



ELKH | Eötvös Loránd
Research Network



International Association of Geomagnetism and Aeronomy

Eötvös Loránd Research Network (ELKH)

Institute of Earth Physics and Space Science (EPSS)

19th IAGA Workshop on Geomagnetic Observatory Instruments, Data
Acquisition and Processing

May 22-26, 2023, Sopron-Tihany, Hungary

<http://iaga-workshop.org/>

2nd circular

Sopron-Tihany, January 26, 2023

The workshop will consist of two parts + a summer school:

- 1) an instrumentation and observation focused first part including the DIM measurement/intercalibration sessions held in Tihany between May 22 (Monday) to May 23 (Tuesday), 2023

and

- 2) a second part is a conference including sessions on new measurement techniques, improved instrumentation, data processing, as well as new science results based on geomagnetic observations. This second part will be held at EPSS in Sopron between May 24 (Wednesday) and 26 (Friday), 2023.

(Transport of participants from Tihany to Sopron will be organized by the host institution.)

A summer school for young technicians and scientists, as well as for new observers will also take place between May 21 (Sun) – 23 (Tue), 2023 at Tihany.

Schedule/deadlines

2022.12.20 publication of the 1st circular
2023.01.26 publication of the 2nd circular
2023.01.26 preliminary program of the Summer School
2023.01.26 application for Summer School opens
2023.01.26 start of registration and abstract submission
2023.03.15 deadline for abstract submission
2023.03.15 deadline for DI session booking
2023.03.15 deadline for Summer School application
2023.04.15 publication of the 3rd circular, final program
2023.05.15 deadline for registration
2023.05.22-26. IAGA Workshop and Summer School

DIM measurement/intercalibration sessions

The DIM (Declination-Inclination Magnetometer) measurement sessions will take place at the Tihany Geophysical Observatory from May 22 (Monday) to 23 (Tuesday), 2023. Parallel DIM sessions on indoor and outside pillars will be organised both in the morning and in the afternoon on both days. Pre-booking of the measurement time slots are required.

Scientific Sessions:

The scientific sessions will be held at EPSS in Sopron from May 24 (Wednesday) to 26 (Friday), 2023. Presentations will be organized in four oral sessions + a poster session.

S1 Updates on geomagnetic observatories and networks (poster or talk)

S2 Observatory instrumentation (poster or talk)

S3 Data processing and distribution (poster or talk)

S4 Data analysis, interpretation and application (poster or talk)

O Open poster session

Abstract submission opens on January 26 and lasts until March 15, 2023.

Site for abstract submission: <http://iaga-workshop.org/>

Upon abstract submission we will ask for your ORCID. In case you do not have an ORCID yet, you can register here: <https://orcid.org/register>

Science Committee

chair: Jürgen Matzka, (GFZ, DE)

Anna Naemi Willer (DTU, DK)

Anne Neska (IGFPAS, PL)

Dr Emmanuel Nahayo (SANSA, ZA)

Istvan Lempenger (EPSS, HU)

Christopher Turbitt (BGS, UK)

Seiki Asari (Kakioka, JP)

Katia Pinheiro (Observatório Nacional, BR)

REGISTRATION

Registration opens on January 26 and lasts until March 15, 2023.

Register by filling out the registration form at <http://iaga-workshop.org/>. Finalize your registration by paying the registration fee.

Registration fee

Attendee	Registration fee
Workshop participant	450 EUR
Companion	300 EUR
Summer School	200 EUR
Exhibitor	450 EUR

Payment of the registration fee should be made by bank transfer.

Bank details will be provided in a pro-forma invoice you will receive within a few days following your registration form is submitted. Please use 'IAGA WORKSHOP + your Surname' as a comment when transferring the registration fee.

Students

Summer School students paying the school fee are eligible to attend the workshop presentations, the exhibition and social events in Sopron.

