



Eastern Europe Conference on Timber Constructions

PROGRAM

1st EASTERN EUROPE CONFERENCE on TIMBER CONSTRUCTIONS

7 - 8 June 2018



Photo source: www.archdaily.com



Photo source: Fast+Epp



Photo source: <https://architecturebest.com>

ORGANIZER

Assistant Professor, Dr. Andrii Bidakov

Department of Building Constructions
O.M. Beketov National University of Urban Economy in Kharkiv

Email: bidakov@kname.edu.ua



Dear participants and guests of EECTC!

Our educational institution “O.M. Beketov National University of Urban Economy in Kharkiv” holds 1st Eastern Europe Conference on Timber Constructions. We are happy to host such an event at our university. Scientific seminars and conferences are important events for each university, especially international conferences. Our university highly appreciates scientific cooperation and is always open to new friendships between our research workers and students. The new versions of Ukraine's standards for the design of building structures, including timber structures, are the analogous to the Eurocodes, so the reports of European colleagues are of great interest to us. We will be glad to see all the participants and guests of the conference.

Rector of university, V. Babayev



Dear colleagues!

Timber structures every year are increasingly used in the construction of new buildings and structures. In the past 10 years, Timber structures have been used in multi-storey residential and office buildings. The appearance of such new timber-based materials as Cross Laminated Timber (CLT) and Laminated Veneer Lumber (LVL) are open new opportunities for designers and architects. Also there is a constant development and improvement of joints of timber structures, thus new kinds of connections are being developed thanks to new modern technologies. All the changes and development of timber structures are reflected in the normative documents and standards of each country.

As a rule European and world conferences are held as a rule without of Eastern European (Ukraine and Belarus) specialists due to a number of reasons, including the language barrier, different terminology and material costs. Exchange of experience and the dialogue of specialists is necessary, in the connection the format of this conference was created as a platform for communication. The ways of development of timber structures in the countries of Western Europe (EU) and the countries of Eastern Europe are somewhat different. Today, the standards for the design of timber structures in Ukraine and Belarus contain many recommendations are transferred from Eurocode-5, which allows us to have general discussion questions and topics, especially the planned changes in the new version of Eurocode 5: 2022 is also very interesting issue. Simultaneous translation of participants' reports during presentations is provided for a comfortable and successful passage of the conference

Welcome to the first Eastern Europe Conference on Timber Constructions!

Yours faithfully, the chair of EECTC Andrii Bidakov



LIST OF SPEAKERS



Hans Joachim Blass

Karlsruher
Institut für
Technologie (KIT)



Germany



Robert Jockwer

ETH Zürich,
Institute of Structural
Engineering



Switzerland



Jose M. Cabrero

University of
Navarra
(Pamplona)



