
- Joint Meeting between UNESCO Chair on CGHA and Executive committee
- Joint Meeting between UNESCO Chair on CGHA, Ecology Research Institute and Oceanography and Atmospheric Sciences and Department of Environment of Mazandaran
- Joint Meeting between UNESCO Chair on CGHA and International Association for Promoting Geoethics
- Joint Meeting between UNESCO Chair on CGHA and GÜtech University
- Joint Meeting between UNESCO Chair on CGHA and Sultan Qaboos University
- Joint Meeting between UNESCO Chair on CGHA and Meteorology and Air Navigation Complex (PACA)



Research / Edu Activity  
**RESEARCH PROJECT**

**Geo-Archaeology**

**1 Project Name:**

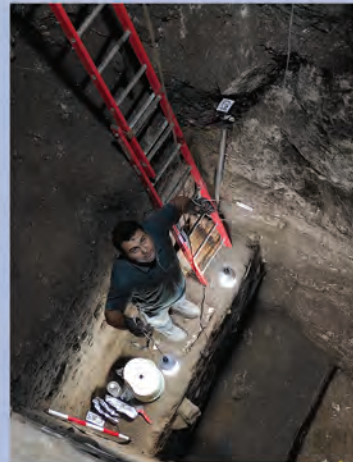
The Transition from Hunter Gathering to the Framing Societies in the southern of Caspian Sea shoreline, Human and environment interaction

Duration of the Project:  
 Oct. 2021 to 2024

Main financial funder:  
 The Ministry of Cultural Heritage, Handicraft and Tourism, Iran  
 University of Reading (UK)  
 German Archaeological Institute, Tehran Branch, Germany

Main project manager:  
 University of Tehran, Iran, (Hassan Fazeli Nashli)

Internal/ External Project collaborators:  
 The Ministry of Cultural Heritage, Handicraft and Tourism, Iran  
 Iranian Center for Archaeological Research, Iran  
 Research Institute for Earth Sciences, Geological Survey of Iran, Iran  
 University of Reading, UK  
 German Archaeological Institute, Tehran Branch, Germany  
 University of Warsaw (Poland)



**2 Project Name:**

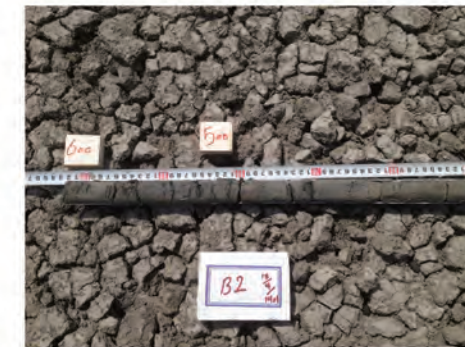
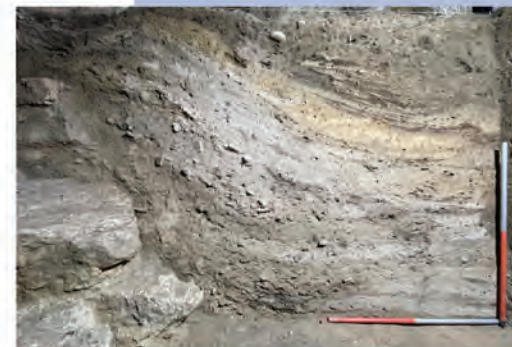
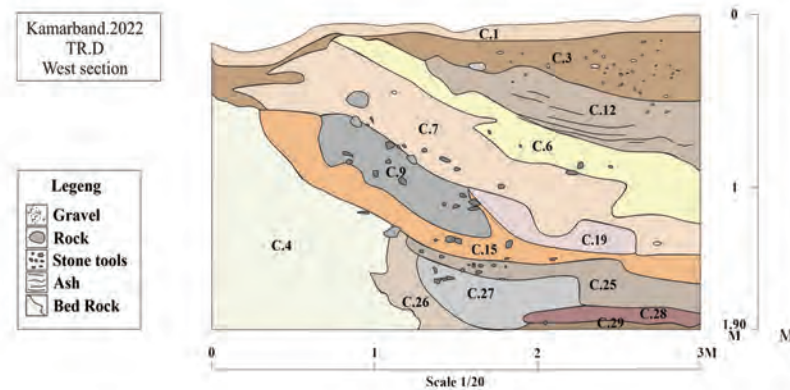
Geoarcheology of Behshahr region, SE Caspian

Duration of the project:  
 June 2022 to 2025

Main financial funder:  
 German Archaeological Institute, Germany  
 Research Institute for Earth Sciences, Iran

Main project manager:  
 German Archaeological Institute, Tehran, Germany: (Judith Thomalsky)

Internal/ External collaborator:  
 -University of Tehran, Iran  
 -Research Institute for Earth Sciences, Iran  
 -Geological Survey of Iran