Summer School students intending to participate in DIM sessions and/or give a presentation at the workshop in Sopron as other workshop participants, pay the workshop participant fee.

Registration fee covers

- ☐ coffee/tea breaks
- ☐ Social event at Tihany
- ☐ Ice breaker event on Wednesday (May 24) evening in Sopron
- ☐ Conference dinner on Thursday (May 25)
- ☐ Transfers from Tihany to Sopron (see details on workshop program)

Application for support

Those who need financial support for their participation should indicate this via the workshop webpage (<http://iaga-workshop.org/>), while the application including a CV (affiliation, education, selected publications and experience in the field as a minimum) and a motivation letter should be sent by email to the address: workshop-support@epss.hu. Please indicate which cost (e.g., contribution to travel cost, accommodation in Sopron, waiver of school fee) you would like to be covered.

Summer school students requesting support should submit their support request along with the application for summer school (see the section on Summer School).

In advance registration for the DI measurement sessions

There will be altogether 24 time slots 90 minute long each available for the DIM observations in the Tihany Geophysical Observatory. Time slots (one per DI instrument) should be booked online, in advance via the workshop web page. Please indicate in the registration form if you intend to participate in the DIM session. Please do not forget to indicate if you intend to bring more instruments.

Due to the limited time slots available, bookings will be handled on a “first come, first served” basis. You will receive a confirmation once your booking is accepted. This will also require that your registration fee is paid.

In case more than 24 bookings are recorded, those beyond the limit will be put on a waiting list.

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EXHIBITION

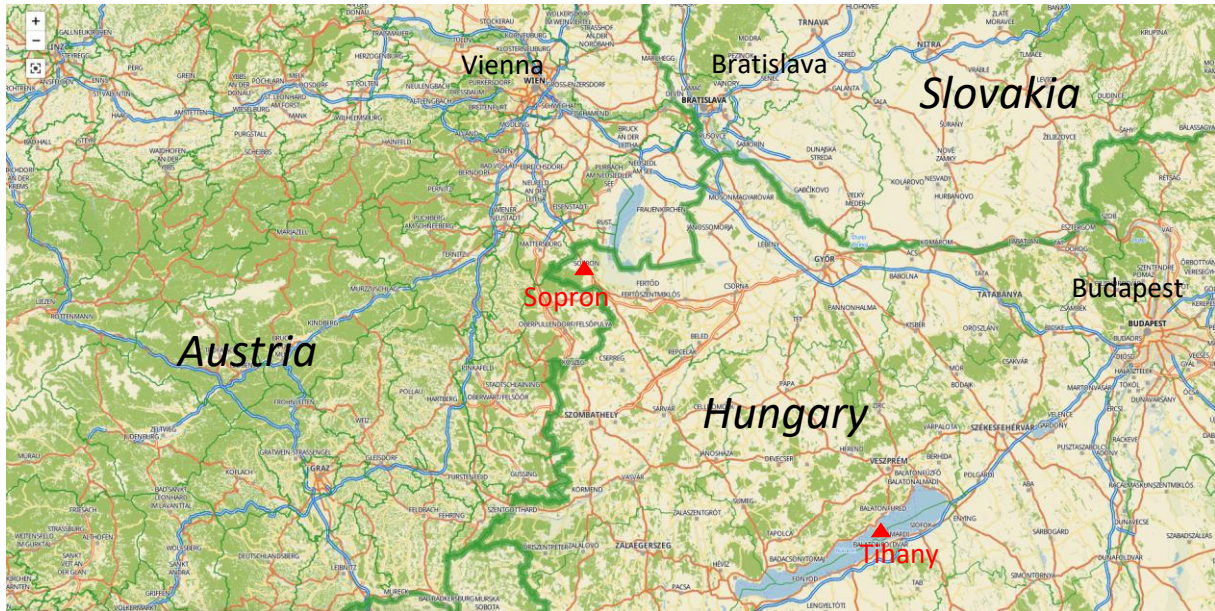
During the scientific session in Sopron there will be an instrument exhibition. Participants can see widely used geomagnetic instruments and the latest developments for observatory and field applications. Exhibitors give explanation on their technical specifications and usage together with installation requirements of the instruments.

