



# Technology and Research Committee Report

**General Assembly, 22 April 2018, Brussels**

*Jarek Kurnitski, TRC Chair*



# TRC in numbers

- 2016-18 chair Jarek Kurnitski, co-chairs Ivo Martinac and Livio Mazzarella, secretariat Anita Derjanecz + technical person/project officer Tiziana Buso in REHVA office
- Membership renewed in 2016 and 2018
- 27 core and 20 corresponding members (under renewal)
- TRC has worked as a whole committee, and has a division into Task Forces
- 7-8 active Task Forces in average
- Fast communication (position papers etc.) facilitated by chairs and secretariat
- 2-3 guidebooks published per year

# Strategic Objectives

1. To **develop and disseminate technical information** for the benefit of REHVA members and supporters
2. To enhance the development of **standards**, to promote research in the related fields at European level
3. To increase the **visibility of REHVA** in Europe through EU projects and through EU public affairs and political advocacy

Activities to achieve these objectives include:

- REHVA technical Task Forces
- Working groups with co-operating organizations
- Organization of technical seminars and workshops
- Development of technical publications like guidebooks and reports
- Participation in EU-projects
- Exchange of technical information through articles in REHVA journal

REHVA



Federation of European Heating, Ventilation and Air-conditioning Associations

# Task Forces and Guidebooks

- TRC aims at producing useful **publications for professionals** with good market potential developed by REHVA Task Forces
- Outcome of the work of a Task Forces can be printed and electronic guidebooks and reports, as well as other useful tools and materials to spread knowledge among practitioners
- TRC seeks actively for **professors and experts who like to volunteer** to write such documents, following the process:
  - working plans are to be approved by TRC
  - documents will be prepared by Task Forces and the progress has to be reported to TRC
  - final document will be reviewed by TRC nominated experts, and published as electronic or printed REHVA documents
  - decision to print a guidebook or other document will be done by Publication and marketing committee PMC

# Outcomes 2017

- 3 guidebooks went into production:
  - Displacement Ventilation GB#23
  - Fire Safety in Buildings – Smoke Management Guidelines GB#24
  - Energy Efficiency in Historic Buildings GB#26 (pdf)
- New Task Forces with work plans approved by the TRC:
  - IEQ in schools, in co-operation with ISHRAE
  - Hygiene in drinking-water supply systems in co-operation with VDI
  - Update of Guidebook No.11 on Air filtration in HVAC systems in co-operation with VDI
  - Update of Guidebook No.9 on Hygiene in air-conditioning systems in co-operation with AiCARR
- EPBD position and active participation to public consultation
- REHVA Brussels Summit and ISH technical seminars
- Promoting a topic of **Indoor environment and ventilation minimum requirements** systematically in the events such as WSED17, Healthy Buildings 2017 and other events

