

Faouziya Haissen

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Main Research fields: Petrology, Geochemistry, Geochronology, Economic geology

Current Position and Academic Employment

2011-2023: Ph D Professor, Hassan 2 University of Casablanca; Faculty of sciences Ben M'sik, department of geology, Avenue Cdt Driss Harti BP 7955, Sidi Othmane, Casablanca, Morocco (Email: fsb@univh2.ac.ma, Web site: <http://www.univh2.ac.ma>).

2014-2023: Coordinator of the undergraduate studies "Earth and Universe Sciences" at department of Geology, Faculty of Sciences Ben M'sik, Hassan 2 University of Casablanca.

2001-2011: Ph D Professor, the University of Chouaib Doukkali, Faculty of sciences, department of geology Route Ben Maachou, BP 20, Avenue des facultés, El Jadida, Morocco (<http://www.ucd.ac.ma>).

1995 - 2001: Assistant Professor, the University of Chouaib Doukkali, Faculty of sciences, department of geology Route Ben Maachou, BP 20, Avenue des facultés, El Jadida, Morocco (<http://www.ucd.ac.ma>).

Other Scientific Activities

2019-2023: General Secretary of ATTARIK Foundation "All Together Taskforce for Advancing Research Innovation and Knowledge" for Meteoritics and Planetary Sciences (www.attarikfoundation.org).

Since 2022: Expert-Evaluator at UM6P for APRD 2022 projects

Since 2020: Scientific expert and member of "We Speak Citizen ONG" (<https://wespeakcitizen.org/>)

Since 2018: Expert-Evaluator at CNRST «Centre National pour la recherche scientifique et technique, Morocco» (<https://www.cnrst.ma/index.php/fr/>).

2016-2017: Expert of "Open Mind Initiative" (<http://mindinitiative.com/>): Open Mind Initiative competition between groups of students focuses on the promotion of entrepreneurial micro-projects aimed at the development of the southern provinces of Morocco. It was organized by the Radius think-tank, in partnership with the regional councils of Laâyoune Sakia El Hamra, Dakhla Boujdour and Guelmim Oued Noun.

Since 2016: Peer Reviewer of: African of Earth Sciences, Gondwana Research, Arabian Journal of Earth Sciences, The Geological Society Special Publications, International Journal of Earth Sciences, GSA Books...

Since 2015: Contact Person in Maghreb” of the «Comision de Petrologia, Geoquimica, Geocronologia de la Rocas Igneas y Metamorficas» CPGG-RIM of the Geological Society of Spain (<http://www.ugr.es/~malmolaroko/>).

2014-2015: Secretary of the «Comision de Petrologia, Geoquimica, Geocronologia de la Rocas Igneas y Metamorficas» CPGG-RIM of the Geological Society of Spain (<http://www.ugr.es/~malmolaroko/>).

Since 2014: Member of « Association Marocaine des Sciences de la Terre (AMST) ».

Since 2013: Member of the Geological Society of Spain (<http://www.sociedadgeologica.es/>).

2014-2018: Member of the editorial board of the journal «Arabian Journal of Earth Sciences» (www.arabianjournalofscience.com/index.php/AJES/about/history).

1990-1994: Member of Public relations team of the President of Granada University (Spain).

Education

1997-2001: PhD Thesis at Granada University, Spain in Experimental Petrology: “*Experimental study of H₂O-saturated and unsaturated melting of metapelites from Pins Island (W Cuba)*” directed by Professor Antonio Garcia Casco and defended at Chouaib Doukkali University, El Jadida, (Morocco). DOI: [10.13140/RG.2.2.35033.34401](https://doi.org/10.13140/RG.2.2.35033.34401)

1992-1995: Postgraduate Thesis at Granada University, Spain in Metamorphic petrology: “*Granulites mafiques des unités du groupe ‘Casares-Los Reales’ des deux côtés du Détroit de Gibraltar (Rif Interne et Zone Bétique Occidentale)*” directed by Professors Antonio Garcia Casco and Rafael Torres Roldan and defended at Abdelmalek Essaadi University of Tetouan (Morocco). DOI: [10.13140/RG.2.2.19933.84964](https://doi.org/10.13140/RG.2.2.19933.84964)

1990-1992: PhD Program at Granada University, Spain “Structural geology, Crystallography, Mineralogy, Petrology, Geochemistry”.

1985 - 1989: Graduate studies in geology at the Abdelmalek Esaadi University of Tetouan, Morocco.

Grants, fellowships, Awards and Invited Professor

2022: Grant for Participation in 16th Arab International Conference on mineral Resources, Al Fujairah, UAE, 22-24 May.

2019: Grant for Participation in 9th Hutton Symposium and fieldtrip, Nanjing, China 14-19 October.

2019: Grant for Participation in 5th Workshop of IGCP-649 (Diamonds and Mantle Recycling) and fieldtrip, Sultanate Oman, 12-22 November.

2018: Fulbright scholarship at Colorado School of Mines, United States (August- October). This scholarship period was dedicated to participate to activities of the department (talks, meetings, fieldtrips) but the most important achievements were:

- The preparation and development of an IGCP project involving Eastern North America, NW Africa and Iberia: Haissen et al. “***Pre-Atlantic geological connections among northwest Africa, Iberia and eastern North America: Implications for continental configurations and economic resources***” (<https://igcp683.org/>).
- A compilation of the whole geochronologic data available on Variscan Belt in Morocco and Iberia and Appalachian Belt in NW America.
- A talk on the geology of Morocco as Van Tuyl Lecture Speaker “***The geology of Morocco: A record of 3 Ga of Earth’s history***” at the Geology and Geological Engineering Department at The Colorado School of Mines, Golden, USA, September 13.
- The participation in a meeting-workshop the Advanced Potash Technologies Group represented by Dr. Marcelo Oliveira and collaborators to discuss and set on future plans of cooperation. During this meeting, I gave a talk on intitled “***Awsard Syenites (Southernmost Morocco): Petrology, Geochemistry and Geochronology***” and their use as a potential source of Potash “at the Geology and Geological Engineering Department, the Colorado School of Mines, Golden, USA, September 4.
- Training classes in the geochronology laboratory.

2018: Invited Professor (June) at Institute for advanced studies, University of Cergy-Pontoise, France (<https://iea.u-cergy.fr/fr/chercheurs-invites.html>). This period was dedicated to:

- Finish pending publications On the External Rif in the frame of the project “La marge nord-maghrébine entre l’Atlantique Central et la Téthys Alpine : ce que dit le Rif (Maroc) ». IP: Dominique Frizon de Lamotte.
- Participation to meetings aiming the development of new collaboration projects: a new project on the Paleomagnetism in the Plioquaternary volcanism of the Oriental Rif is then launched in 2019 with professors from the same university involving also collaborators from Tunisia and Algeria.
- Meeting with PhD students of the department working on the geology of Maghreb.
- I was invited to give a talk on “*Vers une géologie plus précise du Sahara du sud Marocain*”.

2017: Invited Professor (July) at Institute for advanced studies, University of Cergy-Pontoise, France (<https://iea.u-cergy.fr/fr/chercheurs-invites.html>). This period was dedicated to :

- Discuss the results of the fieldtrips and to their publication
- Visit to Total Group headquarter and meeting with the team involved in the project “La marge nord-maghrébine entre l’Atlantique Central et la Téthys Alpine: Ce que dit le Rif (Maroc) ». IP: Dominique Frizon de Lamotte.

2016: Grant for Participation in 2th Workshop of IGCP-649 (Diamonds and Mantle Recycling) and fieldtrip, Cyprus, 14-20 May <http://www.igcp649.com/> .

1998: Research grant (September-October) from Spanish Agency for International cooperation.

1990-1994: Grant from Granada University as member of Public relations team of the President of Granada University (Spain).

