

D7.6 – Workshop in Ghent

Project Information

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Deliverable Information

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Deliverable title	Workshop in Ghent
WP no.	7
WP Leader	WIED
Contributing Partners	Architectenbureau Bressers (17) Technische Universität Wien (16), Metropolitankapitel Der Hohen Domkirche Köln Dombauverwaltung (7), Fundacion Catedral Santa Maria (11), Organic Waste Systems (18), Otto-Friedrich-Universität Bamberg (8)
Nature	
Authors	Architectenbureau Bressers (17)
Contributors	
Reviewers	
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Dissemination Level

PU	Public	✓
PP	Restricted to other programme participants (incl. Commission Services)	
RE	Restricted to a group specified by the consortium (incl. Commission Services)	
со	Confidential, only for the members of the consortium (incl. Commission Services)	

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1 INTRODUCTION

On Tuesday the 24th of October, local professionals in field of architecture and stone conservation were provided with a program consisting of theoretical lectures in the morning and practical demonstrations in the afternoon. The lectures dealt with the issues surrounding the Balegem stone, existing and innovative techniques for its conservation, and the research conducted in the Nano-Cathedral project.

In the afternoon, several test methods were demonstrated, giving participants insight in state of the art research procedures and the assessment and comparison of new and existing products. On top of that, partakers got the chance to get acquainted with products available on the market and got the opportunity to visit the test sites on the Cathedral.

To end the day, external local researchers presented their own findings and test results to the audience to provide an overview of local and international research around the conservation Stone.

Goal of the workshop was to provide in clear and well-substantiated information about (1) Balegem stone, (2) state of the art conservation methods and (3) research on nano technology to local experts.

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2 GENERAL INFORMATION

2.1 Title

"Nano-Cathedral workshop in Gent"

2.2 Date:

Tuesday 24/10/2017

2.3 Location:

Sint-Baafshuis, Biezekapelstraat 2, 9000 Gent

2.4 Organizers and Contributors:

Workshop organised by Architectenbureau Bressers by ba (partner ARCHI) and Ghent University (Tim De Kock). Consortium contributions by Jasper Völkert (Dombau Köln) and Matea Ban (TU Wien). External contributions by Nathalie Vernimme (Flemish Government - Dept. of Built Heritage) and Tanaquil Berto (KIK/IRPA).

Open platform contributions by Alexandra Schmölder (University of Bamberg), Barbara Lubelli (Delft University of Technology), Lasse Six (OWS) and Pablo García Lumbreras (Fundación Catedral Santa María).

2.5 Language:

Presentations and demonstrations in Dutch and English.

2.6 Translation service foreseen (yes/no):

No.

2.7 Target Audience:

All people professionally involved with stone conservation (governments, architects, stone restorers, ...). The geographical scope of the workshop is defined by the areas in which Balegem stone is commonly used: Flanders and (some parts of) the Netherlands.

The group of attendees consisted of:

- Government officials;
- Independent stone restorers;
- Architects;
- Contractors;
- Producers;
- Members of the church council of St. Baafs;
- Academics;
- Press.

2.8 Foreseen number of people:

Maximum amount of participants: 100.

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2.9 Actual number of participating people:

Total number of participants: 66.

2.10 How were participant invited?

Online flyers, distributed by e-mail (using a list of professionals in the field of stone conservation), social media (Facebook and Twitter) and online newsletters or calendars of specialised institutions or websites.

2.11 Used communication tools for workshop visibility/publicity:

Social media (Facebook, Twitter and Instagram) (see annex).

E-mail (distribution of save the date & program flyers, informative mail to press and specialized media).

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3 DESCRIPTION OF WORKSHOP

3.1 Objectives and description of the event:

Providing in clear and well-substantiated information about (1) Balegem stone, (2) state of the art conservation methods and (3) research on nano-technology.

3.2 Practical lessons on site:

Practical demonstrations of application methods and on site test methods used during the project: Photographic documentation, DRMS, Karsten tube, Contact sponge, Colour measurements and Microscopic evaluation.

3.3 Assessment of results:

During the meeting, a questionnaire of the Bamberger Centrum für Empirische Studien (BACES) concerning the organisation of the workshop and the (future) use of nano products, was handed out to all participants. Afterwards 30 completed surveys were collected.

3.4 Results and Expected Impacts:

The number of attendees reached 66, of which the most are well known in the field of stone conservation, either as a practitioner, consultant, government official or academic researcher. We can conclude that the workshop reached a rather wide audience. It is expected to have following impact:

<u>Local awareness</u>: For the moment the Belgian restoration community (including academic researchers, on site restorers, architects, consultants and governments) is reluctant towards the use of chemical agents for protection and consolidation of stone. The workshop shall not only create awareness about the new possibilities (products, techniques and research), but can also add to the local discussions about contemporary restoration philosophy and restoration techniques.

