

EUROPEAN NETWORK OF R & D AND TRAINING ORGANISATIONS OF METAL BRANCH



METNET
Ninth International Seminar in Moscow 21.- 22.10.2014
(Bilateral meetings 23.10.2014)

Local organizer is
Moscow State University of Civil Engineering MGSU



Introduction

The Metnet Moscow seminar is the ninth Metnet seminar ever arranged. It will be a scientific seminar with interesting practical extensions. Scientific Papers and Technical Reports will be published in the scientific book / e-book of the seminar. In the seminar Metnet partners will be presenting their latest developments and latest proceedings in the R&D work on metal branch.

There will be a section for presenting projects, development work and organisations as well. An excursion to some MGSU laboratories will be arranged.

The purpose of the Metnet network is to match and utilize the know-how and activities of European R&D and training organizations and to develop new products, services and business for the companies on metal branch. Metnet cooperation supports innovation processes in companies on metal branch and promotes knowledge and best practice expertise transfer between companies, research and training organizations in Europe.

Lauri Tenhunen
Chairman Metnet

Program Tuesday 21 October 2014

National Research University
Moscow State University of Civil Engineering MGSU
26 Yaroslavskoye Shosse
Moscow, Russia, 129337

The entrance of the university (building 22 floors), conference hall

- 09:00 **Registration begins**
- 10:00 **Opening speech**
Rector of Moscow State University of Civil Engineering (MGSU)
Prof. DSc. Andrey A. Volkov
- 10:10 **Practical matters**
Natalia Samotesova, Head of International Relations Department
National Research University
Moscow State University of Civil Engineering MGSU
- 10:15 **Seminar Program Outline**
Dr.Sc. Lauri Tenhunen, HAMK
- 10:30 **Sponsors Presentations**
- Ruukki Russia**
Presentation of Activities, Yuriev Dmitriy – Director, design and pricing
- Ltd TSF “Spetsprokat”**
Economics of building technology applying steel frame constructions. What is the benefit? (with examples of Spetsprokat factory). Deputy Director for Marketing and Finance, Ph.D, Ltd TSF “Spetsprokat” - Violetta Loziuk
- Steel Construction Development Association (SCDA)**
Forming Center of science competences inside “Steel construction development Association (SCDA)”
Director of the SCDA – Dmitry Ereemeev.
- 11:30 *Coffee Break*
- 12:00 **Plenary Sessions and presentations**
(each presentation 12 minutes + 3 minutes for questions)
- Computational techniques.** Chair: Nikolai Vatin
- 12:00-12:15 Dimo Zhelev
Numerical simulation of cyclic load on end plate connection
- 12:15-12:30 Sharmistha Chowdhury
Parameter estimation of different fatigue crack growth models
- 12:30-12:45 Y. Kudishin and A. Grishin
Current trends in the analysis of metal structures
- 12:45-13:00 Grudev Ivan Dmitriyevich
Local bending stability of tube with rectangular cross section.
- 13:00 *Lunch*

Experimental techniques. Chair: Raimo Ruoppa

- 14:00-14:15 Ingmar Stade and Carsten Könke
Generation of numerical simulation models from computed tomography image data
- 14:15-14:30 Peter Olney, Ingmar Stade and Maher Deeb
Dynamic Properties Identified from Measurements on Identical Pole Structures
- 14:30-14:45 Raimo Ruoppa, Rauno Toppila, Vili Kesti and Anna-Maija Arola
Bendability tests for ultra-high-strength steels with optical strain analysis
- 14:45-15:00 Leonid Storozhenko, Grigoriy Gasii and Sergey Gapchenko
Steel-reinforced concrete structural cladding
- 15:00-15:15 Leonid Storozhenko, V.V. Muravlyov and F. Shkolyar
Testing concrete beams with reinforcement bar webs
- 15:15-15:30 Nikolay Vatin, Jarmo Havula, Lassi Martikainen, Alexey Sinelnikov and Lidia Shorovkina
Reticular-stretched thermo-profile: buckling of the perforated web
- 15:30 *Coffee Break*

