Focus Area
Quality of Life

B. Hauke - J-P. Hamelin
Organigramme

F.A Leaders
Jean-Pierre Hamelin, Soletanche-Bachy
Bernhard Hauke, Hochtief Construction

Core Group
FA Leaders
WG Leaders

WG1. Reducing Environmental Impact
A. Bonilla, Labein
Antonio Burgueno, FCC

WG2. Mitigating Natural Hazards
Frans Barends, ELGIP
Bernhard Hauke, HOCHTIEF

WG3. Improving the Built Environment for People
Philomena Bluyssen, TNO
Ana-Cruz Garcia, IBV

WG4. More Attractive Work Places
Vincent Cousin, P&I
John Goodall, FIEC

General Membership
(open membership)
Membership

- 141 members
- Active ??
- Research : 53%
- Users : 9%
- Industry : 38%

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<tr>
<td>Academic</td>
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<tr>
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### ECTP and FA Quality of Life

#### By country

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### European Union

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### Total

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Joint Technology Initiatives

- Dedicated zones in FA CWS

- Energy Efficient Building E2B
  - Acciona
  - FA contact: J. Mardaras

- Long Tunnel Construction
  - Bouygues TP
  - FA contact: JP Hamelin
Linking ECTP to ETP IS

- ECTP FA Quality of Life
  - O. Salvi (INERIS - TP IS)
  - B. Hauke (HOCHTIEF – ECTP)
- ECTP presented at the ETP IS plenary assembly
- Proposing Projects together
ECTP SRA Priorities (Fiches)

1 Technologies for Healthy, Safe, Accessible and Stimulating Indoor Environments for All
   1.1 - WG3

2 Innovative Use of Underground Space - 1.3

3 New technologies, concepts and high tech materials for efficient and clean buildings -
   2.1 - WG1

4 Reduce Environmental and Man-made Impacts of built environment and cities -
   2.2-1.2 - WG1

5 Sustainable Management of Transports and Utilities Networks 2.3-1.4
ECTP Priorities

6 A Living Cultural Heritage for an Attractive Europe 2.4

7 Improve Safety and Security in the Construction Sector 2.5 WG2

8 New Integrated Processes for the Construction Sector 3.2-3.1-3.4

9 High Added Value Construction Materials 3.3

A Nanotechnologies for materials in construction (NMP)

B Technologies and engineering for innovative added-value services offered by SMEs in the Construction Sector (SMEs)
FP7 – source DG ISM, May 10

- FP7 ~ 50 b€ over 2007-2013
- Cooperation ~30 b€

1. Health 18%
2. Food, Agri, Biotech 6%
3. IST 28.5%
4. NMP 11.0%
5. Energy 7.0%
6. Environment 6.0%
7. Transport 13.0%
8. Socio-Ec Res 2.0%
9. Space & Security 9.0%
FP7 – source CLORA

- FP7 ~54 b€
- = FP6 + 60%
  - 2006 5,044 b€
  - 2007 5,17 b€
  - 2008 5,612 b€
  - 2009 6,888 b€
  - ........
  - 2013 = 2006 + 75%
- Cooperation 32.292 b€ = 60%
FP7 Theme 6 Environment

- 6.1, 6.2 ...
- 6.3 Environmental Technologies
  - 6.3.1, ...
  - 6.3.x Sustainable Management of the built environment, urban areas and landscape
    - 1. Low resource consumption buildings and infrastructure
    - 2. Benchmarking performance and sustainability of built environment
    - 3. Reduced impact of construction / maintenance on urban society and natural environment
    - 4. Facilitating brownfield reuse
    - 5. Comfort and safety of indoor environment
    - 6. Safety of built environment
On ECTP’s Agenda

- **APRIL 6**: ECTP Support Group Meeting
- **MAY 4-5**: European conference on ETPs in Vienna
- **MAY 11**: meeting on Eurekabuild
- **MAY 11**: workshop on SMEs
- **SEP**: ECTP High Level Group Meeting
- **NOV 21-22**: ECTP conference in Paris
  - Presentation of past and present projects, networks (poster exhibition)
  - Presentations from Technical Associations
  - Brokerage event for FP7 research proposals
- **End 2006**: first FP7 Call.
FA Meetings March 29 – 30 – 31, Delft

