

D9.5

Midterm Workshop

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OSIRYS

"Forest based composites for façades and interior partitions
to improve indoor air quality in new builds and restoration"



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Dissemination level	
x	PU = Public
	PP = Restricted to other programme participants (including the EC)
	RE = Restricted to a group specified by the consortium (including the EC)
	CO = Confidential, only for members of the consortium (including the EC)

Document history			
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Summary

The Deliverable D9.5 is a public document of the OSIRYS project, delivered in the context of WP9, Task T9.3 Dissemination Activities.

The objective of WP9 is to co-ordinate the project's dissemination and exploitation activities in support of future market appropriation of the OSIRYS technologies.

This document is about the mid-term workshops which were held as part of the ICAE 2015 conference.

1. Introduction

Dissemination of the projects results is important on several levels:

- To interact with industries, academia and the public
- To allow other projects to see what is happening in OSIRYS for possible clustering activities
- To demonstrate to the world that EU research money is being well spent
- To attract possible investors and future partners

The mid-term of the OSIRYS project is a good time to begin to explain to the outside world about the work that is being done and get feedback.

1.1 Midterm Event Description

The VII International Congress on Architectural Envelopes (ICAE 2015) was chosen as a good event at which to have a presence for OSIRYS. The event took place on the 27th to 29th May 2015 – at Kursaal Congress Palace in Donostia – San Sebastian (Spain) (www.icae2015.com). The congress was organized by TECNALIA and was attended by more than 300 participants representing more than 150 entities with more than 70 lecturers and 12 industrial stands.

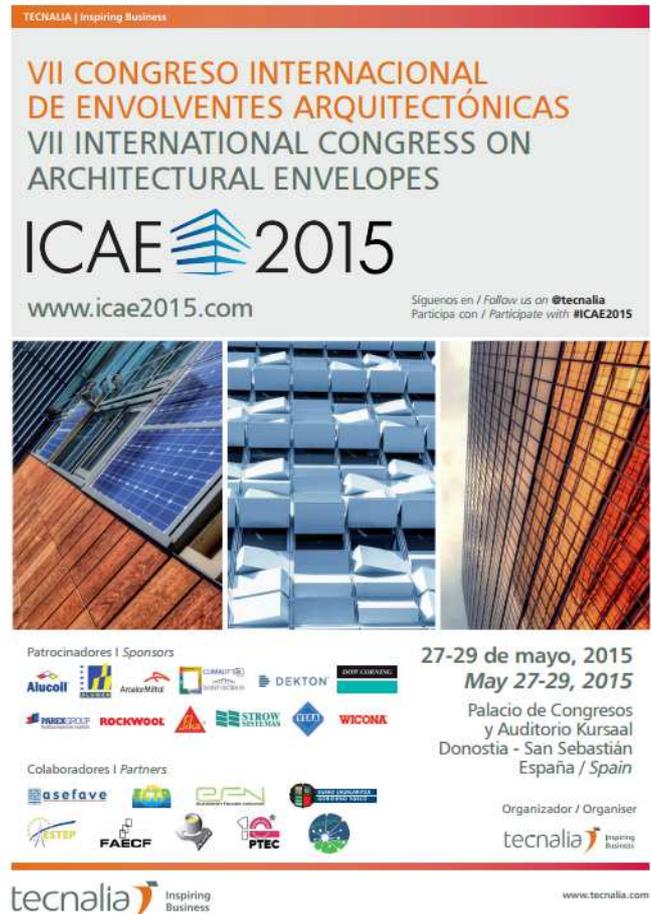
45% of the participants were companies related to the envelope, 10% prescriptors, 41% researchers and 4% related to sectorial associations. This heterogeneity demonstrates that the event facilitated the meeting and speaking of different agents that form the façade sector.

The international character of the Congress was demonstrated by the participation of people from Spain, France, Italy, Germany, UK, Holland, Belgium, USA, Turkey, Sweden, Finland and Denmark.

Included in the programme was a lecture by Dr. Lorenzo Valles from the European Commission: "Energy-Efficient Buildings in the European R&D Programme" and OSIRYS partner UN Studio also presented on "New Envelope Adaptations" in the plenary session.

In this edition the Congress count on a scientific parallel session dedicated to AMANAC Cluster projects, where besides OSIRYS other projects from the cluster also exhibited some of their results. Besides a Fire Workshop was also organized through AMANAC in the framework of ICAE2015 Congress.

