

UNITWIN

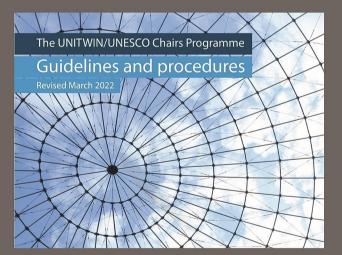
UNESCO Chairs

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 2022 (after guidelines and procedures, revised March 2022)



2022

PREFACE

At the end of 2022, the end of another year with all the contradictions in the global confrontation between human values and autocracy, of war and peace, of awakening and struggle for freedom and fundamental human rights. we are happy and proud to have succeeded in continuing our efforts to make a difference and contribute to promoting the expertise of the young generation by forming and developing an international research-education network beyond genders and beliefs!

UNESCO-CGHA Chair Executive Office



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REMARKS BY DIRECTOR OF THE RIES



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_based, cultural and educational challenges, documenting information in the field of coastal geohazards and facilitating cooperation between students, researchers and academics is one of the prominent objectives of UCCGHA.

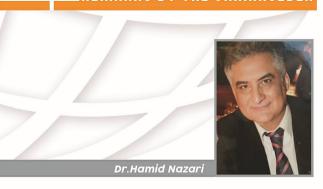
Fortunately, the UNESCO Chair on Coastal Geo-Hazard analysis has been largely supported by many scientists and academic members from universities and research institutes from countries such as Australia, Japan, China, Russia, Oman, Armenia, Germany, the Netherlands, Italy, France, the United Kingdom, 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, as well as starting of public and specialized training programs at the international level are among the Chair's 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 UCGHA.



IREMARKS BY THE CHAIRHOLDER



Nowadays, due to the wide range of functioning and problems facing human beings in the 21st century, the role of UNESCO in education, infrastructure development as well as design, optimization and comprehensive international cooperation in all areas of technical, experimental and humanities is considerable.

Making use of creating and developing knowledge-based educational and technical skills, UNESCO provides a clear vision of strategic management consistent with the transfer of knowledge and technology to developing countries, In such cases as natural hazards, environment, climate change, renewable energies as well as other topics like drinking water, public health and epidemics. In addition, it plays a key role by creating structures in less developed societies and countries. The UNESCO Chair Program/ UNITWIN Universities covers activities such as education, research and exchange of academics and paves the way for sharing information in UNESCO's areas of activity. UNITWIN which is the abbreviation for UNESCO's "Academic Networking Program" was stablished in 1992 in line with a resolution adopted by the 26th Session of the General assembly. The theme of the UNESCO Chair program and UNITWIN universities is related to the establishment of UNESCO Chair and the UNITWIN networks in higher education institutions.

The final approval of UNESCO's first global Chair in the field of geosciences in the Iran, "Coastal Geo-Hazard Analysis", was officially announced on December 3, 2021 (ED/FLI/21/160) by UNESCO's Department of Education, officially to the Research Institute for Earth sciences (RIES), affiliated to the Geological Survey of Iran (GSI) for a four-year period (extendable). This Chair is equal to the application registration style for obtaining UNESCO Chair in the United Nations Educational, Scientific and Cultural Organization, by presenting the research project:

Persian Carpet, Coastal Geo-Hazard Analysis: (Persian Gulf, Oman Sea and Caspian Sea)

The RIES, as an academic arm of the Geological Survey, was presented to the National Commission of UNESCO in Iran in November 2018, according to the agreement and announcement of comprehensive financial and operational support from the supreme authority of the Ministry of Industry, Mine and Trade to the heads of the GSI and the RIES.

UNESCO's Chair on Coastal Geo- Hazards analysis as the first UNESCO chair in the field of geosciences in Iran can be a tool for capacity building in the educational and research network in the shadow of international structural support by exchanging and sharing knowledge. Therefore, in line with UNESCO's strategy, the Chair's macro strategy for developing scientific structures, promoting international cooperation between countries and parties will be more and more uncompressing.