## Task Forces active and under preparation in 2018

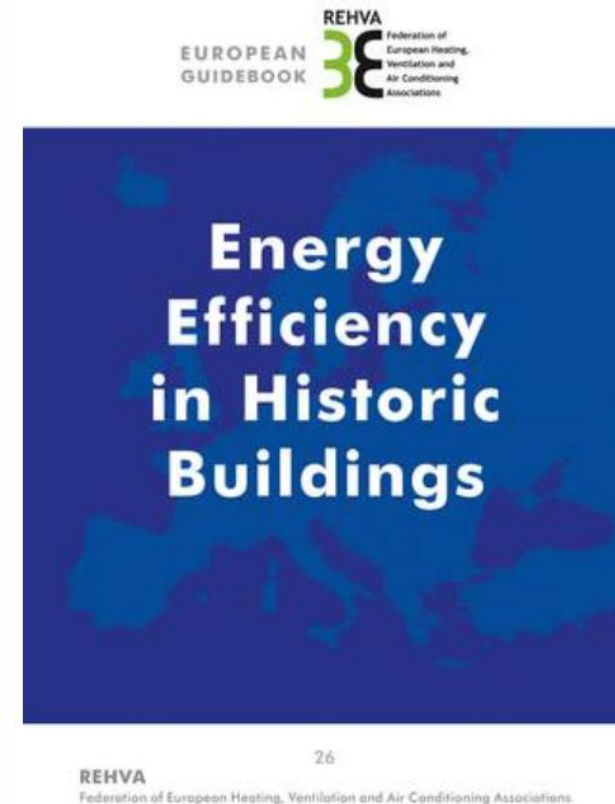
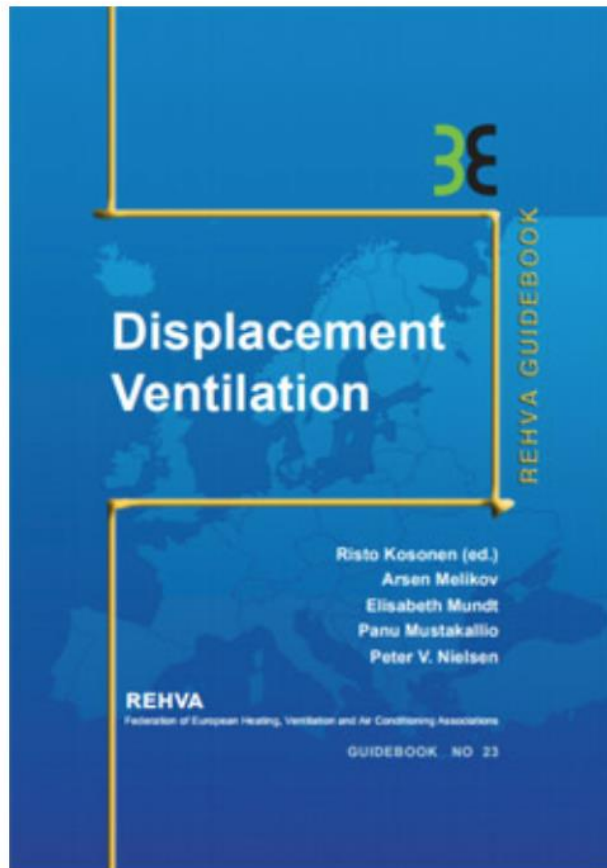
Title	Chair(s)	Outcome	Date of publication
Smoke management	Othmar Brändli	Guidebook	2018
Energy Efficiency in Historical Buildings	Francesca R. D'Ambrosio	Guidebook	2018
Residential Heat Recovery Ventilation	Jarek Kurnitski	Guidebook	2018
Commissioning Certification scheme	TBD	Supervision protocols	2018
REHVA-ISHRAE Building Commissioning Guidelines	TBD	Guidebook	2018
MedZEB	Ahmet Arisoy	Guidebook	2019
IEQ in nZEB schools (REHVA-ISHRAE)	Livio Mazzarella	Guidebook	2019
Life cycle quality management of buildings	Ole Teisen, Stefan Plesser	Guidebook, TBD	2019
Hygiene in drinking-water supply systems	Thomas Wollstein	Guidebook	TBD
Air filtration in HVAC systems (GB 11 update)	Livio Mazzarella	Guidebook	TBD
Air Curtains	Ivo Martinac, TBD	TBD	TBD
Hygiene in air-conditioning systems (GB 9 update)	Atze Boerstra	Guidebook	TBD
<u>nZEB technologies and nearby renewable energy production</u>	<u>Jarek Kurnitski</u>	<u>Revision of the Report</u>	<u>TBD</u>
<u>Technical systems of greenhouses</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
<u>NZEB Hospitals</u>	<u>Wim Maassen</u>	<u>TBD</u>	<u>TBD</u>

# Expected Outcomes in 2018

- 3 Guidebooks to be published
- Position paper on the SRI
- 2 REHVA seminars at REHVA events and 2 REHVA seminars at international fairs
- Approved EPBD generated a list of technical issues to be followed with the aim to provide input and to disseminate:
  - Smart readiness indicator
  - Ventilation system inspection study
  - Minimum ventilation/comfort levels progress in MS
  - NZEB definitions progress in MS
- An indicative list of new topics:
  - The REHVA-ECC collaboration on a Commissioning Certification scheme (COPILOT) and on a BIM-based HVAC product library (ProdBIM)
  - European Energy Certificate for non-residential buildings -- cooperation with EPB Centre



# New Guidebooks 2017



No.23: Displacement Ventilation...

No.24: FIRE SAFETY IN BUILDINGS. SMOKE MANAGE-

No.26: ENERGY EFFICIENCY IN HISTORIC BUILD-



# European Guidebooks 2018



## Residential Heat Recovery Ventilation

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## No.25: Residential Heat Recovery

, Ventilation and Air-conditioning Associations