

Editorial

Dear Reader,
despite the summer holiday season at the beginning of the last 6-months-period Co₂olBricks was very present all over Europe at many conferences, exhibitions, fairs, forums, congresses and excursions which shows the big demand for information about energy efficiency in historic buildings. The most important Co₂olBricks event was the Co₂olBricks Midterm Conference on 17 September 2012 in Malmö in Sweden.

The pilot and research projects are making good progress, in Hamburg the first 4 flats are readily equipped with wall heating, convection heating and internal capillary active insulation, in Riga the construction work is about to start and in Kohtla-Järve the planning for the start of work in spring has begun.

Enjoy reading

Yours sincerely



Co₂olBricks Project Coordinator



Co₂olBricks Midterm Conference in Malmö, Sweden with fruitful discussions

On 17 September 2012 the Co₂olBricks partners had their Midterm Conference with the presentation of the interim results of the project and fruitful discussions with numerous participants with different backgrounds and members of the partner project CLICC. The event took place at the Malmömassan in Sweden and was combined with the 7th partner meeting in Copenhagen, Denmark.

After a general presentation of the projects results so far, the three different aspects to implement the combination of climate protection and preservation of historic buildings „policy development“, „technical innovations“ and „education and economic promotion“ were exemplified.

The following lectures focussed on political issues like the policy and guidelines for historical buildings, the implementation of the EPBD and the climate goals and climate plans of the Cities of Malmö and Copenhagen. In addition, lifecycle perspectives and reductions through behavioural changes were explicated

The closing panel discussion among the speakers with the motto „Cultural heritage challenges EPBD – should cultural heritage be included in the EPBD?“ pointed out again, that it is less the question „if“ historical building should be implemented and especially considered in the EPBD, but more „how“. Different approaches, some with a technical focus, some with a flexible focus are possible and the alternatives reflect the different reactions on regulations.

all presentations on www.co2olbricks.eu



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Transnational Co₂olBricks Project Partner Meeting at Vilnius Gediminas Technical University

At the beginning of November the Co₂olBricks partners and the steering committee members met in Vilnius to continue the discussion about the development of the project, the results so far achieved and the steps to follow. Every day of the meeting was focused on one of the three main work packages to implement the combination of climate protection and preservation of historic buildings.

The first day started with the steering committee meeting and went on with a workshop about the “Policy development” for all project partners. The day was closed with a get-together and dinner in the downtown of Vilnius. The second day was reserved for the work package “Education and economic promotion”. During a break in the afternoon a guided tour was organised with detailed insights into the history of the city and the Lithuanian way of monument preservation. The third and last day consisted of discussions about the third theme “Technical innovations”.

The main topics during the three days have been about learning from the pilot project and proposed measures for increasing energy efficiency in historic brick buildings, harmonised curricula and education material for different target groups and also guidelines, business plans and templates.

All the discussions emphasized again the need to look at the whole cycle of refurbishment for energy efficiency and preserving the cultural and historical value.



Third Baseline Study and Interim Brochure published and ready to download

The third Baseline Study „Educational Situation and Labour Market Conditions in the Baltic Sea Region - Baseline Study of Work Package 5 „Education and Economic Promotion““ and the Interim Brochure „Energetic refurbishment of historic buildings in the Baltic Sea Region“ are published and available to download at www.co2olbricks.eu

Two more Danish Refurbishment Reports published

Two more danish report about „Upgrading the energy performance at Kavalergården“ and „Upgrading the energy performance of Elmehuset in the Old People’s Town“, both situated in Copenhagen, are available to download at www.co2olbricks.eu

News from Germany

Co₂olBricks' successful Hamburg Summer of Architecture

During this years Hamburg Summer of Architecture Co₂olBricks organised three events to show an example where the historic brick façade was not touched but the total heating energy consumption was reduced by 2/3. Thanks to some funding by the City of Hamburg it was possible to keep the increase of the rent to a level almost equal to the saved energy costs. Because the house is in a low income area this is very important for the tenants as well as for the landlord. If the rent is too high people would move out and he would be left with an empty house gaining no return on his investment.

It has to be admitted that the historic building was not kept untouched. The back side was insulated externally, the attic was turned into additional flats, the roof was lifted up a little bit and insulated, new highly insulating windows were installed in the back facade, the windows to the street side were as well modernised but only with double glazing instead of triple glazing, the cellar was insulated and a modern boiler installed for the heating and hot water. Additionally a solar thermal system was installed on the roof.

