

Dear participants of the 3rd European Physics Olympiad,

We are only a few weeks away from the beginning of our event. This circular will give you all the essential information about our provided hospitality and services during your stay in Riga. Additionally, we provide the instructions for team leaders and observers on how to prepare for the problem translation. The detailed event programme is provided at the end of the document.

General Travel Information

The climate of Riga has been described as humid continental. During the days of the Olympiad we can expect warm and sunny days with temperatures reaching 25 °C and cool nights with temperature dropping as low as 5 °C. Rains are common, however May-June are statistically the driest months of the year with around 12 rainy days per month.

Latvia is a member of the European Union and is subject to the [same standards](#) as other EU member states: tap water is safe for drinking, power outlets are 230 V at 50 Hz and subject to [CEE 7/3](#) standard, seat belts must be worn in all vehicles, and emergency call number is 112.

Latvia has adopted the euro (€) as our common currency and sole legal tender. Currency exchange is widely available and virtually all businesses accept card payments.

Arriving in Riga

Each country has an assigned volunteer attaché. Upon your arrival at the Riga International Airport (or elsewhere according to the data you submitted), your team will be greeted by the attaché holding a sign that contains the name of your country and the letters “EuPhO 2019”.

Attaché will transport your team to the hotels, will help to check in, and will serve as a guide throughout the days of the Olympiad. Volunteers will be the initial point of contact with the organizers.

Teams that will be arriving just before the opening ceremony will be transported directly to the venue of the ceremony where temporary baggage storage will be provided for your convenience.

Hospitality

During the days of the EuPhO (May 31st – June 4th) we will provide the following hospitality: Catering with three meals a day, transportation from and to airport or bus terminal, bus transfers between hotels and EuPhO events (see programme). We will also provide original, signed copies of the invoices upon request. Medical staff will be available during the events of the Olympiad.

Problem Translation

The official language of EuPhO is English; if needed, the team leader translates the problems into the native language of his/her team members, and acts as a translator during moderations.

Problem text translation will take place early morning before the examination. **EuPhO organizers will not be providing laptops for team leaders and observers to perform the translations.** We kindly ask to bring your own laptop with a functioning Wi-Fi connectivity.

The translations will take place on [Overleaf](#): a cloud-based [LaTeX](#) typesetting platform. The final PDF files will be submitted through an online form. The procedure during the translations will be the following:

- **Accessing file for translation.** During the translation you will be provided with a link to the problem text package in a form of a ZIP file. ([Example ZIP](#))
- **Translating in *Overleaf*.** Sign up and log in to your *Overleaf* account. Select *New Project* and upload the ZIP file provided to you. Translate the text and download a PDF after recompiling the document with *XeLaTeX* (change the compiler under *Menu* → *Settings* → *Compiler*).
- **Preparing several problem PDFs.** Make sure to include the full student badge number in the space provided. This means you need to download up to 5 separate PDF files – one for each of your students with their unique badge number. Printout with student names and respective badge numbers will be available in the room where translation will take place.
- **Submitting translated problems.** You will also be provided with a link to a form for submitting the translated files. You should upload all PDF files at once through the form. You will also be asked to enter the three-letter code of your country (will match the beginning of your badge number). ([Example Form](#))

We strongly encourage all team leaders and observers to use the provided examples above and to test the procedure before the EuPhO begins. If you have any questions or feedback, please do not hesitate to contact us through eupho2019@lu.lv.

Competition Rules

EuPhO organizers will not be providing any calculators for the exams. Students have the responsibility to bring their own. Only a non-programmable and non-graphical scientific calculator is allowed.

To discourage any possible information exchange between team leaders and students during the problem translation stage, student cell phones will be collected by the volunteer attachés. Collection will take place during the evening before the examinations. Phones will be returned right after student exits the examination room.

Flag Policy

We encourage participants to display national flags throughout the event, including the opening and the awards ceremony. However, we discourage excessively big flags that can obstruct other participants. Therefore, we limit the flags to one per person and not exceed size of 50 cm in any dimension.

