

Centre of Excellence – International Centre for Industrial Ventilation Research, Helsinki University of Technology in Finland

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Helsinki University of Technology (HUT)

Laboratory of Applied Thermodynamics

Present research areas of the Laboratory of Applied Thermodynamics:

- Fuel cells and hydrogen technology
- Experimental fluid dynamics using LDA
- New and innovative energy production methods
- Technical and chemical thermodynamics
- Modern heat pumps and heat exchangers
- Low emission combustion technologies
- Industrial ventilation (INVENT)
- Computational fluid dynamics (FINFLO)

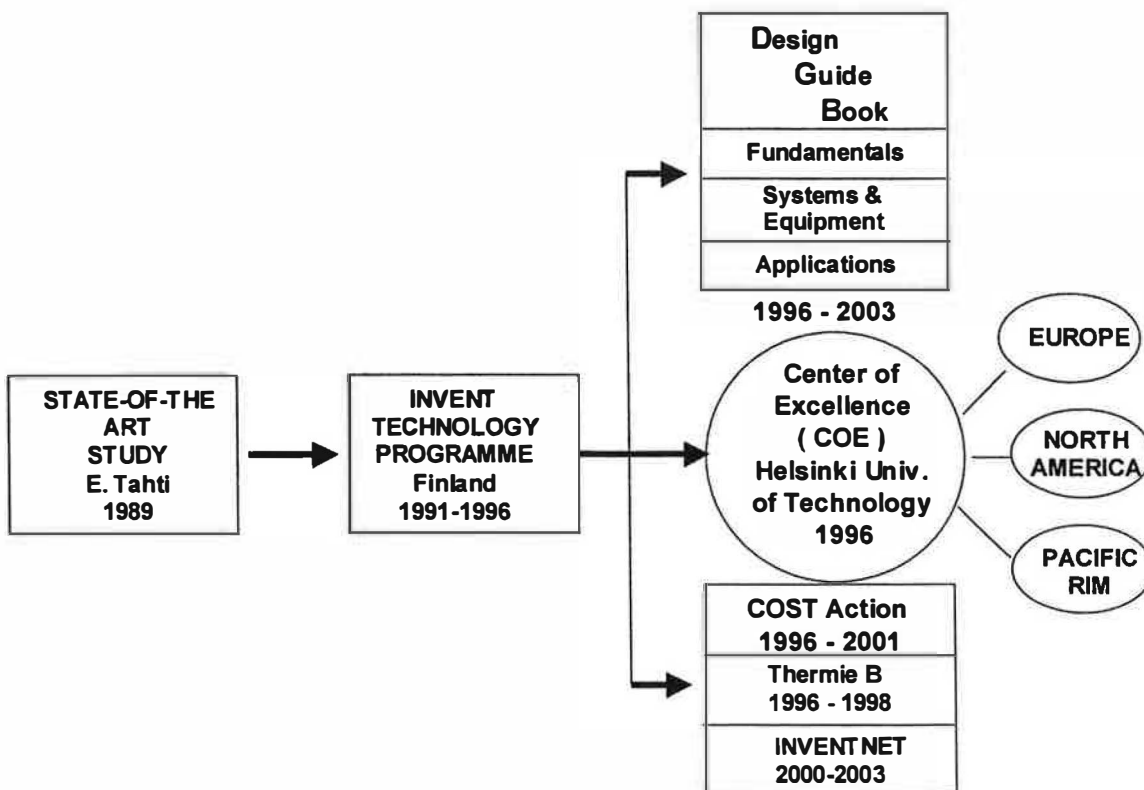
The INVENT Industrial Ventilation “CENTER OF EXCELLENCE” (COE) at Helsinki University of Technology has collected ventilation experience since 1996 and is financed by Finnish national funding (Tekes, the National Technology Agency and Finnish companies).

Objectives of COE in Industrial Ventilation

- Promote international collaboration
- Focus for R & D programs
- Integration of academic, public, and private sector
- Information database
- World class scientists
- Manage multi-disciplinary, multi-sectorial projects
- Satellite centers (Europe, North America, Asia, etc.)
- Accelerate exchange of research results

Major Activities Powered Technically by the COE

- INVENT Technology Programme (1991–1996)
- Design Guidebook of Industrial Air Technology (1996–2003)
- Fundamentals
- Systems and Equipment
- Applications
- COST Action G 3 “Industrial Ventilation”(1996–2001)
- THERMIE B Advanced Applications of Energy Efficient Industrial Air Technology - Thermie B demonstration - 8 sets of transparencies (1996–1998)
- INVENTNET – Network of Industrial Ventilation (2000–2002)



KEY ACTIVITIES - INDUSTRIAL VENTILATION TECHNOLOGY PROGRAM

Methods and Options of the INVENT Centre of Excellence in Electronic Communication

World Wide Web

INVENT Homepage <http://www.invent.hut.fi> offers

- General information on INVENT Programme for everyone
- Latest information regarding DGB project
- Document free for downloading
- Abstracts of INVENT Reports
- Links to other prominent industrial ventilation places
- Mailto:-links to some prominent industrial ventilation specialists
- Information on conferences of industrial ventilation

- COST G3 “Industrial Ventilation” - homepage
- THERMIE B “Advanced Applications of Energy Efficient Industrial Air Technology” - 8 sets of transparencies
- INVENNET - project
- Software
- Feedback page

Email

For more personal information delivery

- Individual response
- Group mailings
- Mailing lists

Your interest to be included in the INVENT mailing list should be addressed to Kalevi.Pontinen@hut.fi .