

Participants

Architects, engineers, decision makers (transport administrations and ministries), representatives of construction companies and public administrations, operators of the construction sector, steel producers, steel fabricators, students, academics and others interested in effective use of wind power are welcome.

EVENT REGISTRATION

Interested participants are advised to register on <http://sbi.se/utbildningar/histwin>

Attendance fees

No registration/attendance fees are requested from the participants. They are responsible for their own travel, accommodation and subsistence costs.

Workshop material

Relevant materials will be distributed to the participants.

Venue

Westmanska Palatset,
Holländargatan17,
11160 Stockholm, Sweden

Language

English (no translation will be provided)

Organising Committee

Björn Åstedt (SBI)
Caroline Palm (SBI)
Cécile Haremza (ECCS)
Francis Grogna (ECCS)
Johan Löw (SBI)
Milan Veljkovic (LTU)
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RFCS – Research Fund for Coal & Steel

Further information

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Or visit our website: www.histwin.eu



HISTWIN+ Workshop Agenda

*The international workshop for Nordic
and Baltic countries*



2 December 2015, Wednesday
Stockholm, Sweden



FCTUC DEPARTAMENTO DE ENGENHARIA CIVIL
FACULDADE DE CIÊNCIAS E TECNOLOGIA
UNIVERSIDADE DE COIMBRA



HISTWIN+ project

The HISTWIN+ project is an EU-funded project of 18 months that started in July 2014. Six institutions are involved in the project:

ECCS – European Convention for Constructional Steelwork, Belgium

FOSTA – Forschungsvereinigung Stahlanwendung e.V., Germany

LTU – Technical University of Luleå, Sweden (coordinator)

RWTH – Aachen University, Germany

UC – Universidade de Coimbra, Portugal

UoB – University of Birmingham, United Kingdom

More information on: www.histwin.eu

Objectives of the workshop

The workshop objectives are to promote recent innovations developed during the research project, **HISTWIN** (*High-strength tower in steel for wind turbine*) and to disseminate the project results. A tower supporting a wind turbine often has the hub height 80 - 100m and it is assembled from three segments that have to be executed in-situ. The innovative aspects of the project were **the optimization of the use of higher strength steels and the improvement of fatigue behaviour using newly developed bolted connections.**

A new software for easier pre-design of the tubular towers considering the most common failure modes is developed. The design manual and links to relevant publications including simple freely available software will be provided.

Experts involved in the HISTWIN projects and prominent Swedish experts will share their experience at the workshop.

Speakers

Swedish experts:

Joakim NYSTRÖM | SSAB

John HOLM | HEXICON

Anders WICKSTRÖM | SCANDINAVIAN WIND

Experts involved in HISTWIN projects:

Prof. Dr. Milan VELJKOVIC | Luleå University of Technology, Sweden

Prof. Dr. Carlos REBELO | University of Coimbra, Portugal

Programme (2 December 2015, Wednesday)

9.15-9.20	Opening of the HISTWIN+ workshop <i>M. Veljkovic</i>
9:20-09:45	Achievements of HISTWIN <ul style="list-style-type: none"> - Overall research results - Connection - Fasteners <i>M. Veljkovic</i>
9:45-10:15	Wind turbine design practice <ul style="list-style-type: none"> - Aeroelastic simulations - Structural dynamics and tower excitations - Fatigue and ultimate loads - Third party certification <i>A. Wickström</i>

10:15-10:50	Overall Introduction into Supporting Structures for Wind Turbines <ul style="list-style-type: none"> - Fabrication of HISTWIN tower - Maintenance free bolts - Foundations - Sustainability Aspects (Codes and Tools) <i>C. Rebelo</i>
10.50-11.05	Coffee Break
11.05- 12.00	Presentation of Guideline (theory and design examples) <ul style="list-style-type: none"> - Connections (15 min.; <i>M. Veljkovic</i>) <ul style="list-style-type: none"> • Ring Flange • Friction Connection - Fatigue (15 min.; <i>C. Rebelo</i>) - Stability/Door opening (15 min.; <i>M. Veljkovic</i>) - Apps (10 min.; <i>C. Rebelo</i>)
12.00-12.45	Networking lunch
12.45- 13.10	SSAB: Material assortment for innovative supporting structures for wind turbines <i>J. Nyström</i>
13.10-13.40	Floating structures supporting wind turbines - From design idea to the Hexicon concept <i>J. Holm</i>
13.40-14.00	On-going projects and new projects <i>M. Veljkovic, C.Rebelo</i>
14.00-14.15	Discussion and closure of the workshop, <i>M. Veljkovic</i>

