From a CIB co-sponsored event

1st International Symposium on Building Pathology (ISBP)

Final Report on ISBP2015

The 1st International Symposium on Building Pathology addressed problems on building pathology and was held in March 2015 in Porto, Portugal. It was organized by the Faculty of Engineering, University of Porto and Politecnico di Milano in cooperation with the CIB W086 Commission - Building Pathology. The Proceedings are downloadable for free.

Proceedings
The ISBP2015 Proceedings with approximately 1000 pages have been published in one electronic volume that contains papers focusing on the themes of:

- Structural Pathologies
- Hygrothermal Pathologies
- Diagnosis Techniques
- Building Pathology vs. Durability
- Asset and Maintenance Management
- Information Dissemination
- Building Performance Simulation
- and several Case Studies.

Main objectives
The main objectives of the 1st International Symposium on Building Pathology (ISBP) were to:

- produce information for the effective management of service loss;
- develop and evaluate methodologies for the assessment of defects and failures;
- propose methodologies for the prevention and mitigation of building defects;
- analyze costs associated with building pathology;
- disseminate findings among all those involved in the production and management of buildings.

Keynotes
Sessions started with the following keynotes:

- Structural pathology: Challenges and applications;
- Sustainable renovation and challenges in building technology;
- Façades pathology systems: A state-of-the-art and future trends;

Download the proceedings here.
● Degradation and rehabilitation of roofs: a never ending battle for old city centres?
● Algal growth on the exterior walls of buildings;
● Building pathology: Importance and assignment;
● Monitoring rising damp in historic buildings;
● Service life prediction;
● Identifying the causes of building degradation and finding appropriate solutions through hygrothermal analysis;
● Thermal insulation, a blessing YES, but...;
● The importance of following the rules when writing Journal papers.

Best Papers

The ISBP Best Papers were:

1. A Decision support tool for guiding building owners to choose the most sustainable renovation alternative applied in renovation of an apartment building, Linus Malmgren, Stefan Elfborg, Kristina Mjörnell (SWEDEN);
2. Drying Behaviour of Floor and Wall Constructions after Water Damage with Artificial Drying Methods, A. Zegowitz, A.M. Renzl, W. Hofbauer, Joerg Meyer, Hartwig Künzel (GERMANY);

Ten papers will be published in the journal ‘Structural Survey’ (Emerald 2015).

ISBP2015

The 1st International Symposium on Building Pathology was held between 24th and 27th of March in Porto, Portugal and was organized by the Faculty of Engineering, University of Porto and Politecnico di Milano in cooperation with the CIB W086 Commission -

Building Pathology supporting the discussion of the Problems on Building Pathology - The Research and the Practice.

The ISBP2015 attracted more than 150 delegates from 20 countries, 4 continents by the academia, industry and research institutions. More than 170 abstracts were submitted which allowed the selection and publication of more than 80 papers.

The ISBP2015 has received sponsorship from 8 Institutes and Companies and 37 supporters. The symposium involves 84 papers’ authors, 11 keynote speakers, a Steering Committee, an International Scientific Committee and a Local Organizing Committee.