**3 Project Name:**

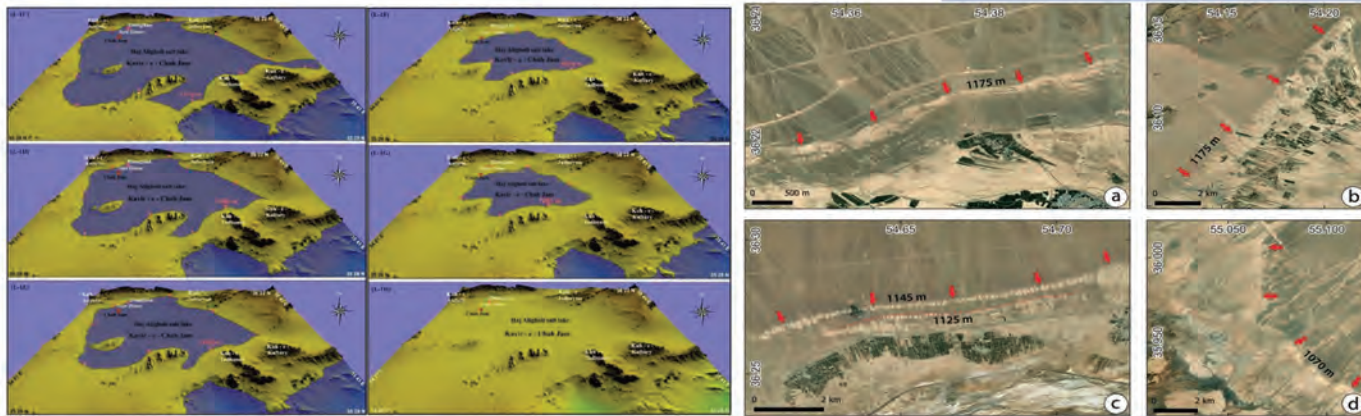
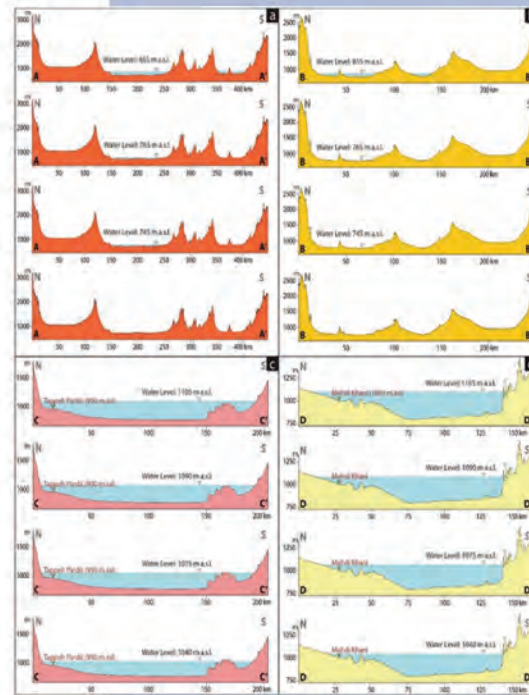
The history of the paleolake in Central Iranian Plateau

Duration of the project:  
June 2010-2024

Main financial funder:  
Research Institute for Earth Sciences, Iran  
Geological Survey of Iran

Main project manager:  
Research Institute for Earth Sciences, Iran, (Hamid Nazari)

Internal/ External collaborator:  
France, US, Armenia, Japan and Iran



**4 Project Name:**

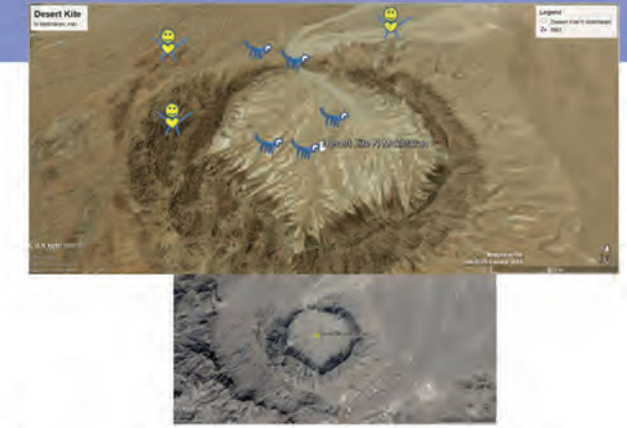
Introduction to the Desert Kite, State of the Art


Duration of the project:  
2023 - 2025

Main financial funder:  
Research Institute for Earth Sciences, Iran  
South Korea University

Main project manager:  
Research Institute for Earth Sciences, Iran, (Hamid Nazari)

Internal/ External collaborator:  
South Korea, Germany, Armenia and Iran





UNESCO Chair on Coastal Geo-Hazard Analysis  
Research Institute for Earth Sciences  
Geological Survey of Iran




unesco  
Chair


**ABSTRACT**

Desert Kites are dry stone wall structures found in Southwest Asia (Middle East, but also North Africa, Central Asia and Arabia), which were first discovered from the air during the 1920s. These structures made of two long low walls called antennas that converge into an enclosure flanked or not by several small cells. Their shape and archaeological evidence suggest that these extensive stone structures may have functioned as game traps, designed to capture and kill large numbers of wild animals. The kite is a landmark that reveals a way of occupying territory. It is an architectural feature of social groups, which hence left a reflection of their territory and catchment. However, these people have sometimes left very few traces enabling their identification.

Considering the extent and density of these settlements, the kite is a massive phenomenon whose role was probably crucial in the development of societies in arid regions.



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Research Institute for Earth Sciences  
Geological Survey of Iran



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Report Project

Research Title:

**Introduction to the Desert Kite: State of the Art**

project manager:  
**Hamid Nazari**

2023

Project Number: 01-P-T-120

## Paleoclimatology

### 5 Project Name:

Reconstruction of Holocene environments, Climate and Geography of Gomishan coastal zone, SE Caspian

Duration of the project:

Nov. 2021 - 2024

Main financial funder:

Iranian National Institute for Oceanography and Atmospheric Science, Iran

Research Institute for Earth Sciences, Iran

Chinese Academy of Sciences, China

Main project manager:

Iranian National Institute for Oceanography and Atmospheric Science, Iran, (Hamid Alizade ketak Lahijani)

Internal/ External collaborator:

Research Institute for Earth Sciences, Iran

Lanzhou University, China



### 6 Project Name:

Determining the physical, chemical characteristics and changes in the sedimentation rate in the Miankala peninsula and its effect on the death of birds, SE Caspian Sea

Duration of the project:

Nov. 2022 - 2025

Main financial funder:

Research Institute for Earth Sciences, Iran

Chinese Academy of Sciences, China

University of Tehran, Faculty of environmental engineering

Main project manager:

Research Institute for Earth Sciences (Razyeh Lak)

Internal/ External collaborator:

Research Institute for Earth Sciences, Iran

Tehran University

Lanzhou University, China





# RESEARCH PROJECT

## 7 Project Name:

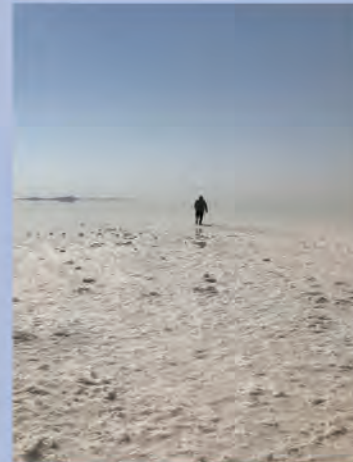
Monitoring of Hydrogeochemistry and brine evolution of Lake Urmia

Duration of the project:  
Nov. 2022 - 2024

Main financial funder:  
Research Institute for Earth Sciences, Iran  
Geological Survey of Iran

Main project manager:  
Research Institute for Earth Sciences, Iran, (Razyeh Lak)

Internal/ External collaborator:  
Research Institute for Earth Sciences, Iran  
Geological Survey of Iran



## Tectonic and hazard assessment

## 8 Project Name:

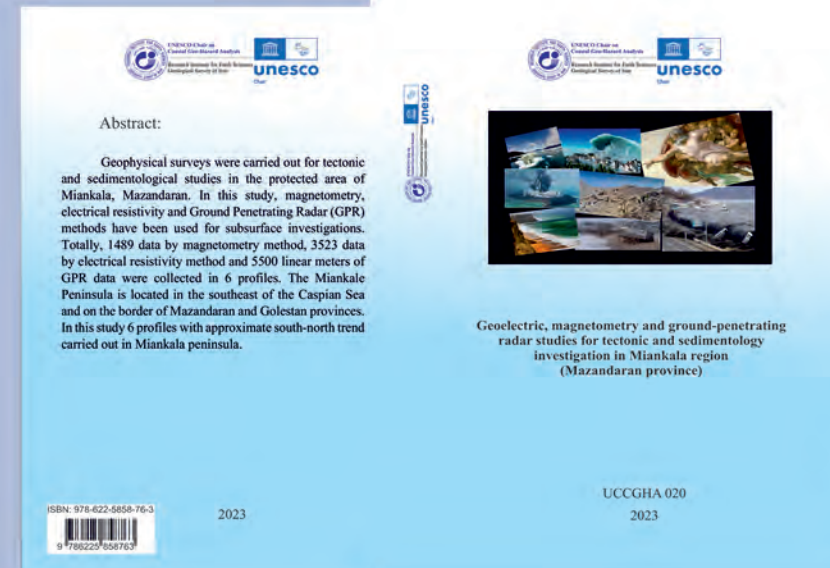
Structural evolution of the Miankala Peninsula, SE Caspian

Duration of the project:  
May 2022 to 2024

Main financial funder:  
Research Institute for Earth Sciences, Iran  
Geological Survey of Iran

Main project manager:  
Research Institute for Earth Sciences, Iran, (Hamid Nazari)

Internal/ External collaborator:  
Geological Survey of Iran  
Research Institute for Earth Sciences, Iran



**9 Project Name:**

Iranian Earthquake Hazard Map (IEHM)

Duration of the project:

From 2014 - 2024

Main financial funder:

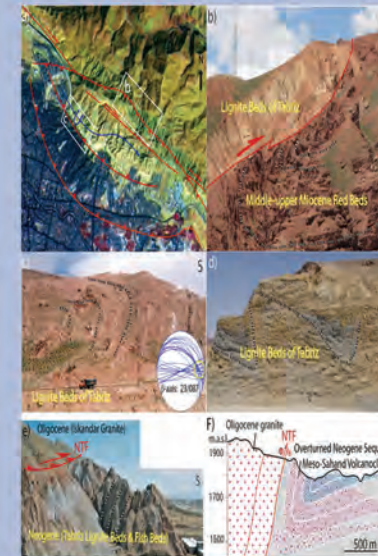
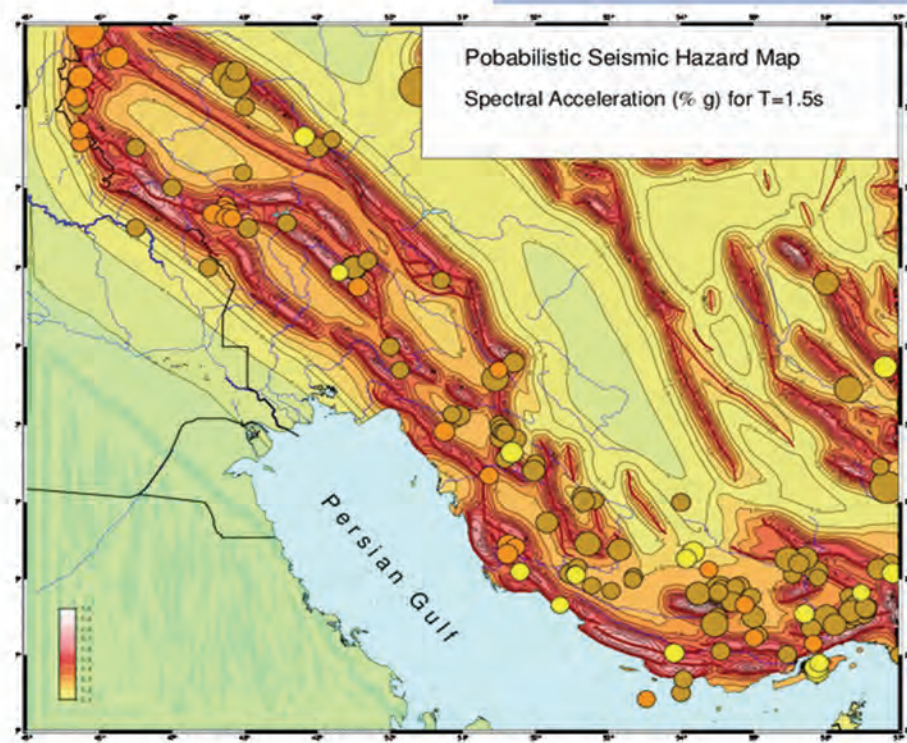
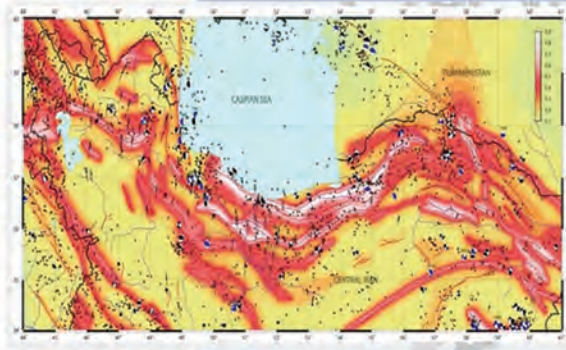
Planning and Budget Organization, Iran  
Research Institute for Earth sciences, Iran

