

REHVA

Federation of European
Heating, Ventilation and Air-conditioning Associations

www.rehva.eu



Federation of European Heating, Ventilation and Air-conditioning Associations

What is REHVA?

(founded 1963)

**REHVA is a professional organisation
representing more than 110 000**

building services engineers

(heating, ventilation and air-conditioning for
energy efficient, healthy buildings)

from 26 European countries



Federation of European Heating, Ventilation and Air-conditioning Associations

REHVA Network

26 Member Associations in Europe, representing 110 000 practitioners and academics in the following countries:



Belgium	Italy	Serbia
Croatia	Latvia	Slovakia
Czech Republic	Lithuania	Slovenia
Denmark	Netherlands	Spain
Estonia	Norway	Sweden
Finland	Poland	Switzerland
France	Portugal	Turkey
Germany	Romania	United Kingdom
Hungary	Russia	



Federation of European Heating, Ventilation and Air-conditioning Associations

Activities of REHVA members

- **Member associations represent about 110 000 experts in HVAC**
- **Co-operation with more than 1500 industrial companies**
- **Over 20 journals with more than 110 issues per year**
- **Close to 100 congresses per year- focus on HVAC and energy**
- **Hundreds of training events**
- **Support to more than 10 regular international exhibitions**



Federation of European Heating, Ventilation and Air-conditioning Associations

Recent REHVA Presidents

- Michael Schmidt, Germany, 2011-13
- Francis Allard, France, 2008-2011
- Olli Seppänen, Finland, 2005-2008
- Dusan Petras, Slovakia, 2002-2005
- Per Rasmussen, Denmark, 1999-2002
- Nicolas Gomez Gil, Spain, 1996-1999



Federation of European Heating, Ventilation and Air-conditioning Associations

REHVA Board of directors

good geographical coverage

- Michael Schmidt, Germany, president, 2011-2013
- Ioan Dobosi, Romania, 2007-2013
- Zoltan Magyar, Hungary, 2005-2014
- Karel Kabele, Czech R, 2008-2014
- Bjarne Olesen, Demark, 2011-2014
- Jan Aufderheide, The Netherlands, 2011-2014
- Stefano Corgnati, Italy, 2011-2014



