



IGGC₁₂ *Georgetown*

12th Inter-Guiana Geological Conference

12-13 December 2022

Georgetown, Guyana



History of the Inter Guiana Geological Conferences

The idea of an Inter Guiana Geological Conference was in 1949 first proposed by Hendricus (Henk) Schols, at that time head of the Geological and Mining Service of Suriname. He had graduated as a mining engineer from Delft University of Technology, and had passed the years of the Second World War in Suriname on secondment from a private organisation. After the war, he was asked by the governor of Suriname to set up the Geological and Mining Service.

He organised the first Inter Guiana Geological conference in Paramaribo from September 23 to October 3, 1950. In the following years the tradition of Inter Guiana Conferences was continued in the different Guianian capitals.

In the fourth one a Brazilian representative was present, and the fifth also one from Venezuela. Proceedings were published from the fourth conference onward, always by local government institutes and all in different formats. Participants came from all Guianian countries including Colombia and also from beyond, including Bolivia, United States, Canada, UK, Switzerland, France, Gabon and Tanzania. The 10th Conference in Belém, Brazil in 1975 was a hugely impressive event.

The conference series was resuscitated after a long pause in 2019 thanks to the support of the AMIRA Global South American Exploration Initiative, and this current meeting represents the 12th in a long series of successful conferences dedicated to the region.

Conference Sponsor



Program: 12 December 2022

TIME	THEME	PRESENTER / TITLE
08:30–09:00	Registration	AMIRA
09:00–10:00	Welcome	Minister of Mines & Mark Jessell
10:00–10:30	Coffee Break	
10:30–11:10	Tectonics 1	KEYNOTE La Donna Fredricks–Guyana Mineral Outlook
11:10–11:30	Tectonics 2	Jean-Michel Lafon–U-Pb-Hf zircon geochronology of the northern border of the Archean Amapá Block, SE Guiana Shield: Further evidence of dominant Neoproterozoic magmatism
11:30–11:50	Tectonics 3	Leda Fraga–The Orocaima Igneous Belt and the 1.99–1.96 Ga SLIP in the Amazonian Craton
11:50–12:10	Tectonics 4	Nicolas Thébaud–Crustal evolution of the Guyana Shield: insights from coupled Lu-Hf and O isotopic analyses
12:10–13:40	Lunch & Posters	
13:40–14:00	Tectonics 5	Salomon Kroonenberg–The 1.98 Ga Goboy dolerite: a new dyke swarm in northern Suriname
14:00–14:20	Tectonics 6	Mark Jessell–What do we really know about the relationship between the Guiana Shield and the West African Craton?

TIME	THEME	PRESENTER / TITLE
14:20–14:40	Tectonics 7	Gerardo Ramiro Matos–The Roboré microcontinent, SW Amazonian Craton: new insights on the Orosirian-Ectasian crustal evolution from U-Pb geochronology
14:40–15:00	Tectonics 8	Alexis Plunder–Tectono-metamorphic framework of the Rosebel and Armina unit, French Guiana
15:00–15:40	Coffee Break	
15:40–16:00	Tectonics 9	Emond W.F. de Roever–Ultra-high-temperature Metamorphism in the Bakhuis Granulite Belt (Suriname)
16:00–16:20	Tectonics 10	Paul Mason–Age constraints on Early Proterozoic sedimentation during Transamazonian continental convergence in Suriname
16:20–16:40	Tectonics 11	Mike Tedeschi–Preliminary Lithostratigraphy of the Rhyacian Greenstone Belts of Northern Guyana and Suriname
16:40–17:20	Exploration 1	KEYNOTE Blandine Gourcerol–French Guyana: New insights into under-investigated region for geological assessment– A BRGM approach
17:30–18:30	Welcome Drinks	

Posters on Display

Monday 12 December

POSTER TITLE	AUTHOR
Nature of the relationship between the Marowijne greenstone belt and the Gran Rio granite of the Rhyacian Transamazonian orogenic belt, Suriname: Significance of the Sara's Lust migmatite	Fydji Sastrohardjo
High-grade metamorphism in the central region of Amapá, Northern Brazil: age constraints from in situ U-Pb dating of monazite and zircon	Milhomem Neto
The Bemau Ultramafic Complex and the Borgia Hill Chromite Complex: Two contrasting ultramafic complexes in the Paleoproterozoic basement of Suriname	Renoesha Naipal
A newly recognized 1.98 Ga large igneous province (LIP) in the Amazonian Craton and its relationship with the coeval Orocaima silicic LIP	Mauricio Ibañez-Mejia
Stratigraphy and Structure of the Makapa Project, Guyana	Kumar Persaud
Three-dimensional modeling of Lateritic Paleosurface (regolith mapping) using air borne electromagnetism surveys, in Mali West Africa	John Applewhite-Hercules
Copper mineralisation in Paleoproterozoic cordierite-biotite-magnetite-apatite rocks at Weko Sula, SE Suriname: anatexis of a cupriferous argillaceous evaporite-to-red bed sequence	Salomon Kroonenberg