Main Project manager:

Research Institute for Earth sciences, Iran, (Morteza Talebian)

Internal/ External collaborator:

Research Institute for Earth Sciences, Iran  
University of Tehran, Iran  
University of Berkley, USA



**10 Project Name:**

Paleoseismological studies and structural evolution of the North Tabriz Fault

Duration of the project:

2014 - 2023

Main financial funder:

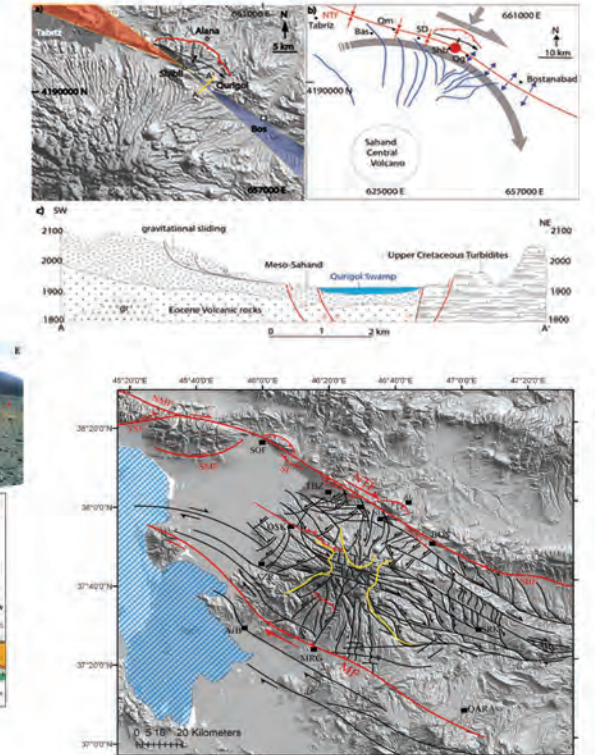
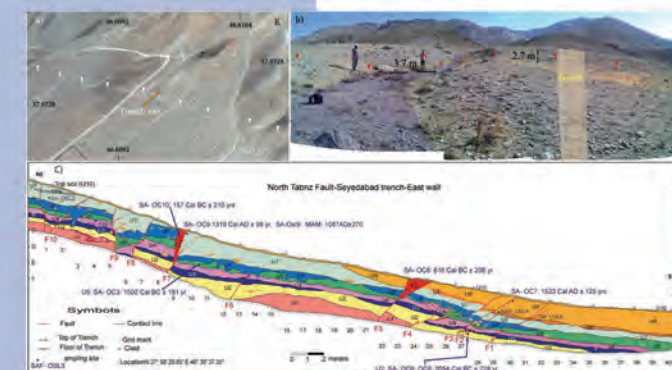
Geological Survey of Iran

Main project manager:

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Internal/ External collaborator:

Geological Survey of Iran  
University of ETH Zurich, Switzerland  
Research Institute for Earth Sciences, Iran



**11 Project Name:**

Collection of geophysical data by high-resolution shallow seismic method in Tombak region (Bushehr province) with an attitude on seismotectonic and morphotectonic characteristics

Duration of the project:

2016 - 2023

Main financial funder:

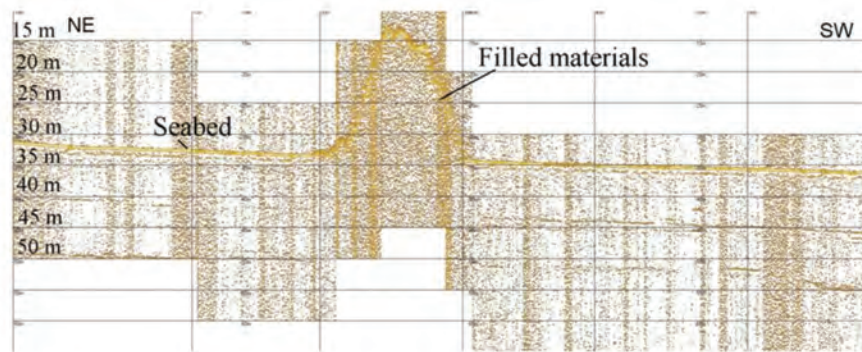
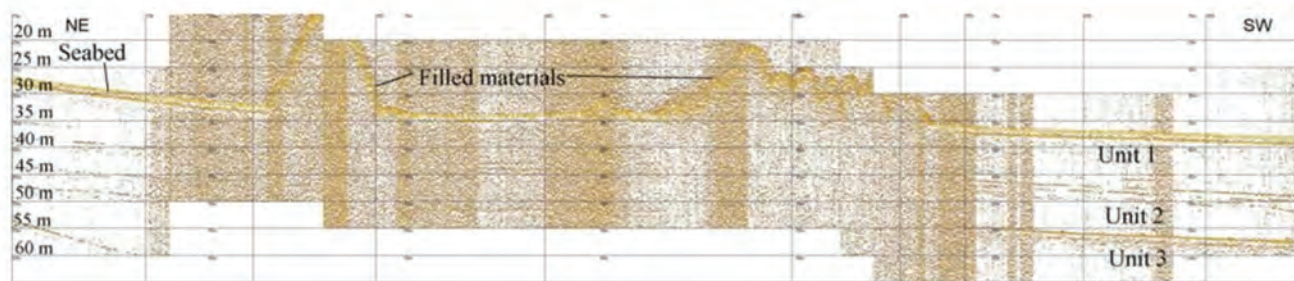
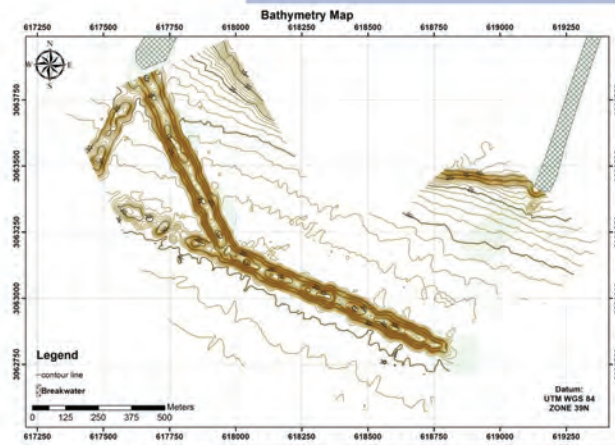
Geological Survey of Iran

