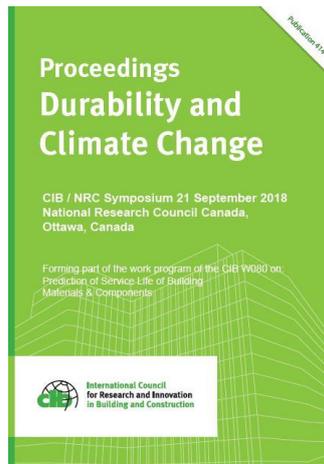




September 2018

CIB/NRC Symposium Proceedings on Durability and Climate Change

W080 – Prediction of Service Life of Building Materials and Components



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The workshop activities and symposium were held in conjunction with the annual meeting of the CIB Working commission (WC) W080 Prediction of service life (SLP) of materials, components and assemblies and as well, the ISO technical committee focused on Design life of buildings (ISO TC 59 SC14). Participation in the symposium provided an opportunity for building researchers and practitioners to present recent work focused on “Durability and Climate Change” and more particularly on how the durability of building materials, components and assemblies may be affected by changing climatic loads as may arise due to climate change. Over 50 researchers and building physics practitioners from 19 different countries participated in this event.

The work presented at the symposium forms part of the CIB W080 work programme WP2 for 2017-2020. These contributions are to support development of a “Guideline on Design for Durability of Building Envelopes” and well as the CIB W080 other work programs. The extended abstracts published in these proceedings offer an insight into work that will be subsequently published in the full-paper contributions submitted to the Canadian Journal of Civil Engineering (<http://www.nrcresearchpress.com/cjce/>).

The topics presented during the symposium and that focused on the use of hygrothermal modelling included:

- Exterior and interior environmental loads on buildings;
- Durability of timber and wood frame wall assemblies and components;
- Durability of masonry and concrete walls and related porous building materials;
- Performance criteria and assessment of wall assemblies;
- Contributions to the CIB W080

Dr. Hywel Davies, chair to the ISO TC 59 SC14 (Design Life), and Technical Director of the Chartered Institution of Building Services Engineers provided the keynote presentation entitled: “Durability in a Changing Climate”.

The meeting of the Chairs’ Advisory Group to ISO TC 59 SC14 was held on Saturday and Sunday following the symposium to which symposium attendees were invited to participate. The annual meeting of the CIB W080 was held the day prior to the symposium and where the respective WC research programs were reviewed including the aforementioned program focusing on development of a “Guideline on Design for Durability of Building Envelopes”.

Proceedings

The Proceedings are available for free on the CIB website, [click here](#). The Proceedings will also be available via ICONDA in the near future.

Contact

More information about this Symposium and Proceedings is to be received via one of the Coordinators of the CIB Commission W080:

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Information

More information about the CIB Commission W080 – Prediction of Service Life of Building Materials and Components is to be found [here](#).



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