The succeeding on obtaining the UNESCO Chair on "Coastal Geo- Hazards Analysis", with regard to the international and structural capabilities of Chairs and UNITWIN universities in infrastructure reconstruction, development, modernization and updating scholar society can be mentioned a turning point in scientific guidance, regional and international networking with the aim of sharing and transferring knowledge and technology and customizing it.

The UNESCO Chair on CGHA with the aim of transparency and access to unlimited information, was managed well to conclude many MOUs and agreements with medias, universities, Research institutions, NGOs, knowledge-based companies and the private sector in design and education by using a wide international network of students, researchers and scientists. As the fifth generation of universities, the CGHA UNESCO Chair has largely succeeded in global scientific cooperation with the benefit of an international scientific council. This interdisciplinary scientific synergy in international scale has led to implementation of several scientific co-projects in the form of Ph.D thesis as well as joint international research.

It is a great honor to have the official opening ceremony of the UNESCO Chair on coastal Geo-Hazards Analysis, a unique and new platform in the exchange of ideas in the field of geology, ocean-ography, seismology and Geo-archaeology, in which professors and researchers took part from academics and research centers. Members of the Scientific Council of Steering Chair from Australia, Japan, China, Russia, Armenia, Germany, Switzerland, the Netherlands, Italy, France, England, Venezuela and Iran. On Wednesday, February 23, 2022, Opening Ceremony was held on the deck of the Persian Gulf explorer Vessel.

The coincidence of the activity of the UNESCO Chair on Coastal Geo-Hazard Analysis, with the 30th anniversary of the UNESCO Chairs and UNITWIN Universities and an international conference on "Transforming Knowledge for a Just and Sustainable Future", to be held in Paris on 3 and 4 November 2022, is a valuable opportunity in the international engagement and institutionalization of global convergence, balance and collective wisdom to ensure justice and equality, outside of gender and beliefs segregation.

BIOGRAPHY/STATEMENT

CHAIRHOLDER

Name:

Hamid Nazari

Affiliation:

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Biography:

Birthday February 18th 1968, Tehran-Iran

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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 AND GOALS OF THE UCCGHA

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 OF THE UCCCHA

-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.

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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.

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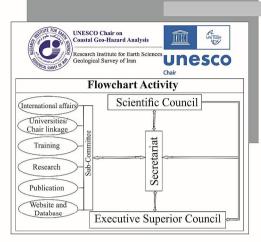
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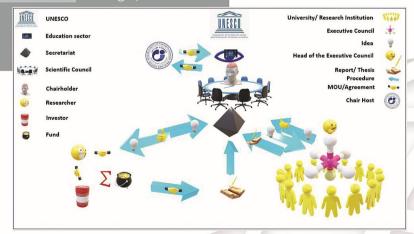
The structural link between the members of the Executive council and the specialized committees, both inside and outside the Executive Council, will be the Secretariat.

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".

3D infographic in UCCGHA



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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.

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Dr. Mahmoud Reza Majidifard

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Dr. Alireza Vaezi

Affiliation: Research Institute for Earth Sciences

Secretariat:

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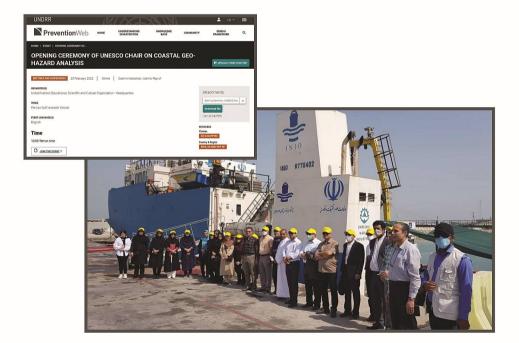
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OPENING CEREMONY

The official opening ceremony of the UNESCO Chair on Coastal Geo-Hazards Analysis was held on Wednesday, February 23, 2022 on the deck of the Persian Gulf Research Vessel physically as well as under the form of a videoconference with the presence of all members of the Scientific Council at 13h00 (Tehran time).