Main project manager:

Geological Survey of Iran, (Reza Behbahani)

Internal/ External collaborator:

Geological Survey of Iran



**12 Project Name:**

Morphotectonic aspect on the Gavaraget fault west of Grand Sevan

Duration of the project:

2023 - 2025

Main financial funder:

CNRS, University of Montpellier, (Jean Francois Ritz)

Main Project manager :

Geological Institute of Armenia (Ara Avagyan)

Internal/ External collaborator:

Armenia, France, Russia and Iran

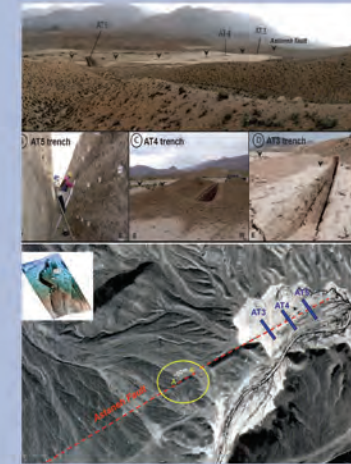


**13 Project Name:**

Paleoseismology in the North East of Sevan  
 Duration of the project:  
 2023 - 2025  
 Main financial funder:  
 Geological Institute of Armenia (Ara Avagyan)  
 CNRS, University of Montpellier, (Jean Francois Ritz)

Main project manager:  
 Geological Institute of Armenia (Ara Avagyan)

Internal/ External collaborator:  
 Armenia, France, Russia and Iran

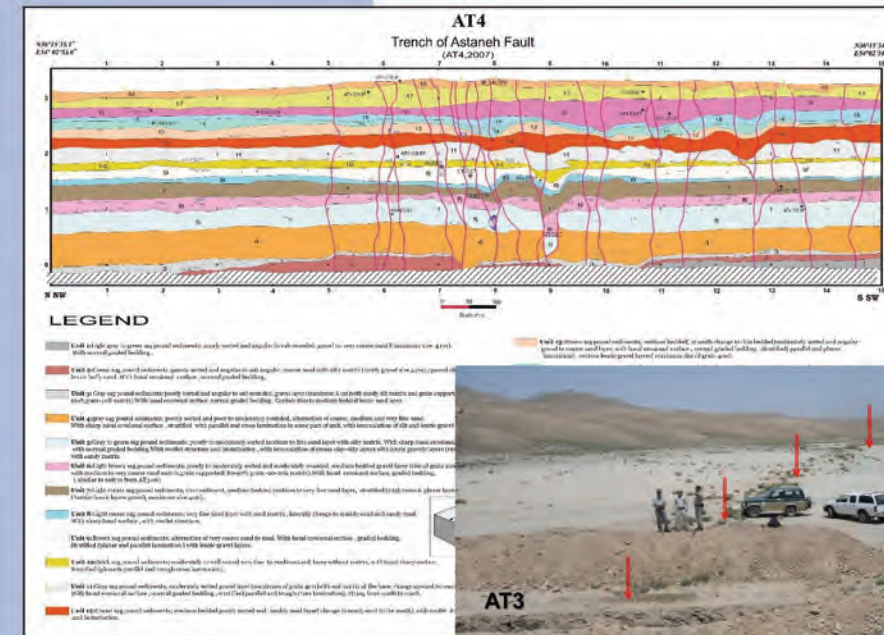


**14 Project name:**

A review of paleoseismological studies of the Astana fault system,  
 Central Alborz  
 Duration of the project:  
 2022 - 2023  
 Main financial funder:  
 Research Institute for Earth sciences, Iran

Main project manager:  
 Research Institute for Earth Sciences, Iran, (Hamid Nazari)

Internal/ External collaborator:  
 France, US and Iran



**Geology**

**15 Project Name:**

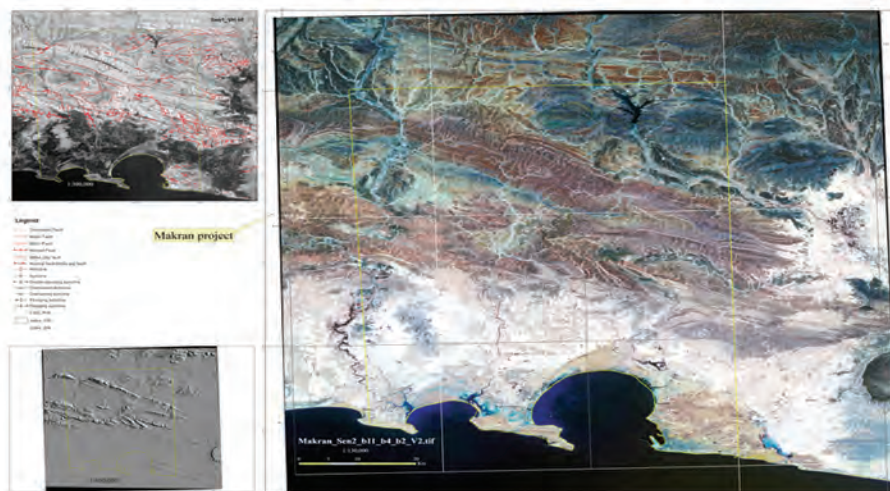
The Server-based Integrated and homogeneous thematic mapping in the Makran zone: Artificial Intelligence and Deep Machine Learning