Technical issues. Chair: Arto Ranta-Eskola

- 16:00-16:15 Markku Heinisuo and Teemu Tiainen
Tubular truss joints – hinged or rigid?
- 16:15-16:30 V.V. Devyatov and V.V. Vershinin
Steel consumption efficiency improvement in hollow units manufacturing
- 16:30-16:45 S.F. Pichugin
Reliability analysis of steel structures
- 16:45-17:00 A.A. Vasilikin
System engineering of optimal design of building constructions elements
- 17:00 **Announcements and Closure for the day**
- 18:00 **Dinner** (*The dinner will take place at MGSU*)

Wednesday 22 October 2014

National Research University
Moscow State University of Civil Engineering MGSU
26 Yaroslavskoye Shosse
Moscow, Russia, 129337

The entrance of the university (building 22 floors), Conference hall

- 08:30 **Registration begins**
- 09:00 **Welcome to Metnet Budapest Seminar in Hungary
(preliminary 13.-14.10.2015)**
Local organizer is the Budapest University of Technology and Economics
- 09:10 **Metnet workshop in Hämeenlinna in Finland (18.2.-19.2.2015)**
Organizer HAMK University of Applied Sciences
- 09:20 **Round Table of companies**
Ruukki Russia
Ltd TSF "Spetsprokat"
Steel Construction Development Association (SCDA)
- 10:10 *Coffee Break*
- 10:30 **Open topics.** Chair: Arto Ranta-Eskola
- 10:30-10:45 Lauri Tenhunen and Arto Ranta-Eskola
Choice of evaluation aspects in understanding university-business cooperation results
- 10:45-11:00 Bogdan Mocan, Stelian Brad, Mircea Fulea
Design Framework of a robot system for cleaning external glass walls of modern buildings
- 11:00-11:15 V.M. Fridkin, I.M. Kouzmenko, N.S. Sysa, D.O. Kuzmenka and S.V. Bogdanov
Design engineering and manufacturing of bearing elements of low steel weight
- 11:15-11:30 Valentina Parlashceвич
Economic, social and technical factors of quality improvement of welded construction
- 11:30-11:45 P.G. Yeremeyev
Modern stadia - technical and economic problems of design and operation
- 11:45-12:00 K.M. Khanukhov
Safety measures for storing of liquefied gases in large welded low pressure tanks
- 12:00 **Group work and discussions**

Group 1: Preparing project initials of current interest
Group 2: BOAT / BOAT Seed topics
Group 3: Planning of international scientific papers
- 13:00 *Lunch*
- 14:00 **Excursion**
- 17:00 **End of seminar**

After-Conference Program Thursday 23 October 2014

National Research University
Moscow State University of Civil Engineering MGSU
26 Yaroslavskoye Shosse
Moscow, Russia, 129337
The Entrance of the University (building 22 floors)

10:00 **Special meetings**

- BOAT Project meetings
- Bilateral Meetings
- Student international practising arrangements
- Posters etc.

Seminar contact information

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Seminar registrations :

Registrations not later than 15th October 2014 to

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Articles and language

The seminar language is English. Russian is accepted in case the presentation slides are in English.

All full papers should be written in English. The last versions of the full seminar articles should be submitted to lauri.tenhunen@hamk as soon as possible.

You will find the example form of a Metnet article from the first page of www.hamk.fi/metnet

Meeting places in Moscow 21.-22.10.2014

Seminar:

National Research University
Moscow State University of Civil Engineering MGSU
26 Yaroslavskoye Shosse
Moscow, Russia, 129337

Dinner:

The dinner will take place at MGSU.

Excursion:

Activities in MGSU
Laboratories

Seminar fee

The seminar fee is 100€ per person (or 4600 rubles). The fee can be paid in advance or at conference place. You will have a receipt from HAMK University of the payment.