The visitors were shown the street façade, the back yard, the roof with the solar thermal system and the cellar with the new heating system. Afterwards in a panel discussion the possibilities were discussed how the protection of the climate and of historic buildings can be combined. One of the main outcomes of the discussion was that not all CO₂-reduction has to come from reducing heating energy, but that already a 30% reduction can be achieved by switching the electricity generation to 100% renewable. It is the political agenda in Germany to achieve this by 2050. This leaves just another 70% energy reduction that has to be achieved by the heating. This can also be achieved in a historic building as it was shown by the example demonstrated in the Summer of Architecture.



Co₂olBricks visited brickyard

On 14 August 2012, the Co₂olBricks partner Hamburg Department for Heritage Preservation organised a stakeholder meeting with an excursion to compare two different techniques to make bricks. In Glückstadt ca. 60 km down the river Elbe towards the North Sea the first brickyard named "Ziegelwerk Blohmesche Wildnis" was visited. All phases of the working process were explained in situ. The process starts mixing the different elements - for example clay and water - in different percentages and continues shaping the soft brick by extraction in a long beam. After cutting the long beam the bricks are put into the drying chamber and afterwards on a railway like a big tray by which the raw bricks are moved through the fire. The actual time in the fire fuelled by natural gas of ca. 1100°C is 3 hours. This the principle of the modern process of producing bricks.

After crossing the river Elbe by ferry the old fashioned way of making bricks was shown in Drochtersen at the "Ziegelei Rusch" founded in 1881. Here the principle is different in that way that a very big kiln is built that is separated in 22 segments that can be separated into chambers. Each chamber is filled with raw bricks and then the fire is started. The manually regulated fire burns for ca. 24 hours and then the fire is moved to the next chamber. The previous chamber starts to cool down. The whole process from filling the chamber, slowly heating it up, increase the fire to the full heat of ca. 1100°C and cooling down takes ca. 3 weeks. It was really interesting to see how the same process was developed during the years.

During the lunch break, Mrs. Eng. Heike Pfaff presented for Co₂olBricks a short presentation called "Schlagregensicherheit von Mauerwerk herstellen, aber wie?!" in which she explained to us the possibilities how old brick walls can be made rain proof.

During the bus drive, the lunch break and the visits the participants from the Hamburg Ministry of Urban Development and Environment, three professors from Universities from Hamburg, the Heritage Departments of Hamburg and Kiel and architects had lively discussions about the many aspects of technical and administrative problems of preserving historic brick walls.





Co₂olBricks at Fair and Conference “denkmal 2012”

From 22-24 November 2012 Co₂olBricks presented their activities at the trade fair “denkmal2012” in Leipzig where every two years experts from all areas of heritage preservation come together to show their products, to discuss current topics and to do networking.

Co₂olBricks joined the stand of the German Association of Heritage Preservators (VdL) because their main topic this year was the energetic refurbishment of historic buildings. Therefore the workgroup “building technique” of the VdL presented under the headline “Tailor-made – Energetic retrofitting of historic buildings” a very interesting exhibition with best practice examples from all Federal States in Germany.

On the traditional reception at the stand with around 100 participants, Albert Schett gave some welcoming words and pointed to the expert conference focussing on “heritage preservation and climate protection” which took place on 24 November and where he gave a detailed presentation of the Co₂olBricks activities.

Dr. Daniela Scherz participated in the CONTACT program – an international cooperation exchange organised from the Enterprise Europe Network (EEN). Held as a match making event for experts Co₂olBricks got the opportunity to make new business contacts to share knowledge and to work together on issues concerning all fields of heritage preservation and refurbishment.

In addition to the German project partners from the Heritage Preservation Department in Hamburg, Co₂olBricks project partners from Estonia (Information Center for Sustainable Renovation NGO (SRIK)) and Finland (KIINKO) took the opportunity to come together with international experts and to catch up on new developments.

