

Disconnected



Opening & Introduction
Harry Roossien
18-10-2012

EUROPEAN CEEES SEMINAR
EUROPEAN RELIABILITY AND ENVIRONMENTAL TESTING CONNECTED

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PLOT, the Dutch Association for Environmental Engineering (Platform Omgevings Technologie) aims at stimulating the development and popularity of Reliability and Environmental Testing. First by providing an extensive competence network and second to share information to the industry as extricated by this network.

Contents

- 1. Growing interest in Reliability and Environmental Testing**
2. Theme 'connected' and CEEES connections (persons, themes)
3. Programme, location and exhibition

The price of reliability



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Growing interest

- Economic value
 - Huge cost savings: products (return rate)
 - Components (tailored for life time) *
 - Pay back of testing (prevent overkill)
- Social value
 - Prolonged product use (with less maintenance)
 - Less to spend, more risk averse (reliability)
 - Brand perception/loyalty
 - strong brands vs social media 1:60 → 1: 60.000+ *
 - Sustainability/Green environment
 - new materials & pollution requirements
- Technical value
 - New materials (green responsibility/RoHS/REACH, PVC free)
 - New techniques (Multi axis, HALT/HASS, tailored testing, LCA)
 - Investments in testing (pay back – safety risks) *

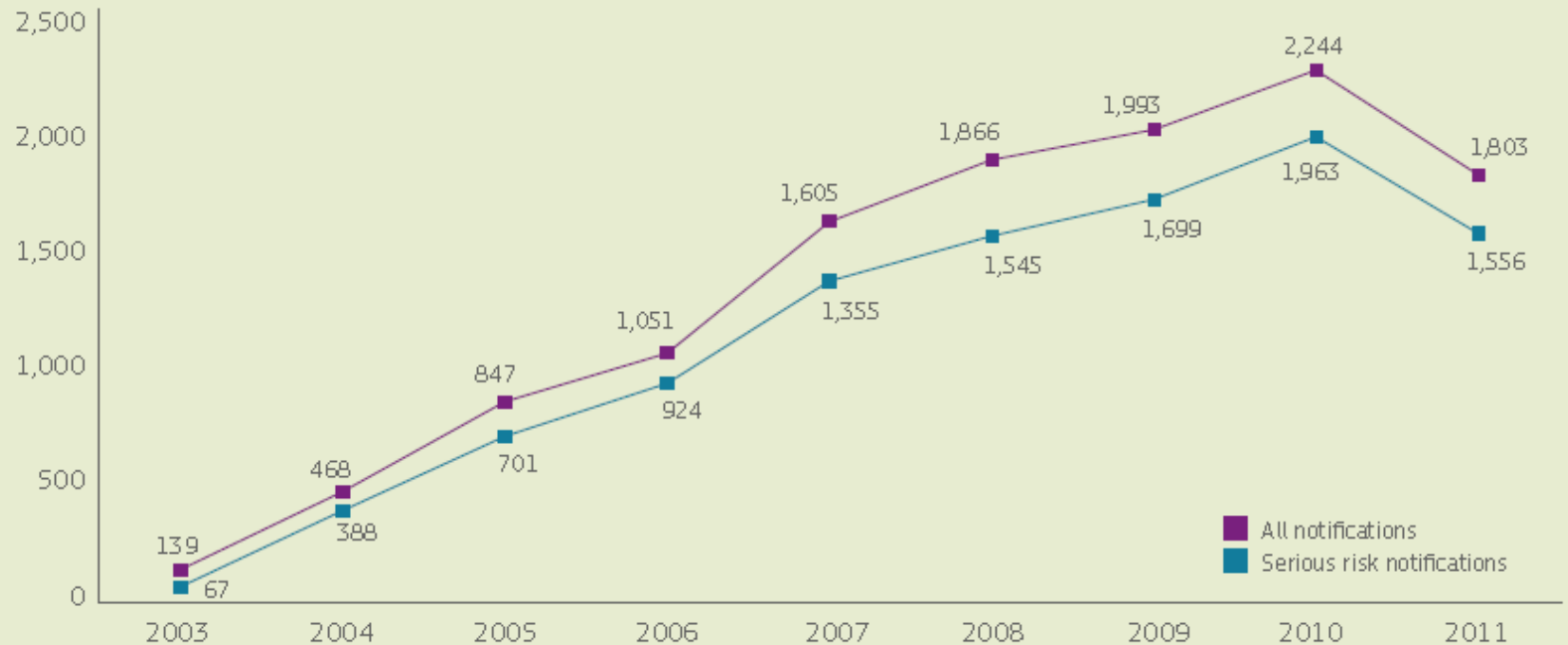
Reliability:
the ability to perform its stated functions
for a given period of time.