Duration of the project:  
2023-2026

Main financial funder:  
Research Institute for Earth Sciences, Iran

Main project manager:  
Research Institute for Earth Sciences, Iran, (Hamid Nazari)

Internal/ External collaborator:  
Research Institute for Earth Sciences  
Tarbiat Modares University



**16 Project name:**

Preparing an integrated geological map of Bushehr province

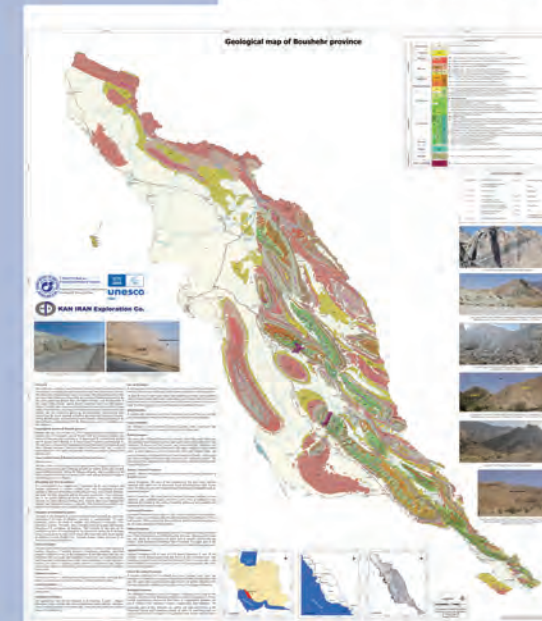
Duration of the project:  
2021-2022

Main financial funder:  
Organization of industry, mining and trade of Bushehr province

Main project manager:

Consulting Engineers KanIran (Ehsan Haj Molla Ali)

Internal/ External collaborator:  
Research Institute for Earth Sciences



**17 Project Name:**

A review to Mass Extinction

Duration of the project:  
2023-2024

Main financial funder:  
Research Institute for Earth Sciences, Iran

Main project manager:  
Research Institute for Earth Sciences, Iran, (Hamid Nazari)

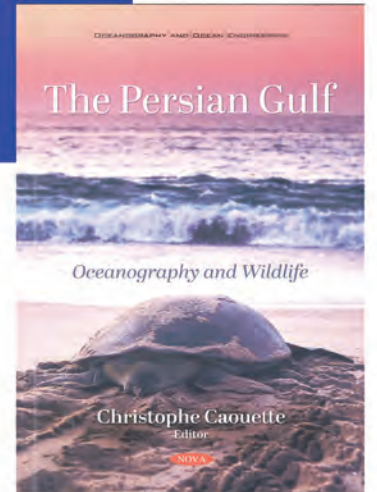
Internal/ External collaborator:  
Research Institute for Earth Sciences



# BOOKS BY CHAIR MEMBERS

**1** The Archaeology of Iran from the Palaeolithic to the Achaemenid Empire

By : Roger Matthews, Hassan Fazeli Nashli, Amy Richardson



**2** Bioenergy and Hydrogen a Solution to Reduce Greenhouse Gas Emissions

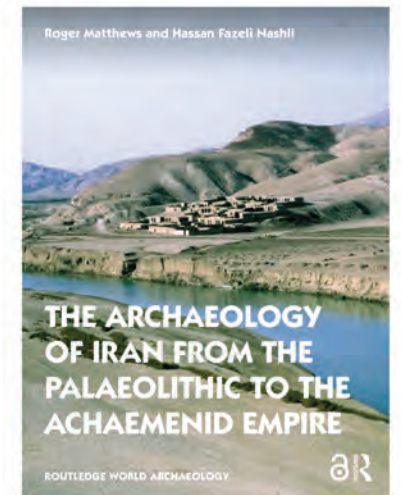
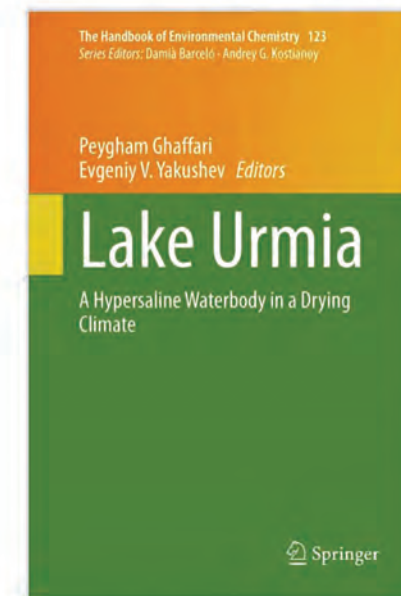
By : Dr. Alireza Vaezi, Ammar Ghasenian Azizi, Dr. Hamid Nazari