1992-1993: Grant of Arab World Institute (Spanish Ministry of foreign affairs).

1992: Grant of Granada University for 2 weeks visit in January to IMT and Boston University invited by Professor David Silverberg.

1990-1994: Grant of Moroccan government for PhD Studies.

Teaching and fieldworks

Regular teaching activities cover

Lectures, practicum classes and fieldwork for Graduate students:

- Introduction to Geology and Cosmology, Aspects of Earth in Hadean and Archean
- Internal structure and dynamics of the Earth
- Metamorphic geology – Basic concepts
- The geology of alpine Betic-Rif Cordillera
- Igneous petrology
- Geochemistry

Lectures, practicum classes and fieldwork for Master students:

- Geochronology
- Metamorphic and Igneous petrology

Current thesis Supervisor

- Meryem Redouane (February 18, 2023): « le potentiel géothermique de la région El Hoceima-Nador et sa relation avec le volcanisme Néogène (Rif oriental, Maroc). In Progress
- Achraf Ait-Yazza: « Le rôle de la déformation de la couverture Adoudounienne dans la mise en place de la minéralisation cuprifère dans l’Anti-Atlas central, Maroc» in cooperation with Managem Group. In Progress

My most relevant fieldworks

- *Morocco*

During my career, I have been visiting different part of Morocco, however I have a great expertise on:

The Rif alpine belt: (Internal and external Zones as well as Oriental Rif where we are studying currently the geothermal potential of Northern Morocco (Oriental Rif and its relationship with Plioquaternary volcanism).

The Reguibat Shield and The Oulad Dlim adjacent Massif in Moroccan Saharan Provinces

The Central Anti-Atlas belt (Bou Azzer Inlier)

- *Spain*

1990-1995: I studied during my postgraduated Thesis “Thèse de 3 cycle” granulites from Internal Betic zones, I have been also part of a project aiming the study of the whole cross section of these internal zones. In this frame I realized several fieldtrips in the Betic orogeny and also in other part of Iberian Massif, the Cantabrian Mountains...

In 2014, I participated in a fieldtrip in the Variscan Gredos Massif organized by CPGG-RIM “Comision de Petrologia, Geologia y Geochronologia de Rocas Igneas y Metamorficas de la Sociedad Geologica de Espana. Gredos, Spain 24-26 June.

In 2015, I have been part of the organization committee of Geoloday on the Plioquaternary volcanism (Almeria region).

- *China*

19-22 October 2019: Post-Conference filed trip of the 9th Hutton Symposium on the Origin of Granites and Related rocks: Meihuashan granitic batholith and Longyan Aspiring Global Geopark, Longyan, Fujian Province.

- *Sultanate of Oman*

15-23 November 2019: during this fieldtrip organized by IGCP-649 Project “Diamonds and Recycled Mantle”, 5th Workshop, we have been visiting all the components of the world-famous Oman Ophiolites and also Copper and chromite mines.

- *Unites States*

During my Fulbright, I was on the field with my host professor and her students to visit different outcrops.

- *Cyprus*

May 15-20 2016: during this fieldtrip organized by IGCP-649 Project “Diamonds and Recycled Mantle”, 5th Workshop, we have been visiting all the components of Troodos Ophiolites and Chromite mines.

Main Projects & Research groups

2022-2026 : **Co-leader** of the International Geoscience Programme (UNESCO) **IGCP741 Project:** “Sustainable Mineral Resources Development in Tethys Metallogenic Domain”. Led by Prof. Jian-Xinglu (China) (Co-leaders from Pakistan, Turkey, Indonesia and China)

2022-2025 : **Participant** in Project “Les ressources en Lithium et en Terres rares de l’Afrique de l’Ouest: le cas du Maroc et du Mali”. IP: Essaifi Abderrahim from University Cadi Ayyad, Marrakech.
Projet de recherche et développement multithématique 2020 - CNRST

2021-2024 : **Participant** in Project “Generación experimental de fluidos metamórficos y su interacción con rocas y magmas: implicaciones geoquímicas, isotópicas y geodinámicas”. IP: Pilar Montero and Jose F. Molina from Granada University.
Ministerio de Ciencia e Innovación. PID2020-114872GB-I00

2021-2025: **Participant** in Project: “*Ophiolites from the Iberian Massif*” .
IPs: Ricardo ArenasMartin – Sonia Martinez (Universidad Complutense de Madrid)
Ministerio de Economía y Competitividad (MINECO). PID2020-112489GB-

2020-2024: **Co-leader** of the International Geoscience Programme (UNESCO) **IGCP709 Project:** “*HP-UHP metamorphism and geochemical cycles in subduction zones*”. Led by Prof. Lifei Zhang (China) (Co-leaders from Germany, Nepal, Russia, and Italy) <http://www.igcp709.com/>

2020-2023: **Leader** of the International Geoscience Programme (UNESCO) **IGCP683 Project:** “*Pre-Atlantic connections among Northwest Africa, Iberia and eastern North America: Implications for continental configurations and economic resources*”. Co-Leaders from Spain, United States and Canada
<https://igcp683.org/>

- 2018-2022:** Participant in Project: *“Realization of 6 Geological maps 1/100000 in southernmost Morocco” Laayoune Dakhla basin* Project of INFODIGIT society, Plan National de Cartographie Géologique PNCG of the Ministère de l’Energie, Des Mines et du développement durable, Morocco
- 2017-2019:** Participant in Project: *«La marge nord-maghrébine entre l’Atlantique Central et la Téthys Alpine : ce que dit le Rif (Maroc)»*. IP: Dominique Frizon de La Motte (Université Cergy-Pontoise)
- 2016-2019:** Participant in Project: *“Diamond, zircon and other “exotic” minerals in ophiolitic chromitites and associated rocks. Implications for mantle geodynamics”* (DIACRO).
IP: Joaquín Proenza Fernández (Universidad de Barcelona)
Ministerio de Economía y Competitividad (MINECO). CGL2015-65824
- 2014-2017:** Participant in Project: *“Zircon inheritance in magmatic processes. Mechanisms and applications to crustal recycling and mantle dynamics”*
IP: Fernando Bea Barredo (University of Granada, Spain)
Proyectos I+D «EXCELENCIA» Ministerio de Economía y Competitividad of Spain (MINECO). CGL2013-40785-P
- 2013-2017:** Participant in Project: *“Study of potential late Archean Province in South Morocco”* RNM2163
IP: Fernando Bea Barredo (University of Granada, Spain)
Proyecto de investigación de Excelencia de la Junta de Andalucía
- 2009-2012:** Moroccan Coordinator in Project: *“Geocronología, Petrología y Geoquímica de los terrenos Arcaicos y Paleoproterozoicos de Marruecos, Implicaciones sobre la generación de Iberia”* A/025250/09
IPs: Haissen Faouziya and Pilar Montero Gonzalez
Cooperation project between the University Chaouib Doukkali, El Jadida (Morocco) and the University of Granada (Spain)
- 2002-2006:** Participant in Project: *“Estudio del Metamorfismo de alta presión de la sutura panafricana de Bou Azzer - El Graara (Anti-Atlas, Marruecos)”* A/3557/05.
IP: Aghzer Abdelmouhsine. Cooperation project between University Chouaib Doukkali El Jadida (Morocco) and University Complutense University of Madrid (Spain).
- PhD Thesis funded by the Project 1997-2000:** *“Metamorphic evolution and P-T-t paths in accreted terranes (Central Cuba), (PB96-1426)”*
IP: Antonio Garcia-Casco (Granada University, Spain)
Ministry of Education and Science (MEC), Spain
- 1992-1995:** Participant in Project: *“Metamorfismo y Cinética de Reacciones Metamórficas”* Nº 92-093CAYCIT
IP: Rafael Torres Roldan (Granada University, Spain)
- 1989-1992:** Participant in Project: *“Metamorfismo, magmatismo y evolución litosférica de la terminación occidental de la cadena Bético-rifeña y Atlas”* Nº PB-890017 DGICYT
IP: Encarnación Puga Rodríguez (Granada University, Spain)
- 1989-1992:** Participant Research Group: *“Geoquímica y Petrología endógenas de la litosfera”* Nº 4072
IP: Rafael Torres Roldan (Granada University, Spain)