Tracing the influence of the Amazon River along the Suriname coastline from the Mid-Miocene to Holocene

Kathleen Gersie

Petrography of the metamorphic rocks in the Kabofe and Jaikreek area, Marowijne Greenstone Belt, Suriname

Santoucha Woolly

Paleocene groundwater salinity mapping in coastal aquifers using geophysical well logs: A Suriname case study

Oclaya Verwey

Mazaruni River – Mike Tedeschi



Program: 13 December 2022

TIME	THEME	PRESENTER / TITLE
08:40 – 09:00	Exploration 2	Serge Nadeau–Update on the Guyana-Brazil project and more recent zircon age results of alkaline intrusions in Southern Guyana: Makarapan Mountain and Muri Mountain Alkaline Complex
09:00 – 09:20	Exploration 3	John Applewhite–Hercules - An assessment of trace element geochemistry of paleo-surface gravels, lateritic Regolith and Rock outcrops for potential Orogenic Gold Formation Processes in Guyana
09:20 – 09:40	Exploration 4	Salomon Kroonenberg–Friedrich VOLTZ (1828–1855), discoverer of the Maronian greenstone belt in the Guiana Shield
09:40 –10:00	Exploration 5	Bruna Borba de Carvalho– Paleoproterozoic U-Pb ages and geochemistry of mafic and ultramafic rocks of Matthews Ridge, Guyana: A comparison with other Paleoproterozoic occurrences within the Guiana Shield
10:00 –10:20	Exploration 6	Brice Lacroix–The role of polyphase folding in the distribution of Gold: Insights from the Guiana Shield
10:20 – 11:00	Coffee Break & Posters	
11:00 –11:40	Mineralisation 1	KEYNOTE Marc Bardoux–OCSH, IH and IR Rhyacian gold deposits of the Guiana Shield

11:40 – 12:00	Mineralisation 2	Vincent Combes–Geometry and spatial distribution of shear zones and associated gold-bearing quartz veins, hosted by a TTG-like complex, at the Brothers Project, Eastern Suriname
12:00 –13:30	Lunch & Posters	
13:30–13:50	Mineralisation 3	Tramaine James–Preliminary investigation of the Toroparu Au-Ag-Cu Deposit, Guyana, South America
13:50 –14:10	Mineralisation 4	Nicole Kioe–A-Sen - Gold mineralisation in the Paleoproterozoic greenstone belt of Suriname: Insights from the Overman deposit
14:10 –14:30	Mineralisation 5	Stacey Amattaram–Stratigraphy and Geochemistry of the Paleoproterozoic manganese in the Guiana Shield, South America
14:30 –15:30	Coffee Break & Posters	
15:30 – 15:50	Mineralisation 6	Carlos Bertoni–The Oko West gold deposit – a new discovery in the Guiana Shield
15:50 – 16:10	Mineralisation 7	Gabriel Soares–Gabriel Soares - The Geological Setting and Hydrothermal Alteration of the Tucano Gold Deposit, Guiana Shield, Brazil
16:10 – 16:40	Closing remarks	

Posters on Display

13 December

POSTER TITLE	AUTHOR
Geochemistry and Sm-Nd isotopic data for unmetamorphosed units in Matthews Ridge, Guyana, that are inferred to belong to the Avanavero LIP.	Bruna Borba de Carvalho
Hydrothermal desilicification, alkali leaching and oxidation in metapelites of the Rosebel gold district in the Paleoproterozoic Marowijne Greenstone Belt, Suriname	Renoesha Naipal
Intrusive Rocks of the Karouni Basin: Characteristics and Significance to Mineralization	Denbre McGarrell
Regional mercury background values in soils and saprolites in the gold-producing greenstone belt of Suriname, Guiana Shield	Salomon Kroonenberg
Aruwai Regional Geochemical Project	GGMC
Five Star Regional Geochemical Project	GGMC
Mara Mara North Regional Geochemical Project	GGMC
Rupa West Aranka Soil Sampling Project	GGMC
Upper Potaro Regional Geochemical Project	GGMC
Other Minerals	GGMC

SAXI: The South American Exploration Initiative

The AMIRA Global Project P1061B South American Exploration Initiative aims to enhance the exploration potential of the Guiana Shield and neighbouring terranes in northeast South America through an integrated program of research and data gathering into its 'anatomy'. There is an equally strong commitment to training and training by research to produce the next generation of local industry-aware geoscientists.

Stage 2 of the SAXI project has brought together minerals exploration companies, geological surveys and Research organisations to develop the basis for a long-term renewal of our scientific understanding of the tectonics and metallogenesis of the region.

SAXI Partners

- AMIRA Global
- AngloGold Ashanti
- Anton de Kom University of Suriname
- Barrick
- BRGM
- Centamin
- CPRM
- Federal University of Minas Gerais at Belo Horizonte
- Guyana Geology and Mines Commission
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For more information: www.saxiproject.org

Amatuk Falls on the Potaro River – Mike Tedeschi