Serous risk notifications

Figure 2 – Number of notifications 2003–2010

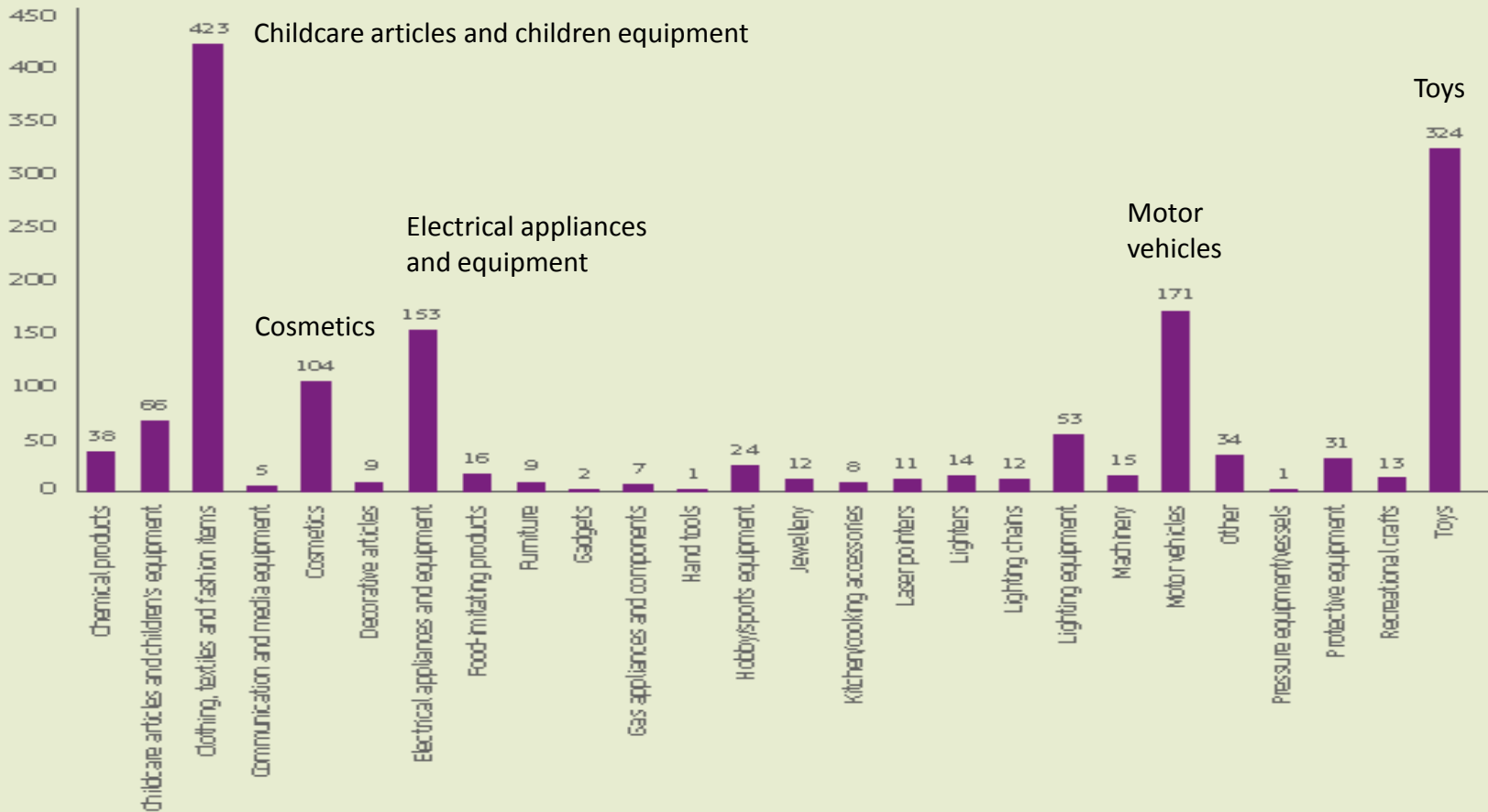
Consumer goods in EU non-food



Source: RAPEX system EU

Risk area's in EU

Figure 8 – Number of notifications by product category (absolute values)



