

الجمهورية الجزائرية الديمقراطية الشعبية
People's Democratic Republic of Algeria

رئاسة الجمهورية
Presidency of the Republic



الأكاديمية الجزائرية للعلوم والتكنولوجيات

بالشراكة مع جامعة العلوم والتكنولوجيا هواري بومدين .



ملتقى دولي حول الجيولوجيا في الجزائر

الهندسة الليثوسفيرية، الديناميكية الجيولوجية، والموارد المعدنية للهقار

INTERNATIONAL SYMPOSIUM
ON THE GEOLOGY OF ALGERIA :
LITHOSPHERIC ARCHITECTURE GEODYNAMICS,
AND MINERAL RESOURCES OF THE HOGGAR

23 نوفمبر 2025
25 NOV

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■ Préambule

The Hoggar massif, located in southern Algeria and extending into Mali and Niger, represents the central part of the Tuareg Shield and offers key insights into the formation of the continental crust. Its Precambrian outcrops record a complex tectono-thermal history from the Archean to the Neoproterozoic, reflecting heterogeneous crustal blocks shaped by multiple orogenic cycles and the transition to modern plate tectonics. The region hosts some of Algeria's oldest metamorphic terrains and significant strategic mineral resources—such as gold, niobium, tantalum, tin, tungsten, lithium, and uranium—whose potential remains underexplored. Cenozoic uplift, prolonged volcanism, and early Cretaceous rifting linked to Atlantic opening have further shaped the Hoggar within a broader African lithospheric dome.

This symposium, co-organized by the Algerian Academy of Science and Technology, USTHB, Sonatrach, Sonarem, and ASGA, gathers researchers to discuss recent advances in the geodynamics and mineral resources of the Hoggar, promote collaboration, and encourage modern exploration for sustainable development. Selected papers will be published in a special issue of the Journal of African Earth Sciences.

Presidents :
Prof. Khadidja Ouzegane & Prof. Mohamed Hamoudi

■ Programme

November 23, 2025

Session Chairs Khadja M Zerrouki A	08h00 – 09h00	Reception and Registration
	09h00 – 09h30	Official Opening Kara Hichem: President of AAST. Akretche Djamel-Eddine: Rector of USTHB. Hamoudi Mohamed: Co-President of ISGA
	09h30 – 10h00	Ouzegane K The evolution of the Hoggar through time
	10h00-10h30	Coffee Break & Poster Session
	10h30 – 11h00	Djebbar A Un bref panorama de l'exploitation et de la transformation des minerais dans la civilisation de l'Islam (IXe-XIXe s.)
	11h00-11h30	Zerrouki A Mineral Resources of the Hoggar shield : A Review
	11h30-11h50	Boutaleb A Economic potential in Tungsten and rare-metal (Nb, Ta, Sn) in hydrothermal metallogenic systems of the Pan African context: Example of the LATEA Terrane
	11h50-12h10	Holzheid A Rare-metal granitic systems: insights from the Nahda and Rechla intrusions, Central Hoggar
	12h10-12h30	Belhai D New Nominations of Algerian, Libyan, and Malian Meteorites
	12h30 - 12h50	Bendaoud A The duration and complexity of the Paleoproterozoic UHT/HT metamorphic evolution of the In Ouzzal terrane (Hoggar, Algeria): Implications for geodynamic evolution.
Session Chairs Belouchrani A. Mammeri N.	13h-14h	Lunch break
	14h - 14h20	Schulmann K The Role of Interior Oceans in Pangea Agglomeration: Implications for Supercontinent Assembly
	14h20 - 14h40	Hamimi Z Structural controls on gold mineralization: insights from the Egyptian Nubian Shield, NE Africa
	14h40 - 15h00	Tadjedine A Synchrotron techniques,a powerful lighttools to study materials: Applications in geosciences
	15h00-15h20	Joaquim F.L The Generic Mapping Tools (GMT) extended capabilities via the Julia wrapper
	15h20 - 15-40	Štípská P Melt-mediated coupled dissolution-precipitation of zircon in migmatitic metagranite
	15h40-16h10	Coffee Break & Poster Session
	16h00-16h20	Konopásek J Polymetamorphic evolution of the northern core of the Kaoko-Dom Feliciano-Gariep orogen (Coastal Terrane, NW Namibia)
	16h20 - 16h40	Fettous E Pseudotachylites in lower anhydrous continental crust Example from the UHT In Ouzzal terrane (Western Hoggar, Algeria): witnesses of paleoseism at 0.82 Ga.
	16h40-17h00	Doukkari S Granulite-facies metamorphism in the Hoggar (South Algeria): a review of UHT and HT metamorphism during the Paleoproterozoic and the Neoproterozoic.
Session Chairs Hamoudi M. Holzheid A.	17h00 - 17h20	Arab A A review of the Hoggar eclogites (south Algeria)