Most relevant publications

- 2023:** M. Ikenne, M. Souhassou, B. Coussens, P. Montero, F. Bea, F. Askkour, **F. Haissen**, E.H. Beraarouz, R.E. Ernst, A. Bajddi, S. Ilmen, S. Belkacem, A. Toummite “Zircon U–Pb geochronology and Sm–Nd and Rb–Sr isotope systematics of Neoproterozoic granitoids from Bou Azzer (Anti-Atlas - Morocco): The obduction trigger of the central Anti-Atlas terrane”. Journal of African Earth Science, In press, <https://doi.org/10.1016/j.jafrearrsci.2023.104900>
- 2022:** **F. Haissen**, P. Montero, J.F. Molina, F. Lodeiro, A. Mouttaqi, M. Chaib, F. Bea “Meso-Archean to Mid-Paleozoic Granitoids in Oulad Dlim Massif (the Pericratonic Terrane of the Reguibat Shield, West African Craton, Morocco): Petrology, Geochemistry, Geochronology and Geological Implications. *Journal of Earth Science*, Vol. 33, No. 5, p. 1-14. Faouziya, H., Pilar, M., Francisco, M.J. et al. Meso-Archean to Mid-Paleozoic Granitoids in Oulad Dlim Massif (the Pericratonic Terrane of the Reguibat Shield, West African Craton, Morocco): Petrology,

Geochemistry, Geochronology and Geological Implications. *J. Earth Sci.* **33**, 1152–1165 (2022). <https://doi.org/10.1007/s12583-021-1591-z>

- 2021.** M. Redouan, F. **Haissen**, O. Sadki, M. Raji “Geological interpretation of geothermal manifestation in the East of Morocco”. Proceedings Qorlrd Geothermal Congress, 2020+1, Iceland.
- 2021.** F. **Haissen**, M. N. Zaghloul, Y. Dilek, O. Gimeno-Vives, G. Mohn, A. Cambeses, D. Frizon de Lamotte, V. Bosse “Geochemistry and Petrogenesis of Lower Jurassic mafic rock suites in the External Rif Belt and Chemical Geodynamics of the Central Atlantic Magmatic Province (CAMP) in NW Morocco”. *The Journal of Geology*, 563 (5), 563-593. <https://doi.org/10.1086/716499>
- 2021.** D. Beelen, L. Wood, M.N. Zaghloul, F. **Haissen**, M. Arts, I. Ouahbi, M. Redouane, S. Cardona “Tide-dominated deltas responding to high-frequency sea-level changes, Pre-Messinian Rifian Corridor, Morocco: Reply”. *Journal of Sedimentary Research*, 91, 880.886.
- 2021.** N. Pujol-Sola, D. Dominguez-Carreteto, J. A. Proenza, F. **Haissen**, M. Ikenne, J.M. Gonzalez-Jimenez, V. Colas, L. Maacha, A. Garcia-Casco “The chromitites of the Neoproterozoic Bou Azzer Ophiolites (Central Anti-Atlas, Morocco) revisited”. *Ore Geology Reviews*, 134 (1-4).
- 2021.** R. Arenas, S. Sanchez Martinez, R. Albert, **F. Haissen**, J. Fernandez-Suarez, N. Pujol-Sola, P. Andonaegui, R. Diez Fernandez, J. A. Proenza, A. Garcia-Casco and A. Gerdes “100 myr cycles of oceanic lithosphere generation in peri-Gondwana: Neoproterozoic-Devonian ophiolites from the NW African-Iberian margin of Gondwana and the Variscan Orogen”. *Geological Society Special Publications*, 503, <https://doi.org/10.1144/SP503-2020-3>.
- 2020.** D. Beelen, L. Wood, M.N. Zaghloul, F. **Haissen**, M. Arts, I. Ouahbi, M. Redouane, S. Cardona “Tide-dominated deltas responding to high-frequency sea-level changes, Pre-Messinian Rifian Corridor, Morocco”. *Journal of Sedimentary Research*, 90, 1.25.
- 2020.** F. **Haissen**, O. Gimeno-Vives, G. Mohn, V. Bosse, M. N. Zaghloul, A. Atouabat and D. Frizon de Lamotte “Mesorif Gabbros (External Rif, North Morocco): Ophiolitic Suture Witness or a “Newly Discovered” Manifestation of the Central Atlantic Magmatic Province?” *Acta Geologica Sinica* (English Edition), 2020, 94(supp.1), 11–12.
- 2020.** A. Atouabat, S. Corrado, A. Schito, F. **Haissen**, O. Gimeno-Vives, G. Mohn, D. Frizon de Lamotte “Validating structural styles in the Flyschs basin Northern Rif (Morocco) by means of Thermal Modeling”. *Geosciences*, 10, 325- doi: 10.3390/geosciences10090325.
- 2020.** F. Bea, P. Montero, F. **Haissen**, J.F. Molina, F.G. Lodeiro, A. Mouttaqi, Y.D. Kuiper, M. Chaib “The Archean to Late-Paleozoic architecture of the Oulad Dlim Massif, the main Gondwanan indenter during the collision with Laurentia” *Earth-Science Reviews*, 208, 10327. <https://doi.org/10.1016/j.earscirev.2020.103273>
- 2020.** O. Gimeno-Vives, D. Frizon de Lamotte, R. Leprêtre, **F. Haissen**, A. Atouabat, G. Mohn. “The structure of the Central-Eastern External Rif (Morocco), Poly-phases deformation and role of the under-thrusting of the North-West African palo-margin”. *Earth Sciences Review*, 205, 1-23.
- 2020.** O. Gimeno-Vives, G. Mohn, V. Bosse, F. **Haissen**, M. N. Zaghloul, A. Atouabat, D. Frizon de Lamotte. “REPLY TO COMMENTS BY MICHARD ET AL. ON “The Mesozoic Margin of the Maghrebian Tethys in the Rif Belt (Morocco): Evidence for Polyphase Rifting and Related Magmatic Activity”. *Tectonics*, 38. <http://doi.org/10.1029/2020TC006165>.
- 2019.** O. Gimeno-Vives, G. Mohn, V. Bosse, F. **Haissen**, M. N. Zaghloul, A. Atouabat, D. Frizon de Lamotte: “The Mesozoic margin of the Maghrebian Tethys in the Rif belt (Morocco): Evidence for poly-phases rifting and related magmatic activity”. *Tectonics*, 38, 1-25.
- 2019.** F. **Haissen**, O. Gimeno-Vives, G. Mohn, V. Bosse, M.N. Zaghloul, A. Atouabat and D. Delamotte. “Discovery of the Central Atlantic Magmatic Province CAMP activity in the External Rif (Northern Morocco)”. *October 2019 LIP of the Month*, Large Igneous Provinces Commission, International Association of Volcanology and Chemistry of the Earth’s Interior. <http://www.largeigneousprovinces.org/19oct>.
- 2019.** B. Baidada, M. Ikenne, P. Barbey, A. Soulaïmani, **F. Haissen**, S. Ilmen and A. Alansari. “Shrimp U-Pb zircon geochronology of the granitoids of the Imiter Inlier: Constraints on the Pan-African events in the Saghro massif, Anti-Atlas, Morocco)”. *Journal of African Earth Sciences*, 150, 799-810.
- 2018.** **F. Haissen**, P. Montero, A. Cambeses, F. Bea, JF. Molina, A. Mouttaqi, F. Gonzalez-Lodeiro, O. Sadki and A. Errami. “Constraints from Zircon Hf and O isotopic compositions on the petrogenesis of Derraman Peralkaline

granite (Oulad Dlim Massif, West African Craton margin, Morocco)". Comptes Rendus Géoscience, 350, 236-244.