Federation of European Heating, Ventilation and Air-conditioning Associations

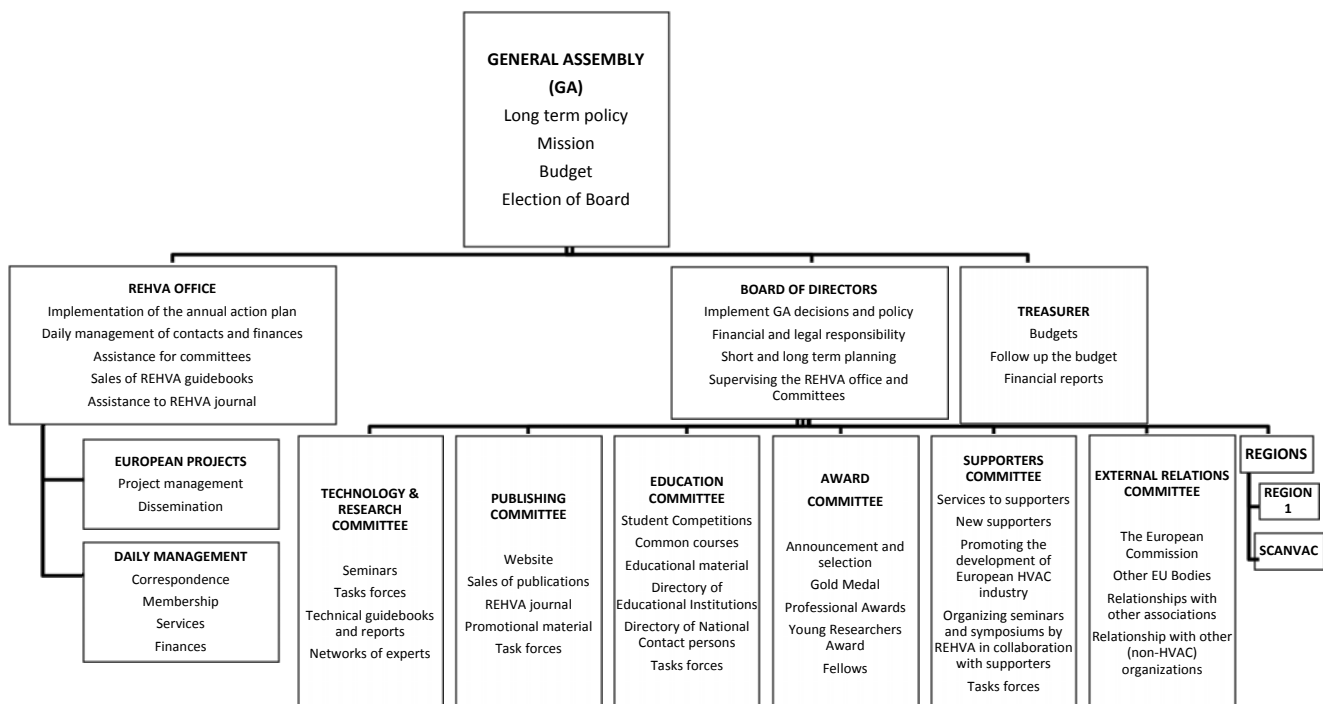
Daily Work under the Committees

1. Technology and research
2. Publishing and marketing
3. Education
4. Supporters
5. External relations
6. Members
7. Awards



Federation of European Heating, Ventilation and Air-conditioning Associations

REHVA Organisation



Federation of European Heating, Ventilation and Air-conditioning Associations

Award Committee



- Announcement and selection
- Gold Medal
- Professional Awards
- Young Researchers Award
- Fellows

Certificates



Pins



Federation of European Heating, Ventilation and Air-conditioning Associations

Technical Committee

Task Forces

Pan European working-groups, focusing on areas where development and/or dissemination of knowledge is needed

Producing REHVA Technical Guidebooks such as

- **Definition of NZEB - 2011**
- **Indoor climate and energy of school buildings - 2011**
- **HVAC in large commercial buildings - 2011**
- **Air conditioning inspections**
- **Advanced air distribution systems**
- **HVAC for building owners**
- **Energy efficient refurbishment**
- **Building simulation**
- **Low energy cooling and thermal comfort**



Federation of European Heating, Ventilation and Air-conditioning Associations

REHVA Guidebooks



Available on www.rehva.eu or through National associations



Federation of European Heating, Ventilation and Air-conditioning Associations

Education Committee

REHVA Student Design Competition for graduated bachelor and master students.

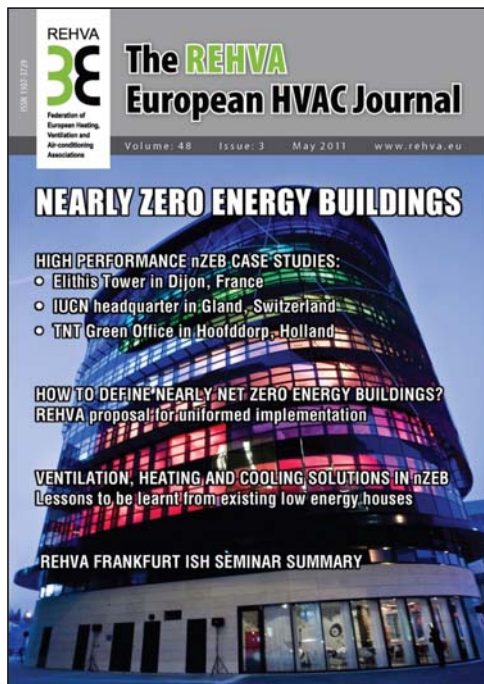
- First competition final took place at Clima congress in Lausanne, 2005
- Helsinki, 2007
- Antalya, 2010
- Tallinn 2011
- Timisoara, Romania, 2012