Source: RAPEX system EU

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And less serious, but



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Contents

1. Economics, Reliability and Env. Testing and growing interest
- 2. Theme connected and CEEES connections (persons, themes)**
3. Programme

Theme “Connected”

1. Knowledge assurance/growth
 - Experts opinion (find)
 - Sparring (check - including single source)
2. Cost reductions
 - Partnerships
 - Proven technologies and techniques (f.e. HALT in PLOT)
3. Inspiration
 - New inputs from applications and persons
 - What’s ongoing, knowing = helping – today’s state-of-art



PLOT 2011-2012:

- PLOT + LED cluster
- PLOT + EMC society
- PLOT + standards organization



The screenshot shows the homepage of the Confederation of European Environmental Engineering Societies (CEEES). The header features the CEEES logo, the organization's name, and the website URL www.ceees.org with the tagline "- for better product performance". A navigation menu on the left includes links for Home, About CEEES, CEEES Societies, News, Events, Publications, Technical Advisory Boards, Downloads, Contact, and Eureka Projects. The main content area is titled "Aims and Objectives" and lists six bullet points: advancement of science and technology, exchange of information, arranging symposia and workshops, participation in standardization, encouraging members to support each other, and achieving recognition as an expert pool. A "TEST HOUSE" logo is visible in the bottom left corner of the screenshot.