Technical support

During the scientific sessions in Sopron Mingeo Ltd. offers free mechanical and optical check on DIM instrument of the participants. If no special tool or material needed, even smaller repairs are carried out immediately.

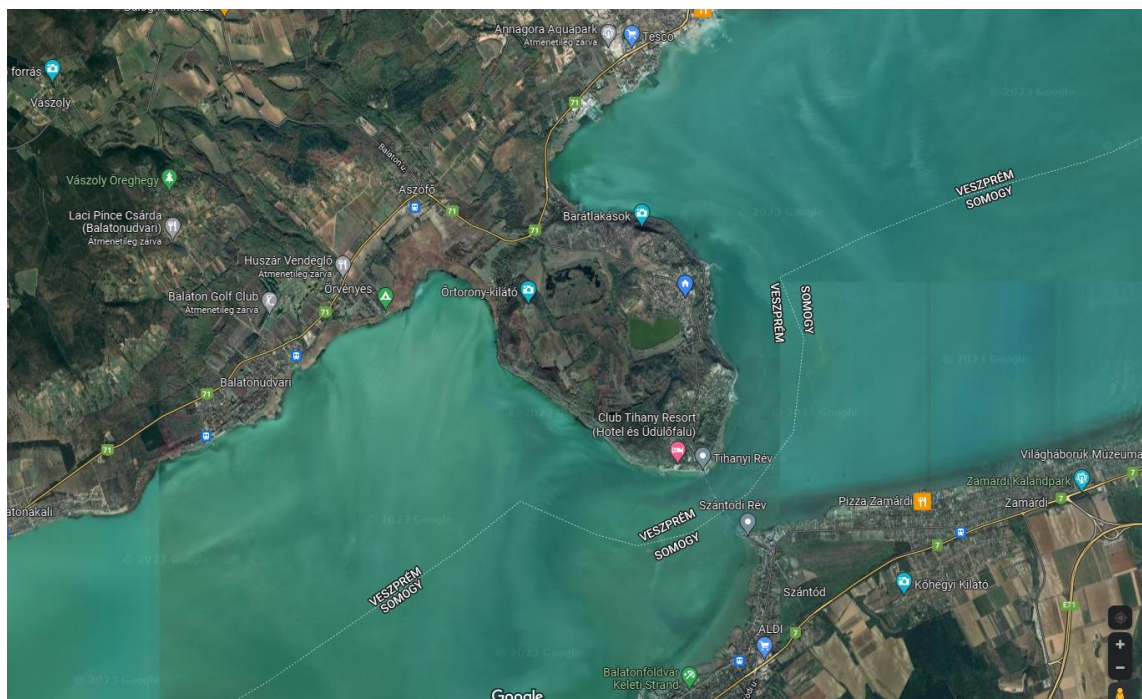
LOCATIONS

The workshop will take place at the Tihany Geophysical Observatory (DIM sessions and Summer School) and at EPSS (conference part) in Sopron.