- 2018.** JF. Molina, F. Bea P. Montero, **F. Haissen**, F. Gonzalez-Lodeiro, A; Errami, O. Sadki, JA. Moreno, A. Cambeses, A. Mouttaqi. "High-P amphibolite-facies metamorphism in the Adrar-Sutuf Metamafic Complex, Oulad Dlim Massif (West African Craton margin)". Comptes Rendus Géoscience, 350, 245-254.
- 2018.** **F. Haissen**, P. Montero, F. Bea, A. Mouttaqi, JF. Molina. "Carbonatites from Southernmost Morocco (Reguibat Shield, West African Craton: Mineralogy, Geochemistry, Geochronology and Economic Potential". Notes et Mémoires du Service Géologique, 588, 90-94.
- 2017.** D. Frizon de Lamotte, M. Najib Zaghloul, **F. Haissen**, G. Mohn, R. Leprêtre, O. Gimeno-Vives, A. Atouabat, M. El Mourabet, A. Abassi. "Rif externe : comment comprendre et expliquer le chaos apparent?". Géologues, N° 194 Maroc, Paradis des Géologues, 13-15.
- 2017.** P. Montero, F. Bea, **F. Haissen**, JF. Molina-Palma, F. González-Lodeiro, A. Mouttaqi, A. Errami. "Dorsale Reguibat et Massif des Oulad Dlim, l'avancée des connaissances". Géologues, N° 194 Maroc, Paradis des Géologues, 32-41.
- 2017.** **F. Haissen**, A. Cambeses, P. Montero, F. Bea, Y. Dilek, A. Mouttaqi. "The Archean kalsilite-nepheline syenites of the Awsard intrusive massif (Reguibat Shield, West African Craton, Morocco) and its relationship to the alkaline magmatism of Africa". Journal of African Earth Sciences, 127, 16-50.
- 2017.** D. Dominguez Carretero, N. Pujol Sola, T. Aiglsperger, J.A. Proenza, A. Garcia-Casco, **F. Haissen**, L. Maacha, M. Ikenne. "Caracterización de PGM en cromititas ofiolíticas neoproterozoicas de Bou Azzer, Marruecos". Macla, 22, 35-36.
- 2017.** J.A. Proenza, A. Garcia-Casco, J.M. Gonzalez-Jimenez, J. Farré De Pablo, N. Pujol Sola, T. Aiglsperger, L.Turron, C.Villanova De Benavent, L.Butjosa, J.C.Melagarejo, S.Gali, D. Domínguez, J. Roque, E.Tablero, C.Domenech, Y. Rojas Agromonte, **F. Haissen**, I.F. Blanco, C. Lazaro, A. Camprubi V.Colas "Minerales "exóticos" en cromititas ofiolíticas. Implicaciones para la geodinámica mantélica". Macla, 22, 109-110.
- 2017.** N. Pujol Sola, J. A. Proenza, T. Aiglsperger, A. García-Casco, **F. Haissen**, L. Maacha, M. Ikenne. "Descubrimiento de minerales "exótica" en Manto cromititas de Bou Azzer Ofiolita (Marruecos)". Macla, 22, 111-112.
- 2016.** P. Montero, **F. Haissen**, A. Mouttaqi, A. Errami, O. Sadki, A. Cambeses & F. Bea. "Contrasting SHRIMP U-Pb zircon ages of two carbonatite complexes from the peri-cratonic terranes of the Reguibat Shield: Implications for the lateral extension of the West African Craton". Gondwana Research, 38, 238-250.
- 2016.** F. Bea, P. Montero, **F. Haissen**, A. Michard, C. Lazaro, A. Mouttaqi, A. Errami & O. Sadki. "First Evidence of Cambrian rift-related magmatism in the West African margin: The Derraman Peralkaline Felsic Complex". Gondwana Research, 36, 423-438.
- 2014.** P. Montero, **F. Haissen**, A. El Archi, E. Rjmati & F. Bea. "Timing of Archean crust formation and cratonization in the Awsard-Tichla zone of the NW Reguibat Rise, West African Craton: A Shrimp, Nd-Sr isotopes, and geochemical reconnaissance study". Precambrian Research, 242, 112-137.
- 2014.** F. Bea, P. Montero, **F. Haissen**, E. Rjmati, J.F. Molina & J.H. Scarrow. "Deep-seated kalsilite-bearing rocks of the Reguibat Rise, West African Craton: The Awsard massif, South Morocco". Earth-Science Reviews, 138, 1-24.
- 2013.** F. Bea, P. Montero, **F. Haissen** & A. El Archi. "2.46 Kalsilite and nepheline syenites from the Awsard pluton, Reguibat Rise of the West African Craton, Morocco. Generation of extremely K-rich magmas at the Archean-Proterozoic transition". Precambrian Research, 224, 242-254.
- 2005.** AM. Aghzer, **F. Haissen** & A. Afiri. "Migmatization of the basal paragneisses of the Filali Unit (Beni Bousera Massif, Morocco) during polyphase extensional tectonics". Geogaceta, 38, 263-266.
- 2005.** AM. Aghzer & **F. Haissen**. "High-pressure granulite event in the Filali Unit (Beni Bousera Massif, Morocco): implications for an early Variscan metamorphic evolution". Geogaceta, 38, 267-270.
- 2004.** **F. Haissen**, A. Garcia-Casco, R. Torres-Roldan & A. Aghzer. "Decompression reactions and P-T conditions in high-pressure granulites from Casares-Los Reales units of the Betic-Rif belt (S Spain and N Morocco)". Journal of African Earth Sciences, 39, 375-383.

- 2003.** A. Garcia-Casco, F. **Haissen**, A. Castro, H. El Hmidi; R.L. Torres Roldan & G. Millan. "Synthesis of Staurolite in Melting Experiments of a Natural Metapelite: Consequences for the Phase Relations in Low Temperature Pelitic Migmatites". *Journal of Petrology*, 44 (10), 1727-1757. DOI 10.1093/petrology/egg056.
- 2001.** A. Garcia-Casco, R.L. Torres Roldan, G. Millan, P. Monié & F. **Haissen**. "High-grade metamorphism and hydrous melting of metapelites in the Pinos terrane (W Cuba): Evidence for crustal thickening and extension in the northern Caribbean collisional belt". *Journal of Metamorphic Geology*, 19, 699-715. DOI 10.1046/j.0263-4929.2001.00343.x.
- 1999.** F. **Haissen**, A. Garcia-Casco & R. Torres Roldan. "Trajectoire P-T des granulites mafiques des unités Casares-Los Reales Betico-Rifaines". *Notes et Mémoires du Service géologique du Maroc*, N°408, 277-284.