REHVA Education Directory on CD Rom
Meeting of HVAC teachers



Federation of European Heating, Ventilation and Air-conditioning Associations

REHVA Journal



Federation of European Heating, Ventilation and Air-conditioning Associations

- Focus on European HVAC technology, policy and regulations
- Six issues a year
- Technical articles
- Website www.rehva.eu
 - **Articles in html and pdf -format**
- Theme of 2011 - energy efficiency
- International editorial board

Editorial board

mixture of academics and practitioners
good European coverage

- Francis Allard, France
- Ahmet Arisoy, Turkey
- Derrick Braham, UK
- Marianna Brodatch, Russia
- Vincenc Butala, Slovenia
- Ioan Dobosi, Romania
- Gian Vincenzo Fracastoro, Italy
- Signhild Gehlin, Sweden
- Jaap Hogeling, The Netherlands
- Karel Kabele, Czech Republic
- Zoltan Magyar, Hungary
- Eduardo Maldonado, Portugal
- Renato Merati, Italy
- Bjarne Olesen, Denmark
- Dusan Petras, Slovakia
- Michael Schmidt, Germany
- Thierry van Steenberghe, Belgium
- Branislav Todorovic, Serbia
- Maija Virta, Finland



Federation of European Heating, Ventilation and Air-conditioning Associations

REHVA Newsletter

www.rehva.eu

Free subscription

Min six issues a year

REHVA NEWSLETTER Issue 2/2011 – March 2011
REHVA - Federation of European Heating, Ventilation & Air-conditioning Associations

REHVA Community News

Presentations from the REHVA Seminar – HVAC in Zero Energy Buildings at ISH in Frankfurt

- Energy boundaries and scientific definition of nZEB based on the results of REHVA Task Force, Jarek Kurmátski, SIFRA
- Indoor air quality and climate considerations in nZEB, Risto Kosonen, Halton Group
- Energy News from the European Commission, Gill Szepiáns, REHVA
- Half year experience from Net Zero Energy Office Building, Ansgar Thiemann, Dakin Europe
- Heating and cooling business challenges in nZEBs, Ilari Aho, Ukonor
- Energy efficient ventilation with heat recovery, Timo Schreck, Energest
- Certified products are needed for Net Zero Energy Buildings, Erak Melquiond, Eurovent Certification

Download the presentations at www.rehva.eu

REHVA Journal 2011 Issues

The May issue of the REHVA Journal (3/2011) will focus on Net Zero Energy Buildings. It will be available at REHVA Annual meeting and conference in Tallinn – May 19-20.

The September issue of the REHVA Journal (4/2011) theme is on Heat pumps and use of renewable energy sources - Articles due by 31 July. The guest editor of this issue is Ms Signhild Gøthlin from Sweden - signhild.gothlin@erak.se

The October issue of the REHVA Journal (5/2011) focus on A/C systems & EU regulations for HVAC products - Articles due by 15 September. The guest editor of this issue is Mr Jacques Benoit from France - jacques.benoit@orange.fr

The December issue of the REHVA Journal (6/2011) is on energy efficient heating - Articles due by 30 October. The guest editor of this issue is Mr Karel Kabele from Czech Republic - kabele@fyvout.cz

REHVA Annual Meeting and Conference in Tallinn, Estonia, May 19-21, 2011
REHVA annual meeting and conference will be hosted by the REHVA Estonian member ENVV. The conference will focus on Zero Energy Buildings and Eco-labeling of Buildings; see details at www.rehva.eu or www.envv.eu/cehaem2011/

REHVA Technical Seminar on Smart EPBD and other EU Regulations in Brussels October 26, 2011 for supporters and members - More information will follow on website www.rehva.eu

Upcoming HVAC Events

ASHRAE 2011 Energy Week, April 11-15, 2011
Get more information and register your interest on www.ashrae.org to stay tuned for updated information.

