

12th International Conference on Medical Geology

Three-way meeting between Geology, Environment and Public Health. New challenges and Perspectives

1 - 7 August 2027
Rio de Janeiro - Brazil

Realização



Associação Internacional de Geologia Médica – IMGA Chapter Brazil



Consórcio Internacional de Ciências da Saúde e Ambientais - IEHSC



Apoio Institucional

Consórcio Internacional de Ciências da Saúde e Ambientais – IEHSC
Serviço Geológico do Brasil – SGB
Universidade do Estado do Rio de Janeiro – UERJ
Universidade Federal do Rio de Janeiro – UFRJ
Universidade Federal do Ceará – UFC
Universidade Federal da Bahia - UFBA

Quem Somos

Associação Internacional de Geologia Médica – IMGA Chapter Brazil

A Associação Internacional de Geologia Médica tem como objetivo fornecer uma rede e um fórum para reunir a experiência entre geólogos e cientistas da Terra, cientistas ambientais, toxicologistas, epidemiologistas e especialistas médicos, a fim de caracterizar as propriedades dos processos e agentes geológicos, a dispersão do material geológico e seus efeitos sobre as populações humanas.

Nosso principal objetivo é aumentar a conscientização entre cientistas, especialistas médicos e o público em geral sobre a importância dos fatores geológicos para a saúde e o bem-estar. Reconheceu-se que a limitada cooperação e comunicação entre esses grupos restringia a capacidade de cientistas e profissionais de saúde pública de solucionar uma série de problemas complexos de saúde ambiental.

Os Chapters da IMGA são grupos regionais que reúnem pessoas de uma área ou organização interessadas em geologia médica. Atualmente, existem 29 Chapters da IMGA em todo o mundo, com membros em mais de 50 países.

A geologia médica é uma disciplina emergente (ou reemergente) que, em termos gerais, examina os impactos dos materiais e processos geológicos na saúde pública. É uma disciplina dinâmica que reúne as comunidades de geociências, biomedicina e saúde pública para solucionar uma ampla gama de problemas de saúde ambiental.

Somos membros da IUGS (União Internacional de Ciências Geológicas).
A União Internacional de Ciências Geológicas (IUGS) é uma das maiores organizações científicas do mundo. Ela incentiva a cooperação e a participação internacional nas ciências da Terra em relação ao bem-estar humano.
https://www.iugs.org/organization/affiliated-organizations

Objetivos

Associação Internacional de Geologia Médica – IMGA Chapter Brazil

Os profissionais de Geologia Médica têm cinco objetivos principais:

01- Identificar anomalias geoquímicas em solos, sedimentos e água que possam impactar negativamente a saúde humana e animal.

02- Identificar as causas ambientais de problemas de saúde conhecidos e, em colaboração com pesquisadores biomédicos/de saúde pública, buscar soluções para prevenir ou minimizar esses problemas.

03- Avaliar os efeitos benéficos à saúde de materiais e processos geológicos.

04- Tranquilizar o público quando houver preocupações injustificadas com a saúde ambiental associadas a materiais ou processos geológicos.

05- Criar vínculos entre países desenvolvidos e em desenvolvimento para encontrar soluções para a saúde ambiental.

Objetivos

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Os principais problemas de saúde ambiental que exigem colaboração entre geólogos e a comunidade médica incluem: exposição à poeira natural e à radioatividade; exposição a níveis tóxicos de oligoelementos essenciais e não essenciais, como arsênio e mercúrio;deficiências de oligoelementos nutricionais; compostos orgânicos e inorgânicos tóxicos de ocorrência natural na água potável; identificação e efeitos de emissões vulcânicas, etc.

Os geocientistas também desenvolveram uma série de ferramentas e bancos de dados que podem ser usados pela comunidade de saúde ambiental para estudar doenças transmitidas por vetores, modelar a dispersão de poluentes em águas superficiais e subterrâneas e no ar, e podem ser aplicados a problemas de saúde ocupacional resultantes da exposição a minerais.

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Conference and Themes

MEDGEO'27 aims to provide a network and a forum to pool the expertise of Geologists, Earth Scientists, Environmental Scientists, Toxicologists, Epidemiologists, and Medical specialists in order to characterize the properties of geological processes and agents, the dispersal of geological materials, and its effects on human populations.

The theme of the conference, "Three-way meeting between Geology, Environment and Public Health. New challenges and Perspectives", provides a unique opportunity for geologists, geochemists, chemists, mineralogists, physicians, soil scientists, doctors, toxicologists, veterinarians, biologists, and many other specialists to share ideas and knowledge about the impact of natural environment on health.



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Themes

01 - Environmental Geochemistry and Human Health

02 - Environmental Pollution, Dust and Public Health

03 - Medical Geology and Mega Cities, Urban Environments and Climate Change

04 - Medical Geology and Mining

05 - Medical Geology and Endemic Diseases

06 - Occupational Health, Environmental Toxicology and Epidemiology

07 - Agriculture, Food Safety and Environmental Quality

08 - Advanced Technologies in Medical Geology

09 - Spatial Analysis, Big Data, GIS and Artificial Intelligence in Medical Geology

10 - Risk Assessment, Risk Communication and Environmental Health Management

11 - One Health and the Critical Zone: Integrating Environment, Ecosystems, and Human Health

12 –Medical Geology and Non-Communicable Diseases (NCD)

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HEALTH • ENVIRONMENT • GEOLOGY

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Local Organizing Committee

- Cassio Roberto da Silva, SGB-CPRM
- Rita Salgueiro, UFC
- Edson Farias Mello, UFRJ
- Eduardo Viglio, SGB-CPRM
- José Ângelo Sebastião Araújo dos Anjos, IGEO/UFBA
- Joyce Shantala Fernandes de Oliveira Sousa, UFC

International Scientific Committee: To be invited

Courses / Workshops

Three short courses / workshops are planned for Sunday, August 1st, 2027.