Confederation of European Environmental Engineering Societies

www.ceees.org
- for better product performance

www.ceees.org > Home

Home

About CEEES

CEEES Societies

News

Events

Publications

Technical Advisory Boards

Downloads

Contact

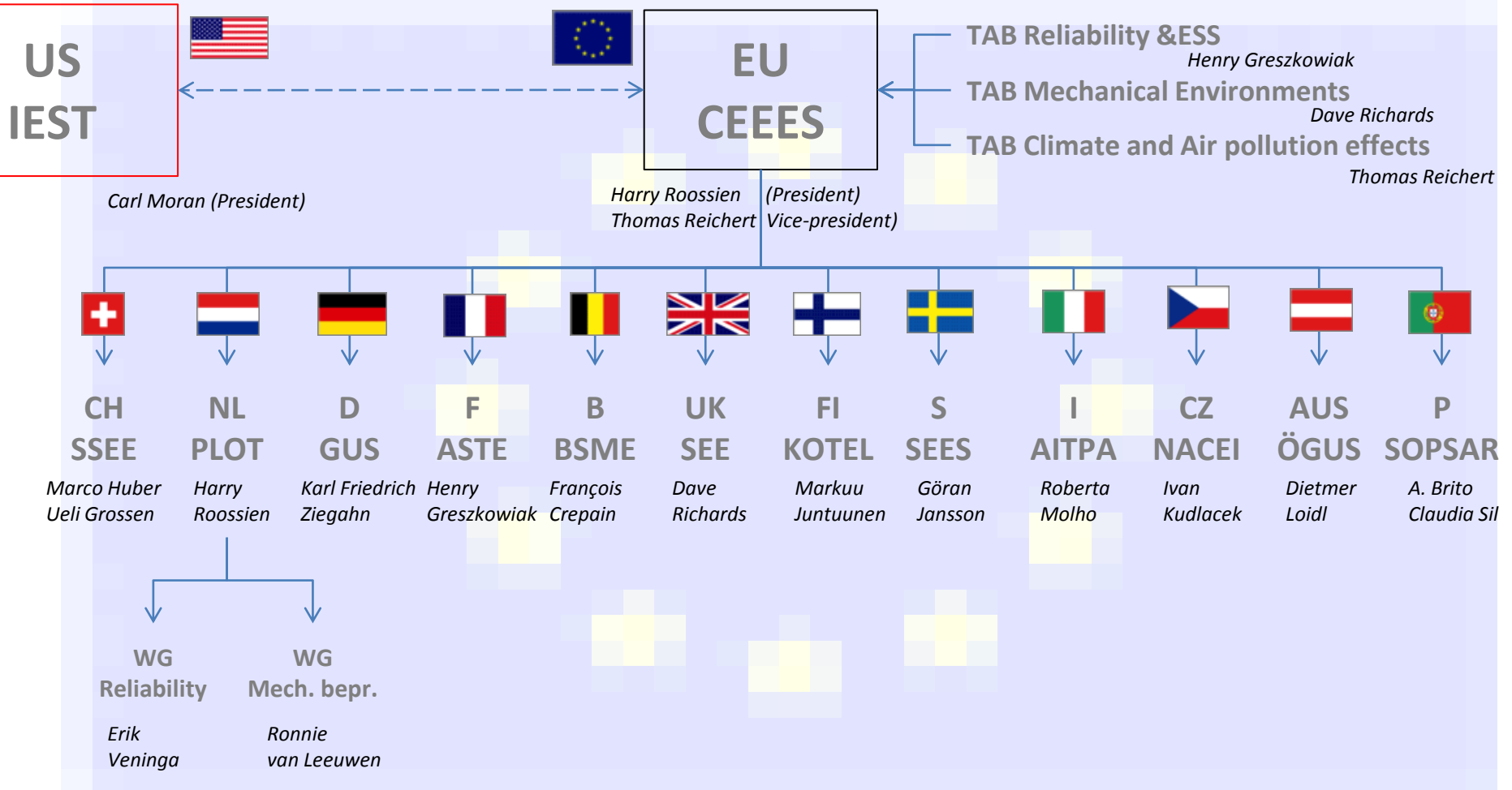
Eureka Projects

Aims and Objectives





- Advancement of science and technology in the field of environmental engineering and related branches
- Exchange of information and experience
- Arranging international symposia and workshops
- Participation in standardization and best practices elaboration
- Encouraging members to support each other
- Achieving recognition as an expert pool

TEST HOUSE





Connected persons



Connected themes

Country	PLOT 	BSME 	GUS 	SEE 
Workgroups	<ul style="list-style-type: none"> • Mechanical testing • Reliability • (HAST) 	<ul style="list-style-type: none"> • Mechanical, Climatic, Electrical, Material Testing • Reliability • Standardization 	<ul style="list-style-type: none"> • Battery Testing • Numerical Simulation • ESS (together with SVU) • Standard Interfaces • Vibration • Berlin Round Table 	<ul style="list-style-type: none"> • Climatic & Reliability Plus ad-hoc groups Involvement in International standards.
Recent themes	<ul style="list-style-type: none"> • Multi-axis vibration testing • Acceleration influences • Testing in applications (f.e. LED, automotive) 	<ul style="list-style-type: none"> • Transition to new organisation: BSTEE: Belgian Society for Testing and Environmental Engineering 	<ul style="list-style-type: none"> • Force-limited vibration testing • Virtual Env. Product Qualification • Interfaces for combined tests • Handbook Water 	<ul style="list-style-type: none"> • One of the UK's licensed organisations for Engineering (CEng) and Environmental (CEnv) professional registration. • Journal (6x per year) and test house directory
Information	info@plot.nl	kristof.harri@rma.ac.be www.bstee.be	www.gus-ev.de	www.environmental.org.uk

Connected themes

Country	ASTE 	SSEE 	SEES 	KOTEL 
Workgroups	<ul style="list-style-type: none"> • commission "Meca-Clim" 	<ul style="list-style-type: none"> • one main group 	<ul style="list-style-type: none"> • one main group 	<ul style="list-style-type: none"> • Reliability • Env. tests • Energy efficiency • Software eng. • Env. issues
Recent themes	<ul style="list-style-type: none"> • Mechanical guide • Climatic guide • AFNOR norms @1 <p>- NFX 50144-1 General methodology of taking in account the environment in a program</p> <p>- NFX 50144-2 Four steps approach of deriving the test program from the LCEP : general</p> <p>- NFX 50144-3 Application of the NFX 50144-2 to the mechanical environment</p> <p>- NFX 50144-4 Application of the NFX 50144-2 to the climatic environment</p> <p>- NFX 50144-5 guarantee coefficient</p> <p>- NFX 50144- 6 test factor</p>	<ul style="list-style-type: none"> • Storage test of electronic boxes in free environment • Calibration sensors • Transport: • Corrosion protection • Surveillance • Packlaging damages • ESS book • Seminar HALT/HASS and specification 	<ul style="list-style-type: none"> • Environmental Engineering Handbook 	<ul style="list-style-type: none"> • DfR • Acc./ageing corrosion tests for PWA reliability • Virtual and Physical Env. Testing for Shock and Vibration • Cost red. vs. reliability and lifecycle, LCA and Total uncertainty
Information	<ul style="list-style-type: none"> • info@aste.asso.fr 	<ul style="list-style-type: none"> • sekretariat@svu.ch 	<ul style="list-style-type: none"> • www.sees.se 	<ul style="list-style-type: none"> • antti.turtola@vtt.fi