Accommodation places in Moscow

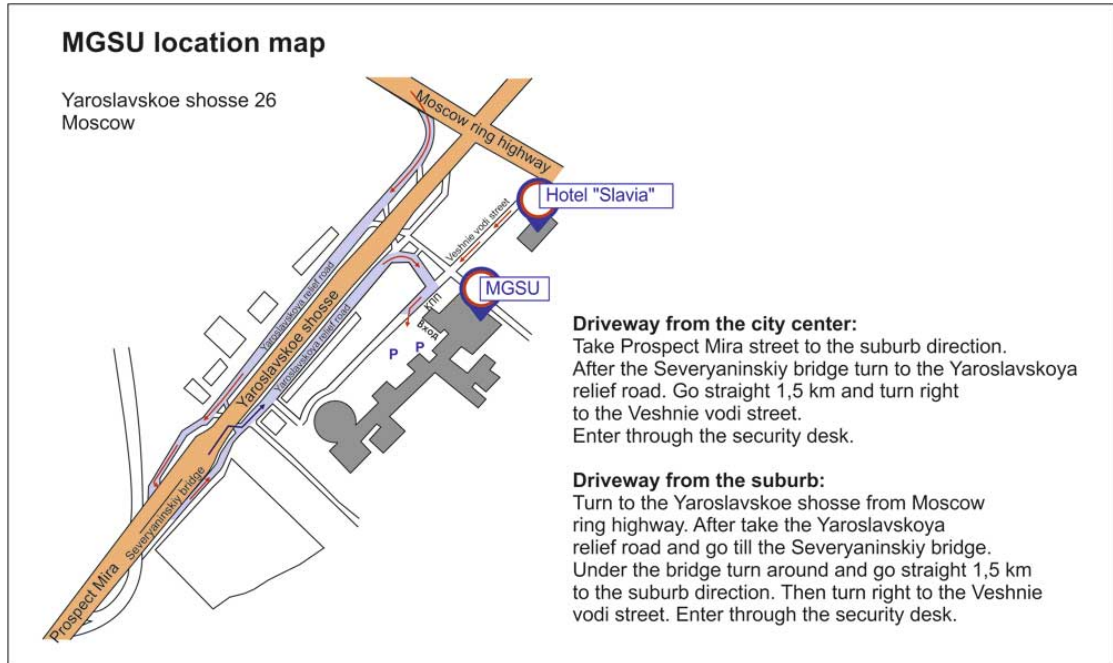
The Recommended hotels in Moscow are

Maxima Slavia Hotel
Yaroslavskoe Shosse 44,
129337 Moscow, Russia (1 km to the university, reasonable prices)

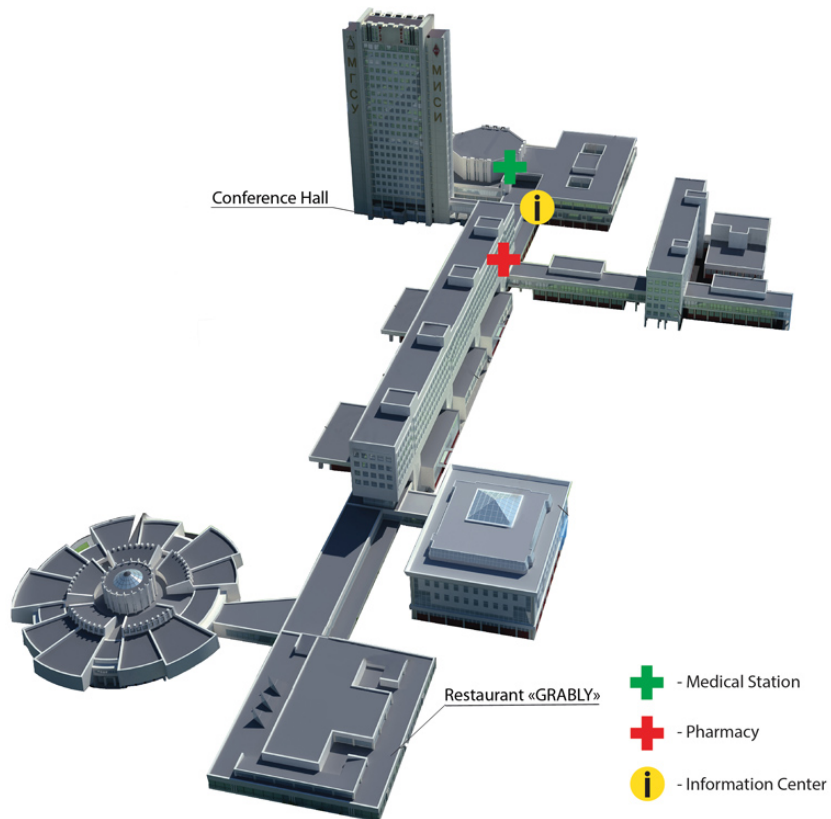
Garden Ring Hotel
Prospekt Mira 14 Bld.2,
Meshchansky,
129090 Moscow, Russia (Half an hour by taxi, small good level hotel)