Spain



Tomas Ehrhart

ETH Zürich,
Institute of Structural
Engineering



Switzerland



Eero Tuhkanen

Tallinn University of
Technology



Estonia

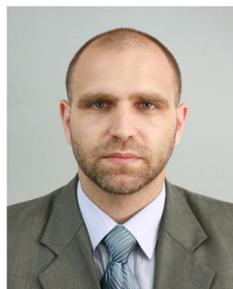


Andrii Bidakov

O.M.Beketov National
University of Urban
Economy in Kharkiv



Ukraine



Denis Mikhailovsky

Kyiv National
University of
Construction and
Architecture



Ukraine



Dmitriy Kochkarev

National University of
Water and
Environmental
Engineering



Ukraine

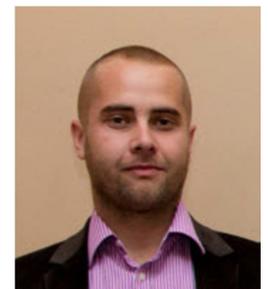


Sviatoslav Gomon

National University of
Water and
Environmental
Engineering



Ukraine



Ievgenii Raspopov

O.M.Beketov National
University of Urban
Economy in Kharkiv



Ukraine



LIST OF SPEAKERS



Sviatoslav Gomon

National University of
Water and
Environmental
Engineering



Ukraine



Dmitrii Matyushenko

Kyiv National
University of
Construction and
Architecture



Ukraine



Andrii Pavluk

National University of
Water and
Environmental
Engineering



Ukraine

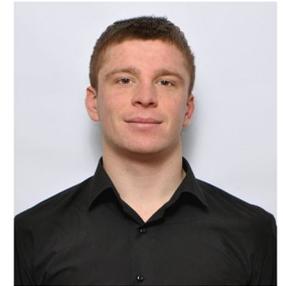


Flavio Nebiolo

Company
Rothoblaas



Italy



Andrii Mavdiuk

Kyiv National
University of
Construction and
Architecture



Ukraine



Andrejs Beilins

Company
Rothoblaas



Latvia



PROGRAM

Thursday, 7th June

- 8³⁰ – 9³⁰ Registration at central hall (see map)**
- 9³⁰ – 10⁰⁰ Opening. Welcoming speech of Rector of University (V. Babayev) and representative of Kharkiv City Administration. Conference overview (A. Bidakov)**
- 10⁰⁰ – 10³⁰ Beech glulam – experimental studies on the mechanical properties and on the performance of screws connections (R. Jockwer, T. Ehrhart)**
- 10³⁰ – 11⁰⁰ Analysis of the innovative X-RAD connection system for CLT buildings (F.Nebiolo)**
- 11⁰⁰ – 11³⁰ Coffee Break**
- 11³⁰ – 12¹⁵ Screwed connections and reinforcements for engineered timber structures (H.J. Blass)**
- 12¹⁵ – 12⁴⁰ Withdrawal resistance of glued-in steel rods by pull-pull tests in CLT (A. Bidakov, I.Raspopov, B. Strashko)**
- 12⁴⁰ – 13⁰⁰ Rothoblaas – solutions for building technology (A. Beilins)**
- 13⁰⁰ – 14⁰⁰ Lunch + Common Photo (13⁵⁰)**
- 14⁰⁰ – 14³⁰ Timber Construction in Spain (J.M. Cabrero)**
- 14³⁰ – 15⁰⁰ Basics calculation of bending elements of wood after the action of repeated loads on the criterion of deformation destruction (S. Gomon)**
- 15⁰⁰ – 15³⁰ Popularization of timber structures in Estonia (E. Tuhkanen)**
- 15³⁰ – 16⁰⁰ Coffee Break**
- 16⁰⁰ – 16³⁰ Timber-concrete composite constructions: state-of-the-art and perspectives in Ukraine (D. Kochkarev, B. Strashko)**
- 16³⁰ – 17⁰⁰ Some aspects of designing gluelam large-span arches (T. Babich, D. Mikhailovsky)**
- 17⁰⁰ – 17³⁰ Semi-rigid Joints of LVL elements with glued-in steel rods and metal connector (A. Bidakov, I.Raspopov)**
- 17³⁰ – 18⁰⁰ Closure**
- 19⁰⁰ – Common dinner at restaurant “Loza Strekoza” (see map)**



PROGRAM

Friday, 8th June

- 9⁰⁰ – 9³⁰ Opening and conference overview
- 9³⁰ – 10⁰⁰ **Rolling shear in cross-laminated timber (CLT)**
(T. Ehrhart, R. Brandner)
- 10⁰⁰ – 10³⁰ **Installation of tension in the beams of glued wood for slanting bend at different stages of work using the deformation model** (A. Pavluk, S. Gomon)
- 10³⁰ – 11⁰⁰ **Experimental and statistical investigations of slim module of deformation of glued wood modified by silor** (S. Gomon, S. Gomon, M. Polishyuk)
- 11⁰⁰ – 11³⁰ *Coffee pause*
- 11³⁰ – 12⁰⁰ **Analysis of the stress-strain state of glulam beams reinforced with ordinary, fiberglass and basalt bars** (D. Mikhailovsky, A. Mavdyuk)
- 12⁰⁰ – 12³⁰ **Modern engineering technique for calculating moment joints of frames**
(D. Matyushchenko, D. Mikhailovsky)
- 12³⁰ – 13³⁰ *Lunch*
- 13³⁰ – **Excursion** (University tour)

Moderator A. Bidakov



CONFERENCE VENUE

The Eastern Europe Conference of Timber Constructions will be held in O.M.Beketov National University of Urban Economy in Kharkiv.