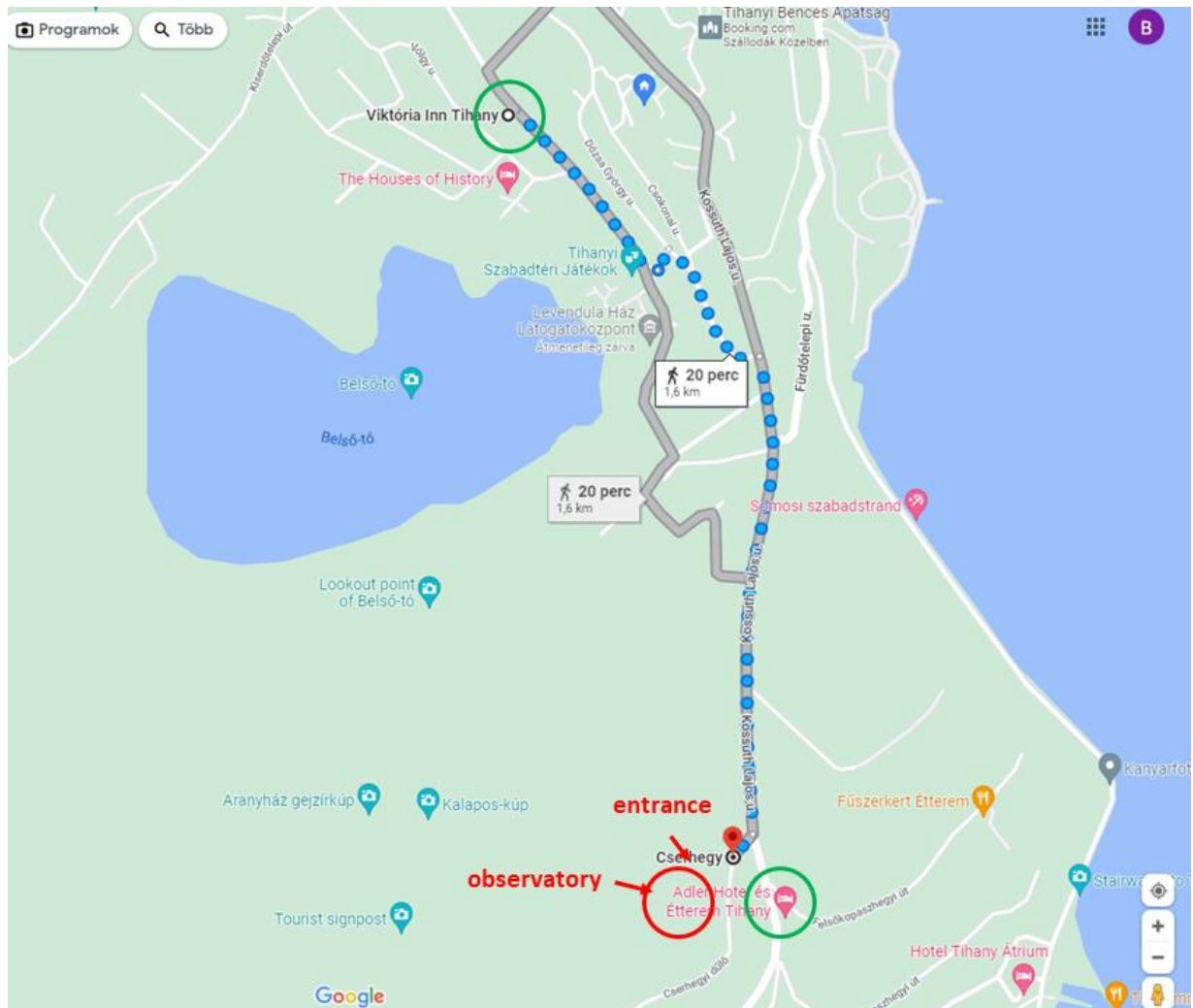


Tihany

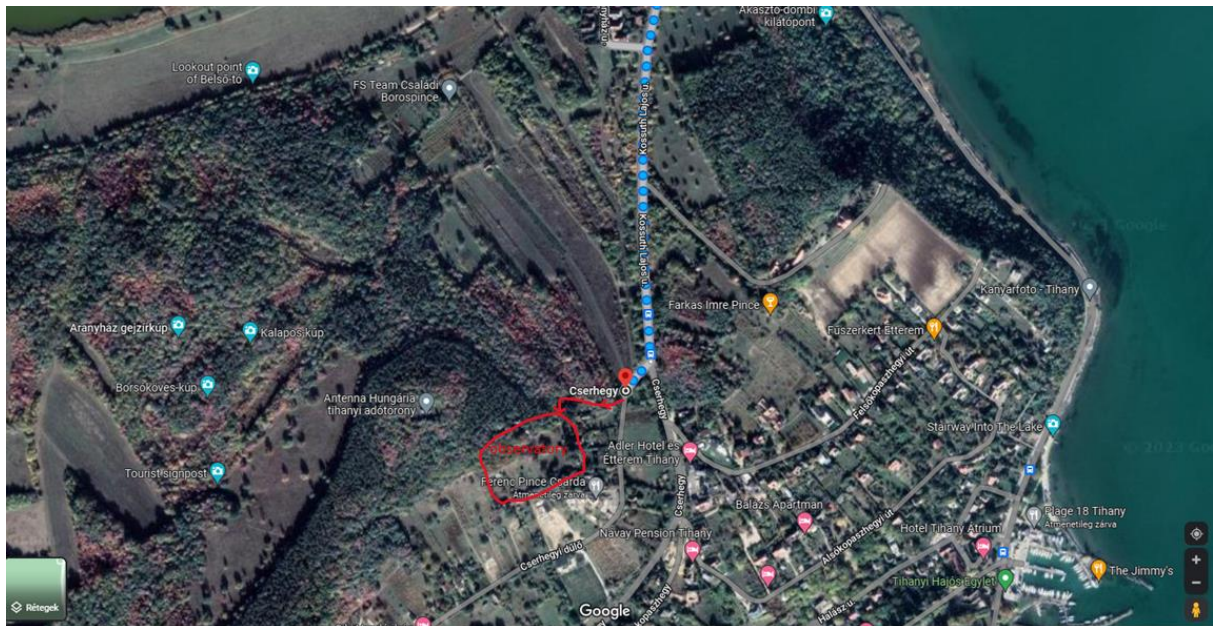
Tihany is located on a peninsula in the lake Balaton. The Tihany Geophysical Observatory (THY) was opened in 1954.



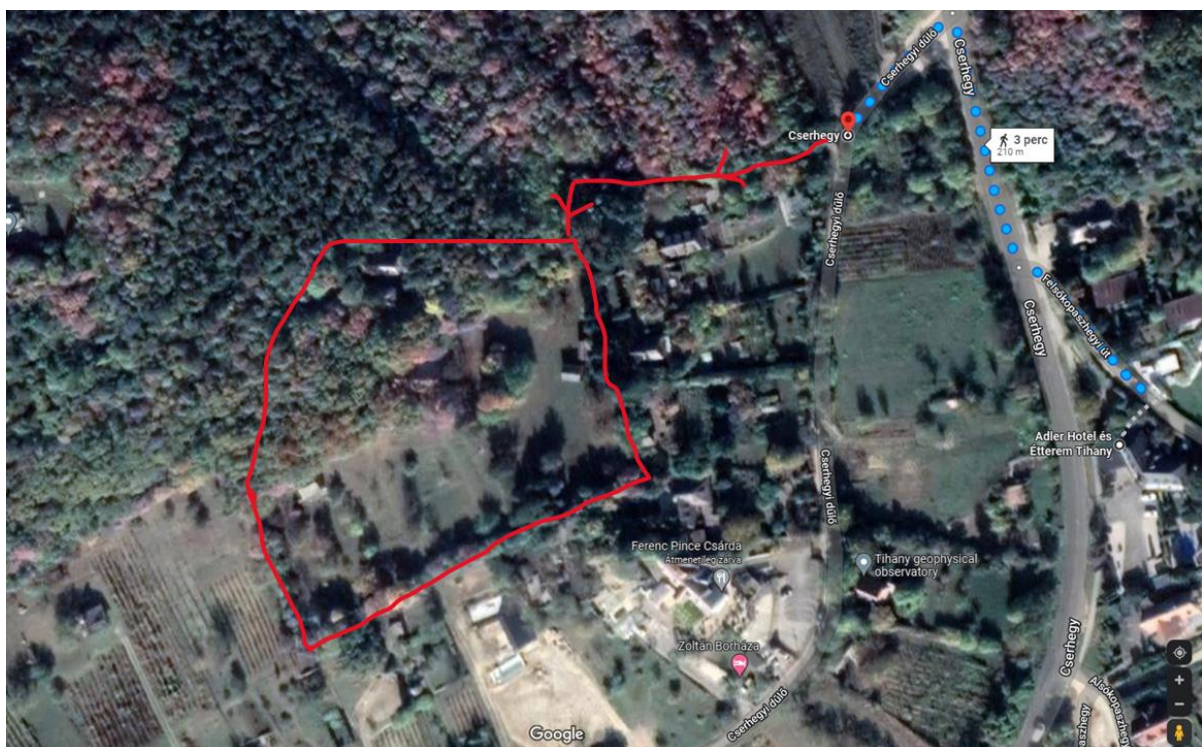
Once in Tihany, you can find the observatory entrance is at 46.90.7 N, 17.8888 E (see the red circle in the map) This is at a 20 min walk from Viktoria Inn (Summer School location) and 3 min from Hotel Adler (both accommodations are circled in green in the map below). Viktoria Inn and Hotel Adler will also be meeting points where we arrange transfers from to the observatory. (Other meeting points may be arranged).