Maps

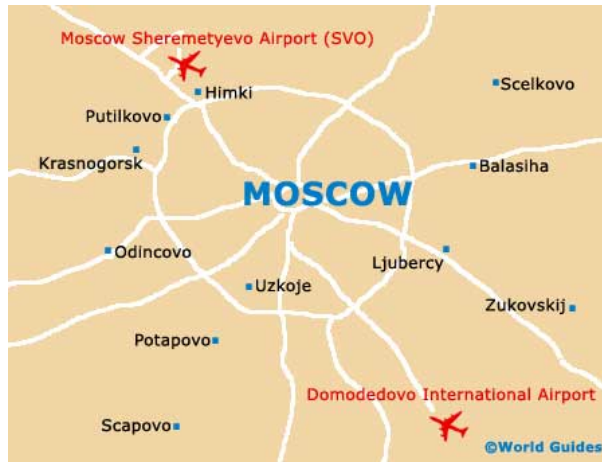
Maxima Slavia hotel



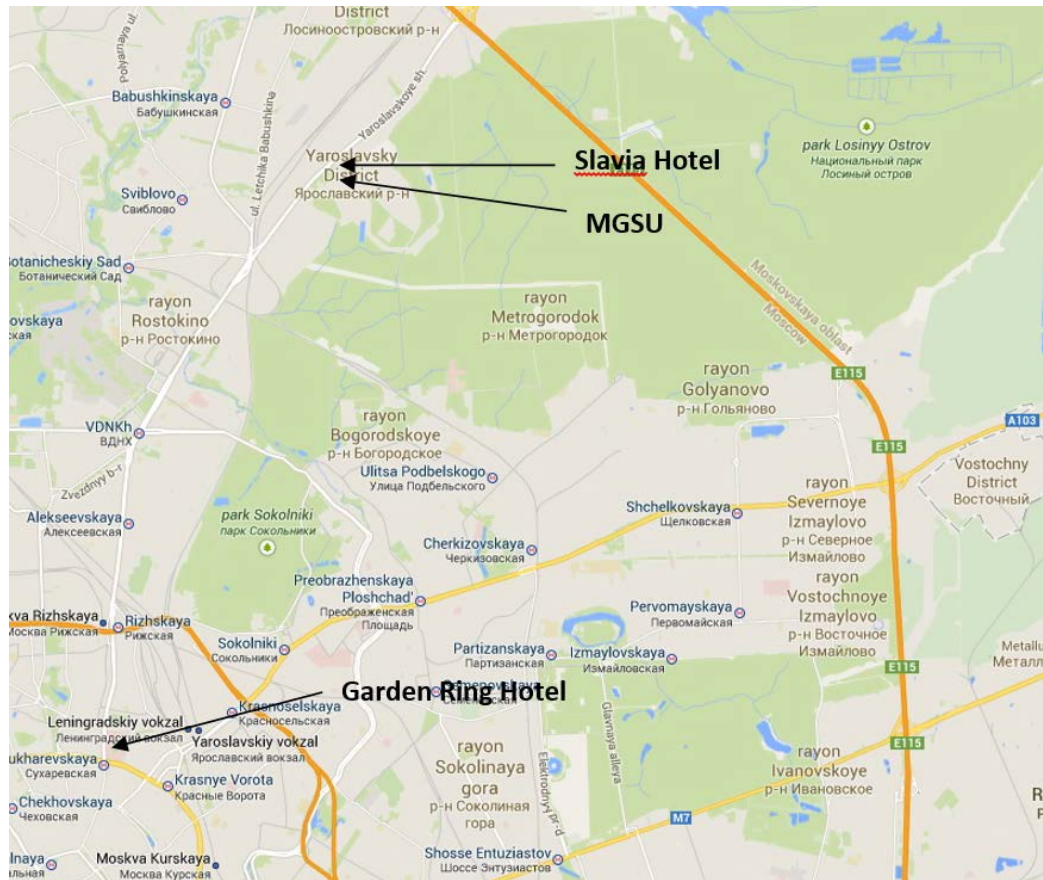
MGSU building



Moscow Airports



Moscow City



Sponsors of the Seminar

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