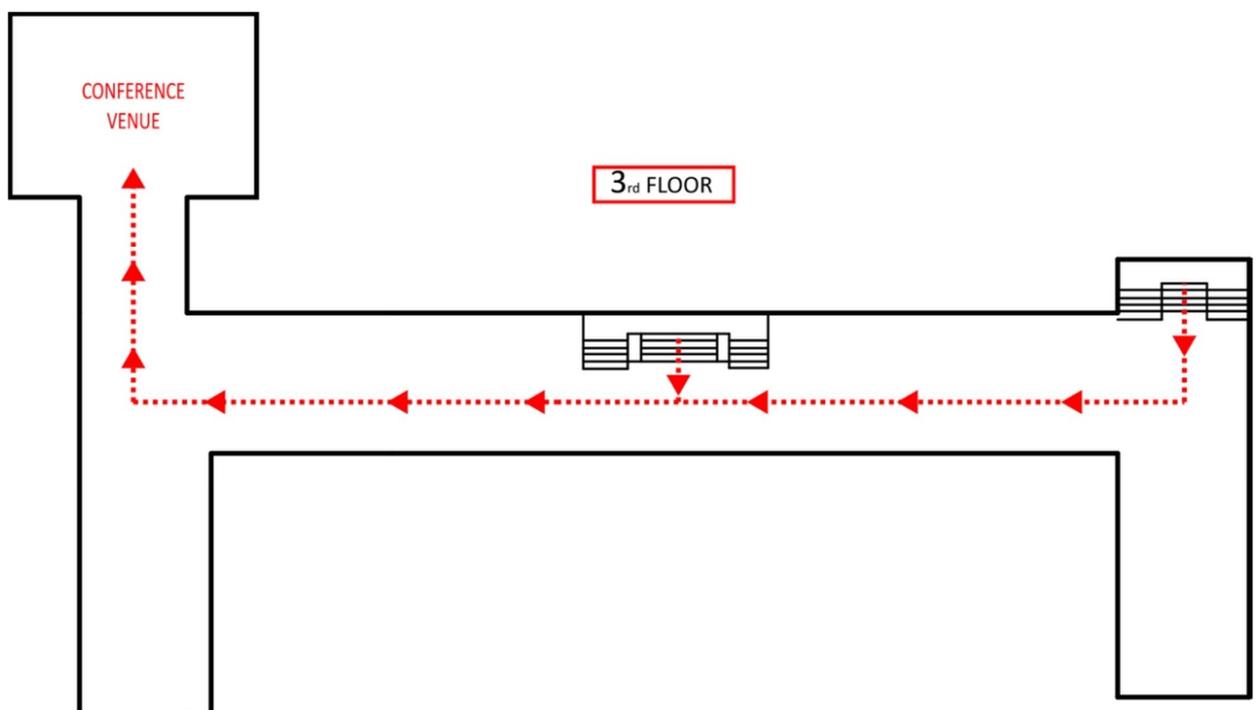
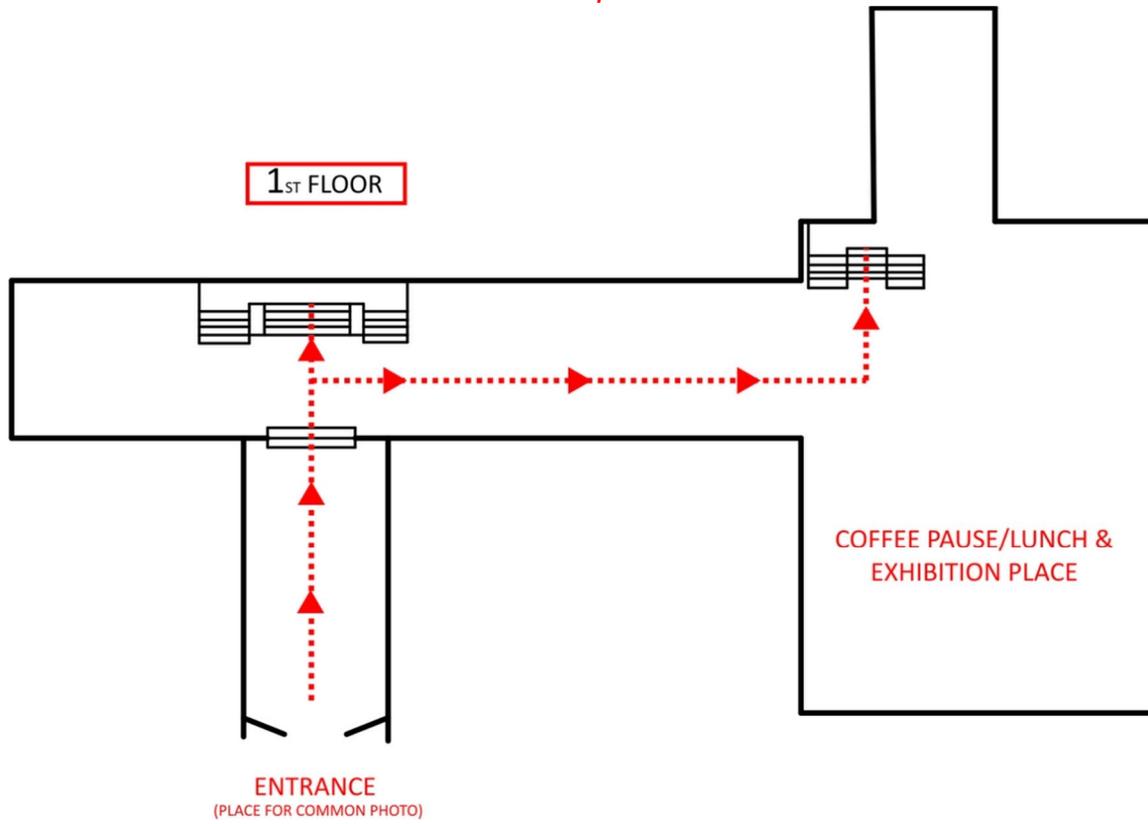
O. M. Beketov National University of Urban Economy in Kharkiv is a modern higher education establishment with the highest accreditation level available in Ukraine, where nearly 12000 students are being trained and more than 500 among them are foreign citizens, having arrived from over than 42 countries of the world. University is a large scientific centre in the field of municipal economy. The creative activities of scientific team is aimed at the search of modern techniques of design, construction and renovation, efficient structures and materials, optimization of municipal enterprises functioning, environmental protection, water purification and sewage disposal, resolving issues of city transport development.