walking path (1.6 km, 25 min) from Viktoria Inn (location of the Summer School) to the observatory (location of the DIM sessions)



Tihany: observatory area and access (blue: walking path from Viktoria Inn)



Tihany: observatory area and access at a closer look. Following the red arrows you arrive at the observatory gate. (blue: walking path from Hotel Adler)

Sopron

Institute of Earth Physics and Space Science (EPSS)
(Földfizikai és Űrtudományi Kutatóintézet)

Address: 9400 Sopron, Csatkai E. u. 6-8.

web: www.epss.hu



EPSS and the train station in Sopron (<https://utcakereso.hu/>)



EPSS main building (Sopron, Csatkai E. u. 6-8). You can enter through this gate.

ACCOMMODATION

Tihany

Hotel Adler

Workshop participants making absolute measurements are advised to book at Hotel Adler that is at 3-minute walk from the observatory.

<http://www.facebook.com/AdlerHotelTihany>

<https://www.adler-tihany.hu>

Book at Hotel Adler using the following email address:

mail@adler-tihany.hu

When booking your room use the subject ‘Tihany workshop’.

Room prices (includes breakfast):

single use: 30 000 HUF

double use: 36 800 HUF

2 two-room apartments (for up to 4 persons) are also available.

Price does not include the local tax that is 595 HUF that should be paid at the hotel in cash.

Please note that due to the ongoing crisis the restaurant will be closed. They serve breakfast only. Restaurants are available in the village.

Návay Pension

Another close-by apartment house is Návay Pension.

Book at Návay Pension using the following email address:

navaypeter@gmail.com

When booking your room use the subject ‘Tihany workshop’.

Room prices (includes breakfast)):

single use: 30 000 HUF

double use: 30 000 HUF

Price does not include the local tax that is 595 HUF that should be paid at the hotel in cash.

Other options

Please note that only a limited number of rooms are available at both Adler and Návay, once they are fully booked, please use 'booking.com' or 'szallas.hu' to find your accommodation. When booking consider the location of the meeting points (either Viktoria Inn if you are staying in the village, or at Hotel Adler, in case you are closer to that. (Further meeting points may be added later.)

Summer School

Students will stay at or near Viktoria Inn. They do not need to book a room as a room will be provided to all students covered by their fee. However, students attending the Sopron part of the meeting should book their room at their own cost.

