Introduction

The Metnet International Conference and Seminar in Budapest is the Tenth Metnet Seminar ever arranged.

On the first day of the seminar, Scientific Papers and Technical Reports Papers will be presented and discussed. The papers will be published in the scientific book / e-book of the seminar.

On the second day of the seminar, there will be a section for group work, for presenting projects, practical development work and organisations as well. An excursion to some interesting destination will be arranged.

Representatives from companies, research institutes and universities are welcome to participate the seminar. The seminar promotes innovation processes and knowledge and best practice expertise transfer between companies, research and training organizations in Europe.

Lauri Tenhunen
Chairman Metnet
Program Tuesday 13. October 2015

BME
Műegyetem rkp. 3
Main Building, Room KMF85
H-1111 Budapest
Hungary

Room for posters reserved.

08:30  Registration begins

09:00  Opening Speech
László Dunai
Dean of the Faculty of Civil Engineering, BME

09:10  Sponsors Presentations

Nearly zero energy steel building
Jyrki Kesti, Research Director of Ruukki Construction Ltd, Finland

SCAD Office: computer-aided desing of steel structures
(authors A.Perelmuter, E. Kryksunov)
Eduard E. Kryksunov, Cand. of Sciences, SCAD Soft, Kiev, Ukraine

09:50  Practical matters
Laszlo Horvath, BME

10:00  Seminar Program Outline
Lauri Tenhunen, HAMK

10:10  Coffee Break

10:30  Plenary Sessions and presentations
You may want to download the full papers (pre-print versions) from www.hamk.fi/metnet (Budapest 2015) in the near future for following in the seminar.

Plenary Session 1
Computational techniques
Chair: Markku Heinisuo

- On the issue of structural analysis of spatial systems from thin-walled bars with open profiles (authors A.Perelmuter, V.Yurchenko), Vitalina Yurchenko, Cand. of Sciences, SCAD Soft, Kiev, Ukraine
- The effect of rivets application on thermal characteristics of sandwich panel roofing (authors A. Danilov, Olga Tusnina)
- Surrogate model for rotational stiffness of welded tubular Y-joints (authors Markku Heinisuo, Kristo Mela, Teemu Tiainen, Timo Jokinen, Jolanta Baczkiewicz, Marsel Garifullin)
- Fire behavior simulation of steel industrial halls (authors L. Horváth, B. Kövesdi and L. Dunai)
• Longitudinal and hoop stresses in the linear part of steel main pipeline (authors Sergiy Pichugin, Olexander Zima and Pylyp Vynnykov)

Plenary Session 2
Experimental methods
Chair: Nikolai Vatin

• Buckling behavior of perforated cold-formed columns (authors Marsel Garifullin, Alexey Sinelnikov, Maria Bronzova and Nikolai Vatin)
• Buckling behaviour of perforated cold-formed beams under bending (authors Marsel Garifullin and Nikolay Vatin)
• New T-Bend testing method to examine formability of paint coated steel sheet in different temperatures (author Mikko Långvik)
• Adhesive bonded steel structures under cyclic loading (authors Lukáš Ledecký, Yvonne Ciupack, Hartmut Pasternak, Christoph Mette, Elisabeth Stammen, Klaus Dilger)
• Belarusian-Russian Innovations: Creation Of the XXI Century Engineering Structures (authors I.M. Kuzmenko, S.N. Markov and V.M. Fridkin)

Plenary Session 3
Other topics
Chair: Kuldeep Virdi

• Stability Questions of Centrally Loaded Glass Columns (authors András Jakab, Kinga Nehme, Salem Georges)
• Stabilization of steel structures by sandwich panels (author Olli Ilveskoski)
• Resource-wise solutions - a key to successful future business models (authors Tarja Meristö and Jukka Laitinen)

12:00 Lunch
13:00 Presentations continue …
15:00 Coffee Break
15.30 Presentations continue …
17:00 Closure from the scientific point of view
   Kuldeep Virdi, Emeritus Professor of Structural Engineering
19:00 Dinner
   Almárium Bisztró
   Horánszky út 5
   1085 Budapest
   Tel. +36 20 929 4304
Wednesday 14. October 2015

BME
Műegyetem rkp. 3
Main Building, Room KMF85
H-1111 Budapest
Hungary

Room for posters reserved.