<u>Feedback about local relevance:</u> The workshop shall familiarize the local experts (in situ applicants, consultants) with new products and will enable the Consortium to gain feedback about the local relevance (on a scale broader than just the Cathedral) of their specifications and applications.

<u>Economical feasibility:</u> The workshop can cast a light on the local economical feasibility of new commercial products. Do the local experts consider the possibilities and specifications of these products as an added value compared the existing range of products? Would there be a local economical market for these products?

3.5 Modifications from what had been planned in Deliverable D7.5 "Training public plan":

None.

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4 AGENDA

09u00 - 09u15 Welcome

09u15 – 12u30 Lectures

09u15 - 09u35 "Onderzoek rond onroerend erfgoed door de Vlaamse overheid" (NL)

Translation: "Research by the Flemish Government concerning Built Heritage"

by Nathalie Vernimme

Advisor Research Programming at the Flemish Government - Dept. of Built Heritage

09u40 - 10u00 "Verval en conservatie van Ledesteen in een historisch perspectief:

de Gentse Sint-Baafskathedraal als case-study" (NL)

Translation: "Decay and conservation of Balegem Stone in a historical perspective: Saint-

Bavo's Cathedral as case study"

by Ignace Roelens

Project manager / technical & quality manager at Bressers Architecten byba

10u05 - 10u25 "Ledesteen in Vlaams erfgoed materiaaltechnisch bekeken " (NL)

Translation: "A technical analysis of Balegem Stone in Flemish heritage"

by Tim De Kock

FWO Postdoctoral researcher at Ghent University - Dept. Geology

10u25 - 10u55 Coffee break

10u55 - 11u15 "Stand van zaken: consolidatiemogelijkheden en -beperkingen van Ledesteen met

producten op basis van ethylsilicaat "(NL)

Translation: "State of the art: possibilities and limitations of consolidating Balegem

stone with products based on ethylsilicate "

by Tanaquil Berto

Collaborator at the laboratory dept. of KIK/IRPA (Royal Institute for Cultural Heritage)

11u20 - 11u40 "Efficiency and compatibility of newly engineered nano consolidants" (ENG)

by Matea Ban

Reseacher at Institute of Geotechnics of TU Wien and member of the Nano-Cathedral

consortium

11u45 - 12u25 "Testing of on-site applications: methodologies and results of the Nano-Cathedral project

in Ghent "(ENG)

by Jasper Völkert

Stone restorer at Dombau Köln and member of the Nano-Cathedral consortium

and Tim De Kock

FWO Postdoctoral researcher at Ghent University - Dept. Geology

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12u30 - 13u45 Lunch break

13u45 - 15u30 Workshop / practical demonstrations

Practical demonstrations of applications and test methods used during the project.

15u30 - 15u50 Coffee break

15u50 - ... Open platform

Open platform to allow local experts, external to the consortium, to share their findings on the topics discussed, giving the attendees an overview of local and international research around this topic. Open platform contributions were provided by the following people (consortium members are indicated with *):

- Alexandra Schmölder (*), University of Bamberg Institute of Archaeology, Heritage Studies and Art History
- Dr. Barbara Lubelli, Associate Professor at the Delft University of Technology- Faculty of Architecture and the Built Environment - Department Architectural Engineering + Technology -Research coordinator Heritage & Architecture
- Lasse Six (*), Project Manager Sustainability Assessment Services at OWS nv
- Pablo García Lumbreras (*), Stone restorer at Fundación Catedral Santa María

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5 LINKED ACTIVITIES

During the meeting, a questionnaire of the Bamberger Centrum für Empirische Studien (BACES) concerning the workshop and the (future) use of nano products, was handed out to all participants. During the welcoming, participants were encouraged to fill in this survey. This was repeated just before the lunch break and after the open platform. Afterwards 30 completed surveys were collected.

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6 ANNEXES

6.1 Official dissemination material:

6.1.1. 'Save the date' flyer

Sent to a list of local professionals in the field of stone conservation, restoration and architecture on 11/09/2017.



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6.1.2. Final flyer with program and enrolment info

Sent to a list of local professionals in the field of stone conservation, restoration and architecture on 03/10/2017.



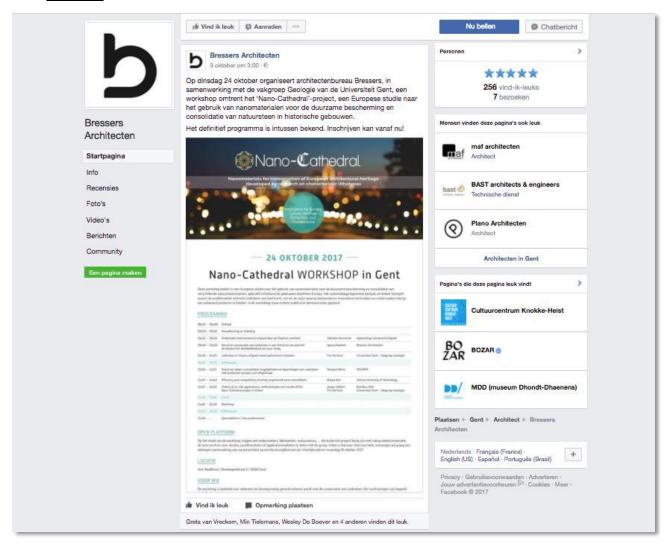
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6.2 Dissemination on websites and social media:

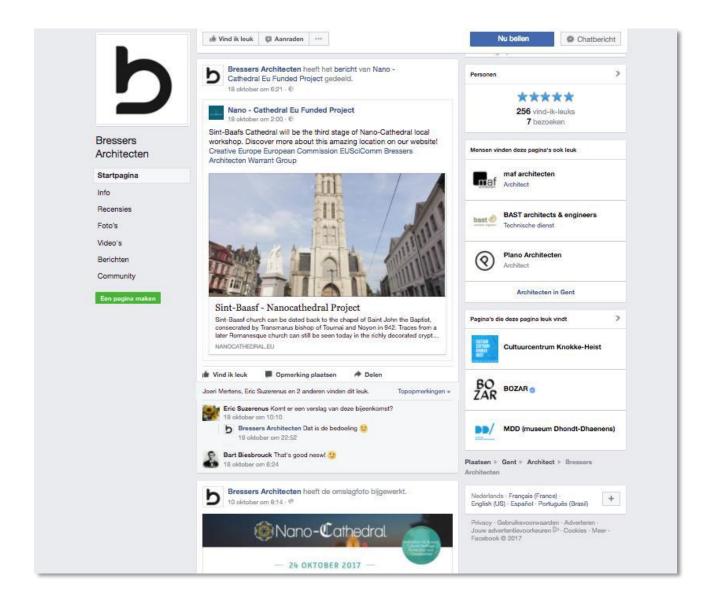
6.2.1. Facebook



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6.2.2. Twitter/Instagram





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Nano-Cathedral

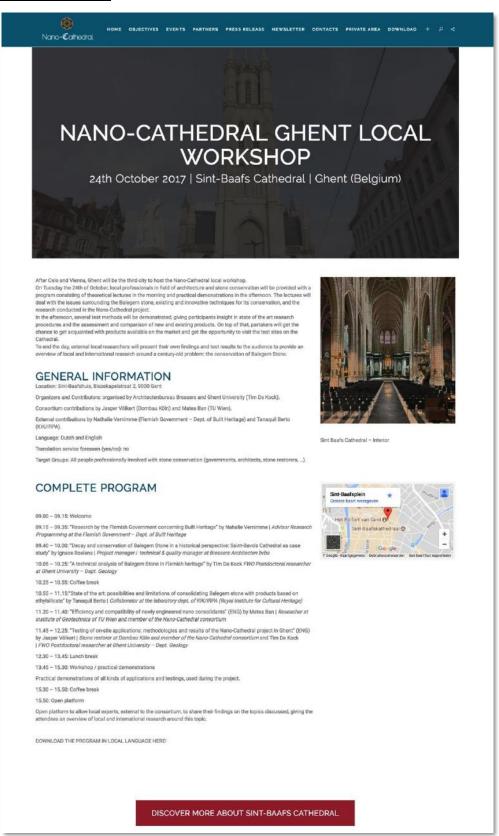


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6.2.3. Nano-Cathedral website



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6.3 Workshop photo's:



Figure 1 Introduction by Ignace Roelens (Architectenbureau Bressers).



Figure 2 Attendees.

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Figure 3 Lecture by Tim De Kock (Ghent University - Dept. Geology).



Figure 4 Information booklet, handed out to all attendees.



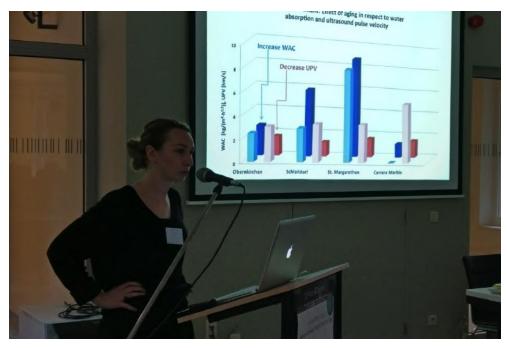


Figure 5 Lecture by Matea Ban (TU Wien - Institute of Geotechnics).



Figure 6 Demonstration of microscopical analysis.

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Figure 7 Demonstration of available commercial products (Remmers).



Figure 8 Demonstration of the application process by Pablo García Lumbreras (Fundación Catedral Santa María).





Figure 9 Demonstration of colour measurements, Karsten Tube and Contact Sponge by Tim De Kock (UGent - Dept. Geology)



Figure 10 Slideshow depicting the activities performed on the St. Baafs Cathedral.

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