website: <http://en.kname.edu.ua/>
 address: 17, Marshal Bazhanov Street,
 Kharkiv, 61002, Ukraine
 phone: +38 057 706 15 48,
 +38 057 707 33 34



CONFERENCE VENUE

Map



TRAVEL TO/FROM KHARKIV

To travel to Kharkiv, you can fly to Kharkiv Airoport. But there are no direct flights from Europe. So you will have to change a plane. If you will fly to the main Kyiv Airoport (Boryspil Airoport), it will be the most convenient way. Every day, three times a day you can fly from Kyiv to Kharkiv. Since 2005, travel visa has not been required for US and Western Europe residents.



TRAVEL AROUND THE CITY

The best and the fastest way from Kharkiv Airoport to the city center Kharkiv would be to take a taxi. You will reach the city center within 20 minutes. The fixed price is approx. 6 €.

Local transport in Kharkiv:

- underground (metro),
- bus,
- taxi.

The most comfortable local transport is taxi, because of its low price and fast transportation. Also you can reach the conference venue by foot. It will take from 15 to 20 min depending on distance from the selected hotel.

KHARKIV, UKRAIN



1



2



3

currency: Ukrainian Hryvnia (UAH), 1EUR=31,77 UAH

time zone: UTC +02.00

Kharkiv is the second largest city of Ukraine, the largest industrial, scientific, cultural and commercial centre. It is located in the north-eastern part of the country. It was founded in 1654. The territory is about 350 sq. km, the population is 1,45 million people. There are a lot of places of interest: Kharkiv Historical Museum (5), Kharkiv Art Museum, Derzhprom (1) - State Industry Building or the Palace of Industry, the Annunciation Cathedral (2), Freedom Square (3) - the biggest square in Europe, Kharkiv National Academic Opera and Ballet Theater named after N.V. Lysenko, Gorky Park (4), etc. Kharkiv is one of the major centers of education and science not just during the former USSR but today as well. The city of Kharkiv is home to a number of good technical universities; some even refer to the city as the Silicon Valley of Eastern Europe. It is home to about 20 universities and 10 private ones with a combined enrollment of over 100,000 students.



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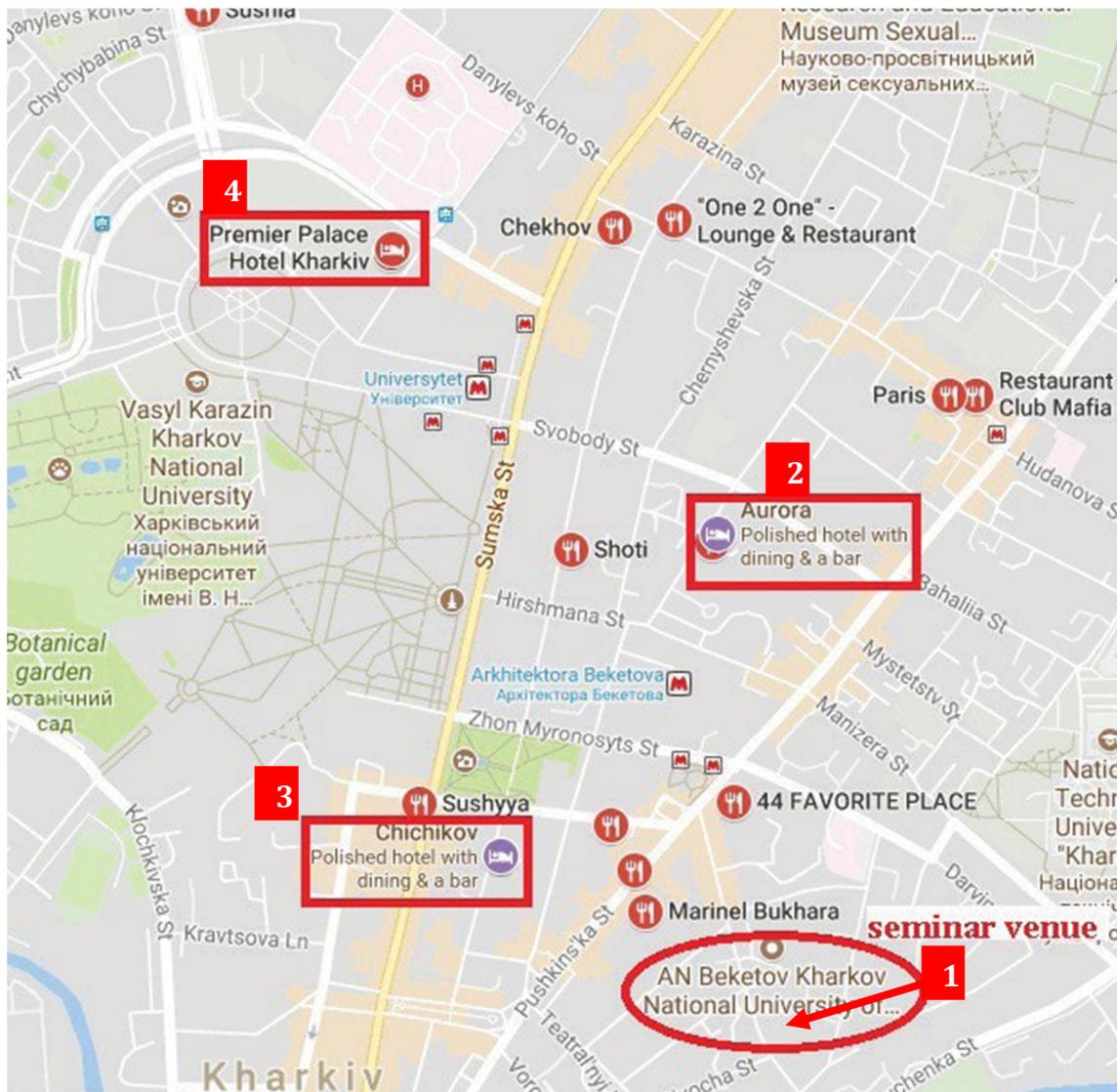


