

Member Newsletter

Issue 6, December 2010



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Word from the Secretary General

ESTEP makes recommendations for the next Framework Programme FP8

The European Commission has published important documents in 2010:

- Need for a new industrial policy, endorsed by the E Council in March ,
- Europe 2020, a strategy for smart, sustainable and inclusive growth, March
- EU 2020 Flagship Initiative on “Innovation Union”, 6 October
- EU 2020 Flagship initiative on “Industrial policy for the globalisation era”, 27 October.

ESTEP fully supports these new Flagship Initiatives which are well in line with its SRA. Structural materials have a more important role to play in the recovery plan and in future RTD programmes. Of course



Secretary General
Bertrand de Lamberterie

steel is one of these materials. Steel is an indispensable constituent of an advanced economy, and Steel is an advanced material.

For the process industries a position paper “Resource & Energy efficiency Partnership” was published and sent to the E Commission, beginning October 2010. Concrete proposals are made through a cross-sector approach gathering various material industries (steel, non-ferrous, glass, paper, chemicals, etc.). For the FP8, more emphasis should be placed on structural materials (including steel), production processes of these materials and Life Cycle Assessment approach. In collaboration with other European technology Platforms (ETPs), ESTEP is ready to contribute to the improvement of the Community’s RTD policy and European Research Area for FP8.

Mirror Group meeting of November 9

The 2010 Mirror Group was held in Brussels on 9 November, with good attendance. Twelve Member States were represented.

Progress of the ULCOS II programme :

The BF-TGR and CCS project in Florange (France, Lorraine region) is in preparation to be proposed within the NER-300 funding. The deadline is for a proposal by 9 February 2011 and award decision by mid-2012 (for the first tranche of 200 MM allowances). Total cost is 590M€. French authorities support the ULCOS project with national funding and for the administrative process. The German Federal Government globally supports ULCOS II and is ready to support financially the BF research center in Eisenhuttenstadt. The BF TGR/CCS project is part of the 2020 French-German agenda for the reduction of CO2 emissions.

The Hisarna pilot plant (8t/h) is under construction in Tata Steel, Netherlands, and first trials are planned in first half 2011.



Mirror Group meeting

Recommendations for the future FP8:

-ESTEP underlined that steel is an indispensable constituent of an advanced economy. For the FP8, more emphasis should be placed on structural materials, production processes of these materials and LCA (Life Cycle Assessment) approach. In collaboration with other ETPs, ESTEP is ready to contribute to the FP8 preparation.

- Suggestions from Spain. During the Spanish EU presidency in 1st half 2010, strong focus was put of the utmost priority on Research and Innovation in the EU 2020 agenda. Recommendations were proposed for better integration, implication and inclusion of the European Research Area (ERA).

-Suggestions from Poland. Advanced technologies for traditional industries, including steel, should be promoted in the ERA. Accompanying measures were proposed to promote and accelerate integration of New Member States into the European research system.

ULCOS II projects and recommendations for FP8 received strong support from Member States.

Success stories for ESTEP research proposals

FP7

3 projects where ESTEP's stakeholders are partners have been approved

- **BUILDING UP**, a Coordination and Support Action for setting-up a long term research & innovation roadmap to overcome technological and non-technological barriers in the construction of energy efficient buildings
- **STEELPROST**, a collaborative project on innovative fire protecting coatings for steel structures
- **MACPLUS**, a collaborative project promoting steel for energy has been approved: Material-Component Performance- driven Solutions for Long term efficiency increase in Ultra Supercritical power plants

Leonardo da Vinci fund

Proposed by the Working Group 5, the **Greening Technical VET** (Vocational Education & Training), a sustainable training module for the European steel industry has been approved within the Leonardo da Vinci fund.

RFCS

Even if the Research Fund for Coal and Steel remains a bottom-up approach, annual priorities are defined. The different ESTEP Working Groups have made numerous proposals in line with these priorities and obtained for the last call a success rate of 35% which is much higher than the average.