Scientific Lectures on June 1st

We are proud to announce the public lectures that will be given on June 1st for the participants of the Olympiad as well as local physics enthusiasts and high-school students. We are especially excited to announce that European Organization for Nuclear Research (CERN) has decided to be a sponsor of EuPhO'19 by inviting the distinguished theoretical physicist [Prof. John Ellis](#) to this event. Full list of lectures is listed below:

- **Dr. Leo Selavo.** *Professional and personal challenges with our world under the "macroscope": Implications of the wireless sensor networks and Internet of Things.*
- **Prof. Marcis Auzinsh.** *Enjoying physics until the age of 100: Challenges to understand quantum phenomena.*
- **Prof. John Ellis.** *What are we? Where do we come from? Where are we going?: Fundamental questions about the Universe asked by particle physicists at CERN.*

Up-to-date information about the Olympiad and venues can be found by visiting eupho2019.lv and following our page on Facebook – fb.com/eurpho and Instagram – instagram.com/eupholympiad. We hope to see you all in Riga soon!

Sincerely,

Prof. Jaan Kalda
Tallinn University of Technology
The president of EuPhO



Prof. Vyacheslavs Kashcheyevs
University of Latvia
Local coordinator of EuPhO'19



Students' Program

| | Time | Event | Location |
|----------------------|---------------|------------------------------------|---|
| May 31 st | 17:00 – 17:30 | Bus Transfer | Hotels → UL HS* |
| | 17:30 – 19:00 | Registration | UL HS, Foyer |
| | 19:00 – 20:30 | Opening Ceremony | UL HS, Room 101 |
| | 20:30 – 22:00 | Welcome Snacks | UL HS, Foyer and Diner <i>(subject to change)</i> |
| | 22:00 – 22:30 | Bus Transfer | UL HS → Hotels |
| June 1 st | 07:00 – 08:00 | Breakfast | Hotels |
| | 08:00 – 08:30 | Bus Transfer | Hotels → UL HS |
| | 09:00 – 14:00 | Experimental Examination | UL HS, Rooms 102-105 and 203-207 |
| | 14:00 – 15:30 | Lunch | UL HS, Foyer and Diner <i>(subject to change)</i> |
| | 15:30 – 16:30 | Explanation of the Exp. Problem | UL HS, Room 101 |
| | 16:30 – 17:00 | Scientific Exposition | UL House of Nature, Foyer |
| | 17:00 – 19:00 | Scientific Lectures | UL House of Nature, Hall Magnum |
| | 20:30 – 21:30 | Dinner | UL HS, Foyer and Diner <i>(subject to change)</i> |
| 21:30 – 22:00 | Bus Transfer | UL HS → Hotels | |
| June 2 nd | 07:00 – 08:00 | Breakfast | Hotels |
| | 08:00 – 08:30 | Bus Transfer | Hotels → UL HS |
| | 09:00 – 14:00 | Theoretical Examination | UL HS, Rooms 102-105 and 203-207 |
| | 14:00 – 15:30 | Lunch, Receive Dinner Take-Away | UL HS, Foyer and Diner <i>(subject to change)</i> |
| | 15:30 – 22:00 | Excursion to Sigulda | Ends with Drop-offs at the Hotels |
| June 3 rd | 07:00 – 08:00 | Breakfast | Hotels |
| | 08:00 – 08:30 | Bus Transfer | Hotels → UL HS |
| | 09:00 – 12:00 | Preparations for Moderation | UL HS, Rooms 102-105 |
| | 12:00 – 13:30 | Lunch | UL HS, Foyer and Diner <i>(subject to change)</i> |
| | 13:30 – 18:00 | Moderation | UL HS, Rooms 203-207 |
| | 18:00 – 18:30 | Bus Transfer | UL HS → UL Botanical Garden |
| | 18:30 – 23:00 | Farewell Party | UL Botanical Garden |
| | 23:00 – 23:30 | Bus Transfer | UL Botanical Garden → Hotels |
| June 4 th | 08:00 – 09:00 | Breakfast | Hotels |
| | 09:00 – 09:30 | Bus Transfer | Hotels → UL Main Building |
| | 10:00 – 13:00 | Awards Ceremony | UL Main Building, Aula Magna |
| | 09:00 – 12:00 | Snacks and Drinks | UL Main Building Cafeteria |
| | 14:30 – 15:00 | Bus Transfer | UL Main Building → Riga Airport |
| | 16:30 – 17:00 | Bus Transfer | UL Main Building → Riga Airport |
| | 18:30 – 19:00 | Bus Transfer | UL Main Building → Riga Airport |