Issue 2/2011 - March 2011

The 23rd IEA International Congress on Refrigeration August 21-26, 2011, Prague, Czech Republic - More information: www.icr2011.org

Energy Efficient Renovation Conference September 22-23, 2011, Bavaria, Italy
Energy Refurbishment of Existing Buildings - which Solutions for an integrated System: Envelope, Plant, Control. More info: www.enerref.org

12th AIVC Conference and 1st TightVent Conference: Towards Optimal Airtightness Performance 12-13 October 2011, Hotel Crowne Plaza, Brussels
More information will be soon available on the AIVC website www.aivc.org

International Conference "Sustainable Energy & Climate" 10-12 November 2011, Brasov-Romania. More information on the REHVA website: www.rehva.eu

CLIMA 2011

The 11th REHVA World Congress CLIMA 2011 will take place in Prague on 16-19 June 2011 with the theme of "Energy efficient, smart and healthy buildings". www.clima2011.org

For more HVAC events, please check the REHVA Events Calendar on www.rehva.eu and also www.buildup.eu

European Commission News

A Roadmap for Moving to a Competitive Low Carbon Economy in 2050 was adopted on March 8, 2011 with the goal of EU green house gas (GHG) emissions towards an 80% domestic reduction (100% +1990)

<http://ec.europa.eu/clima/documentation/roadmap>

Energy efficiency Action Plan (EAP) 2011 adopted March 8th by the EU Council
Background: EU will achieve only half of 20-20-20 targets by 2020 if it continues current policy and actions

Some new actions in the EAP:

- Exemplary role of the public sector
- Accelerate the refurbishment rate of the building stock

Issue 2/2011 - March 2011



Send material to info@rehva.eu

Federation of European Heating, Ventilation and Air-conditioning Associations

Bulletin to REHVA supporters

REHVA BULLETIN for our Supporters No. 1-2011

REHVA Office, 40 rue Washington, 1050 Brussels - Belgium www.rehva.eu, info@rehva.eu Tel: +32-2-5141171
Editorial Board: Işıl Şirir Dobut, Frank Neuwirth, Roberto Locchi, Lars Nielsen, Gill Szepiáns

REHVA welcomes the new supporters

The following companies have joined the REHVA Club of supporters in the beginning of the year 2011:

1 New Supporters

2 Atlantic: leading manufacturer of heating equipment: electrical heating, water heating, bathroom heating, renewable energies...

3 Grantfund Consulting: leading building services consulting firm in Finland with international operations.

4 Hitecma srl: the leading European manufacturer of chillers and other cooling equipment for precision cooling.

5 Skanska Commercial Development Nordic AB: one of the world's leading construction and project development companies. Headquartered in Stockholm, Sweden and listed on the Stockholm Stock Exchange.

6 TROX GmbH: the leading manufacturer of air handling and air distribution products.

7 Upcoming REHVA Events

New supporters' logos

The January issue of the REHVA Journal (1/2011) was focusing on new EPBD CEN standards related to energy efficiency. It is available www.rehvajournal.com. This issue was distributed also at ASHRAE winter meeting in Las Vegas and ACREX exhibition in New Delhi India. Both US and Indian experts were highly interested to learn the activities in Europe.

The March issue of the REHVA Journal (2/2011) focus on Ventilation and indoor climate. This issue will be distributed also at ISH and REHVA seminar in Frankfurt.

The May issue of the REHVA Journal (3/2011) will focus on Low energy HVAC systems and equipment. It will be available at REHVA Annual meeting and conference in Tallinn, May 19-20.

The September issue of the REHVA Journal (4/2011) theme is on Heat pumps and use of renewable energy sources - Articles due 31.7.2011.

The October issue of the REHVA Journal (5/2011) focus on A/C systems & EU regulations for HVAC products - Articles due 15.9.2011.

The December issue of the REHVA Journal (6/2011) is on energy efficient heating - Articles due 30.10.2011.

- Six times a year
- Focus on EU/EC regulations
- EPBD
- Ecodesign
- Funding
- Events



Send material to oseppanen@rehva.eu

Federation of European Heating, Ventilation and Air-conditioning Associations

REHVA information and dissemination services

- Network of national journals
- Network of newsletters of industrial organisations
- Events and links at www.rehva.eu
- REHVA network of energy expert
- REHVA network of ventilation experts



Federation of European Heating, Ventilation and Air-conditioning Associations

www.rehva.eu

- **National member associations**
- **Projects**
- **Seminar presentation (Brussels 2010, Tallinn 2011)**
- **EU – legislation (EPBD, Ecodesign, standards etc)**
- **REHVA journal**