Sopron

We do not have any special arrangement or recommendation in Sopron. Please use 'booking.com' or 'szallas.hu' to find your accommodation. Please consider the location of the workshop upon booking.

TRAVEL

Arrival by car:

Please use google maps / Waze or similar navigation tool to find your destination.

Tihany

You can park at Hotel Adler or at the foot of the hill where the steep private road leading to the observatory starts (see maps above).

Sopron

There are a limited parking lots available behind the main building of EPSS. You can drive in on the right side of the main building. The gate will be open daily from 8:00-20:00 CET.

Arrival by train:

Online timetables

trains: <https://jegy.mav.hu/> (available in English)

buses: <https://menetrendek.hu/mobile/?lng=en>

Please note that local and long-distance public transportation (bus, train) for EU citizens over 65 years is free. You only need to show up your ID card or passport.

Tihany

The nearest train station is Balatonfüred. There are regular connections from/to Budapest (Budapest-Kelenföld). From Balatonfüred you can reach Tihany by bus, the bus station is right next to the train station. The bus stop at Hotel Adler is called Tihany szőlőhegy, the one in the centre is Tihany posta. The closest to Viktoria Inn (for students) is Tihany forduló.

If you book it in advance, we can provide a car transfer from the station to your accommodation in Tihany. We will provide a google sheet where you can sign up for transfer.

The train ticket price is 2520 HUF (6.5 EUR). The bus from Balatonfüred is 350 HUF (1 EUR).

Sopron

The nearest train station is Sopron. There are regular connections from/to Vienna and Budapest. From Budapest, direct trains to Sopron start at Budapest-Keleti every 2 hours.

Arrival by plane:

Tihany

The nearest airport is 'Liszt Ferenc Airport 2' (BUD). Trains to Balatonfüred (closest station to Tihany) starts from 'Kelenföld vasútállomás'. You can get to the railway station by means of BKK public transport.

Link to the public transport at Budapest:

<https://bkk.hu/en/>

You start at 'Liszt Ferenc Airport 2', your destination is 'Kelenföld vasútállomás'. We recommend a combination of bus 100E to 'Kálvin tér' stop (first stop, 30 min) then subway 'M4' in the direction of 'Kelenföld vasútállomás' (south-west end stop of the metro line). For the rest of your travel see section 'Arrival by train'.

The airport shuttle bus (100E) ticket is 1500 HUF (~ 4 EUR), a single ticket valid for the metro is 350 HUF (~ 1 EUR). Tickets are available from vending machines at the airport. Mobile tickets (valid on cell phones) are also available.

Sopron

The nearest and most convenient airport is Vienna International Airport (VIE).

Train connection for flights in Vienna Airport-Vienna Hbf and Vienna Hbf-Sopron relation can be scheduled on the website <https://www.thetrainline.com>

You can also reach Sopron from the 'Liszt Ferenc Airport 2' (BUD) Budapest. You can get to the railway station by means of BKK public transport.

Link to the public transport at Budapest:

<https://bkk.hu/en/>

You start at 'Liszt Ferenc Airport 2', your destination is 'Keleti pályaudvar'. We recommend a combination of bus 100E to 'Kálvin tér' stop (first stop, 30 min) then subway 'M4' which terminates at 'Keleti pályaudvar' (north-east end of the metro line). For the rest of your travel see section 'Arrival by train'.

The Budapest airport shuttle bus (100E) ticket is 1500 HUF (~ 4 EUR), a single ticket valid for the metro is 350 HUF (~ 1 EUR). Tickets are available from vending machines at the airport. Mobile tickets (valid on cell phones) are also available.

General travel information

Visitors from outside the European Union (EU) should check whether or not a Hungarian visa is required. In most cases, a valid passport is sufficient.

You can check your visa conditions here:

<https://konzinfo.mfa.gov.hu/en/how-apply-visa>

All insurance and visa costs must be covered by the participant.