It is very clear that the opportunity to attend the webinar (https://www.skyroom.online/ch/inioas/cgha) for all science and knowledge enthusiasts around the world was promising and valuable for us at the RIES and the UCCGHA. 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, the correct understanding of this valuable event is very important for obtaining the UNESCO world chair, considering the international and structural capacities of the chairs and the UNITWIN university network in reconstruction, development, renovation and promotion, and it can be considered as a turning point in the direction of Scientific approach by instilling the spirit of hope in the body of the geological community.



RESEARCH/ EDU ACTIVITY

MEMORANDUM UNDERSTANDING

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

Chinese Academy of Science

- UNESCO Category 2 Regional Education and Research Centre on Oceanography for West Asia (RCOWA), Iran
- International Institute of Earthquake Engineering and Seismology, Iran
- University of Tehran, Iran
- Golestan University, Iran
- Hormozgan University, Iran
- University of Science and Technology of Mazandaran, Iran
- Mazandaran Department of Environment, Iran
- Caspian Sea Ecological Research Center, Iran
- Geological Society of Iran, Iran
- Iranian Quaternary Association, Iran
- Journal of Animal Environment, Iran
- Shargh Daily newspaper, Iran
- Afarinesh consulting Engineering, Iran
- Pardazesh seir afagh, Iran
- PARS Geological Research Center (Arian Zamin), Iran
- Raspina Virtual Development, Iran

















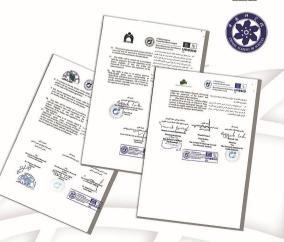












RESEARCH / EDU ACTIVITY

CONFERENCES AND WORKSHOPS

- 1 The use of satellite interferometric technology in monitoring civil infrastructures- Khajeh Nasir al-Din Toosi University of Technology- December 2021
- 2 Water Festival- Sharif University, UNESCO chair of water recycling March 2022
- 3 The first International Conference on Archaeology and History of the Halilroud Cultural Basin-University of Jiroft, Faculity of Literature and Humanity – December 2021
- 4 2nd National Biennial Conference on Geology of the Alborz Orogen and Caspian Sea 10-11 May Golestan University- May 2022
- 5- How is the Earth? -Geosociety of Iran- April 2022
- 6 Analysis of environmental risks of some Persian Gulf coastal development programs with emphasis on sedimentological studies- Sedimentological Society of Iran- May 2022
- 7- The first conference of mining and geology focusing on the role of women- Mining Engineering Organization- May 2022
- 8 The first event to examine the challenges and solutions of knowledge-based job creation in earth sciences- Kharazmi University- June 2022
- 9 Online conference honoring the industry and mining week, focusing on the challenges in mineral exploration - Mining Engineering Organization - June 2022
- 10 Geology and paleoclimate webinar- UNESCO Chair on Coastal Geo- Hazard Analysis- July 2022
- 11 Earthquake risk analysis workshop- UNESCO Chair on Coastal Geo- Hazard Analysis- August 2022
- 12 National Day of the Caspian Sea specialized meeting: "Past, present and future of the Caspian Sea, future research"- Caspian Sea Ecological Research Center- August 2022
- 13 South Caspian chemistry and pollution- Iranian National Institute for Oceanography and Atmospheric Science- August 2022
- 14 Relative Sea Level Rise scenarios for 2100 along the Mediterranean coasts: new insights from the SAVEMEDCO ASTS -2 EU project- INGV Italy- September 2022



- 15 The 60th anniversary of the 1962 earthquake (Solar 1341) Boyin Zahra- International Institute of Earthquake Engineering and Seismology- September 2022
- 16 Photogrammetry in coastal environment for Sea level rise quantification in the framework of the SAVEMEDCOASTS EU project- INGV Italy- September 2022
- 17 SAR Interferometry techniques for the mapping of coastal ground deformation phenomena-INGV Italy- September 2022
- 18 The Natural Geo- Crisis- UNESCO Chair on Coastal Geo- Hazard Analysis- June 2022
- 19 Webinars of Tsunami Tokushima University- November 2022
- 20 Land subsidence in Tehran and its consequences- Geotechnical Society of Iran- March 2022