Invited Talks and Conferences

• *Invited Talks*

- 2022:** keynote conference: "The geology of Saharan Provinces of Morocco; Reguibat Shield and Oulad Dlim Massif", The 28th Colloquium of African Geology CAG28, Online, Morocco, 6 July.
- 2022:** Keynote conference: "Synthesis of 10 years research on Southern Morocco (Reguibat Shield and Oulad Dlim Massif", 1st Edition of International Conference on Soil, Water and Environment: Challenges and solutions, EST Fqih Ben Salah, Morocco, 28 March.
- 2022.** Talk: « **Geology and Economic potential of Southern Provinces of Morocco: Reguibat Shield and Oulad Dlim Massif** ». 16th Arab International Mineral Ressources Conference and the accompanying exhibition, Fujairah, United Arab Emirates, 22-24 February.
- 2020.** Talk: "Histoire et évolution de la géologie du Maroc: Zoom sur les Provinces Sahariennes". E-Conference organized by PhoresNet, Morocco, 8 April.
- 2018.** Talk: "The geology of Morocco: A record of 3 Ga of Earth's history" as Van Tuyl Lecture Speaker, the Geology and Geological Engineering Department at The Colorado School of Mines, Golden, USA, September 13.
- 2018.** Talk: F. **Haissen**, P. Montero, F. Bea, A. Mouttaqi, JF. Molina, A. Errami, O. Sadki "Awsard Syenites (Southernmost Morocco): Petrology, Geochemistry and Geochronology". Workshop with Potash Group at the Geology and Geological Engineering Department, the Colorado School of Mines, Golden, USA, September 4.
- 2018.** Talk: F. **Haissen**, P. Montero, F. Bea, A. Mouttaqi, JF. Molina, A. Errami, O. Sadki, F.G. Lodeiro "Vers une géologie plus précise du Sahara du sud Marocain ». Institute for advanced studies, Université Cergy Pontoise, France, 28 June.
- 2018.** Talk: F. **Haissen**, P. Montero, F. Bea, A. Mouttaqi, JF. Molina, A. Errami, O. Sadki, F.G. Lodeiro « **Vers une géologie plus précise du Sahara Marocain : Nouvelles données sur le bouclier de Reguibat et Massif des Oulad Dlim** ». Journées Géologiques du Maroc, Ministère de l'Énergie, des Mines, du développement durable. Rabat, Morocco, 8-9 May.
- 2017.** Talk: F. **Haissen**, P. Montero, F. Bea, A. Mouttaqi; JF. Molina, A. Errami "New data on the geology of southernmost Morocco (Reguibat shield, West African Craton and Oulad Dlim Massif", Rencontre Nationale des Jeunes Géologues, El Jadida, Morocco, 5-7 October.
- 2016.** Talk: "Chromitites associated to Bou Azzer Ophiolites (Pan-African Anti-Atlas belt, Morocco): State of current Knowledge" Workshop of the DIACRO Group (Diamante, Circon y otros minerales exóticos en cromititas ofiolíticas y rocas asociadas). Barcelona University, Spain 21-24 April. (<http://caribbeanlithos.com/>)
- 2015.** Talk: "Plio-quaternary Volcanism in Morocco in the frame of the Moroccan Hot line". Geolodia 15 de la Sociedad Geologica de Espana - Region de Murcia "Navegando entre volcanes" 8-9 May http://www.sociedadgeologica.es/divulgacion_geolodia_activ2015.html.

• *Conferences & Workshops*

- 2022.** Co-convenor Session SY-02 "Pre-Atlantic Geological Connections among Northwest Africa, Southern Europe, and Eastern North America". GAC-MAC-IAH-CNG-CSPG Halifax, May 17, Canada. Conveners: Sandra M. Barr, Said Belkacim, Faouziya Haissen, Yvette D. Kuiper, John Waldron. Topics include geology of the

Alleghanian/Variscan/Hercynian orogen and also older northwest African and Avalonian crustal fragments now located in eastern North America and southern Europe.
(<https://halifax2022.atlanticgeosciencesociety.ca/>)

2022. Oral communication. F. Haissen, P. Montero, F. Bea, O. Sadki, J.F. Molina, A. Mouttaqi, Y. Kuiper, M. Chaib, T. Ghadi: "An overview of the geology and mining potential of Southern Provinces of Morocco: The Reguibat Shield (West African Craton) and the Oulad Dlim Massif ". GAC-MAC-IAH-CNG-CSPG Halifax, May 15-18, Canada.
2022. Oral communication. M. Jabbour, M. Ikenne, F. Haissen, M. Souhassou, S. Ilmen, A. Karfal, L. Zhar, L. Kecha, H. Aouragh: "Geological mapping and petrostructural and geochemical study of the Aghbar deposit, Bou-azzer El Graara, central Anti-Atlas, Morocco ". GAC-MAC-IAH-CNG-CSPG Halifax, May 15-18, Canada.
2022. Oral communication. Yvette Kuiper, Sandra Barr, Faouziya Haissen, Pilar Montero, Saïd Belkacim: "The International Geoscience Programme (IGCP): an example and a fiftieth anniversary perspective". GAC-MAC-IAH-CNG-CSPG Halifax, May 15-18, Canada.
2022. Oral communication. M. Redouan, F. Haissen, O. Sadki, M. Raji « **Spectacular basalt columns of Jorf Laghdar: A potential Geoheritage site** ". **3 Journées Jeunes Chercheurs en Géosciences, Tetouan, Morocco, 21-22 May**.
2021. Poster. C. Villanova De Benavent, F. Haissen A. Garcia-Casco, A. Karfal, J.A. Proenza "Laterite vs non-laterite garnierites: Comparison between Ni phyllosilicates mineralization in Falcando (Dominican Republic) and in Bou Azzer (Morocco)". 3rd European Mineralogical Conference, Cracow, Poland, 29 August-2 September.
2021. Oral communication. R. Arenas, S. Sánchez Martínez, R. Albert, F. Haissen, J. Fernández-Suárez, N. Pujol-Solà, P. Andonaegui, R. Díez Fernández, J.A. Proenza, A. Garcia-Casco, y A. Gerdes "Generacion de litosfera oceánica en ciclos de 100 ma en pero-Gonwana: Ofiolitas de Marruecos e Iberia". X Congreso Geológico de Espana, Vitoria, 5-7 July.
2021. Co-convenor Session T17. "Pre-Atlantic Geological Connections among Northwest Africa, Southern Europe, and Eastern North America" The Geological Society of America : 56th Annual Meeting 2021 Northeastern Section Meeting Monday, March 15, 2021. **Conveners : Yvette D. Kuiper, Sandra M. Barr, Faouziya Haissen, Pilar Montero, and Saïd Belkacim**. Topics include geology of the Alleghanian/Variscan/Hercynian orogen and also older northwest African and Avalonian crustal fragments now located in eastern North America and southern Europe. (https://www.geosociety.org/GSA/Events/Section_Meetings/GSA/Sections/ne)
2021. Virtual oral communication. N. Pujol-Solà, H. Escalona, J.A. Proenza, F. Haissen, M. Ikenne, R. Arenas, S. Sánchez Martínez, L. Maacha, A. Garcia-Casco: "The Neoproterozoic Bou Azzer Ophiolite (Morocco): petrology, geochemistry and geodynamic implications". The Geological Society of America: 56th Annual Meeting 2021 Northeastern Section Meeting Monday, March 15.
2021. Oral communication: A. Atoubat, S. Corrado, D. Frizon de Lamotte, G. Mohn, F. Haissen, R. Leprêtre, A. Schito "The structuration of the External Rif (Rif belt, northern Morocco). An insight from palo-thermal and structural analyses". European Geosciences Union EGU General Assembly, Vienna, Austria (Online), 25 April.
2020. Oral communication: A. Schito, A. Atoubat, S. Corrado, F. Haissen, G. Mohn, D. Frizon de Lamotte "Structural styles of the External Rif and Flysch Domain (Rif belt, northern Morocco) through thermal maturity and structural data". European Geosciences Union EGU General Assembly, Vienna, Austria, 8 May.
2020. Oral communication: O. Gimeno-Vives, D. Frizon de Lamotte, R. Leprêtre, F. Haissen, A. Atoubat, G. Mohn "The structure of the central-eastern Rif (Morocco) and the disregarded subduction of the north-west African paleo margin". European Geosciences Union EGU General Assembly, Vienna, Austria, 8 May.
2019. Talk: F. Haissen, O. Gimeno-Vives, G. Mohn, V. Bosse, M. N. Zaghloul, D. Frizon de Lamotte "Mesorif mafic rocks (External Rif, Morocco): Ophiolitic suture or Central Atlantic Magmatic Province "CAMP" witness)?". 5th Workshop of IGCP-649 (Diamonds and Mantle Recycling), Muscat, Oman, 12-22 November.
2019. Poster: P. Montero, F. Bea, F. Haissen, JF. Molina, A. Mouttaqi "Granites show the first evidence of a Caledonian orogenic belt in Western Africa". 9th Hutton Symposium, Nanjing, China 14-19 October.
2019. Poster: F. Haissen, P. Montero, JF. Molina, F. Gonzalez-Lodeiro, A. Mouttaqi, F. Bea "Bimodal felsic-mafic Ediacaran magmatism in the pericratonic terranes of the Reguibat Rise (West African Craton, Morocco): Petrology, Geochemistry and Geochronology of the felsic side" 9th Hutton Symposium, Nanjing, China 14-19 October