The screenshot shows the website for FHI Industriële Elektronica. The header includes the FHI logo and the text 'INDUSTRIËLE ELEKTRONICA'. Below the header is a green navigation bar with a search box labeled 'Zoeken...' and 'ZOEK', and a button labeled 'FHI HOME'. The main content area has a breadcrumb trail: 'HOME > CLUSTERS > PLOT > OMGEVINGSTESTEN VOOR BEGINNERS'. A sidebar on the left lists various categories: HOME, OVER DE BRANCHE, LEDEN, LID WORDEN, CLUSTERS, and a list of clusters including Actieve Componenten, Benelux semiconductors, Development Club, etc. The main content area features a section titled 'In onderstaande artikelen is een aantal basis Omgevingstesten verder uitgewerkt:' followed by a list of 11 articles (Otb-1 to Otb-11) with their respective titles and version numbers. A URL 'www.plot.nl' is provided at the bottom right of the main content area.

FHI  **INDUSTRIËLE ELEKTRONICA**

Zoeken... **ZOEK** **NEDERLANDSE BRANCHEORGANISATIE VOOR INDUSTRIËLE ELEKTRONICA** **FHI HOME**

HOME > CLUSTERS > PLOT > OMGEVINGSTESTEN VOOR BEGINNERS

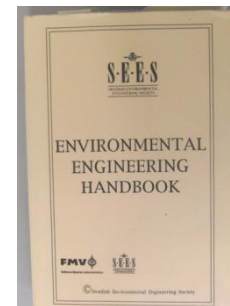
In onderstaande artikelen is een aantal basis Omgevingstesten verder uitgewerkt:

- > Otb-1- Schoktesten.2.0
- > Otb-2- Sinustesten.2.1
- > Otb-3- Random_vibration_testen.2.1
- > Otb-4-Overzicht_tril_en_schoktechnieken.2.1.
- > Otb-5- Zoutsproeitesten.1.2
- > Otb-6- Gecombineerd_testen:_trillen_en_temperatuur.2.3
- > Otb-7- Schoktesten_op_basis_van_schok_respons_spectrum.2.0.
- > Otb-8- HALT_en_HASS.1.4.
- > Otb-9- Temperatuur_schok_testen.1.3
- > Otb-10- IP-testen.1.3
- > Otb-11-Versneld_testen.1.0

www.plot.nl

CEEES - publications

- No. 1: A Bibliography on **Transportation Environment**, ISSN 1104-6341, Published by Packforsk in 1994.
- No. 2: **Climatic and Air Pollution Effects on Material and Equipment**, ISBN No. 978-3-9806167-2-0, published by GUS in 1999
- No. 3: Synthesis of an **ESS-Survey** at the European Level, ISSN 1104-6341, published by SSEE in 1998
- No. 4: List of **Technical Documents Dedicated or Related to ESS**, ISBN 91-974043-0-6, published by SSEE in 1998
- No. 5: **Natural and Artificial Ageing of Polymers**, 1st European Weathering Symposium, Prague. ISBN 3-9808382-5-0, Published by GUS in 2004
- No. 6: Natural and Artificial Ageing of Polymers, 2nd European Weathering Symposium, Gothenburg. ISBN 3-9808382-9-3, Published by GUS in 2005
- TAB's research
- No. 7: 18th EFCA International Symposium "**Ultrafine Particles – Key in the Issue of Particulate Matter?**" Forschungszentrum Karlsruhe FZK June 11 and 12, 2007 Published by Forschungszentrum Karlsruhe FZK in 2007 and includes CD ROM
- No. 8: Natural and Artificial Ageing of Polymers (with CD-ROM), 3rd European Weathering Symposium, Krakow. ISBN No. 978-3-9810472-3-3, Published by GUS in 2005 Special price for GUS and CEEES members: € 45 and includes CD ROM.
- **No. 9 Reliability - For A Mature Product From The Beginning Of Useful Life. The Different Type Of Tests And Their Impact On Product Reliability.** ISSN 1104-6341, Published electronically by CEEES in 2009.