Federation of European Heating, Ventilation and Air-conditioning Associations

REHVA dictionary

REHVA multilingual HVAC dictionary

www.rehvadictionary.eu

12 000+ HVAC words

14 languages

Czech – Danish – Dutch – English – Finnish – French – German – Hungarian – Italian – Norwegian – Polish – Portuguese – Russian – Slovenian – Spanish – Swedish – Turkish

Contacts:

Koos Mast: mast@smitsvanburgst.nl

Derrick Braham: derrickbraham@virginmedia.com



Federation of European Heating, Ventilation and Air-conditioning Associations

Translation and printing of REHVA guidebooks

Approximately 45 translations

- **Displacement Ventilation:** Dutch, Finnish, German, Hungarian, Italian, Japanese, Latvian, Norwegian, Portuguese, Russian, Slovenian, Spanish, Turkish
- **Ventilation Effectiveness:** Hungarian, Japanese, Latvian, Portuguese, Russian, Slovenian
- **Chilled Beam:** French, German, Hungarian, Italian, Polish, Portuguese, Spanish, Turkish
- **Indoor Climate & Productivity:** Dutch, Italian, Japanese
- **Low Temperature Heating and High Temperature Cooling:** Finnish, Hungarian, Italian, Portuguese, Slovenian, Turkish
- **Cleanliness of Ventilation Systems:** German, Italian, Portuguese
- **Hygiene Requirement:** Italian, Portuguese
- **CFD in ventilation design:** Hungarian, Japanese
- **Air Filtration in HVAC Systems:** Portuguese
- **Solar Shading:** Finnish, French



Federation of European Heating, Ventilation and Air-conditioning Associations

Follow up in EC and EU

- DG ENERGY: EPBD recast
- DG ENERGY and ENTER: Ecodesign of energy related products
- DG CLIMA: F-Gas regulations
- DG SANCO: Indoor Climate issues
- DG Environment: Building labelling
- CEN: TC 156, TC 228, TC 371
- EACI –Executive agency for innovation and competitiveness



Federation of European Heating, Ventilation and Air-conditioning Associations

REHVA participation in European Projects

ASIEPI – Assessment and Improvement of the EPBD Impact

for new buildings and building renovation - www.asiepi.eu

AdVent – Building Advanced Ventilation Technological examples to demonstrate materialised energy savings for acceptable indoor air quality and thermal comfort in different European climatic regions

BUILD UP 2 – Portal on implementation of Energy Performance Buildings Directive and energy efficiency 2011-2013

iSERV – Database on energy use of air-conditioning

IDES-EDU – Educational material to universities on energy efficiency



Federation of European Heating, Ventilation and Air-conditioning Associations

REHVA Supporters

50 European leaders in HVAC



- EU and EC information
- Logos on website
- Networking
- Free **REHVA** Journal
- Free set of guidebooks
- Participation in **REHVA** activities
- Membership of reHVAClub
- Dictionary
- **REHVA** seminars



Federation of European Heating, Ventilation and Air-conditioning Associations

Co-operation

- Eurovent/Eurovent certification
- CEN TC 156, TC 228, TC 371
- AIVC/INIVE = IEA's Air infiltration and ventilation center
- IIR –International institute of refrigeration
- ASHRAE
- Architects' Council Europe (ACE)
- IBPSA = International building performance simulation association



Federation of European Heating, Ventilation and Air-conditioning Associations

Networking with industrial organisations

- EHI = European Heating Industry
- HVAC Contractors
- ES-SO = European Solar Shading Association
- ESTIF= European Solar Thermal Industry Federation
- European Ventilation Hygiene Association
- EURIMA
- EuroACE