News from Sweden

„Spara och Bevara“ - joint exhibition at Almedalen

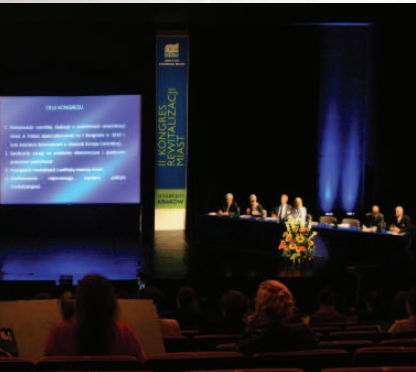
The Baltic Sea Region program project Co₂olBricks represented by work package leader of WP 3 and the national research program Spara och Bevara made a joint effort and made an exhibition at the political week in Sweden in Almedalen. It communicates the projects work and aim within energy efficiency and cultural heritage buildings to the gathered target groups of politicians, organisations and others who want to raise a political or social issue.

In 2012, at Almedalen Week there were 1 476 events in the official program, approximately 800 organisers and an estimated 14 000 persons took part. Audiences at speeches are not included.

The exhibition on Energy Efficiency in the Hanseatic house of Burmeister, in the middle of the crowds, has attracted hundreds of visitors per day. Lars Amréus, the director-general of Swedish National Heritage Board, took the opportunity to visit the exhibition on Thursday and summarised his first Almedalen week in positive terms: „Our presence in Almedalsveckan is important.“

Christian Runeby, the head of unit, says that the show has contributed to strengthening cooperation with research. “Work has been permeated by a shared vision of our mission and a personal commitment that may be influenced by the Gotland work culture”, says Christian.





News from Poland

Co₂olBricks on Second Urban Regeneration Congress

On 12-14 September 2012, the city of Cracow held its Second Urban Regeneration Congress. The first edition of this event in 2010 was a huge success for the organiser – the Institute of Urban Development. So it was this year, when the next edition brought together nearly 250 professionals from various areas, such as architects, conservators, representatives of local authorities, ministries and scientists from all over Poland. Since the renovation of the building is an important part of urban renewal, the European Foundation for Monuments Protection, Polish partner of Co₂olBricks, decided to participate in this event.

The goal of the Congress was to provide a forum for a large group of people, representing research circles and towns and cities, who are directly involved in regeneration projects, together with politicians, to present the main directions of urban policy including regeneration programs conducted on all levels of urban management. This Event gave opportunity to reach a group of people, who also deal with the issue of refurbishment of historical buildings.

Main topics of Congress were

- National heritage preservation in the process of regeneration,
- Regeneration of post-military and former railway sites,
- Monitoring of regeneration programs,
- Regeneration of housing estates (identification of problems, examples of solutions)
- Economic and social aspects of regeneration.

The congress was divided into daily plenary sessions, thematic sessions and discussion panels. There were two thematic sessions especially relevant to the issues of the Co₂olBricks project:

- Thematic Session A (First Day of Congress): “Historical Heritage in Urban Regeneration” with presentations of best practice protection of historic buildings in the process of revitalisation. One of them was about the complex revitalisation of several historic brick buildings in Warsaw, located within “Koneser” Vodka Distillery.
- Thematic Session B (Second Day of Congress) “Problems of Regeneration of Downtown Areas”, where guests could get familiar with refurbishment plans of brick houses in Łódź, planned to be rebuilt in public/private partnership, using new technologies and materials (energy efficiency). On the other hand, officials from Polish towns presented their successes in complex revitalisations of downtowns areas.

The thermal problems of historic buildings and energy efficiency have been noticed and appreciated by the participants who visited the Co₂olBricks promotional booth and filled out the questionnaire about energy efficiency of monuments issues in Poland. At place they could become familiar with the multimedia presentation of the project, find out about its issues and achievements and receive promotional materials.

During the time scheduled for exchange of opinions, a representative of the Foundation led discussion on issues of brick buildings refurbishment, in particular trying to pay attention to the methods of thermal insulation, and related legal conditions in Polish and European law. Thoughts made by few monuments conservators, officials and architects were so interesting and relevant that they were worth mentioning. For example, one of representatives of municipal authorities claimed, that the introduction of an energy audit requirement for historic buildings can result in prolongation of the revitalization project preparation and increase it's cost. On the other hand was the opinion, that it would help with showing the real operating costs off the facility for potential investors. Other voice comes from local monuments conservator, who said that knows a few examples in Poland, where similar buildings considered as the same and insulated in the same way. Unfortunately, what turned out to be good for one building turned out to be fatal to another and result in degradation of the brick facade. He pointed out that it should be to promote an individual approach to the monument in determining methods of modernization.