www.ceees.org

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- 3. Programme and thanks**

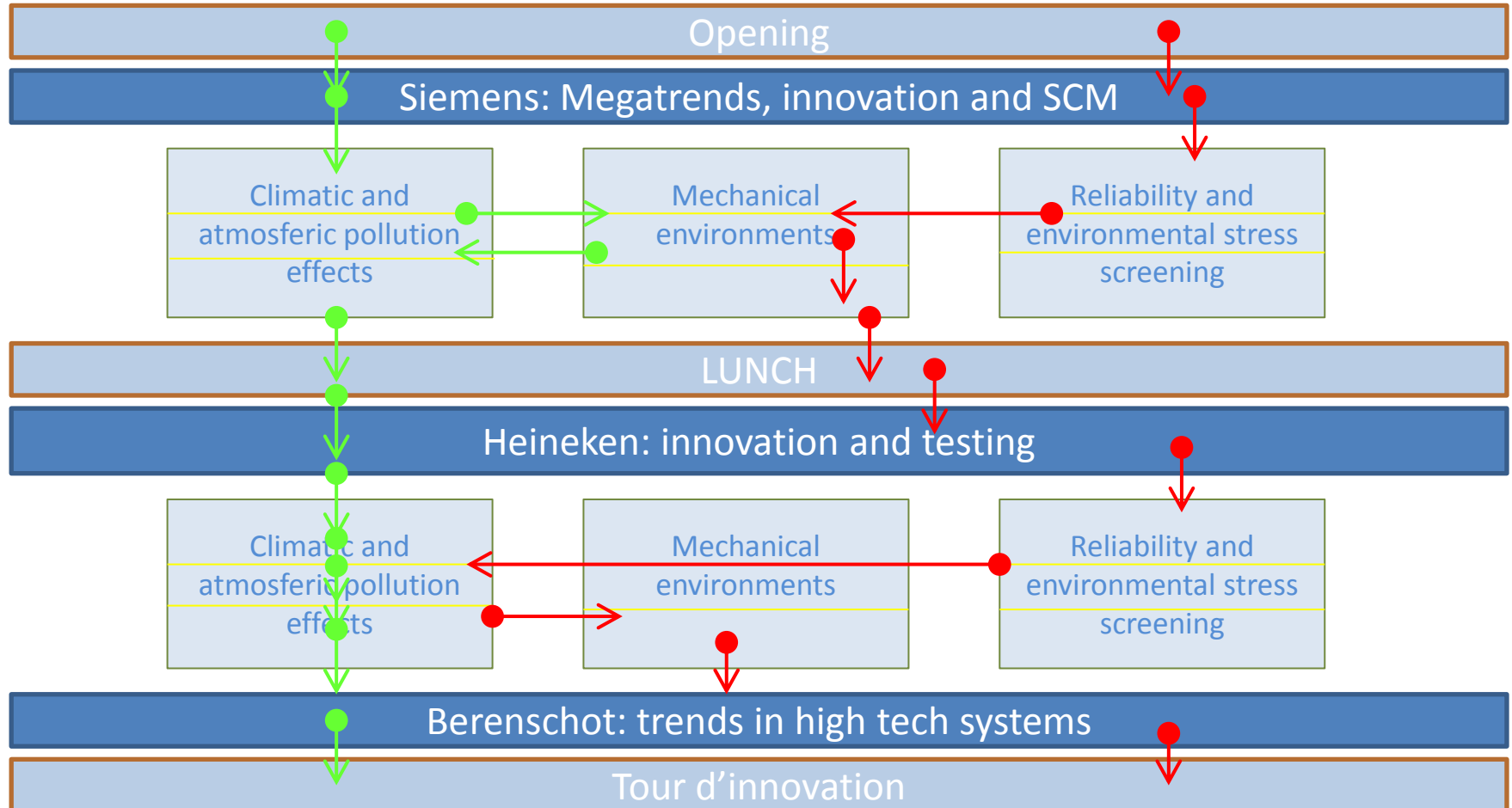
Connections



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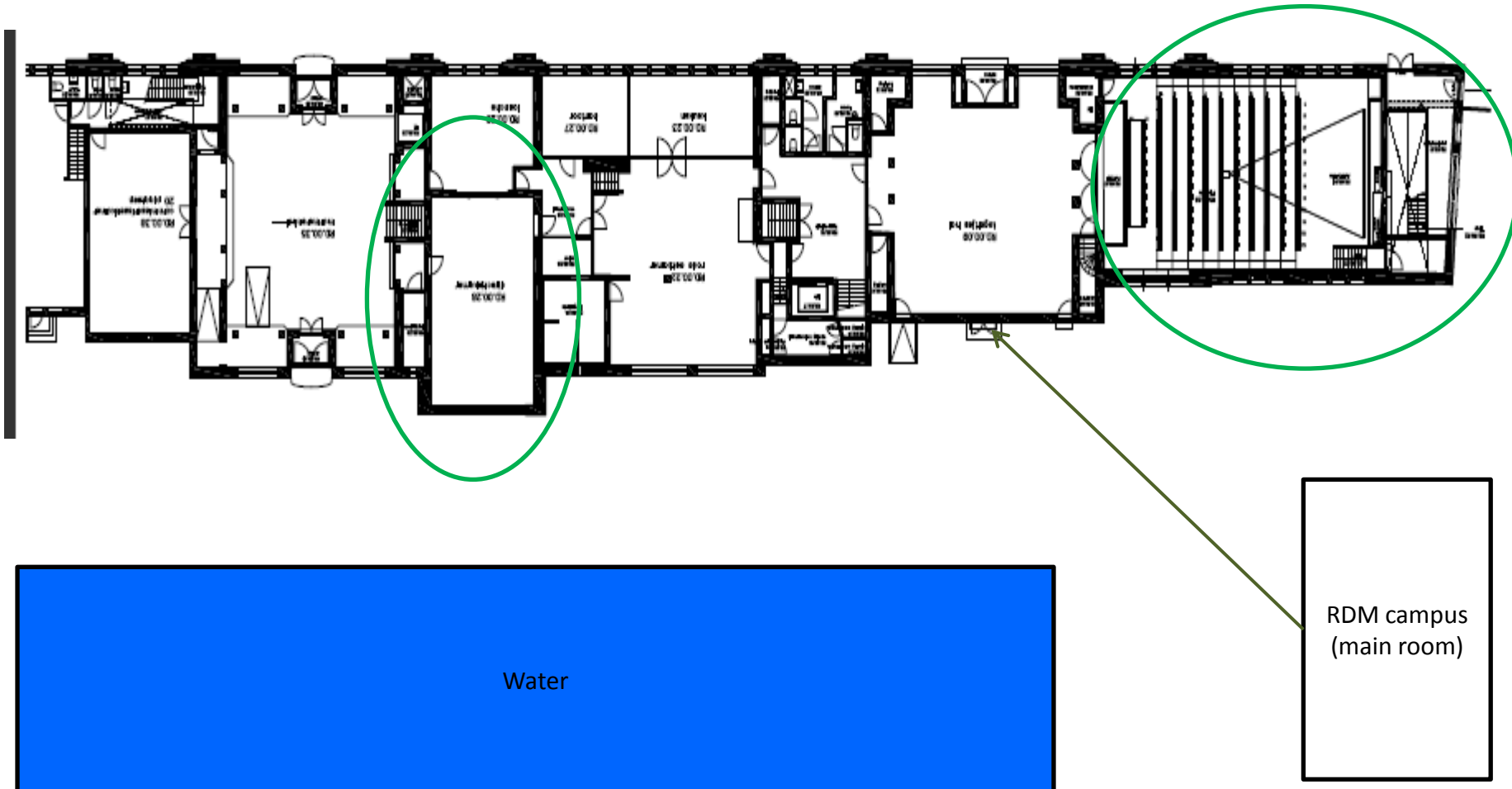
Today's program



Timetable and overview of rooms

	'Congreszaal'	'Auditorium' (droogdok)	'Directiekamer' (droogdok)
09.30 hrs	PLOT		
10.00 hrs	Siemens		
<i>10.30 hrs</i>	<i>Break</i>		
11.00 hrs	Laboratoria de Nayer	HTCO	VTT
11.30 hrs	VLM	Abtronix	NXP Semiconductors
12.00 hrs	Philips	Rycobel	Dutch Space
<i>12.30 hrs</i>	<i>Lunchbreak</i>		
13.30 hrs	Heineken		
14.00 hrs	IPS Technology	Eternal Sun	
<i>14.30 hrs</i>	<i>Break</i>		
15.00 hrs	TNO	Dacom	Philips
15.30 hrs	Weiss Enet	Maser Engineering	Reden
16.00 hrs	Berenschot		
<i>16.30 hrs</i>	<i>Innovation Tour + drinks</i>		