**3** Paleoseismology  
Translated by: Hamid Nazari, Manouchehr Qarashi

**4** Persian Gulf  
By : Reza Behbahani and Razyeh Lak

**5** Urmia Lake  
Chapter 13  
By: Razyeh Lak, Ali Mohammadi and Javad Darvishkhatooni



# LIST OF REPORT UNESCO

Report Name	ISBN Number	ISBN Barcode
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Coastal Geomorphological Map of Chabahar, 1: 100000	978-622-5858-40-4	
Unveiling the Significance of Paleoclimatic Studies in Advancing Future Climate Prediction: A Case Study of Southeastern Iran	978-622-5858-41-1	
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Paleoseismological studies and structural evolution of the North Tabriz Fault	978-622-5858-46-6	
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Geological Investigation (RS method) along the Astara Fault	978-622-5858-70-1	
Quaternary stratigraphy of Bandar-e-Anzali Quadrangle Scale: 1,250,000	978-622-5858-71-8	
Seismotectonics and Morphotectonics of the Talesh mountains	978-622-5858-72-5	
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Geoelectric, magnetometry and ground-penetrating radar studies for tectonic and sedimentology investigation in Miankala region (Mazandaran province)	978-622-5858-76-3	







# THESIS

## 1 Student: Hassan Afshari

Supervisor: Dr. Hassan Fazeli Nashli

Dr. Hamid Nazari

Advisor: Mojtaba Safari

Name of Thesis: "An investigation of cultural transformation and its relationships between the climatic and environmental changes in the southeastern Caspian Sea from the Mesolithic to the Early Neolithic period"

Start: September 2022



## 2 Student: Mojtaba Kavianpour

Supervisor: Dr. Hossein Mahmoudi Gharaei, Dr. Razyeh Lak

Advisor: Dr. Hamid Nazari

Name of Thesis: "Investigation of Sedimentology and geochemistry characteristic of South Gorgan Bay coastal zone (Caspian Sea)"

Start: 2021



# PUBLICATION ARTICLE

## Full papers (JCR, SCOPUS and WOS) 2023- RIES Members:

Biralvand, M., Ballato, P., Balestrieri, M. L., Mohajjel, M., Sobel, E. R., Dunkl, I., Montegrossi, G., Ghassemi, M. R., Glodny, J. & Strecker, M. R. 2023. Low-Temperature Thermochronologic Response to Magmatic Reheating: Insights From the Takab Metallogenic District of NW Iran, (Arabia-Eurasia Collision Zone). *AGU Advancing Earth and Space Science*, 15252027.

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Lindsay-Kaufman, A., Rosbach, S.A., Wright, L.S., Edwards, E.L., Vaziri, S.H., Majidifard, M.R., Selly, T., Laflamme, M. and Schiffbauer, J.D., 2022. Describing Difficult Shell-Hash Assemblages from the Lower Cambrian Soltanieh Formation, Alborz Mountains, Northern Iran, *Palaios*, 37(7), pp.374-391.

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**Subsidence risk assessment based on a novel hybrid form of a tree-based machine learning algorithm and an index model of vulnerability**  
 Ghazaleh Mohebbi Tafreshi, Muhammad Ali Noori, & Raziqullah Khan  
 Published: 10 January 2023 | <https://doi.org/10.1080/10801064.2023.1841835>

Quaternary Science Reviews  
 Volume 265, 15 December 2022, 107016  
**New multi-proxy record shows potential impacts of precipitation on the rise and ebb of Bronze Age and imperial Persian societies in southeastern Iran**  
 Aliyeh Jafari, Saeed Bahari, et al.  
<https://doi.org/10.1016/j.quaint.2022.107016>

**Seismotectonics, Geomorphology and Paleoseismology of the Doroud Fault, a Source of Seismic Hazard in Zagros**  
 Z. Kamali, H. Nazari, et al.  
 Department of Earthquake Research, Shahid Beheshti University of Kerman, Kerman 7615-13435, Iran  
 Department of Geology, University of Guilan, Gilan 47174-34756, Iran  
 Department of Earth Sciences, Urmia University, 3834 CD Urmia, The Islamic Republic of Iran  
 Author to whom correspondence should be addressed

Original paper | Published: 02 April 2022  
**Influence of the Late Quaternary climate on sedimentology of the Jazmurian Playa, SE Iran**  
 Masoud Sharifi-Vaziri, Vahid Tavakoli, Saeg Ghalib-Hajjarian, Alireza Vaezi, et al.  
 Journal of Paleolimnology, 66, 166–187 (2022) | <https://doi.org/10.1007/s10933-022-00900-0>

RESEARCH ARTICLE | JANUARY 23, 2023  
**Spatiotemporal changes in Iranian rivers' discharge**  
 H. Maghrebi, R. Noori, et al.  
 Published: 23 January 2023 | <https://doi.org/10.1038/s43759-023-00000-0>

RESEARCH ARTICLE | JULY 26, 2022  
**DESCRIBING DIFFICULT SHELL-HASH ASSEMBLAGES FROM THE LOWER CAMBRIAN SOLTANIEH FORMATION, ALBORZ MOUNTAINS, NORTHERN IRAN**  
 AMELIA LINDSAY-KAUFMAN, STEPHANIE A. ROSBACH, LAUREN S. WRIGHT, EMILY L.V. EDWARDS, SEYED HAMID VAZIRI, MAHMOUD REZA MAJIDIFARD, TARA SELLY, MARC-LAFLAMME, JAMES D. SCHIFFBAUER

Original Paper | Published: 30 March 2022  
**Influence of transport mechanism on playa sequences, late Pleistocene-Holocene period in Jazmurian Playa, southeast Iran**  
 Samira Zandifar, Vahid Tavakoli, Alireza Vaezi, et al.

Earth and Planetary Science Letters  
 Volume 578, 15 November 2022, 117284  
**Nature and structural heterogeneities of the lithosphere control the continental deformation in the northeastern and eastern Iranian plateau as revealed by shear-wave splitting observations**  
 Yifan Gao, Lina Chen, et al.

**JGR Solid Earth**  
 Research Article  
**Shallow Crustal Response to Arabia-Eurasia Convergence in Northwestern Iran: Constraints From Multifrequency P-Wave Receiver Functions**  
 Yu Wang, Ling Chen, et al.

**JGR Solid Earth**  
 RESEARCH ARTICLE  
**Structure of the Western Jaz Murian Forearc Basin, Southeast Iran, Revealed by Autocorrelation and Polarization Analysis of Teleseismic P and S Waves**  
 Haoping Liu, Ling Chen, et al.