2019. Oral communication: O. Gimeno-Vives, D. Frizon de Lamotte, R. Leprêtre, M.N. Zaghloul, F. Haissen, A. Atoubat, G. Mohn **"The structure of the central-eastern Rif (Morocco) and the disregarded subduction of the north-west African paleo margin"**. Workshop: Alboran Domain and Gibraltar Arc, Granada, Spain 15-18 October.
2019. Poster: O. Gimeno-Vives, G. Mohn, V. Bosse, F. Haissen, M. N. Zaghloul, A. Atouabat, D. Frizon de Lamotte **"The Mesozoic margin of the Maghrebian Tethys in the Rif belt (Morocco): Evidence for polyripping and related magmatic activity"**. Workshop: Alboran Domain and Gibraltar Arc, Granada, Spain 15-18 October.
2019. Poster: M. Redouane, F. Haissen, M. Raji, O. Sadki **"Automatic extraction of lineaments from Landsat 8 (OLI) images of the North-east Morocco"**. Workshop: Alboran Domain and Gibraltar Arc, Granada, Spain 15-18 October.
2019. Communication orale: D. Beelen, L. Wood, M.N. Zaghloul, M. Arts, I. Ouahbi, F. Haissen, M. Redouane **"Tidalites and facies shifts in reponse to relative sea level changes, Southern Riffian Corridor, Morocco"**. 34th IAS Meeting of sedimentology, Rome Italy, 10-13 September.
2019. Poster: M. Redouane, F. Haissen, O. Sadki, M. Raji **"Recent volcanism activity and geothermal potential of the eastern Rif (MOROCCO)"**. The European Geothermal Congress 2019 at the World Forum, The Hague, Netherlands, 10-14 June.
2019. Oral communication: O. Gimeno-Vives, G. Mohn, D. Frizon de Lamotte, F. Haissen, V. Bosse, M. N. Zaghloul, A. Atouabat **"The Mesozoic margin of the Maghrebian Tethys in the Rif belt (Morocco): Evidence for poly-phases rifting and related magmatic activity"**. European Geosciences Union EGU General Assembly, Vienna, Austria, 7-12 April.
2019. Oral communication: A. Ait-yazza, M. Raji, F. Haissen, H. Baoutoul, I. Bouskri **"Le rôle de la déformation de la couverture adoudounienne dans la mise en place de la mineralization cuprifère dans l'Anti-Atlas central, Maroc"**. 11^{ème} Colloque International « Magmatisme, métamorphisme et minéralisations associées 3MA », El Jadida, 23-24 April.
2019. Poster: H. Kairouani, M. El Mourabet, M.N. Zaghloul, F. Haissen **"Jurassic siliciclastic Ferrysch of the Mesorif sub-domain (external Rif, Morocco): New insight from geochemical weathering, paleoclimate conditions and geodynamic setting"**. Les troisièmes Journées Jeunes Chercheurs en Géosciences 3^{ème} JJCG2019, Université Ibn Tofeil, Kenitra, Morocco, 18-20 April.
2019. Oral communication: A. Ait-yazza, M. Raji, F. Haissen, H. Baoutoul, I. Bouskri **"Le rôle de la déformation de la couverture adoudounienne dans la mise en place de la mineralization cuprifère dans l'Anti-Atlas central, Maroc"**. Les troisièmes Journées Jeunes Chercheurs en Géosciences 3^{ème} JJCG2019, Université Ibn Tofeil, Kenitra, Morocco, 18-20 April.
2019. Poster: M. Redouane, F. Haissen, M. Raji **"Neogene to Quaternary Volcanism in the Northeast of Morocco: A Geothermal potential?"**. Les troisièmes Journées Jeunes Chercheurs en Géosciences 3^{ème} JJCG2019, Kenitra, Morocco, 18-20 April.
2018. Oral communication: M. Redouane, F. Haissen, M. Raji **"Geothermal potential of the Eastern Rif and its relationship with recent volcanism"**. 1^{ère} Ecole de terrain au Maroc Central, Faculté des Sciences Ben Msik, Casablanca, Morocco, 28 September-1 October.
2018. Oral communication: A. Ait-Yazza, M. Raji, F. Haissen **"The role of the deformation of the Adoudounian cover in the placement of Copper mineralization in the central Anti-Atlas, Morocco"**, National PhD Students Days 2018 (NPSD'2018) 1st Edition, May 4-5, 2018, Université Ibn Zohr Agadir, Ouarzazate, Morocco.
2018. Poster: Y. Kuiper, A. Michard, A. Soulaïmani, E. Ruellan, J. Crowley, F. Haissen, H. Ouanaimi **"The Pangean suture zone in southeastern New England, USA, and Morocco"**. European Geosciences Union EGU General Assembly, Vienna, Austria, 8-13 April.
2018. Poster: O. Gimeno, D. Frizon de Lamotte, G. Mohn, M. N. Zaghloul, F. Haissen, A. Atouabat, R. Leprêtre, V. Bosse **"Unravelling the Jurassic rifting history of the Rif Belt (Morocco): Interactions between the Central Atlantic and the Maghrebian Tethys"**. European Geosciences Union EGU General Assembly, Vienna, Austria, 8-13 April.
2017. Oral communication: F. Haissen, P. Montero, F. Bea, J.F. Molina, A. Mouttaqi, A. Errami, F.G. Lodeiro **"The Precambrian of the Reguibat Shield (West African Craton, southernmost Morocco): Petrology, Geochemistry**

and Geochronology". The 2nd Colloquium of International Geosciences Program IGCP638. Casablanca, Morocco, 7-12 november.