November 24, 2025

Session Chairs Hamimi Z Meghraoui M	08h30-8h50	Hamoudi M The Algerian Aerogeophysical Survey of the Hoggar: What Lies Beneath the Maps ?
	08h50 – 09h10	Derder M.E Paleomagnetism of the Saharan basins surrounding the Hoggar Shield: an overview
	09h10 – 9h30	Bouزيد A A Review of Magnetotelluric Investigations in the Hoggar Massif: Constraints on Lithospheric Structure and Dynamics
	9h30 -9h50	Kherchouche R Dynamic topography of the Hoggar Massif (Southern Algeria): Implication for Lithospheric evolution, thermal convection and stress distribution
	9h50 - 10h10	Ayadi A Present-day Seismicity and active faulting in the Hoggar swell, (Central Sahara, Algeria), case of intraplate earthquakes
	10h10 - 10h30	Coffee Break & Poster Session
	10h30 - 10h50	Belgrano T Nothing but the groundtruth: Levering field data for remote geological mapping
	10h50-11h10	Laichaoui Y First Evidence of Meso-Neoproterozoic Rifting in the Tuareg Shield: Petrography, Zircon U–Pb Geochronology and Geochemistry of the Iniloukou Mafic–Ultramafic Complex, with Implications for Geodynamic Setting (Egéréregion, South Algeria)
	11h10-11h30	Aissa D Suitable and unsuitable mineral deposits in the hoggar
	11h30-11h50	Bouabsa L Petrology, geochemistry and mineralogy of rare metal pegmatitesof Central Hoggar – Algeria
Session Chairs Boutaleb A Fettous E	11h50-12h10	Boutrika R Two generations of gold from the In Abeggui gold deposit (Laouniterrane-Hoggar central, southernAlgeria)
	12h10 - 12h30	Soejono I Paleogeography and geodynamics of microcontinents within the Mongolian Collage
	12h30 - 12h50	Ben El Khaznadji R Melilitic lavas in the In Téria region (Illizi Basin - Algerian Sahara)
	13h-14h	Lunch break
	14h - 14h20	Cherfi Y Controls on rare metal-mineralized systems in post Pan-African granites (Hoggar, Algeria)
	14h20 - 14h40	Sahoui R Precambrian impactism on Earth: flux, frequency and paleogeography
	14h40 - 15h00	Abbassene F Alpine tectonic evolution and related igneous activity along the Algerian margin
	15h00-15h20	Hachemaoui O Evolved CAMP magmatism and possible environmental impacts at the Triassic–Jurassic transition: Insights into the plumbing system from doleritic pipes in southwestern Algeria.
	15h20 - 15-40	Pause café Poster Coffee Break & Poster Session
	15h40-16h10	Adjerid Z The Serouenout terrane (the Hoggar Shield, Southern Algeria) with exceptional whiteschists and hibonite marbles: Geodynamic evolution during the Pan-African
Session Chairs Belgrano T Cherfi Y	16h10-16h30	Amara M Geodynamic evolution of the Tefedest terrane: Geochemical, geochronological, and P-T studies
	16h30 - 16h50	Harouz C Refined Pressure–TemperatureEstimates and REE Mobilityduring UHT Metamorphism in the Tekhamalt Area (In OuzzalTerrane, Western Hoggar)
		Closing Ceremony

