Seminar on practical use of simulation tools for calculation of energy and indoor climate in buildings)

On November 1 and 2, 2017, the "International Building Performance Simulation Association"(IBPSA-Nordic), and "Norsk VVS Energi og Miljøteknisk Forening", organizes a seminar to promote knowledge and practical use of simulation as a means of improving the energy, environment and financial performance of buildings and their technical systems. The seminar focuses on simulation tools and wishes to achieve greater use of these, as a time and cost-saving measure in the practical work of construction projects. Lecturers are experienced users of simulation tools, both from educational and research institutions and from industry.

The seminar is organized by IBPSA-Nordic, a regional affiliate of IBPSA - International Building Performance Simulation Association for four countries: Denmark, Finland, Norway and Sweden. IBPSA is founded to promote knowledge and practical use of simulation as a means of improving the energy, environment and financial performance of buildings and their technical systems. The seminar focuses on and wishes to achieve a greater use of simulation tools in the practical work of construction projects.

Registration: NORVAC has now established and announced the web-page for registration to BPS Seminar: http://www.vvs-foreningen.no/aktiviteter/type37/

The event will be held in Norwegian (some lectures will be held in English).

Program:

09.30: Velkommen – Åpning av seminaret

V/Vojislav Novakovic, NTNU, Møteleder

09.35: IBPSA Nordic Formål og organisering

V/Vojislav Novakovic, NTNU

09.40: Opportunities and challenges in Building Performance Simulation

Mohamed Hamdy, NTNU

Del 1: Fokus på oppvarming, kjøling og termisk inneklima

10.15: Nye muligheter for simulering av energiforsyning med ny NS3031:2016

Tor Helge Dokka, Skanska

10.40: Energy efficiency of hydronic space-heating distribution systems in super-insulated residential buildings

Martin Thalfeldt, NTNU

11.05: Design of a modulating heat pump system and the impact on the dynamic coefficient of performance

John Clauß, NTNU

11.30: Hvordan lage gode data-input for å sikre simuleringsresultater?

Natasa Nord, NTNU

DEL 2: Fokus på bygningskropp, dagslys og ventilasjon

12.45: Fasadeanalyser, status i kongeriket

Arnkell J. Petersen, Erichsen & Horgen AS

13.10: Fuktberegninger for bygningskroppen

Stig Geving, NTNU

13.35: Iterative analyser av geometri

Kristian Edward, Snøhetta

14.00: Dagslysberegninger – Typiske utfordringer i boligbygninger samt eksempler på løsninger

Line Karlsen, Erichsen & Horgen AS

14.25: Analyse av luftstrømminger i en ishall – Casestudie fra Jordal Amfi

Johnny Holst, Erichsen & Horgen AS

DEL 3: Fokus på andre typer utfordringer

15.10: Retningslinjer for valg av energiforsyning i en tidlig fase i prosjekteringen av ZEB, basert på systemanalyse og kostnadsoptimalitet

Kristian Skeie, SINTEF Byggforsk

15.35: Urban environmental analysis for new and existing neighborhood

Gabriele Lobaccaro, NTNU

16.00: Forventet utvikling av simuleringsverktøy

Tomas Kyhlström, EQUA Simulation AB

16.25: Avslutning

Organisasjonskomite:
Vojislav Novakovic, NTNU
Matthias Haase, SINTEF Byggforsk
Line Karlsen, Erichsen & Horgen AS
Arnkell J. Petersen, Erichsen & Horgen AS
Thor-Jostein Egeland, Norsk VVS Energi og Miljøteknisk Forening