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HOTELS

	Hotels	stars	single rooms start from	double rooms start from	walk distance to the seminar venue
1.	University's hotel "Osvita"	☆☆☆	10€	15 €	7 min (on the back side of university)
2.	Hotel Aurora	☆☆☆☆	41€	48€	15 min
3.	Chichikov Hotel	☆☆☆☆	44€	51€	10 min
4.	Premier Palace Hotel Kharkiv	☆☆☆☆☆	77€	84€	25 min



HOTELS

1. University's hotel ☆☆☆

website: <http://ntc.kname.edu.ua>
 address: Revolutsii Str., 18
 e-mail: utsentr@bk.ru
 phone: +38 (057) 707 33 48
 +38 (057) 707 33 51



2. Hotel Aurora ☆☆☆☆

website: <https://aurora-hotel.phnr.com/en>
 address: 10/12, Alchevskiyh Str.
 (previously called Artema Str.)
 e-mail: reservation@hotel-aurora.com.ua
 phone: +38 (057) 752 40 40
 viber: +38 (067) 826 26 62
 directions: Kharkiv Airport - 14.5 km (25 min by taxi)
 Railway Station - 4.6 km (9 min by taxi)



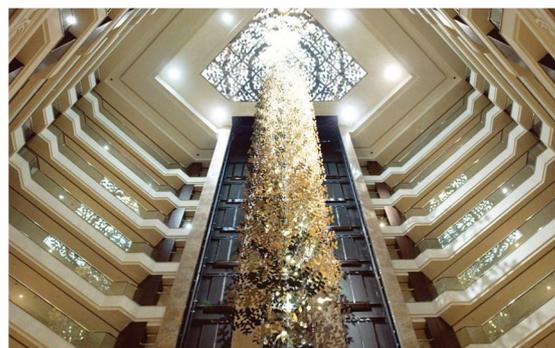
3. Chichikov Hotel ☆☆☆☆

website: www.chichikov-hotel.com.ua
 address: 6/8 Gogola St.
 e-mail: info@chichikov-hotel.com.ua
 phone: +38 057 752-23-00
 +38 057 752-23-23
 directions: Kharkiv Airport - 11 km
 Railway Station - 3,5 km