Field Excursions

One to two field excursions will be planned for Saturday, 7th August 2027.

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Programme at a glance

August 1 - Sunday
10:00 – 19:30 Registration
Pre-Conference Workshops:
10:00-12:30 Workshop session
12:30-14:00 Lunch
14:00-17:00 Workshop session

19:30 – 22:30 Ice Breaker party

August 2 - Monday
9:00 - 10:00 Registration
10:00 - 11:00 Open Ceremony
10:00 - 11:30 Coffee break
11:30 - 12:30 Plenary Conference
13:00 - 14:00 Lunch
14:00 - 16:30 Parallel sessions
16:30 - 17:00 Coffee break

17:00 - 18:00 Poster presentation session

August 3 – Tuesday
9:00 - 9:30 Keynote lecture
9:30 - 11:00 Parallel sessions
11:00 - 11:30 Coffee break
11:30 - 13:00 Parallel sessions
13:00 - 14:00 Lunch
14:00 - 15:00 Plenary Conference
15:00 - 16:30 Parallel sessions
16:30 - 17:00 Coffee break
17:00 - 18:00 Poster presentation session

August 4 - Wednesday
9:00 - 9:30 Keynote lecture
9:30 - 11:00 Parallel sessions
11:00 - 11:30 Coffee break
11:30 - 13:00 Parallel sessions
13:00 - 14:00 Lunch
Free afternoon (Visit to Rio de Janeiro)

August 5 - Thursday
9:00 - 9:30 Keynote lecture
9:30 - 11:00 Parallel sessions
11:00 - 11:30 Coffee break
11:30 - 13:00 Parallel sessions
13:00 - 14:00 Lunch
14:00 - 15:00 Plenary Conference
15:00 - 16:30 Parallel sessions
16:30 - 17:00 Coffee break
17:00 - 18:00 Poster presentation session

20:00-23:00 Conference Dinner

August 6 - Friday
10:00 – 10:30 Keynote lecture
10:30 – 12:00 Parallel sessions
12:00 - 13:00 Closing ceremony and Student awards

August 2, Saturday
8:00 - 20:00 Field Trips

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Programme details

Plenary Conferences and Keynote Lectures

Three plenary conferences and four keynote lectures will be presented during the conference sessions.

To be defined according to invitations

Courses / Workshops

Three short courses / workshops are planned for Sunday, August 1st, 2027.

To be defined according to invitations

Field Excursions

One to two field excursions will be planned for Saturday, 7th August, 2027.

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Conference Fees

Registration	Early Registration (before 30.04.2027)	Registration
Member (a)	150€	200€
Non-member	200€	250€
Post-Graduate Student (b)	100€	120€
Undergraduate Student(b)	80€	100€
Accompanying persons	80€	100€

Workshops	Early Registration (before 30.04.2027)	Registration
Member (a)	65€	90€
Non-member	80€	100€
Post-Graduate Student (b)	65€	90€
Undergraduate Student(b)	40€	60€

Field Trips	Early Registration (before 30.04.2027)	Registration
Member (a)	65€	90€
Non-member	80€	100€
Post-Graduate Student (b)	50€	65€
Undergraduate Student(b)	40€	60€

(a) Only members of IMGA are eligible for reduced member rates;
(b) For students' confirmation of their status is required (a document proving his/her enrolment in a university course must be provided during the registration).

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Programme details

The Conference registration fee includes:

- **Ice-Breaker party**
- **Attendance to all conference (oral and poster) sessions (except workshops)**
- **Book of Abstracts**
- **Coffee breaks**

Letter of Invitation to Attend the Conference: A letter of invitation is issued solely for the purpose of assisting participants with visa applications and/or to obtain funding for their attendance at the conference. Such a letter does not imply any financial obligation to conference organizers.

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Additional information

Welcome reception/Ice Breaker party

All delegates are warmly invited and encouraged to attend the MEDGEO'25 Welcome Reception. This will provide a chance to become reunited with colleagues you have not seen in a while and a chance to meet new ones. There will be live music, drinks and refreshments. Dress is casual and participation is free for all delegates.

Open and closing ceremony

The conference will be officially opened at the reception, with a welcome address from the conference organizers, the Director of Brazil Geological Survey and the President of IMGA - International Medical Geology Association.

Conference dinner

The conference dinner is to be defined.

Connections and Accommodation

Flying to Brazil

The closest international airport is Antônio Carlos Jobim International Airport, also known as Galeão Airport (IATA: GIG, ICAO: SBGL). The airport is located in the northern part of the city of Rio de Janeiro, more precisely on Governador Island, 20 km from the city center.

There are several options to reach the center of the city from the Galeão Airport: bus, uber, taxi, subway (https://www.riogaleao.com/passageiros/agrupador/how-to-get-and-go).

Accommodation Information

There are several hotels located near the Urca and Botafogo regions, with rooms at different price levels. Participants must book their own hotel. Early booking is strongly recommended.

Visa information

Brazil requires a visa for people of over 60 nationalities to make a simple visit to the country for a few days. There are other nationalities that can come to Brazil without a visa, but for a maximum stay of 30, 60 or 90 days — depending on the country of origin.

Participants are advised to contact a Brazilian embassy or consulate in your country, where you can request further information.