



# Sustainable Construction & Design

Volume 2, 2011



Metal Structures Centre - 2011

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# **Sustainable Construction & Design**

**Volume 2, 2011  
Issue 2**

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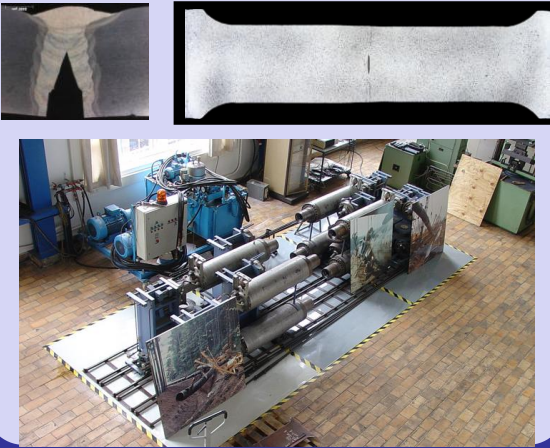
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## Fracture mechanics

*Experts in pipeline weld research.*



## Tribology

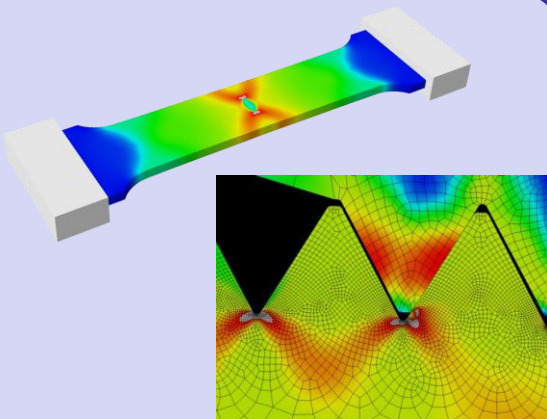
*Small to large scale experimental testing.*



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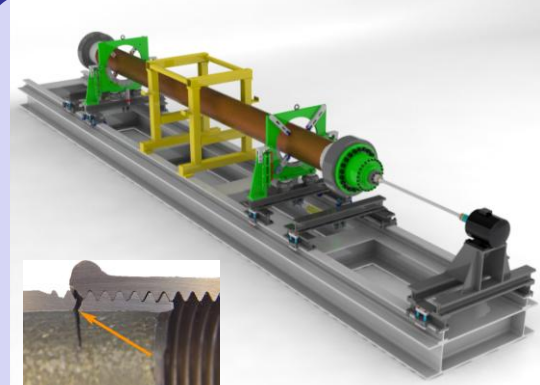
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*Modelling of engineering structures  
and applications.*

## Finite Element Analysis



*Fatigue testing and analysis. E.g.  
research on pipe joints in a full scale  
resonant bending fatigue setup.*

## Fatigue

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Issue 2  
Materials and structures in construction and design

## Editorial

In the second issue of the 2011 volume, the focus is laid on materials and structures in construction and design. This issue includes work on constructional steel research, assessment techniques for cracks in pipeline welds and threaded pipe connections, design rules in architecture and the use of modern computational techniques for designing and analysing engineering applications.

As announced in the previous issue, all MSC partners moved to the central campus in Zwijnaarde. Since the foundation of the MSC in 2009, additional members became involved in the partnership in order to share state-of-the-art research facilities in a modern structure of collaboration, clustering and strategic alliance of research with an important focus on metals. This new cluster has been inaugurated on September 20, 2011 under the name Materials Research Cluster Gent. Additional information can be found on <http://www.mrcluster.be/>.

Jeroen Van Wittenberghe

SCAD journal editor