- March 29 – WG2
- March 30 – WG3
- March 31 – WG1
March 29 – WG2 - 11 people

- Bernhard Hauke, Hochtief
- JP. Hamelin, Soletanche Bachy
- Hans Knoef, Geodelft,
- Jos Maccabiani, Geodelft
- Valerio Cozzani, Univ Bologna
- Frank Weise, Bam
- Carmine Pascale, Consorzio Tre
- Frédéric Mercier, Ineris
- Roko Zarnic, Ljubljana Univ and JRC
- Juliette Cahen, CEA
- Eleftheria Poyiadji, IGME
March 29 – WG2 – 13 projects

- 1. Multi-hazard early warning systems for strategic building protection (Consorzio TRE)
- 2. Mitigation against terrorism and industrial hazards (Ineris)
  - Guidelines for performance based structural design of industrial facilities for man-made and natural hazards
  - Rationale protection measures according to specific risks
- 3. European guidelines performance-based design for extreme actions (Hochtief)
- 4. Flood risks (Geodelft)
  - 4.1 Smart defence systems (sensors)
  - 4.2 Risk management tools
  - 4.3 Rehabilitation of existing flood defence systems
  - 4.3 Assessment of post flood damages in buildings (BAM)
March 29 – WG2 – 13 projects

- 5. Lifetime management of building stock and construction assets (VTT)

- 6. Roko Zarnic, JRC
  - 6.1. EU Cyber infrastructure – network of testing infrastructure (distributed storage & retrieval of research results)
  - 6.2 European-wide natural & man-caused hazard assessment and mitigation program including early warning system
  - 6.3 Integration of non-traditional material structural components to improve the seismic resistance of existing structures
  - 6.4 Establishing of system of prenormative research to support transfer of Eurocodes to construction industry
  - 6.5 Eurocodes, pre-normative research, guidelines and best practice
March 30 – WG3 -11 people

- Philomena Bluysen, TNO
- Ana-Cruz Garcia, IBV
- Rakel Poveda, IBV
- JP Hamelin, Soletanche Bachy
- Bernhard Hauke, Hochtief
- Antonio Burgueno Muñoz, FCC
- Guri Krigsvoll, Sintef
- Tarja Häkkinen, VTT
- Jose Maria Sala Lizarraga, Univ Basque Country
- Jan Desmyter, BBRI
- Martin Beekman, VROM
March 30 – WG3 – 11 projects

- 1. Total Building Performance (VTT)
- 2. Modelling of outdoor sources (VTT)
- 3. Human Thermal Model (VTT)
- 4. Demand Control of Indoor Climate (SINTEF) (IP)
  a. Needs and Requirements
  b. Improved indoor climate with decreased energy use and decreased costs
  c. Sensors and applications
  d. Materials and products
March 30 – WG3 – 11 projects

5. Design for all – needs, requirements and assessments (IBV)
   a. Usability
   b. Rescue
   c. Standards on European level

6. Automatic assessment of requirements concerning accessibility/usability from early design to building permit and control by use of ICT and Building Information Models (SINTEF)
   a. BuildingSmart – use and development of open standards, IFC and IDMs
   b. Transforming performance based requirements to quantitative measures used in control algorithms
   c. Ensuring fulfilment of user needs, standards and regulations
March 30 – WG3 - 11 projects

- 7. Design for all – constructions, installations, solutions (IBV)
- 8. Involving end users needs and expectations in the construction process (TNO)
- 9. Integration of services into flexible facades (composites) (TNO)
- 10. Productivity of office workers and the indoor environment quality (TNO)
- 11. Moisture control. Testing and assessment of material properties related to indoor environment with focus on moisture, mould (IBV)
March 31 – WG1 – 15 people

- Antonio Burgueno Muñoz, FCC
- Alberto Bonilla, Labein
- JP Hamelin, Soletanche Bachy
- Guri Krigsvoll, Sintef
- Birgit Meng, Bam,
- Jouko Lähkenmaki, Tampere Univ
- Sonia Moreno, OHL
- Ignacio Garcia, AIDICO
- Mitja Brilly, Ljubljana Univ
- René Wansdronk, Architect,
- Oihana Barulla, Univ Basque Country
- Rolf André Bohne, NTNU Univ
- Tarja Häkkinen, VTT
- Nikolaos Arvanitidis, IGME
- Jose Maria Sala Lizarraga, Univ Basque Country
- Baudouin Piscaer, Univerde
March 31 – WG1 – 10 projects

- Lifetime management of buildings, building stock and other constructive assets (VTT)
- Comprehensive approach for sustainable building (VTT)
- Building energy efficient management system (LABEIN)
March 31 – WG1 – 10 projects