Torun - Polish capital of monuments

On 18-19 October 2012 the city of Toruń held two important and connected events: XVII Monuments Conservation Fair “Konservacje” and XV Conservators Forum. The first one is an annual exhibition event for representatives of the services and products relating to the maintenance of historic buildings. The forum was devoted to monuments financing by EU funds and workshops on the quality and accuracy of conservation treatments. The European Foundation for Monuments Protection was present at these events to learn about the latest trends in conservation and draw attention to the problem of thermal insulation of historical buildings.

The first day of the Conservators Forum, which was organised by the Scientific Society for Organisation and Management, was filled with presentations about: how EU funds, via Polish programs, can help to protect monuments. Panellists showed several interesting examples, like the renovation of the District Museum in Toruń or maintenance work inside the Gniezno Cathedral.

During the second day workshops on methods for conservation treatments were held during which a special emphasis was put on issues of organization and maintenance of technological elements. Subject of the workshop were selected historic buildings of Toruń. During the time scheduled for exchange of opinions a representative of the Foundation led the discussion about issues of brick buildings refurbishment, in particular trying to pay attention to the methods of thermal insulation. Due to the presence of conservators from across the Poland, it was a great opportunity to conduct another survey on the problem of increasing the energy efficiency of monuments.

A parallel event in Toruń was the fair “Konservacje” during which representatives of the Foundation looked for new technological trends in insulation of historic buildings.

These events made Toruń in October in the Polish capital of monuments conservation. Thanks to the fair it was possible to learn about the latest technologies in the field of maintenance. On the other hand - the forum served as an exchange of views and information on best practices in renovation.

Co₂ol Bricks visits conference „European Territorial Cooperation - Experiences and Perspectives“

On 25 October 2012 the important conference “European Territorial Cooperation - Experiences and Perspectives“ was held in Wrocław, organized by the Polish Ministry of Regional Development. The event hosted the representatives of many cross-border projects implemented in Poland, including the European Foundation for Monuments Protection with presentation of the Co₂olBricks project.

The goal of the Conference was to sum up the achievements of cross-border programs in Poland, presentation of best practices in the implementation of ETC and perspectives for the new budget period 2014 – 2020.

During the first presentation figures showing the results achieved in the implementation of ETC Poland were presented. They displayed that 90% of ETC funds are contracted, which translates into 1000 projects and more than 4500 micro-projects implemented in 10 programs.

The middle part of the Conference was filled with discussions on the future of cross-border cooperation instruments and their funding in the upcoming budget perspective 2014-2020.

In addition to the presentation of four selected projects, representatives of others projects had the opportunity to put a presentation of their project in the foyer of the Congress Hall. The European Foundation for Monuments Protection placed Co₂olBricks promotional material and a presentation of the project. Guests of the conference could get information on the achievements of the project and receive promotional materials. Representatives of the Foundation also invited participants to complete surveys on the problem of increasing the energy efficiency of monuments.

The presence of representatives of the Co₂olBricks project proved to be a very good idea, because it turned out that it was the only project in the Baltic Sea Region Programme present at this conference.



Pomeranian Energy Days

On 25-26 October 2012 Gdansk was the host of the Pomeranian Energy Days (PED) organised by the „Pomeranian in the European Union“. This dynamic event brought together research institutions, energy industry entrepreneurs and youth education animators to present and discuss about energy efficiency, renewable energy sources and the prospects of the development of these areas in the region.

One of the topics was energy efficiency presented during the second day of PED. Because it is one of the main topics of interest in the project Co₂ol Bricks, the European Foundation for Monuments Protection decided to participate in this part of the event. In a promotion box visitors were provided with know-how about issues of energy efficiency in monuments and information about other project activities.

The Co₂olBricks box captured great interest among young students who frequently visited the convention. Some of them, who represented the construction and architecture department of the Technical University of Gdansk asked specific questions about the future of monuments which consume large amounts of energy. One of the students even asked „What about renewable energy sources? Is it possible to cut the consumption of thermal energy and, at the same time, replace the existing source by ecological sources?“

News from Belarus

20th International Specialized Exhibition BUDPRAGRES

The 20th International Specialised Exhibition BUDPRAGRES 2012 took place in Minsk on 3-6 September 2012. The Exhibition was organised by JSC „MinskExpo“ with the support of the Ministry of Architecture and Construction of Belarus and Belarusian Union of Builders. The exhibition gathered more than 350 participants from 12 countries (Austria, Belarus, Germany, Latvia, Lithuania, Poland, Russia, Turkey, Ukraine, Finland, Czech Republic and Switzerland).