MEETING

PUBLICATION/MEETING

- Joint meeting between UNECO Chair on CGHA and Iranian National Institute for Oceanography and Atmospheric Science
- Joint meeting between UNECO Chair on CGHA and the Ecology Research Institute
- Joint meeting between UNECO Chair on CGHA and the Golestan University
- Joint meeting between UNECO Chair on CGHA and the Department of Environment of Mazandaran
- Joint meeting between UNECO Chair on CGHA, Geological Survey of Iran and Life Saving and Diving Federation
- Joint meeting between UNECO Chair on CGHA, International Institute for Earthquake Engineering and Seismology and Hormozgan University
- Joint meeting between UNECO Chair on CGHA and University of Tehran
- Joint meeting between UNECO Chair on CGHA and the Caving association











I 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:

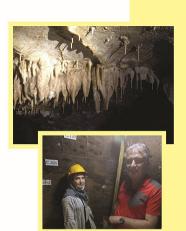
German Archaeological Institute, Germany Research Institute for Earth Sciences, Iran

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









Paleoclimatology

3- Project Name:

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

Duration of the project:

Nov. 2021 to 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 (Hamid Nazari & Razyeh Lak)

Lanzhou University, China

4- 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 to 2025





RESEARCH PROJECT

Main financial funder:

Research Institute for Earth Sciences, Iran Chinese Academy of Sciences, China

University of Tehran, Faculty of environmental engineering

Main project manager:

Razyeh Lak

Internal/ External collaborator:

Research Institute for Earth Sciences, Iran (Razyeh Lak and Hamid Nazari)

Tehran University (Abdolreza Karbasi)

Lanzhou University, China

5- Project Name:

Monitoring of Hydrogeochemistry and brine evolution of Lake Urmia

Duration of the project:

Nov. 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, (Razyeh Lak)

Internal/ External collaborator:

Research Institute for Earth Sciences, Iran

Geological Survey of Iran (Najmeh Davari and Javad Darvishi Khatooni)



Tectonic and hazard assessment

6-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 (Mohammadi Vigeh)

Research Institute for Earth Sciences, Iran

7-Project Name:

Iranian Earthquake Hazard Map (IEHM)

Duration of the project:

From 2014 to 2023

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)

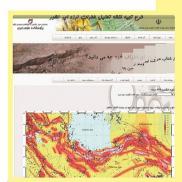
Internal/ External collaborator:

Research Institute for Earth Sciences, Iran (Morteza Talebian and Hamid Nazari)

University of Tehran, Iran

University of Berkley, USA





I RESEARCH PROJECT

8- Project Name:

Seismotectonics and Geodynamics of the South Caspian and Adjacent Areas

Duration of the project:

From 2017-2022

Main financial funder:

Geological Survey of Iran

Research Institute for Earth sciences, Iran



Research Institute for Earth Sciences, Iran, (Hamid Nazari)

Internal/ External collaborator:

Geological Survey of Iran

Research Institute for Earth Sciences, Iran

Guilan Crisis Management Organization, Iran

9- Project Name:

Coastal Geomorphological Map of Chabahar, 1: 100000, SE Iran, Oman Sea

Duration of the project:

From 2021 to 2022

Main financial funder:

Geological Survey of Iran

Main Project manager:

Geological Survey of Iran,

(Jamshid Jedari Eivazi)

Internal/ External collaborator:

Geological Survey of Iran

Research Institute for Earth Sciences, Iran



Tectonic and hazard assessment

10- Project Name:

Paleolimnological study a key point for future climate prediction,

a case study: SE Iran

Duration of project:

2013-2022

Main financial funder:

Swedish Research Link, Asia Program

Grant No. E0402601

Main project manager:

Linkoping University, (Joyanto Routh)

Internal/ External collaborator:

Linkoping Univ, Switzerland

University of Tehran, Iran

Research Institute for Earth Sciences, Iran

Geological Survey of Iran

Iranian National Institute for Oceanography and

Atmospheric Sciences, Iran

11- Project Name:

Young Deformations and Geodynamics of North Central Alborz, south Caspian Duration of the project:

saradon or the pro

2017 to 2022

Main financial funder:

Geological Survey of Iran

Main project manager:

Research Institute for

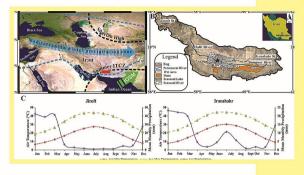
Earth sciences, Iran, (Hamid Nazari)

Internal/ External collaborator:

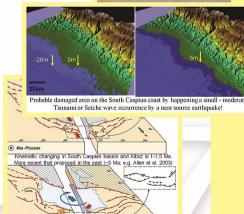
Geological Survey of Iran

Research Institute for Earth Sciences, Iran

Gilan Crisis Management Organization, Iran







I RESEARCH PROJECT

12- Project Name:

Investigation of coastal tectonic movements in Makran-Chabahar

region by combining field observation and shallow marine seismic data, SE Iran, Oman Sea

Duration of the project:

2021 to 2022

Main financial funder:

Geological Survey of Iran

Main project manager:

Geological Survey of Iran, (Mohammadreza Ensani)

Internal/ External collaborator:

Geological Survey of Iran

Université de Genève, Switzerland

Research Institute for Earth Sciences, Iran

13- Project Name:

Facies analysis and timing of Quaternary deposits in Bushehr peninsula, S Iran, Persian Gulf Duration of the project:

2017 to 2022

Main financial funder:

Research Institute for Earth sciences. Iran Ministry of Science and Technology, 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





14- Project Name:

Sabalan volcano research project, NW Iran

Duration of the project: 2022

Main financial funder:

Research Institute for Earth sciences, Iran Life Saving and Diving Federation, Iran

Geological Survey of Iran

Main project manager:

Life Saving and Diving Federation, Iran, (Tavasoli)

Internal/ External collaborator:

Research Institute for Earth sciences, Iran

Life Saving and Diving Federation, Iran

Geological Survey of Iran

Geology

15- Project name:

The Server based unified thematic Geological mapping in cloud computing

Duration of the project:

Sept. 2019 to 2022

Main financial funder:

Research Institute for Earth Sciences, Iran

Geological Survey of Iran

Main project manager:

Research Institute for Earth Sciences.

Iran, (Hamid Nazari)











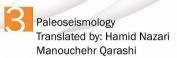
PUBLICATION/BOOKS

Books by the chair members

The Archaeology of Iran from the Palaeolithic to the Achaemenid Empire By:Roger Matthews, Hassan Fazeli Nashli, Amy Richardson



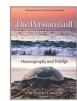
Bioenergy and Hydrogen a Solution to Reduce Greenhouse Gas Emissions By:Dr. Alireza Vaezi ,Ammar Ghasenian Azizi ,Dr. Hamid Nazari







- 1 Seismotectonics and Geodynamics of the South Caspian and Adjacent Areas
- 2 Coastal Geomorphological Map of Chabahar, 1: 100000
- 3 Paleolimnological study a key point for future climate prediction, a case study: Southeastern Iran
- 4 Young Deformations and Geodynamics of North Central Alborz, Caspian Faults and North Alborz
- 5 Investigation of coastal tectonic movements In Makran-Chabahar region By combining field observation And shallow marine seismic data
- 6 Facies analysis and timing of Quaternary deposits in Bushehr peninsula













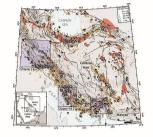
THESIS

PHD thesis: Aram Fathian Baneh

RWTH Aachen University, Germany Supervisor:

Dr. Gösta Hoffmann Advisor: Prof. Dr. Klause Richerter Dr. Stefano Salvi, Dr. Hamid Nazari, Dr. Stefan Back

