

BestProduct - Teneest



E! 3517

September 2007

www.eneest.eu



ENVIRONMENTAL TESTING OF THE FUTURE



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Presentation overview

1. CEEES
2. EUREKA Project E! 3517
BESTPRODUCT
3. Other Project Proposals
4. Advantages and Conclusions

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Confederation of European Environmental Engineering Societies - CEEES

established 1984

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Member Societies

- ASTE France
- BSMEE Belgium
- AITPA Italy
- GUS Germany
- KOTEL Finland
- Nacei Czech Republic
- ÖGUS Austria
- PLOT The Netherlands
- SEE United Kingdom
- SEES Sweden
- SOPSAR Portugal
- SSEE Switzerland

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CEEES

Aims and Objectives

- Exchange of Information and Experience
- Advancement of EE science & Technology
- Achieving Recognition as an Expert Pool
- Arranging International Symposia and Workshops
- Participation in Standardization and Best Practices Elaboration
- Encouraging Members to Support each other

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ORGANISATION

- Conference of Ministers: coordinating body
- High Representatives of participating countries: to prepare and to assist the Conference of Ministers
- Secretariat
- **National Project Coordinators** of participating countries: to help establishing EUREKA projects (finding partners, defining the project, access funding,..)



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EUREKA Project (criteria)

- Proposed ,defined & managed by its partners (bottom-up approach)
- International partners from at least 2 EUREKA members
- Led by industry
- Developing hi-tech products/processes/services for the market.

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BESTPRODUCT

- Good product
- Better product
- **BESTPRODUCT**: is a product in a optimized harmony with its environment, it serves market needs as well as ecological requirements.

How BESTPRODUCT?

- Urgent need to merge in a network the knowledge of highly qualified EE specialists and to make an inventory of the existing EE technical capabilities all over Europe
- To use that experience for designing and producing a best product.
- Bestproduct-Through a European Network of Environmental Engineering Sciences and Technology.

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BESTPRODUCT-TENEEST

- BESTPRODUCT - Through a European Network on Environmental Engineering Sciences and Technologies
- EUREKA Project (Factory) Nr. Σ ! 3517 (June 2005)
- *An individual project under the Factory umbrella*



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OBJECTIVES

- To create a **network** in order to merge the EE expertise of highly qualified specialists and the EE technical capabilities all over Europe.
- This network is :
 - aiming on a durable integration of experts' knowledge
 - a platform of excellence for solving on a concrete manner relevant problems in EE
 - a tool for generating new EUREKA projects emphasizing cooperation between industries and R&D centres (bottom-up).



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Project Tasks

- Assessment of all existing EE activities, survey of research and test centres,...
- Establishment of an international network as preparation for the creation of a **virtual EE competence centre**.
- Determination of the gaps where facilities and activities are missing.
- Creation of possibilities for international co-operation
- Detection of possible research topics and stimulation of EUREKA-projects

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European Skills directory for product testing

- First initiative: the set up of an electronic European skills directory for product testing.
- A short questionnaire (registration process) is given on the EE website: www.eneest.eu
- Companies interested in EE, either as users or as service providers, are asked to express their interest in this initiative.
- The areas of interest of the company or what skills are offered can be indicated.

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SUPPORTING COUNTRIES

- Countries supporting the project:
 - Belgium
 - Finland
 - Germany
 - Spain
 - Sweden
 - Switzerland
 - The Czech Republic
 - Turkey
 - CEEES as international body is the main participant
- Project is open: countries may always join



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What has been realised?

- Kick-off meeting (Brussels 15 Feb 2006)
- Consortium agreement signed in Sept 2006
- The technical Steering Committee met 4 times
- 4 international workshops took place
- Registration Process (January 2007)
- Web site www.eneest.eu operational (April 2007)
- Networking started
- Projects proposals

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3. Eureka Project Proposals

- Creation of an artificial climate
- Ageing and life prediction
- VPET
- Simulation of ageing and corrosion



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Creation of an artificial climate in closed environments

- Creating an artificial climate in a fixed or mobile closed environment. Modelisation of a laminar airflow in a high care facility for burn patients.
- Study of all relevant parameters in creating an artificial climate in a building, active facade, shelter, cockpit, cabin, etc.
- Relevant parameters are moisture, radiation, temperature (wet and dry bulb), air movement and air ventilation.
- The study of those climates is important for human safety and comfort, but also to investigate the ageing of the materials used in “indoor facilities”

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Ageing and life time prediction in automotive engineering

- Ageing and life time prediction of light materials used in automotive engineering.(engins) and the caused environmental degradation
- Chalmers University, Sweden.
- Prof. Lars Nyborg and Ass. Prof Jan-Erik Svensson.
- Kanthal AS, Sandvik Materials Technology AB, AB Volvo (Volvo Powertrain), Volvo Car Corporation, Audi, Sweden.
- Institute de la Corrosion, University Pierre and Marie Curie, France.



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VPET

- **Virtual and Physical Environmental Testing.**
- **The goal of virtual testing is to avoid development testing of test set-ups, test fixtures, etc. and to use physical testing for validation and verification only.**
- **More limited proposal: synthesis of test profiles used in environmental vibration tests.**
 - Semcon, Sweden.
 - LMS International, Belgium.
 - RMA Belgium
 - Devotech, Norway (interested).
 - Nokia Siemens Networks , Germany
 - VTT Technical Centre,Finland

Methods for acceleration of ageing and corrosion tests

- Methods for simulation of ageing and corrosion caused by internal chemical environment in e.g. contaminated products especially in electronics.
- Methods for acceleration of ageing and corrosion caused by internal chemical environment(e.g. in electronics).
- Bodycote Materials Testing AB, DeLaval International AB, Volvo Lastvagnar, Sweden.
- Delta Electronics Testing, Denmark.
- Siemens AG, Germany (interested).



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4. Advantages & Conclusions

- Advantages to participate
- Conclusions

Advantages in participating in Bestproduct-TENEEEST

- Faster access to better information creates efficiency and productivity
- With specific problem to right expert
- Access to industry experts and the on line directory on the web site
- Possibility to exchange technical information
- Participate at new EUREKA projects in EE



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Conclusions

- A unique opportunity to become a member of a great family of EE experts.
- No or low costs
- A few minutes for the preliminary questionnaire.
- INTERNET www.eneest.eu



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QUESTIONS ?

- THANK YOU FOR YOUR ATTENTION
- DON'T FORGET TO REGISTER



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