The welcoming speech to participants and guests of the exhibition was held by Irina Arkhipova, first Deputy Minister of Architecture and Construction of Belarus. The official opening ceremony was also attended by Galina Polyanskaya, chairwoman of the Standing Committee on Housing Policy and Construction of the House of Representatives of the National Assembly of Belarus.

BUDPRAGRES is the largest event in Belarus in the field of construction. The exhibition covers a wide spectrum of construction activities: building materials, technologies and design; engineering services and equipment for buildings and structures; landscaping; construction and road machinery; tools and equipment; architecture and design; lighting equipment; engineering; heating and ventilation; plumbing; energy- and resource savings.



German Deputy Ambassador to Belarus visited RCTT

Mr. Peter Dettmar, deputy head of mission at the German embassy in Minsk visited RCTT on 22 November 2012. At the meeting, the Belarusian side was represented by Dr. Sergei Chizhik, Deputy Chairman of the NAS of Belarus and Dr. Alexander Uspenskiy, Director RCTT. The guests were informed about the NAS of Belarus and Centre's activity. Parties discussed of possible directions and forms of cooperation. During the meeting, Mr. Peter Dettmar was informed about Co₂olBricks and Mr. Peter Dettmar was given a set of materials prepared by the project.

News from Lithuania

Co₂olBricks at VI Annual Lithuanian Urban Forum

On 15 December 2012 Co₂olBricks presented their activities at the VI Annual Lithuanian Urban Forum organised by the Ministry of Environment in Vilnius, where experts of town planning, architecture, heritage preservation discussed current topics.

The forum's mission is to enhance the balanced and sustainable development of cities and towns as well as boroughs of Lithuania by means of supporting coordination and public dialog on long term development priorities, and creating and promoting up to date standards for planning. The forum's goals are to give a comprehensive look at the problems of urban modernisation and the renovation of urban structures, public places in accordance with the principles of sustainable development.

The core theme of the Forum was "Modern cities and towns: Present situation, development tendencies, visions". The discussion was held on the following topics:

- How to keep Lithuanian cities, towns and villages, attractive and viable, to improve people's living conditions, to use natural, cultural and energy resources rationally and prudently;
- How to stop urban incoherence and the „ageing“ of inner areas;
- What should the Lithuanian urban policy and spatial planning system be like to, ensure sustainable development, to allow the concentration of financial resources, to promote actions and efforts in the efficient modernisation of residential areas and housing?

Nearly 300 participants attended the forum program - representatives of governmental institutions, municipalities, universities, planning and design companies, researchers as well as students, public, interested in town planning. Co₂olBricks project activities and achievements were presented by Jurgis Zagorskas. His presentation opened the theme of cultural heritage in our towns. Two more presentations concerning cultural heritage were presented and followed by discussion on this topic. 150 Co₂olBricks leaflets were distributed during this event. Specialists have shown great interest in expected results of the project and more contacts were established.



Dates and Events

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| • 11.-13.02.13 Riga Latvia | Co ₂ olBricks Project Partner Meeting |
| • 28.02.13 Minsk Belarus | V. Practical Conference „Energy efficient construction in Republic of Belarus: modern energy saving technologies“ |
| • 16.-19.04.13 Minsk Belarus | 14th International Specialized Exhibition „Belorussian Construction Week 2013“ |
| • 03.-06.06.13 Kiel Germany | Co ₂ olBricks Project Partner Meeting |
| • 04.-07.09.13 Minsk Belarus | 21th International Specialized Exhibition „BUDPRAGRES 2013“ |
| • 16.-18.09.13 Gdansk Poland | Co ₂ olBricks Project Partner Meeting |
| • 20.-22.09.13 Tallinn Estonia | Festival „EcoMess - for better living environment“ |
| • 18.11.13 Brussels Belgium | Co ₂ olBricks Information Event |
| • 03.-05.12.13 Hamburg | Co ₂ olBricks Results and Declaration Signing Event |

find more information and updated events on www.co2olbricks.eu

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p.5, p.6, p.7 · Mateusz Kirjak, European Foundation for Monuments Protection
p.7 · RCTT Belarus | p.8 · VG TU

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