Title of Thesis: "Active tectonics of the Zagros front" Start: 2018- finish: 2022



PHD Thesis: Mojtaba Kavianpour

Ferdowsi University, Mashhad, Iran Supervisor:

Dr. Hossein Mahmoudi Gharaei. Dr. Razveh Lak

Advisor: Dr. Hamid Nazari

Title of Thesis: "Investigation of sedimentology and geochemistry charactrestic of South Gorgan Bay

coastal zone (Caspian sea)" Start: 2021



PHD thesis: Hassan Afshari

University of Tehran, Iran

Supervisor: Dr. Hassan Fazeli Nashli, Dr. Hamid Nazari Advisor: Dr.Mojtaba Safari

Title 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





PUBLICATION/ARTICLE

Full papers (JCR, Scopus and WOS) 2021-2022:

Amiri, V., Nakhaei, M., Lak, R., Li, P., 2021. An integrated statistical-graphical approach for the appraisal of the natural background levels of some major ions and potentially toxic elements in the ground water of Urmia aquifer, Iran. Environmental Earth Sciences. 80:432. doi.org/10.1007/s12665-021-09733-0

Chen L., Xu W., Ai Y., Jiang M., Ao H., He Y., Talebian M., Ghods A., Sobouti F., Wan B., Yang C., Hou G., Cheng F., Chung S., Xiao W., Wu F., Xu R., 2022. Shallow crustal response to Arabia-Eurasia convergence in northwestern Iran: Constraints from multifrequency P-wave receiver functions. Journal of Geophysical Research - Solid Earthm In Press.

Chu, Y., Allen, M.B., Wan, B., Chen, L., Lin, W., Talebian, M., Wu, L., Xin, G. and Feng, Z., 2021. Tectonic exhumation across the Talesh-Alborz Belt, Iran, and its implication to the Arabia-Eurasia convergence. Earth-Science Reviews, 221, p.103776.

Chu, Y., Wan, B., Allen, M.B., Chen, L., Lin, W., Talebian, M. and Xin, G., 2021. Detrital Zircon Age Constraints on the Evolution of Paleo ☐ Tethys in NE Iran: Implications for Subduction and Collision Tectonics. Tectonics, 40(8), p.e2020TC006680.

Eslamirezaei, N., Alavi, A., Nabavi, T., and Ghassemi, M.R. 2022. Understanding the role of décollement thickness on the evolution of décollement folds: insights from discrete element models. Comptes Rendus Géoscience - Sciences de la Planète. 354, 75-91

Fathian, A., Atzori, S., Nazari, H., Reichter, K.,Salvi, S., Svigkas, N., Tatar, M., Tolomei, C., Yamanifard, F. 2021. Complex co- and postseismic faulting of the 2017-2018 seismic sequence in western Iran revealed by In SAR and seismic data. Remote sensing of Environment. V.253, 112224, doi.org/10.1016/j.rse.2020.112224

Fazeli Nashli, H., Theodorakopoulou, K., Stamoulis, K., Athanassas, C., Nazari, H., Jamshidi Yeganeh, S., Nokande, J., Shokri, M., 2022. Deciphering the chronology of Tepe Sialk (South) "ziggurat", North Central Iranian Plateau, through Optically Stimulated Luminescence (OSL) datingi.

Gao, Y., Chen, L., Talebian, M., Wu, Z., Wang, X., Lan, H., Ai, Y., Jiang, M., Hou, G., Khatib, M.M. and Xiao, W., 2022. 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. Earth and Planetary Science Letters, p.117284.

Ghassemi, M.R. and Roustaei, M., 2021. Salt extrusion kinematics: insights from existing data, morphology and InSAR modelling of the active emergent Anguru diapir in the Zagros fold and thrust belt, Iran. Journal of the Geological Society, 15 p. https://doi.org/10.1144/jgs2020-136 (Impact factor: 3.100 5yr IF: 3.556)

Hoseinyar., Gh., Behbahani, R., Mousavi- Harami, R., Lak, R., Antoon Kuipers, 2021. Holocene sealevel changes of the Persian Gulf. Quaternary International 571, 26-45p.

