




American Concrete Institute®  
Advancing concrete knowledge

**Joint KCI-ACI Session:  
International-Level Research,  
Practice, and Partnerships**

ACI Fall 2012 Convention  
October 21 – 24, Toronto, ON

ACI  
WEB SESSIONS



**Structural Application of BIM for  
Construction of Tall RC Buildings Focusing  
on Movement Prediction and Monitoring**

by  
**Bohwan Oh**, Chief Researcher, Daewoo  
Engineering and Construction Company Ltd.,  
Suwon, Korea

ACI  
WEB SESSIONS

ACI Fall 2012 Convention, Toronto

**Structural Application of BIM for Construction of Tall RC Buildings  
Focusing on Movement Prediction and Monitoring**

*Bohwan Oh, Taehun Ha, and SungHo Lee*  
DAEWOO E&C

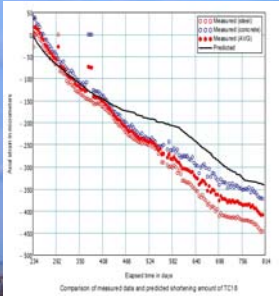

ACI Fall 2012 Convention, Toronto

**Contents**

<b>1</b>	<b>Introduction to Building Movement</b>
	<ul style="list-style-type: none"> <li>• Examples of Building Movement Phenomenon</li> <li>• Adverse Effects of Building Movement</li> <li>• Solutions to Building Movement</li> </ul>
<b>2</b>	<b>Building Movement Control Technology</b>
	<ul style="list-style-type: none"> <li>• Predicting Movement with Construction Stage Algorithm</li> <li>• Creep and Shrinkage Testings</li> <li>• On-site Monitoring</li> </ul>
<b>3</b>	<b>Applications</b>
	<ul style="list-style-type: none"> <li>• KLCC lot C in Kuala Lumpur Malaysia</li> <li>• I-Tower in Incheon South Korea</li> <li>• Ilham Baru Tower in Kuala Lumpur Malaysia</li> </ul>

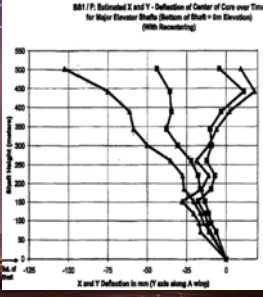
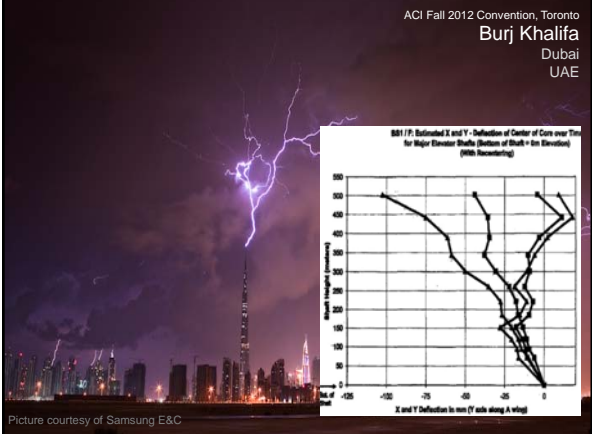
ACI Fall 2012 Convention, Toronto

**North East Asia Trade Tower**  
Incheon  
South Korea

ACI Fall 2012 Convention, Toronto

**Burj Khalifa**  
Dubai  
UAE

Picture courtesy of Samsung E&C

