



**Announcement of the XXth IAGA  
Workshop on Geomagnetic  
Observatory Instruments, Data  
Acquisition and Processing**



**FIRST CIRCULAR**

**(October 31 – November 6) 2024 – Vassouras – RJ – Brazil**

We invite the community involved in geomagnetic field observations to attend the **XXth IAGA Workshop on Geomagnetic Observatory Instruments, Data Acquisition, and Processing** to be held in Vassouras, Rio de Janeiro State, Brazil, from October 31 to November 6, 2024.

The main objective of this meeting is to organize magnetic observatory practice and scientific sessions for professionals and students from all over the world who are engaged in the study of geomagnetism. Also, this workshop aims to be an opportunity to improve the situation concerning the definitive data production. At the **XXth IAGA Workshop** we emphasize the participation of students.

The **XXth IAGA Workshop** will consist of three parts: Comparison Measurements will be held at Vassouras Magnetic Observatory (VSS). The Scientific Sessions and Summer School will be held at the Bliss Hotel about 0.4 km from VSS.

The **XXth IAGA Workshop** will include the following topics:

- Updates on geomagnetic observatories and networks
- Geomagnetic Observatory Practice and Data Processing
- Geomagnetic Instrumentation
- Geomagnetism and Applications (Magnetic Charts, Secular Variation, Space Weather, etc...)

**Confirmed Summer school:**

- Data preparation, data analysis and data checking in geomagnetism  
By Roman Leonhardt
- Data processing course  
By Chris Turbitt
- Development of high-resolution fluxgate sensors  
By Luiz Benyosef
- Geomagnetic repeat station survey  
By Emmanuel Nahayo
- Magnetic stations for local indices at low and middle latitudes under the SAMA influence  
By Clezio De Nardin

- Proposal for an efficient magnetic calibration  
By André Wiermann and Luiz Benyosef

**During measurements:** (in the VSS campus)

- DI measurements and sun shots  
By Alan Berarducci
- Geomagnetic observatory measurements from scratch  
By Jürgen Matzka

**Demo session:** (in the VSS campus)

- How an accurate automatic magnetic observatory could work.  
By Jean Rasson and Alex Gonsette

**Abstract deadline:**

The deadline for submission of abstracts (up to 2400 characters including spaces) is August 23, 2024. The abstract submission will be electronic through the event homepage: <http://20iagaworkshop.on.br/> (in construction).

**Application for financial support:**

Financial support applications should be made using the event homepage. The deadline for the financial support is July 15, 2024.

**Registration:**

Early registration is encouraged before July 15, 2024: US\$300.

**Venue:**

The **XXth IAGA Workshop** meeting will be held on the grounds of the Vassouras Magnetic Observatory (VSS) and the Bliss Hotel. Vassouras is a quiet city 100 kilometers from Rio.

**Note 1:** The Organizing Committee will provide free transport on the following routes: Rio International airport to the Bliss Hotel in Vassouras and vice versa.

**Note 2:** Also, internal transportation in groups within the city of Vassouras will be offered as a courtesy.

**Note 3:** The opening and closing cocktails of the XXth IAGA Workshop will also be offered as a courtesy.

**Note 4:** Fresh water, coffee, tropical fruits' juice, and biscuits will be provided free of charge on select times, during all days of the XXth IAGA Workshop.

**Note 5:** Meeting is not hybrid.

**For further information, please contact:**

Dr. Luiz Benyosef - Chairman  
Titular Researcher – Geomagnetism Group  
Observatório Nacional - ON  
Rua General José Cristino, 77  
20921-400 Rio de Janeiro - RJ  
Brazil  
Email: [benyosef@on.br](mailto:benyosef@on.br)  
Phone: +55(21)3504.9198      Mobile: +55(21)9.9188.4323

Dr. André Wiermann - Co-Chairman  
Observatório Nacional - ON  
Rua General José Cristino, 77  
20921-400 Rio de Janeiro - RJ  
Brazil  
Email: [andrew@on.br](mailto:andrew@on.br)  
Phone: +55(21)3504.9292      Mobile: +55(21)9.8828.5970

**Organizing Committee:**

Alan Berarducci	Compass Rose Surveying, Inc.	U.S.A.
Alberto Santos	ON: Observatório Nacional	Brazil
André Wiermann	ON	Brazil
Anna Willer	DTU: Technical University of Denmark	Denmark
Clézio De Nardin	INPE: Instituto Nacional de Pesquisas Espaciais	Brazil
Cristiano Mendel	UFPA: Universidade Federal do Pará	Brazil
Esteban Hernandez	UNAM: Universidad Nacional Autonoma de Mexico	Mexico
Gelvam Hartmann	UNICAMP: Universidade Estadual de Campinas	Brazil
Gerardo Cifuentes	UNAM	Mexico
Jean Rasson	RMI: Royal Meteorological Institute	Belgium
Juliano Moro	INPE & China-Brazil Joint Lab. for Space Weather	Brazil
Jürgen Matzka	GFZ: German Research Centre for Geosciences	Germany
Kusumita Arora	NGRI: National Geophysical Research	India
Marcos Vinicius Siqueira da Silva	GFZ	Germany
Luiz Benyosef	ON	Brazil
Roman Leonhardt	GeoSphere	Austria
Seiki Asari	JMA: Japan Meteorological Agency	Japan
Tanja Petersen	GNS Science	New Zealand
Vitor Bernardes	ON	Brazil

## Scientific Committee

Anna Willer	DTU	Denmark	
Chris Turbitt	BGS: British Geological Survey	United Kingdom	
Emmanuel Nahayo	SANSA: South African National Space Agency	South Africa	
Jean Rasson	RMI: Royal Meteorological Institute	Belgium	
Jürgen Matzka	GFZ	Germany	
Kusumita Arora	NGRI	India	
Luiz Benyosef	ON	Brazil	LOC Chair
Seiki Asari	JMA	Japan	V-OBS Chair
Tanja Petersen	GNS Science	New Zealand	

Please bring the content of this first circular to the attention of your colleagues who are interested in participating in this next meeting. Don't miss this opportunity to enhance your expertise and contribute to advancements in geomagnetic research at the **XXth IAGA Workshop**.