- 2017.** Oral communication: B. Baidada, M. Ikenne, P. Barbey, A. Alansari, A. Soulaïmani, B. Coussens, F. Haissen, S. Ilmen **"New zircon U-Pb ages of the Imiter granitoids (Saghro massif, eastern Anti-Atlas, Morocco): Geodynamic implications"**. The 2nd Colloquium of International Geosciences Program IGCP638. Casablanca, Morocco, 7-12 november.
- 2017.** Oral Communication: N. Pujol Sola, J. A. Proenza, T. Aiglsperger, A. García-Casco, F. Haissen, L. Maacha, M. IKENNE **"Descubrimiento de minerales "exótica" en Manto cromititas de Bou Azzer Ofiolita (Marruecos)"**. XXXVI Reunion de la Sociedad Espanola de Mineralogia, Oviedo, 4-7 July.
- 2017.** Oral Communication: D. Dominguez Carretero, N. Pujol Sola, T. Aiglsperger, J. A. Proenza, A. Garcia-Casco, F. Haissen, L. Maacha, M. Ikenne **"Caracterización de PGM en cromititas ofiolíticas neoproterozoicas de Bou Azzer, Marruecos"**. XXXVI Reunion de la Sociedad Espanola de Mineralogia, Oviedo, 4-7 July.
- 2017.** Talk: J.A. Proenza, A. Garcia-Casco, J.M. Gonzalez-Jimenez, J. Farré De Pablo, N. Pujol Sola, T. Aiglsperger, L. Turron, C. Villanova De Benavent, L. Butjosa, J.C. Melagarejo, S. Gali, D. Domínguez, J. Roque, E. Tablero, C. Domenech, Y. Rojas Agromonte, F. Haissen, I.F. Blanco, C. Lazaro, A. Camprubi V. Colas **"Minerales "exóticos" en cromititas ofiolíticas. Implicaciones para la geodinámica mantélica"**. XXXVI Reunion de la Sociedad Espanola de Mineralogia, Oviedo, 4-7 July.
- 2017.** Talk: F. Bea, P. Montero, F. Haissen, F.G. Lodeiro, J. F. Molina, A. Errami, A. Mouttaqi **"Geochronological and petrological evidence for the architecture of the Oulad Dlim Massif"**. West African Craton and Margins International Workshop WACMA1 Dakhla. Morocco, 24-29 April.
- 2017.** Oral Communication: F. Haissen, P. Montero, J.F. Molina, F. Bea, A. Mouttaqi and A. Errami **"New Zircon Oxygen and Hf isotopes evidence on the magmatic sources of the Derraman Aegirine-Riebeckite granites"**. West African Craton and Margins International Workshop WACMA1 Dakhla. Morocco, 24-29 April.
- 2017.** Oral communication: J.F. Molina, F. Bea, P. Montero, F. Haissen, F. González-Lodeiro, A. Mouttaqi and A. Errami and O. Sadki **"Microtextural, mineralogical and thermobarometric characterization of metagabbro-norites, charnockites and amphibolites from the Oulad Dlim Massif"**. West African Craton and Margins International Workshop WACMA1 Dakhla. Morocco, 24-29 April.
- 2017.** Oral communication: P. Montero, F. Bea, F. Haissen, F. González-Lodeiro, J.F. Molina, A. Errami and A. Mouttaqi **"The Gareg Granites: first evidence for an Archean core in the Oulad Dlim Massif"**. West African Craton and Margins International Workshop WACMA1 Dakhla. Morocco, 24-29 April.
- 2017.** Oral communication: B. Baidada, M. Ikenne, P. Barbey, A. Alansari, A. Soulaïmani, B. Coussens, F. Haissen, S. Ilmen **"New zircon U-Pb ages of the Imiter granitoids (Saghro massif, eastern Anti-Atlas, Morocco): Geodynamic implications"**. West African Craton and Margins International Workshop WACMA1. Dakhla. Morocco, 24-29 April.
- 2017.** Oral communication: F. Haissen, P. Montero, F. Bea, A. Mouttaqi, J.F. Molina and A. Errami **"New data on the Geology of southernmost Morocco (Reguibate shield, West African Craton)"**. The First ASRO Geological Congress. El Jadida, Morocco, 15-17 March.
- 2017.** Oral communication: A. Rafai, M.N., Zaghloul, F. Haissen, B. Louargli and A. Abassi **"A Remnant ophiolitic rocks of the occidental Mesorif (External Rif, Morocco): Petrology constraints and implications for a new geodynamic scenario of the External Rif Belt"**. The First ASRO Geological Congress. El Jadida, Morocco, 15-17 March.
- 2017.** Oral communication: F. Haissen, P. Montero, F. Bea, A. Mouttaqi, J.F. Molina and A. Errami **"Impact of modern technology and International cooperation on the evolution of the Geology of Southernmost Morocco"**. 10^{eme} Colloque International «Magmatisme, métamorphisme et minéralisations associées 3MA» Meknès-Ifrane, 2-4 April.
- 2016.** Oral Communication: P. Montero, F. Bea, F. Haissen, J.F. Molina and A. Mouttaqi **"Impact of Ibersims Shrimp (Macarena) on the geological knowledge of the Western Reguibat Shield, Northern West African Craton"**. VIII International Shrimp Workshop, Granada, Spain, 6-10 September <http://www.ugr.es/~shrimpworkshop/>.
- 2016.** Oral communication: O. Saddiqi, A. Michard, S. Zouhri, F. Bea, F. Haissen, P. Montero, E. Mansour, A. Mouttaqi, and E. Rjmati **"The West African Craton and the Mauritanides in Southern Morocco: A**

recommended geotrail straddling the Atlantic margin and the Sahara Approches". The 1st Colloquium of International Program of Geosciences IGCP638. Dakar. Senegal. 5-10 December.

- 2016.** Poster: Haissen, F., Zaghloul, N., Y. Dilek, A. Rafai, L. Maacha, A. Michard **"Oceanic Crustal rocks in the External Rif (Morocco with high K-boninitic affinities: Subduction initiation record for the Ligurian - Maghrebien Basin?"**. IGCP Project 649, 2nd Annual Meeting, Cyprus, 14-20 May <http://www.igcp649.com/>.
- 2016.** Oral communication: F. Haissen, P. Montero, F. Bea, A. Mouttaqi, J.F. Molina, A. Cambeses, E. Rjmati and A. Bouali **"Carbonatites from Southernmost Morocco (Reguibat Shield, West African Craton : Mineralogy, Geochemistry, Geochronology and Economic Potential"**. Premières Journées géologiques du Ministère de l'Énergie, des Mines, de l'Eau et de l'Environnement. Rabat, Morocco, 10-12 May.
- 2015.** Oral communication: F. Haissen, P. Montero, F. Bea, A. El Archi, E. Rjmati and A. Mouttaqi **"Les syénites d'Awsard (dorsale de Reguibate, Craton Ouest Africain): Une empreinte magmatique assez particulière"**. 9^{ème} Colloque Magmatisme, Métamorphisme et Minéralisations Associées 3MA, Taroudant - Agadir, Morocco, 2-4 April.
- 2015.** Oral communication: G. Balambula, A. Ennaciri, F. Haissen, and Z. Baroudi **"Minéralisation cuprifère du secteur d'Ambed/ Bou Azzer central/Anti-Atlas Maroc"**. 9^{ème} Colloque Magmatisme, Métamorphisme et Minéralisations Associées, Taroudant - Agadir, Morocco, 2-4 April.
- 2015.** Poster: G. Balambula, A. Ennaciri, F. Haissen, Z. Baroudi, S. Alikouss, Y. Zerhouni & M. Hibti **"Indices cuprifères d'Ambed (Bou Azzer Maroc)"**. Les Premières Journées Jeunes Chercheurs en Géosciences JJCG 2015, Bouznika , Morocco, 21-22 March.
- 2015.** Oral communication: G. Balambula, A. Ennaciri, F. Haissen & Z. Baroudi **"Minéralisation cuprifère du secteur d'Ambed/ Bou Azzer, Anti-Atlas central, Maroc"**. 2^{ed} Annual Meeting of "Comision de Petrologia, Geologia y Geochronologia de Rocas Igneas y Metamorficas (PGG-RIM) de la Sociedad Geologica de Espana, Rencontre Hispano-Portugo-Marocaine, Casablanca-Anti-Atlas, Morocco, 23-27 March.
- 2014.** Oral communication: H. El Hadi, G. Zahour, F. Haissen, A. Ghafiri, A. Tahiri, B. Baghdadi **"Le patrimoine géologique, archéologique et minier de la région centre atlantique du Maroc : une richesse à préserver pour un développement régional durable"**. International Conference in Integrated Management of Environment (ICIME), Hammamat, Tunisia, 25-28 September.
- 2014.** Poster: H.El Hadi, G. Zahour, F. Haissen, A. Tahiri, Z. Baroudi, A. Ghafiri, S. ElMoutaki **"Le patrimoine Géologique, archéologique et minier de la région centre atlantique (Kénitra-Safi) : une richesse à préserver pour un développement régional durable ».** Le premier workshop sur le projet centre ReNSA : «Environnement et Valorisation des Plantes Médicinales du Maroc", Mohammedia, Morocco, 12 June.
- 2014.** Talk: F. Bea, P. Montero, F. Haissen, J.F. Molina and J. Scarrow **"Unique deep-seated kalsilite- bearing rocks of the Reguibat Rise, West African Craton: The Awsard massif, South Morocco"**. 1st Annual Meeting of "Comision de Petrologia, Geologia y Geochronologia de Rocas Igneas y Metamorficas (PGG-RIM) de la Sociedad Geologica de Espana. Gredos, Spain 24-26 June. <https://www.ugr.es/~malmolaroko/actividades/2014Gredos/gredos2014.htm>
- 2003.** Poster: F. Haissen, A. Garcia-Casco and R.L. Torres-Roldan **"Trajectoire P-T des granulites mafiques des unites Casares-Lors Reales Betico-rifaines"**. 3^{ème} Colloque Magmatisme, métamorphisme et minéralisations associées 3MA. Casablanca, Morocco, 8-10 Mai.
- 2003.** Poster: F. Haissen, A. Garcia-Casco and R.L. Torres-Roldan **"Problèmes related to the use of quantitative mineral geothermobarometry in the case of natural granulites: Examples from Betic-Rifean Cordillera and from other granulite terranes"**. 3^{ème} Colloque Magmatisme, métamorphisme et minéralisations associées 3MA. Casablanca, Morocco, 8-10 Mai.
- 2003.** Oral communication: A. Aghzer, F. Benchekroun, F. Haissen and A. Rhoujjati **"Granulites basiques de haute pression de l'Unité de Filali (Rif interne, Maroc): Contexte tectono-metamorphique"**. 3^{ème} Colloque Magmatisme, métamorphisme et minéralisations associées 3MA. Casablanca, Morocco, 8-10 Mai.
- 2002.** Oral communication: F. Haissen, A. Garcia-Casco, R.L. Torres-Roldan and A. Aghzer **"Decompression reactions and P-T conditions in high pressure granulites from Casares –Los Reales units of Betic-Rifean belt (S Spain and N Morocco)"**. 19th Colloquim of African Geology, El Jadida, Morocco, 19-22 March.