TECNALIA organizes this international congress every three years and it is aimed at promoting a comprehensive relationship for the construction industries on development, characterisation and performance assessment of architectural envelopes.



The poster for the VII International Congress on Architectural Envelopes (ICAE 2015) features a red header with the TECNALIA logo and tagline 'Inspiring Business'. The main title is 'VII CONGRESO INTERNACIONAL DE ENVOLVENTES ARQUITECTÓNICAS' and 'VII INTERNATIONAL CONGRESS ON ARCHITECTURAL ENVELOPES'. Below the title is the ICAE 2015 logo and the website www.icae2015.com. The poster includes three images: a modern building facade with solar panels, a close-up of a blue, textured architectural envelope, and a tall building with a grid facade. The event dates are '27-29 de mayo, 2015' and 'May 27-29, 2015', held at the 'Palacio de Congresos y Auditorio Kursaal Donostia - San Sebastián España / Spain'. The organizer is TECNALIA. The poster lists sponsors (Alucoil, Arakiteks, DEKTON, WICONA, etc.) and partners (asefave, etc.).

1.2 Content

The OSIRYS-specific inputs were 1 lecture in the plenary session and 4 presentations within AMANAC scientific session to give a workshop feel.

- New Envelope Adaptations. Partner UNStudio, authors: Rob Henderson. The conference was about how envelopes must adapt and the processes for that.
- Environmental Assessment of Building Materials for Good Indoor Air Quality. Partners TECNALIA and IVL, authors: Miriam García, Sarka Langer and Anna Widheden. This presentation was representing the thematic area of “Indoor environmental quality” of AMANAC cluster and a general view of environmental assessment in construction materials to obtain good indoor air quality was provided. Besides, results obtained in the project with eco-materials were shown.
- Graphene Nanoplatelets – Bicomposites for Advanced Pultrusion Profiles Adapted to Building Envelopes. Partner AIMPLAS, authors: Sergio Fita, Inma Roig. Results for nanoplatelet graphene biocomposites for advanced pultrusion profiles adapted to envelopes were shown.
- Active Paints to Improve Indoor Air Quality. Partner Fraunhofer FRH, authors: Michaela Müller. Advances developed within the project to improve indoor air quality by using photocatalytic active coatings for indoor were explained.
- Effects of Flame Retardants on Flammability of Flax Fibre-Reinforced Composites. Partner ACCIONA, authors: Nayra Uranga, Javier Sacristán. The effect of fire protecting coatings in the inflammability of composites reinforced with flax to obtain eco-panels with improved fire performance was explained.

Besides, some OSIRYS results were shown in the Fire Workshop, another parallel session that was chaired by OSIRYS coordinator Miriam García.

- Overview of the fire characterization of the materials. Specific case of the fire development of WPC for façade applications. Partner TECNALIA, author: Aitor Barrio. It was provided an overview of fire reaction and fire resistance characterization methods, equipments and analysed variables, and OSIRYS case was explained as an example.



Figure 1: Rob Henderson of UN Studio – Plenary Session



Figure 2: ICAE 2015 Audience



Figure 3: Miriam Garcia Gonzalez – Tecnalia



Figure 4: Michaela Mueller – Fraunhofer IGB



Figure 5: Nayra Uranga Loredo - Acciona

1.3 Feedback from the workshop

AMANAC scientific session and Fire workshop were very successful. A mean audience of 40-60 people attended the whole sessions with a peak of around 70 attendees in some of the conferences. It is worth mentioning that not only AMANAC partners attended these sessions but also industrial participants that were not involved in any of the European projects of AMANAC cluster.

Few questions were arisen from the audience to OSIRYS partners. However, the conferences attracted several people highlighting the relevance of the explained contents and developments.

All conferences are collected in the Proceedings of the VII International Congress on Architectural Envelopes (ISBN 978-84-88734-10-5).

The satisfaction survey results were very positive:

Evaluated aspect	Scoring (1-5)
Organization (communication, timetable, schedule,...)	4.3
Content (conferences, speakers,...)	3.8
Expectations (fulfilment of expectations, new knowledge acquisition, usefulness)	3.7

2. Bibliography

<http://www.icae2015.com/en/programme/index.html>

3. Abbreviations

OSIRYS	Forest based composites for façades and interior partitions to improve indoor air quality in new builds and restoration
ICAE	International Conference on Architectural Envelopes
AMANAC	Advanced Material and Nanotechnology Cluster