WG1-Profit

During the last meeting of the year, several items have been covered:

- A survey was made on the numerous proposals addressing RFCS annual priorities that were submitted for the 2010 call



WG1-Chairman
Christian Marique

- An analysis of the roadmap on energy efficiency delivered by WG4 has been launched and will be pursued during the next meetings

- The preparation of demonstration projects on heat recovery introduced by Siemens-VAI: A feasibility and economic approach is ongoing with potential industrial partners on three different topics: sinter cooler, EAF flue gases, slag granulation. More detailed information would be available for end of 2010

- The sub WG "Intelligent Manufacturing" has been confirmed in its mission and is working to finalize a proposal in line with the call "Factories of the Future" inside the PPP's initiative (Deadline: December 2, 2010)

WG2 Transport

The third meeting of Workgroup 2 (Transport) this year was held on September 20, 2010. The participants agreed that facing the megatrend of the electrification of mobility and road transport the steel industry has to point out the cost, performance and environmental advantages in comparison to non-ferrous materials.

A lot of lightweight concepts were developed for future electrified car models



WG2-Chairman
Oliver Hoffmann

to reduce the CO₂-emission in the future. Supported by the European research programs, e. g. the "European Green Cars Initiative" which is one of three current Public Private Partnerships (PPP), excellent proposals and ideas were created. Unfortunately steel is not the material of choice at the moment ignoring the fact that life cycle assessments (LCA) show advantages through screening the whole process from ore winning to the last kilometre of a car and - beyond that - the steel recycling which allows the process to start again.

Workgroup 2 focuses on a position paper now that intends to make clear the relationship between the sustainable environmentally friendly material choice of steel and the reduced emission of greenhouse gas (CO₂) during life cycle. The participants agreed that the statement should cover at least the topics LCA (in cooperation with Worldautosteel), cost, recycling, safety, strength levels, electric applications, electromagnetic compatibility, availability and the message that European steel producers are in a pole position!

The next WG 2 meeting takes place in Brussels on December 15, 2010.

WG3 Construction

WG3 is continuing to focus on the priority topic area of Sustainable Steel-Intensive

Construction: Life cycle optimisation of steel solutions for energy efficient buildings (where Life cycle should take into consideration manufacturing, assembling, re-use, recycling, energy efficiency). This has resulted in at least 5 key project proposals in this priority area being submitted into the current ERFCS call with at least 1



WG3-Chairman
Tim Hurd



member of the WG3 being involved. The WG has also, largely through its membership of the E2B (Energy Efficient Buildings) Association become a consortium partner in the FP7 Coordination and Support Action project 'Building Up': "Multi-stakeholder, Cross-sectorial, Collaborative long term Research and Innovation Road Map to overcome Technological and Non-technological barriers towards more energy-efficient buildings and districts". This project aims to create an effective coordination of ETPs and major initiatives whose SRAs and activities address energy efficiency in the built environment, identify and review the needs in terms of long term research and innovation, and to build a collaboration framework which will be an effective demonstrator to draw guidelines and policy recommendations for the engagement of the public and private sectors in the area of Energy Efficient buildings. This project, which is expected to start in January will put the WG into a very proactive position with important platforms, networks and the E2B Association to input Steel Technology, ideas, and expertise.

WG4 Environment

The last WG4 meeting has been held in Paris the 15th September, 2010. During this working session, different subjects have been tackled:

- the RFCS project ,which have been proposed in the 2010 session, as well as the future relevant FP7 calls have been reviewed.
- Mr Janssen, from TNO, presented the activities of the Water Supply and Sanitation Technology Platform (WSSTP). After the discussion, the following was agreed:
 - If new calls of interest are appearing, WG4 will contact WSSTP.



WG4-Chairman
Jean-Pierre Birat

- a workshop will be organised with the objective to produce a common text for a call
- During the meeting, it was agreed to finish up the Roadmap regarding the new calls of the 7FP (DG Energy and DG Research, SET-Plan on Energy efficiency and CO2 lean processes, Energy Intensive Industries). Since then, JP Birat, chairman of the WG4, produced on behalf of the WG4, the report entitled: A short roadmap addressing the strategy of the steel industry in the fields of sustainability, energy, CO2 and environment - as an example of an Energy Intensive Industry.
- as a conclusion of the meeting, it was also agreed to renew the mandate of WG4 and, in order to get to this point, the chair asked the participants (and excused members) to participate in writing down their vision for the group. Different contributions have already been received. The new mandate will be agreed during the next meeting.

WG5 People

WG "People" made an important step forward in the second half of 2010. After mid-term plans three important activities unfolded.

Besides our main issues attracting and recruiting and training we decided to focus on health and safety issues as well in future. After identifying experts from the steel industry a 1st ESTEP workshop on occupational safety in the steel industry took place at ThyssenKrupp Steel Europe in Duisburg, Germany on the 13th July 2010. Participants from steel companies explained the current status quo in safety projects and discussed future challenges. Common priorities and issues to be worked out in future were defined. At the WG5 meeting in Brussels in September 2010 the work proceeded and might lead to a research proposal in 2011.