We provide a Letter on Invitation for visa application purposes only on request. Please send your request to secretariat@epss.hu with 'IAGA WS visa' in the subject.

Hungary is a member of the Schengen Agreement. The Schengen visa represents the collective of European countries that have mutually decided to eliminate passport and immigration controls at their joint borders. Participants from outside these countries and the European Union (EU) but with a valid visa for one of the Schengen countries may move freely into and within any other Schengen country.

Currency

The Hungarian currency is called forint (HUF or Ft). The current exchange rate is around 400 HUF/EUR, 370 HUF/USD, however, significant fluctuations occur frequently. Credit/debit cards (Mastercard, Maestro, VISA)) are accepted in most places both at Tihany and in Sopron.

SUMMER SCHOOL

The summer school will provide in-depth courses on DI measurements, instrumentation and data processing given by experts in the specific fields. The summer school is aimed at young technicians and scientists, as well as new observers. The participation in the Summer School is limited to 15 students.

The IAGA-Workshop 2023 Summer School will take place on May 21st to 23rd 2023 at Tihany, directly before and during the 19th IAGA Workshop on Geomagnetic Observatory Instruments, Data Acquisition and Processing in Tihany and Sopron that will last from May 22 to May 26, 2023.

Accommodation (from May 20 to May 23) and meals will be covered by the school registration fee. On May 23, a transfer to Sopron (180 km) will be provided for all students. Transfer to nearby train station will also be provided in case you do not intend to participate in the rest of the workshop in Sopron.

As a student you are eligible for attending all scientific sessions, the exhibition and the ice-breaker in Sopron, as well as the social event in Tihany like other workshop attendees. However, you have to book your hotel in Sopron at your cost as all the other participants.

Preliminary Program of the Summer School

Sessions:

Course on geomagnetic measurements from scratch

(Jürgen Matzka, GFZ, Germany)

DI measurements and sun shots

(Alan Berarducci, Company Compass Rose, USA)

Observatory Instrumentation

(László Hegymegi, Csaba Hegymegi, Ádám Domján, Mingeo Ltd., Hungary)

Geomagnetic data processing

(Chris Turbitt, BGS, UK)

DI measurement in practice

(Barbara Leichter, ZAMG, Austria, Alan Berarducci, Jürgen Matzka, Ádám Domján, Csaba Hegymegi)

Application for the Summer School

Applicants for the summer school should fulfil one of the following criteria:

a) young technician/scientist (< 32 year old)

and/or

b) new observer/working at a new observatory (started not more than 3 years ago)

If you are interested in attending the summer school, please send us an application not later than March 15, 2023 to the following e-mail address:

summerschool@epss.hu

The application should include your CV with your name; date of birth; affiliation; education; publications; experience in the field as a minimum. You are also asked to send a brief ‘motivation letter’ on why you wish to attend the summer school and why it would be beneficial for you. If you are over 32, please provide evidence that you fulfil the entry criteria.

Application will be evaluated on a “first come, first served” basis. Applications exceeding the 15-person limit will be placed on a waiting list. The acceptance of your application will be communicated via email by the end of March.

Once your application is approved, you should pay the school fee via bank transfer not later than April 15, 2023.

We are looking forward to your application.

If you need financial support

Those who need support for their participation should indicate this when applying for the Summer School (registration). Please indicate which cost (e.g., contribution to travel cost, accommodation in Sopron, waiver of school fee) you would like to be covered.

Local Organizing Committee

chair: Viktor Wesztergom, director of EPSS (host)

vice-chair: István Lemperger (EPSS, Sopron, HU)

vice-chair: Balázs Heilig (EPSS, Tihany, HU)

András Csontos (EPSS, Tihany, HU)

Rubóczki Tibor (EPSS, Sopron, HU)

Barbara Leichter (ZAMG, Wien, AT)

Roman Leonhardt (ZAMG, Conrad Observatory, AT)

László Hegymegi (Mingeo, HU)

Contact info:

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