Jalilian, T., Lak, R., Taghian, A., Darvishi khatooni, J. 2021. Evolution of sedimentary environments and geography of the Gavkhouni Playa during the Late Quaternary. International Journal of Environmental Science and Technology. doi.org/10.1007/s13762-021-03295-1

Khalifeh-Soltani, A., Alavi, A., Ghassemi, M.R., and Ganjiani, M., 2021. Geomechanical modelling of fault-propagation folds: Estimating the influence of the internal friction angle and friction coefficient, Tectonophysics, 815 (2021) 228992, 15 p. (20 Sep. 2021; IF: 3.933)

Khalifeh-Soltani, A., Alavi, A., Ghassemi, M.R., and Ganjiani, M., 2021. Influence of ramp geometry and orientation on fault propagation folding Insights from the 3D finite element method. Journal of Structural Geology, 153 (2021) 104467, 17 p. December 2021, IF: 3.571)

Lak, R., Mohammadi, A., Darvishi khatouni, J., 2021. Lake Urmia Brine Evolution from 2007 to 2019. handbook

Lan, H., Chen, L., Chevrot, S., Talebian, M., Wang, X., Gao, Y., Zhang, J., Wu, Z., Shokati, M., Jiang, M. and Ai, Y., 2022. Structure of the western Jaz Murian forearc basin, southeast Iran, revealed by autocorrelation and polarization analysis of teleseismic P and S waves. Journal of Geophysical Research: Solid Earth, 127(4), p.e2021JB023456.

Lindsay-Kaufman, A., Rosbach, S., Wright, L., Edwards, E., Vaziri, S. H, Majidifard, M. R., Selly, T.,Laflamme, M., Schiffbauer, J. 2022. Describing difficult shell-hash assemblages from the lower Cambrian Soltanieh formation, Alborz Mountains, Northern Iran. PALAIOS, 2022, v. 37, 374–391 Research Article, DOI: http://dx.doi.org/10.2110/palo.2021.031

Malaekeh, A., Ghassemi, M.R., Afzal, P., and Solgi, A., 2021. Fractal modeling and relationship between thrust faults and carbonate-hosted Pb-Zn mineralization in Alborz Mountains, Northern Iran. Geochemistry 81(4), 125803, 20 p. (November 2021 – IF: 2.292)

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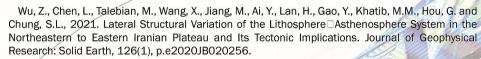
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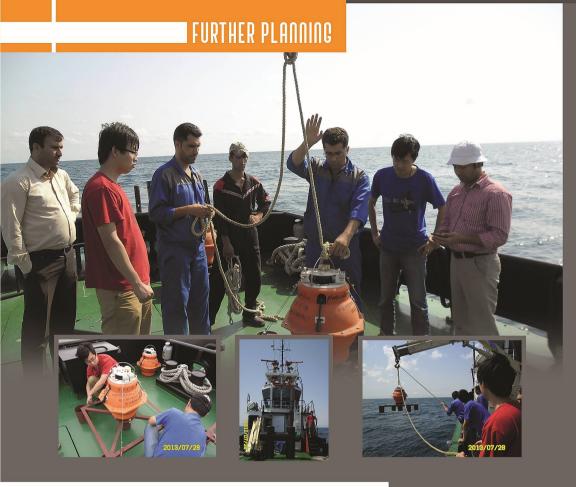
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Further planning, UCCGHA 2023

The UNESCO Chair in Coastal Geo-Hazards Analysis in the coming year (2023), in addition to structural development, implementation of public education programs, continuation and completion of ongoing projects (page 33), determined to develop its network of regional and international cooperation within the structure of the various UNESCO institutions and centers, particularly in Asia and the Pacific.

4.9 Unesco Chair on Coastal Geohazard Analysis