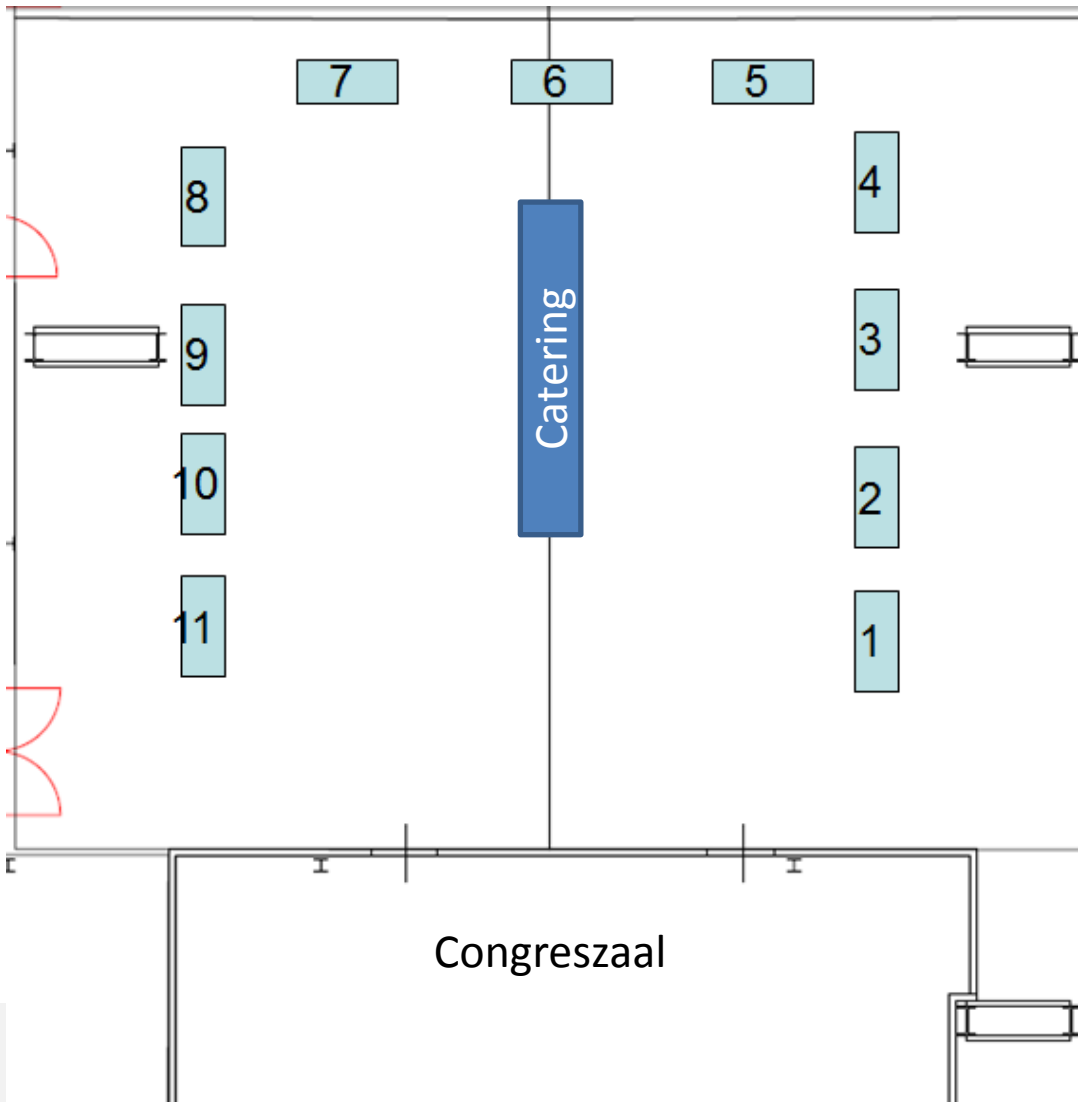
Parallel sessions location



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Floorplan Innovation Dock



- 1 ABtronix BV
- 2 Hielkema Testequipment B.V.
- 3 Laboratoria de Nayer
- 4 Weiss Enet Industrietechn. BV
- 5 MASER Engineering B.V.
- 6 Air test
- 7 j.j. bos b.v.
- 8 Reden bv
- 9 Technex b.v.
- 10 Rycobel BV
- 11 Sebert Trillingstechniek B.V.

EES SEMINAR

Thanks & stay connected

ABTRONIX B.V.
Professional T&M
Equipment

www.abtronix.com

Airtest
solutions

www.airtest.nl

 **j.j. bos b.v.**

www.jjbosbv.nl

hielkema TESTEQUIPMENT B.V.
Temperature (& humidity)
chambers

www.hielkematest.nl


DE NAYER

www.labodenayer.be

MASER
ENGINEERING

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reden
research development nederland

www.reden.nl


rycobelgroup

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