

The Cold Climate 2015 conference and the industrial ventilation conferences in China during 19-28.10.2015

This article summarizes the two international conferences: the 8th International Cold Climate HVAC (heating, ventilation and air-condition) Conference (Cold Climate 2015) (October 21-23, 2015) in the seaside city of Dalian, China and the 11th International Conference on Industrial Ventilation (26-28.10.2015) in Shanghai, China. The Cold Climate conference attracted 180 participants from 12 countries and the Industrial Ventilation conferences attracted 210 participants from 15 countries.

The 8th International Cold Climate HVAC Conference (21-23.10.2015), Dalian, China

The Cold Climate conference is a series conference initiated by the Scandinavian Federation of Heating, Ventilation and Sanitary Engineering Associations (SCANVAC) in 1994. This year's conference was organized by Dalian University of Technology, Tsinghua University and Technical Research Centre of Finland (VTT). The theme of this conference is sustainable buildings and the energy utilization in cold climate. There were altogether about 180 participants in the conference. They came from three continents (Europe, America and Asia): 12 countries (Denmark, Finland, Norway, Sweden, German, Russia, the Republic of Kazakhstan, USA, Canada, Korea, Japan and China). All participants represented 70 different universities and institutions around the world, thirty percent of the delegates were from overseas. The conference received 179 papers and 145 of them were finally accepted.



Photo 1. The SCANVAC President, Per Rasmussen, gave a speech in the opening ceremony on 21.10.2015.



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In total 113 papers were presented by oral presentation and 18 by posters. In the conference, a REHVA workshop, which was purposed to disseminate the new REHVA Guidebook - mixing ventilation, was organized by Risto Kosonen.

Photo 1 shows that the SCANVAC President, Per Rasmussen, gave a speech in the opening ceremony on 21.10.2015 and **Photo 2** shows that he was in the Workshop of Indoor climate design for nearly Zero Energy Buildings (NZEB) in cold climate.

The 11th International Conference on Industrial Ventilation (26-28.10.2015) in Shanghai, China

The 11th International Conference on Industrial Ventilation (Ventilation 2015) was held on October 26 to 28, 2015 in Shanghai, China. This conference was organized by Tongji University, co-organized by VTT (Technical Research Center of Finland) and Tsinghua University. Prof. Xu Zhang chaired this conference. More than 210 participants originated from 15 different countries/regions attended this triennial event to celebrate the 30 years' anniversary of this international conference series on industrial ventilation. In total 125 papers were peer-reviewed and included in the Proceedings of this conference.

During the opening ceremony, besides Prof. Goodfellow was awarded for his 30 years' service to industrial ventilation society. Meanwhile, Prof. Wei Xu and Prof. Xu Zhang from CCHVAC were awarded by Prof. Karel Kabele, President of REHVA, for their outstanding services to the collaboration between REHVA and CCHVAC (see **Photo 3**).

The Rehva President, Prof. Karel Kabele, was invited to give keynote speech in the plenary session. The title of his keynote speech was: Ventilation for better IEQ in Nearly Zero Energy Buildings (see **Photo 4**).

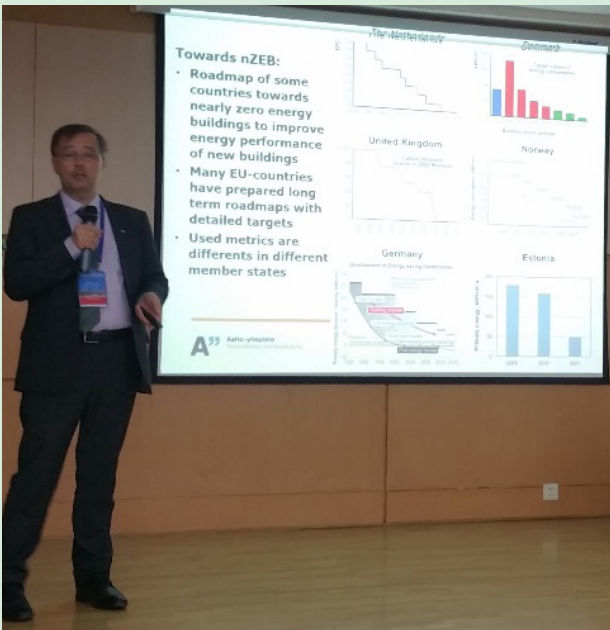


Photo 2. Risto Kosonen was presenting the presentation about Nearly Zero Energy Building in the Workshop of Indoor climate design for nearly Zero Energy Buildings (NZEB) in cold climate.



Photo 3. Opening ceremony 26.10.2015: REHVA's award – REHVA's Certificate of Merit to: Prof. Wei Xu, President of CCHVAC and Prof. Xu Zhang, Tongji University, Vice president of CCHVAC.



Photo 5. SCANVAC workshop: Advanced airflow distribution methods for reduction exposure to indoor pollution 27.10.2015.

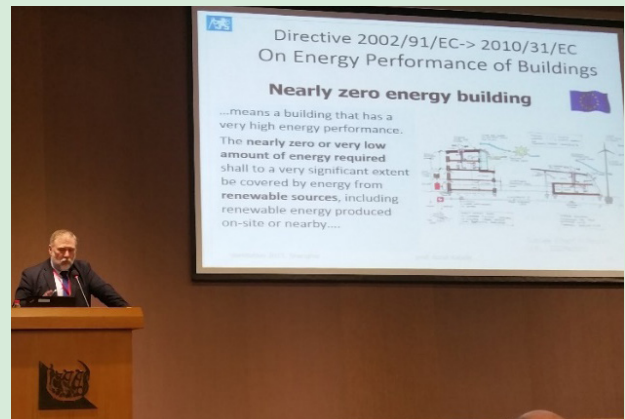


Photo 4. Keynote speech from the REHVA President Prof. Karel Kabele in the Industrial Ventilation 2015 conference.

During the conference, a SCANVAC workshop was organized entitled: Advanced airflow distribution methods for reduction exposure to indoor pollution. Four presentations were made by Prof. Peter Nielsen from Aalborg University, Prof. Arsen Melikov from DTU, Prof. Risto Kosonen from Aalto University and Prof. Guangyu Cao from NTNU (see **Photo 5**).

Remarks

The two conferences provided wide and solid platforms for experts to share and exchange ideas and insights in developing a healthy, productive, safe and comfort indoor environment in an energy efficient manner. The Cold Climate conference in Dalian included a few main topics including zero energy building, sustainable

district heating, renewable energy and low exergy energy utilization. Discussions also covered: whether different countries have different zero energy building roadmaps, how to heat and cool a zero energy building, whether the type of space heating system is the key method to improve the efficiency of CHP system, what is the fourth generation district heating system which is the future trend of district heating system, what can be done in HVAC field facing the era of big data, etc. During the Industrial Ventilation conference in Shanghai, five domains of ventilation science and engineering were covered: 1) occupational health; 2) ventilation and sustainable development; 3) industrial ventilation and pollutant control; 4) air distribution design, measurement and products; and 5) specialized ventilation applications. ■