4. Premier Palace Hotel Kharkiv ☆☆☆☆☆

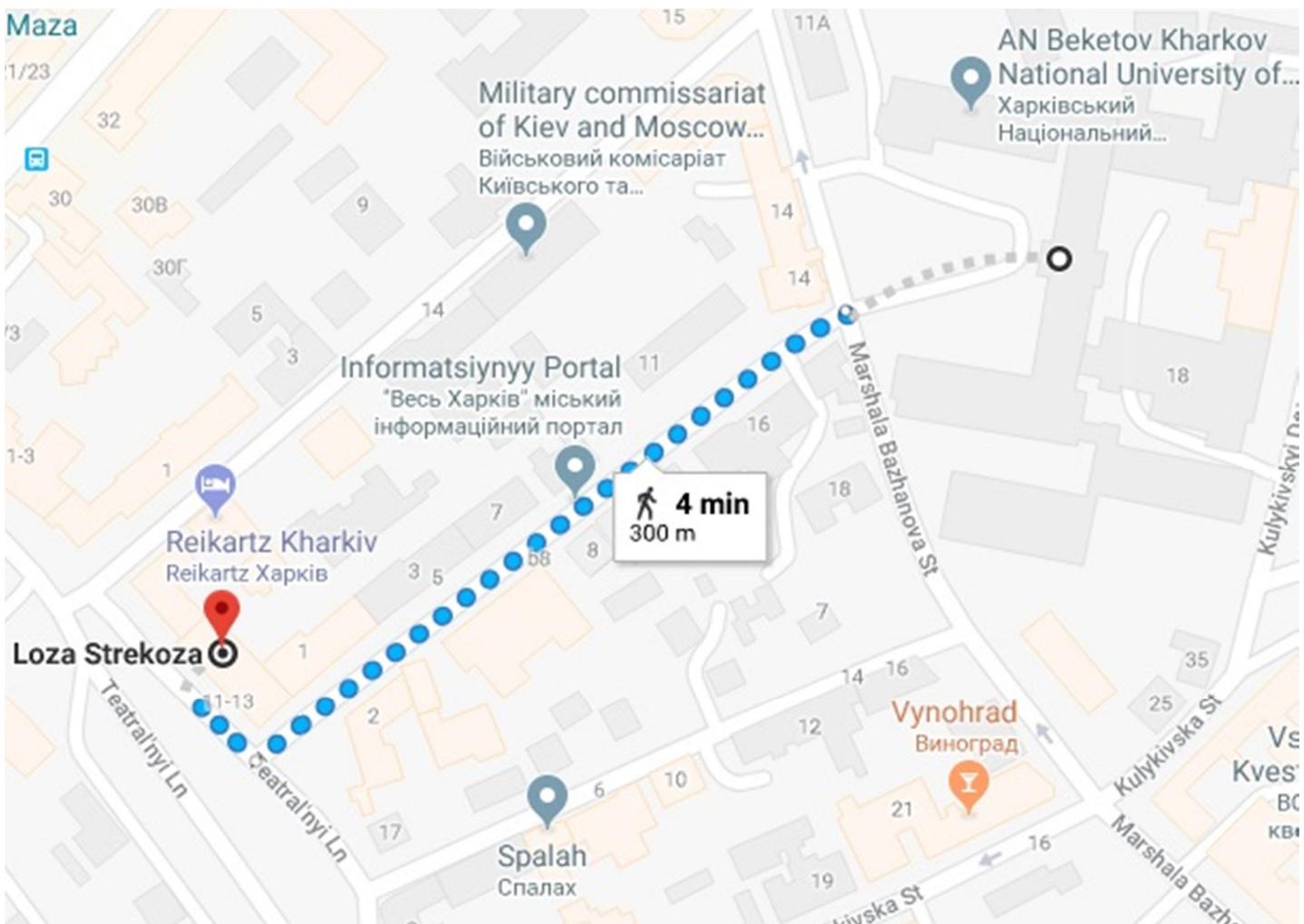
website: <https://kharkiv-palace.phnr.com/en>
 address: 2 Nezalezhnosti Avenue
 e-mail: info@kharkiv-palace.com
 phone: +38 (057) 766 44 00
 directions: Kharkiv International Airport - 9.5 km
 Kharkiv Railway Station - 3 km



ROUTE TO THE RESTAURANT

(evening of the 7th June)

The evening event of the 1st Eastern Europe Conference on Timber Engineering will be held in the restaurant “Loza Strekoza” (see map). Route from conference venue to the restaurant will take you approximately 4 minutes.



HOST ORGANISATION



O. M. Beketov National University
of Urban Economy in Kharkiv



Ministry of Education
and Science of Ukraine



Department of Science
and Education of
Kharkiv Regional State Administration

SPONSORSHIP





Photo source: Pollmeyer