Original Paper | Published: 22 April 2021  
**Evolution of sedimentary environments and geography of the Gavkhouni Playa during the Late Quaternary**  
 T. Jalilian, R. Lak, et al.

Marine Pollution Bulletin  
 Volume 188, March 2023, 118451  
**The impacts of Persian Gulf water and ocean-atmosphere interactions on tropical cyclone intensification in the Arabian Sea**  
 Haniyeh Pourkerman, N. Marriner, et al.

**Geochemistry, Geophysics, Geosystems**  
 RESEARCH ARTICLE | OPEN ACCESS  
**Low-Temperature Thermochronologic Response to Magmatic Reheating: Insights From the Takab Metallogenic District of NW Iran, (Arabia-Eurasia Collision Zone)**  
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Sharifi Yazdi, M., Tavakoli, V., Salehi Noparvar, S., Vaezi, A., Naderi Beni, A., Nazemi, M., Duttagupta, S. & Routh, J. 2022. Influence of the Late Quaternary climate on sedimentology of the Jazmurian Playa, SE Iran, *J Paleolimnol*, 68:169–187.

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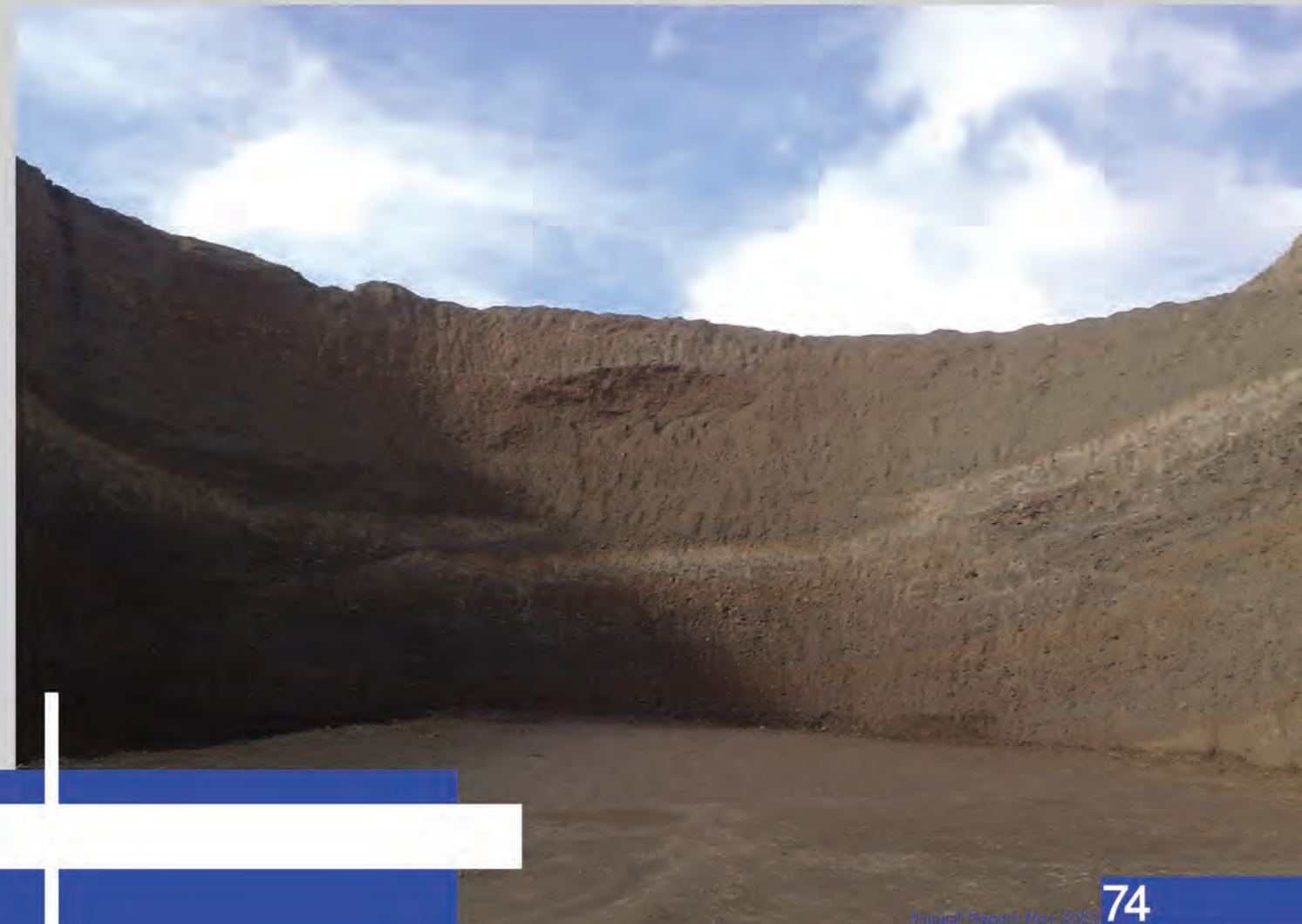
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# FURTHER PLANNING, UCCGHA 2024

In line with the international community and in line with the objectives of the Paris Agreement and the Glasgow Conference against Global Warming and Climate Change, the UCCGHA is also active by ideation, design and programming to provide the necessary platform in the field of interdisciplinary sciences in the use of Artificial Intelligence and Deep machine learning, what make UCCGHA enabled for launching multidisciplinary geological projects, like the preparation of homogenized, thematic server based geological mapping and also social activity in media for public and governmental encouragement in studies and exploration of renewable energy, specially about "white hydrogen" as a clean resources for the energy in 21th century.

Thus, the UNESCO Chair on the Coastal Geo-Hazard analysis in the coming year (2024), follows its structural development in the past year, the implementation of public education programs, the continuation and completion of ongoing projects, is always determined to develop its network.