- Global system for the prediction of sustainable impacts related to the construction and management of urban environments (LABEIN)
- Valorisation of waste materials as raw materials for high value products in the construction sector (LABEIN)
- Saving Resources by Reuse and Recycling (BAM)
- Recycled Construction Minerals (RCM’s) (SteenNet)
- Sustainable Concrete (Univerde Agency)
March 31 – WG1 – 10 projects

- Remediation of contaminated soils and containment of contamination spreading (LABEIN)
- Remediation of Polluted Soil Water Systems / Re-use of brown fields (Soletanche-Bachy)
- Phytotechnologies to monitor and remediate contaminated and degraded environments (UPV-EHU)
- Selection and suitability of plant species for specific uses (UPV-EHU)
- Biocontrol to preserve buildings and other infrastructures (UPV-EHU)
Project Section CWS to be established

- Project Presentation (PPT)
- Project Proposal (Template DOC)
  - Comments to exchange with potential partners
Plenary Assembly, Nov 21-22

- 8.00 Registration
- 9.00 Opening session
- Opening speech: Janez Potocnik, Commissioner on Research
- Invited speech (only one):
  - Enterprises for XXI century: Patrick Hennessy, Director, DG Enterprise and Industry
  - Renewable energies: Alfonso González Finat, Director, DG TREN
- 10.00 Coffee break in the poster exhibition areas
Thursday November 21st, 2006

- **10.30 Past, present and future on research in construction**
- **Research projects and networks: Vision, results and their impact on society**
  - Manubuild: Samir Boudjabeur, Corus
  - Tunconstruct: Gernot Beer, University of Graz
  - I-stone: Giuseppe Gandolfi, Pedrine
  - Eranet: Erabuild and Eranet-Transport (pending from Livia Pardi)
  - Craft on SMEs (pending from Javier Mardaras)
- **European Construction Technology Platform (ECTP)**
  - ECTP towards the future: Jesús Rodríguez, Dragados, SG chairman
  - Research priorities on construction and FP7, Luc Bourdeau, CSTB, ECTP Secretariat
  - Network of NTPs and Eureka (pending from some EurekaBuild WP leaders)
Thursday November 21st, 2006

- 13.00 Cocktail in the poster exhibition area
- 14.00 Past, present and future on research in construction (cont.)
  - SMEs involvement in R&D&I (pending from BBRI & Labein)
  - Clients and users views (pending from SBi&Eurocities)
  - Energy & construction (EDF, Siemens, .......) (pending from Acciona, S.Gobain, ...)

ECTP and FA Quality of Life
Thursday November 21st, 2006

- **15.00** Opportunities in FP7 for the construction sector, Nicholas Hartley, DG Research
- **15.30** Brokerage event for research proposals in FP7 and Eurekabuild
  - Session 1: Energy, buildings and cities (coordinators: Acciona & Saint-Gobain)
  - Session 2: Underground constructions (coordinators: Bouygues & Züblin)
  - Session 3: Cultural Heritage (coordinators: Vinci & GI ZRMK)
  - Session 4: ICT & Construction Processes (coordinators: Arup & VTT)
- **17.30** Closing of the first day
Wednesday November 22nd, 2006

- **8.30 Transport and networks**
  - Trans-European Networks: Heinz HILBRECHT, DG TREN,
  - New developments in the concession business: CEO of a Concession company
  - Past, present and future on bridges: Giuseppe Mancini, Sintecna

- **9.30 Synergy on construction related issues with other ETPs**:
  - Interactions of ECTP with other ETPs (short introduction)
    - Materials (Steel, Sustainable chemistry, ...)
    - Transport (Ertrac, ...)
    - Energy (PV, ...)
    - Safety (Industrial safety)

- **10.45 Coffee-break in the poster exhibition area**
Wednesday November 22nd, 2006

- **11.15 Brokerage event for research proposals in FP7 and Eurekabuild**
  - Session 5: Networks (coordinators: Autostrade & FEHRL)
  - Session 6: Environment (coordinators: Soletanche-Bachy & Hochtief)
  - Session 7: Materials (coordinators: Heidelberg & Univ. Marche)
  - Session 8: SMEs (coordinators: Labein & BBRI)
- **13.00 Cocktail in the poster exhibition area**
- **14.00 Summary of the parallel sessions**
- **14.30 Vision of the construction**
- **15.30 Closing of the conference**
Poster sessions

- Demonstrate positive results of research
- Identify new partners

- Focus Area Quality of Life
- Past Projects (FP5-FP6, ERANET, EUREKA, etc)
- Future Projects
Brokerage event

- Report on FA QoL activities
- Identify projects:
  - Organise projects groups
  - Put people together by round tables