- 2001.** Oral communication: A. Garcia-Casco, R.L. Torres-Roldan, G. Millan, P. Monié and F. Haissen “**P-T Evolution and hydrous melting of metapelites in the Pinos Terrane (Cuba): Tectonic implications for the early development of the Cuban collisional Belt**”. IV Congreso de Geología y Minería GEOMIn’2001, Habana, Cuba.
- 2001.** Oral communication: F. Haissen, A. Garcia-Casco, R.L. Torres-Roldan “**Granulites mafiques des unités Casares-Los Reales des deux côtés de la Méditerranée occidentale: Cordillères Bétiques (S Espagne) et chaîne Rifaine (N Maroc)**”. Séminaire sur l’Etat des connaissances géologiques des régions nord du Maroc: la chaîne rifaine dans son cadre méditerranéen occidental, Rabat, Morocco, 29-30 october.
- 2001.** Oral communication: A. Aghzer, A. Rhoujjati, F. Benchekroun, F. Haissen and A. El Archi “**Thermobarométrie et Trajet P-T des gneiss migmatitiques de l’Unité Filali (Massif de Beni Bousera, Rif interne)**”. 2^{ème} Colloque Magmatisme, Métamorphisme et Minéralisations associées 3MA, Marrakech, Morocco, 10-12 Mai.
- 2001.** Oral communication: F. Haissen, A. Garcia-Casco, R.L. and Torres-Roldan “**Textures réactionnelles des granulites mafiques Betico-Rifaines: Diffusion intergranulaire et croissance metastable de Spinelle**”. 2^{ème} Colloque Magmatisme, Métamorphisme et Minéralisations associées 3MA, Marrakech, Morocco, 10-12 Mai.
- 1999.** Oral communication: F. Haissen, A. Garcia-Casco and R.L. Torres-Roldan “**Trajectoire P-T des granulites mafiques des unités Casares- Los Reales Betico-Rifaines**”. 1^{er} Colloque Magmatisme, Métamorphisme et Minéralisations associées 3MA, Meknes, Morocco, 8-10 Mai.
- 1992.** Oral communication: F. Haissen, A. Garcia-Casco and R.L. Torres-Roldan “**Termobarometria en metapelitas de grado medio de Unidades Alpujarrides de la Zona Betica Occidental, Espana**” III Congreso Geológico de Espana y VIII Congreso Latinoamericano de Geología, Salamanca, Spain, 21-26 June.

Recent International meeting & fieldtrip organization

- 2022:** **Member** of scientific committee of 4^{èmes} Journées Jeunes Chercheurs en Géosciences. 20-22 May. Casablanca, Morocco.
- 2022:** **Member** of organizing and scientific committees of the 1st Edition of International Conference on Soil, Water and Environment: Challenges and solutions, EST Fqih Ben Salah, Morocco, 28-29 March.
- 2019:** **Member** of the National and International Committee for the organization of the 28th Colloquium of African Geology and 18th Conference of the Geological Society of Africa. <http://www.fsdmfes.ac.ma/CAG28/Committees/National>
- 2017:** **Member** of organizing and scientific committees of the 2nd Colloquium of International Geoscience Program IGCP638. Casablanca, Morocco, November 7-12th, Casablanca, Morocco. <http://igcp638.univ-rennes1.fr/>
- 2017:** **Member** of organizing and scientific committees of the First West African Craton and margins international Workshop. 24-29 April 2017, Dakhla, Morocco. <http://www.wacma1.ma/>
- 2017:** **Coordinator** of organizing committee of Deuxièmes Journées Jeunes Chercheurs en Géosciences 2^{ème} JICG2017). 21-22 April 2017. Casablanca, Morocco.
- 2017:** **Member** of organization committee and chairwoman of Mineralogy-Petrology Session of the First ASRO Geological Congress – [ASRO – GC 2017], El Jadida, Morocco <http://asrogeo.org/conferences/asro-geological-congress/first-asro-geological-congress/>
- 2015:** **Member** of organization committee of Les premières Journées Jeunes Chercheurs en Géosciences (1^{ère} JICG2017). 21-22 March 2015. Casablanca, Morocco.
- 2015:** **Chairwoman** of Organization committee of 2nd Annual Meeting of “Comision de Petrologia, Geologia y Geochronologia de Rocas Igneas y Metamorficas (PGG-RIM) de la Sociedad Geologica de Espana, 23-27 March 2015, Morocco. Fieldtrip in Neoproterozoic ophiolites of Anti-Atlas belt. <http://www.ugr.es/~malmolaroko/actividades/2015Antiatlas/antiatlas2015.htm>
- 2015:** **Member** of organization committee of Geoloday 15 “Navegando entre volcanes” 8-9 Mai 2015, Murcia, Spain <https://fr.scribd.com/doc/289685659/Murcia-Geolodia-5-guia>
- 2006:** **Member** of organization committee of the 2th Conference of the African Association of Women Geosciences “. El Jadida, Morocco.

Associative life & others

- Member of Scientific committee of ONG “We Speak Citizen, <https://wespeakcitizen.org/>
- Member of the board of “Attarik Foundation”, <http://attarikfoundation.org/>
- Since 2018, member of the board of MFAA Moroccan Fulbright Alumni Association
- 1994-1995: volunteer in Cruz Roja Granada, Spain
- 1998-2003: Member of American International Women Club of Casablanca
- Languages: Bilingual Arabic - French - Spanish - English
- Hobbies: books, cooking, painting walls and wood.