Federation of European Heating, Ventilation and Air-conditioning Associations

REHVA supporters

- Aermec S.p.A.
- Air Trade Centre International BV
- Atlantic
- Baltimore Aircoil International N.V.
- Belimo Automation AG
- Blue Box Group SRL
- Camfil AB
- C.I.A.T
- CLIMESPACE
- Daikin Europe N.V.
- Emerson Climate Technologies
- Emerson Network Power
- Enventus AB
- EPEE
- ES-SO, European Solar-Shading Organization vzw
- EUROVENT CERTIFICATION
- Fläkt Woods AB
- Flanders Corp
- FRITERM Termik Cihazlar Sanayi ve Ticaret A.S.
- GEA Air Treatment Services GmbH
- Granlund
- Halton Oy
- HIDRIA INSTITUTE KLIMA
- Hitema
- ICADE S.A.
- LIFA AIR
- Lindab AS
- Luve Group
- Rettig ICC bv
- Rhoss S.p.A.
- SC DEMARK CONSTRUCT SRL
- SC Kober LTD
- SC WILO ROMANIA SRL
- Smits van Burgst consulting engineers
- Somfy SA
- Swegon AB
- Systemair AB
- Trox Technik
- ULEFOS NV A/S
- Uponor Corporation
- Vabi Software
- Zehnder GmbH



Federation of European Heating, Ventilation and Air-conditioning Associations

Technical seminars and workshops on current topics at international conferences

- RoomVent
- ASHRAE Winter Meetings
- AICARR international conference
- TTMD HVAC Istanbul
- Ventilation
- Cold Climate HVAC
- Healthy Buildings
- HVAC, Romania, Serbia, Hungary
- Climamed
- Palenc
- AIVC

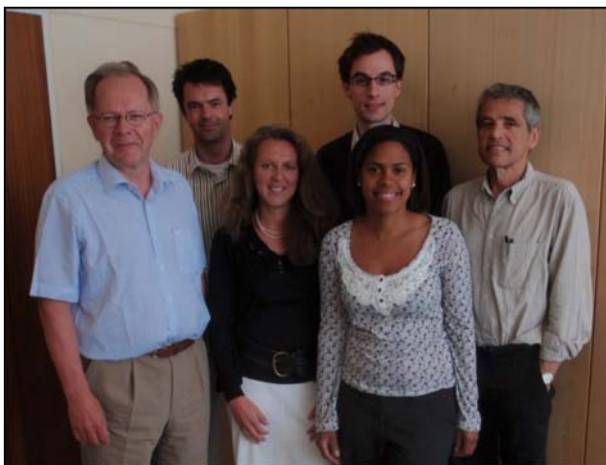


Federation of European Heating, Ventilation and Air-conditioning Associations

REHVA Office

Street address:

Rue Washington, 40



REHVA office team in 2011:

Olli, Thierry, Nathalie, Cynthia, Nejc and Alex



Federation of European Heating, Ventilation and Air-conditioning Associations

REHVA contact information

Address:

Rue Washington 40

1050 Brussels

Belgium

Tel: +32 2 514 11 71

Fax: +32 2 512 90 62

www.rehva.eu

info@rehva.eu

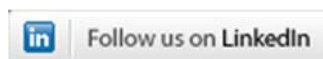
www.rehvadictionary.eu

REHVA Annual Conference 2012

March 28-29, 2012

Timisoara, Romania

Topic: Refurbishment



Federation of European Heating, Ventilation and Air-conditioning Associations

Supporting staff



Paul van Rij
Bookkeeping
and financial
advisor



Jarkko Narvanne
Graphical design and
typesetting



**Karel Kabele and
Pavla Dvořáková**
Website



Federation of European Heating, Ventilation and Air-conditioning Associations

REHVA participation in exhibitions

- ASHRAE-ARI Expo, Chicago
- Interclima, Paris
- ACREX, Bangalore, India
- ISH, Frankfurt
- Sodex, Istanbul
- Light and Building, Frankfurt
- Mostra Convegno, Milan



Federation of European Heating, Ventilation and Air-conditioning Associations

Summary

- Close to 50 years of **REHVA**- representing now more than 110 000 experts in 26 countries through its member associations
- Recognised expert in HVAC and energy efficiency
- High quality guidebooks, **REHVA** journal and other publications
- Increasing number of supporters and industrial contacts
- Expanded network with partners
- Participation in important EC-projects and other EU activities
- Increasing impact on European legislation and standards



Federation of European Heating, Ventilation and Air-conditioning Associations