WG5-Chairman
Rudolf-Carl Meiler

The submitted application "Greening technical vocational education and training - Sustainable training module for the European steel industry" was successfully accepted by the European Commission in August 2010. The evaluation of the application was quite positive as we received a 90% score. The project start is scheduled for January 2011 with a duration of 24 months.

Moreover, WG "People" organised the ESTEP conference "Talent Management in the steel industry" that took place at Stahl 2010 on the 11th November in Düsseldorf, Germany. We received a positive response to our invitation from more than 400 applications for the full day conference. The main outcomes of the conference were recapped in the "Düsseldorf Declaration - towards an integrated European Talent Management policy", that is available for the public.



ESTEP SG speaks at Stahl 2010



WG5 Chairman speaks at Stahl 2010

WG 6 Energy

The participation in the WG6 Energy is continuously growing, many big companies have requested to become members. The exchange of information among partners has reached a very interesting technical level. As a result of this work in the RFCS frame the number of proposals submitted by the group on energy topics has strongly increased in the last years from quite a few to more than 15.



WG6 Chairman
Pietro Gimondo

Also in the FP7 the number of projects presented starts giving the first results. At the current time two quite big projects are under negotiation in the FP7 frame, with the participation of various companies coming from the steel, energy and also the nuclear industries.

Participation of new members is always welcomed and moreover there is the strong intention to increase the participation of representatives from the new Members States.

WG on steelmaking energy efficient steel production

This working group is co-piloted by Eurofer (climate change committee) and ESTEP's Support Group. Participants are experts in energy from the steel companies and steel research centers. During the first two meetings the methodology for the data collection of energy performances was clarified. The results will be analysed next year after the collection of 2010 data. A first view of existing best practices within the plants and for the different steps of production was shared. The work will continue in 2011 in order to identify the best existing energy savings technologies and to propose new topics of R&D in this area.

ESTEP Membership

One of the most frequent questions for the ESTEP secretariat: How can I join ESTEP?

When ESTEP started, the whole European steel industry in EUROFER joined forces with steel research institutes and these formed the basis for the platform together with the European Commission and Member States. Machine builders and representatives from universities (time) and universities have been invited to join the platform. However these "founding fathers" are not the exclusive members of ESTEP. ESTEP is open to any organisation with activities linked to steel research and technology. As a platform we want to be a forum for steel dialogue in the steel sector and relevant public organisations. The main request is that new participants not only join but become really active members to participate in the day to day activities of the working groups: setting up roadmaps, defining priorities, formulating proposals and setting consortia, communicating with relevant bodies over common themes. Any application will be handled in principle through the respective working group. A definitive decision on participation is after a few meetings to assess whether membership is useful for both sides. In this way the membership has changed over the years. ESTEP has now also members from outside the EU.

Colophon

The ESTEP Member Newsletter is issued on a regular basis by the ESTEP Secretariat to the ESTEP members. The editorial panel consists of Bertrand de Lamberterie, N. Remoy and Wim Moonen.

Contributions for the newsletter can be sent to the ESTEP secretariat.

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Events 2010

SET-Plan workshop on Iron and Steel

E.Commission 15 January 2010

Support Group meeting

ESTEP, Brussels 19 January 2010

Steering Committee

Luxembourg 3 March 2010

ETPs Annual conference 11, 12

Brussels May 2010

Implementation Group

ESTEP, Brussels 15 June 2010

Support Group

ESTEP, Brussels 16 June 2010

European Industrial Technologies Conference

Brussels 7,8,9 September 2010

Ulcoss dissemination day

6 October 2010

Ijmuiden

Implementation meeting 26 Oct 2010

ESTEP Brussels

Support Group meeting

ESTEP, Brussels 27 October 2010

Mirror Group Meeting

Centre Borschette, Brussels 9 Nov 2010

Talent management in the steel industry

Dusseldorf 11 November 2010

Forthcoming

Joint meeting RFCS TGs and ESTEP

WGs Brussels 6 January 2011

Support Group meeting

Brussels 26 January 2011

Steering Committee

Brussels March 3 2011

International conference on energy efficiency & CO2 emissions in the Steel Industry

Dusseldorf 27 June 2011 – 1 July 2011

1st steel spring school

2011