08:30  Registration begins

09:00  Welcome to Metnet  NNN Seminar 2016 in MMM
Local organizer is

Local organizer is Tampere University of Technology TUT

09:30  Group work and discussions
Group 1: Preparing new project initials of current interest
Group 2: Planning of international scientific papers
Group 3: Developing existing projects and initials

10:30  Coffee Break

11:00  Group work and discussions continue ...
Group 1: Preparing new project initials of current interest
Group 2: Planning of international scientific papers
Group 3: Developing existing projects and initials

12:00  Lunch

12:30  Group work and discussions continue ...
Last words and summary
Excursion presentation

13:30  Coffee

14:00  Excursion
Chain Bridge, Vaci street, Market Hall, CET
2 tram tickets, guide, a short walk

16:00  End of seminar
After-Conference Program  
Thursday 15 October 2015

BME  
Műegyetem rkp. 3  
Main Building, Room KMF85  
H-1111 Budapest  
Hungary

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

Contact information

Tiina Björkskog  
Event Secretary  
HAMK University of Applied Sciences  
Visamäentie 35 A,  
PO Box 230  
FI-13101 Hämeenlinna  
FINLAND  
Mobile + 358 40 769 0900  
Email: tiina.bjorkskog@hamk.fi  
www.hamk.fi

Registrations:

Registrations not later than 7th October 2015 to

Tiina Björkskog  
Event Secretary  
HAMK University of Applied Sciences  
Visamäentie 35 A,  
PO Box 230  
FI-13101 Hämeenlinna  
FINLAND  
Mobile + 358 40 769 0900  
Email: tiina.bjorkskog@hamk.fi  
www.hamk.fi
**Articles**

Delivery of article abstracts by 15\textsuperscript{th} June to lauri.tenhunen@hamk

Full seminar articles asap. to lauri.tenhunen@hamk

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

---

**Meeting places in Budapest**

**Seminar:**

BME
Műegyetem rkp. 3
Main Building, Room KMF85
H-1111 Budapest
Hungary

**Dinner:**

The dinner will take place at restaurant DDD, address …

**Excursion:**

Gellért Hill and the Old Market Hall

**Seminar fee**

The seminar fee is 170€ per person. You can pay the fee either in advance or at conference place. You will have a receipt from HAMK University of the payment.

To pay in advance, please use the following bank information:

- HAMK University of Applied Sciences
- BANK: Nordea Bank Finland Plc
- IBAN: FI58 1732 3000 0090 57
- BIC/SWIFT: NDEAFIHH
- Ref: METNET
- Info: Name of the seminar participant

Take a copy of the receipt with you to the seminar.

The seminar fee covers seminar materials, coffees, lunches and dinner. If needed, please contact tiina.bjorkskog@hamk.fi
Accommodation places in Budapest

To reserve the hotel

- Contact the hotel directly with given forms (the forms can be downloaded from www.hamk.fi/metnet (Budapest, Accommodation)
- Use the registration code under to have the special prices

The Recommended hotels in Budapest are

Danubius Hotel Gellért
H-1111 Budapest,
Szent Gellért tér 1,
Hungary
Telephone: +36 1 889-9999,
Fax: +36 1 889-5528,
e-mail: gellert.reservation@danubiushotels.com
Registration code: BME / METNET
Please use the Gellért Hotel registration form behind the link.

Gellért hotel is situated near to the University. Unfortunately, Gellért hotel seems to have free rooms only until 15 morning, from 15 afternoon, it will have a conference and it is fully booked.

Hotel Museum Budapest
H-1088 Budapest,
Trefort utca 2,
Hungary
Telephone: +36 1 485 1080
Fax: +36 1 485 1088
e-mail: reservation@museumhotel.hu
sales@museumhotel.hu
Registration code: METNET
Please use the Museum Hotel registration form behind the link.

Both hotels issue a special booking form for the METNET guests with special, reduced prices – these hotels guarantee special prices until 10. September. After that the prices remain, but only upon the availability of rooms. You will find the forms for a hotel registrations on Metnet pages www.hamk.fi/metnet (Budapest, Accommodation).
Maps
Budapest City

Almárium Bisztró
Sponsors of the Seminar

BME
Műegyetem rkp. 3-9.
H-1111 Budapest
Hungary

Ruukki Construction Ltd
Panuntie 11
00620 Helsinki
Finland

HAMK University of Applied Sciences
Visamäentie 35 A
13100 Hämeenlinna
Finland

SCAD SOFT (Kiev, Ukraine)

European Union