* – University of Latvia "House of Science", Jelgavas Street 3, Riga

Leaders' and Observers' Program

| | Time | Event | Location |
|----------------------|---------------|------------------------------------|---|
| May 31 st | 17:00 – 17:30 | Bus Transfer | Hotel Bellevue → UL HS* |
| | 17:30 – 19:00 | Registration | UL HS, Foyer |
| | 19:00 – 20:30 | Opening Ceremony | UL HS, Room 101 |
| | 20:30 – 22:00 | Welcome Snacks | UL HS, Foyer and Diner <i>(subject to change)</i> |
| | 22:00 – 22:30 | Bus Transfer | UL HS → Hotel Bellevue |
| June 1 st | 05:30 – 08:00 | Exp. Problem Translation | Hotel Bellevue, Hall "Berlin" |
| | 08:00 – 09:00 | Breakfast | Hotel Bellevue, Park Restaurant |
| | 09:00 – 12:00 | Meeting with Academic Comm.** | Hotel Bellevue, Hall "Berlin" |
| | 13:30 – 14:00 | Bus Transfer | Hotel Bellevue → UL HS |
| | 14:00 – 15:30 | Lunch | UL HS, Foyer and Diner <i>(subject to change)</i> |
| | 15:30 – 16:30 | Explanation of the Exp. Problem | UL HS, Room 101 |
| | 16:30 – 17:00 | Scientific Exposition | UL House of Nature, Foyer |
| | 17:00 – 19:00 | Scientific Lectures | UL House of Nature, Hall Magnum |
| | 20:30 – 21:30 | Dinner | UL HS, Foyer and Diner <i>(subject to change)</i> |
| 21:30 – 22:00 | Bus Transfer | UL HS → Hotel Bellevue | |
| June 2 nd | 05:30 – 08:00 | Th. Problem Translation | Hotel Bellevue, Hall "Berlin" |
| | 08:00 – 09:00 | Breakfast | Hotel Bellevue, Park Restaurant |
| | 09:30 – 10:00 | Bus Transfer | Hotel Bellevue → UL House of Nature |
| | 10:00 – 14:00 | Excursion to Research Labs | Starts at: UL House of Nature, Foyer |
| | 14:00 – 15:30 | Lunch, Receive Dinner Take-Away | UL HS, Foyer and Diner <i>(subject to change)</i> |
| | 15:30 – 22:00 | Excursion to Sigulda | Ends with a Drop-off at the Hotel |
| June 3 rd | 07:00 – 08:00 | Breakfast | Hotel Bellevue, Park Restaurant |
| | 08:00 – 08:30 | Bus Transfer | Hotel Bellevue → UL HS |
| | 09:00 – 12:00 | Preparations for Moderation | UL HS, Rooms 102-105 |
| | 12:00 – 13:30 | Lunch | UL HS, Foyer and Diner <i>(subject to change)</i> |
| | 13:30 – 18:00 | Moderation | UL HS, Rooms 203-207 |
| | 18:00 – 18:30 | Bus Transfer | UL HS → Hotel Bellevue |
| | 19:45 – 20:00 | Walk to Restaurant Kliversala | Hotel Bellevue → National Library |
| | 20:00 – 23:00 | Gala Dinner | Restaurant Kliversala, National Library |
| June 4 th | 08:00 – 09:00 | Breakfast | Hotel Bellevue, Park Restaurant |
| | 09:00 – 09:30 | Bus Transfer | Hotel Bellevue → UL Main Building |
| | 10:00 – 13:00 | Awards Ceremony | UL Main Building, Aula Magna |
| | 09:00 – 12:00 | Snacks and Drinks | UL Main Building Cafeteria |
| | 14:30 – 15:00 | Bus Transfer | UL Main Building → Riga Airport |
| | 16:30 – 17:00 | Bus Transfer | UL Main Building → Riga Airport |
| | 18:30 – 19:00 | Bus Transfer | UL Main Building → Riga Airport |

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** – Meeting for European Teams only; Free time for team leaders and observers from EuPhO guest countries