



# The Irish Concrete Society

## Basic Concrete Technology Course

- Three ½ Days of Structured CPD –



### Event Programme <sup>v3.3</sup>

The Society is proud to present the latest version of our course on basic concrete technology. It is suitable for all who deal with concrete in their working lives: Clients, Clerks of Works, Junior Engineers (Consulting and Contracting), Junior Architects, Ready-mix personnel, foremen, related junior professionals and anyone who would like to refresh their concrete technology knowledge.

This course will help you understand more about the most used construction material in the world. Understanding of the material is critical to both imagining the possibilities of its use as well as achieving excellence in its construction.

[www.concrete.ie](http://www.concrete.ie)

## Confirmed List of Speakers:

### **Mr Brendan Lynch**

Cement and Concrete Consultant

### **Mr Donal Crowley**

National Technical Manager at Roadstone

### **Pro. Roger West**

Senior lecture at Trinity College Dublin

### **Dr. Ciaran McNally**

Research Engineer at University College Dublin

### **Mr. Barry Gilroy**

Area Manager at Mattest Ireland

### **Mr Shane Glynn**

Contracts Manager – John Sisk and Son

### **Mr Carl Egan**

Specialist Flooring Contractor- Carlson Construction

### **Dr. Eanna Nolan**

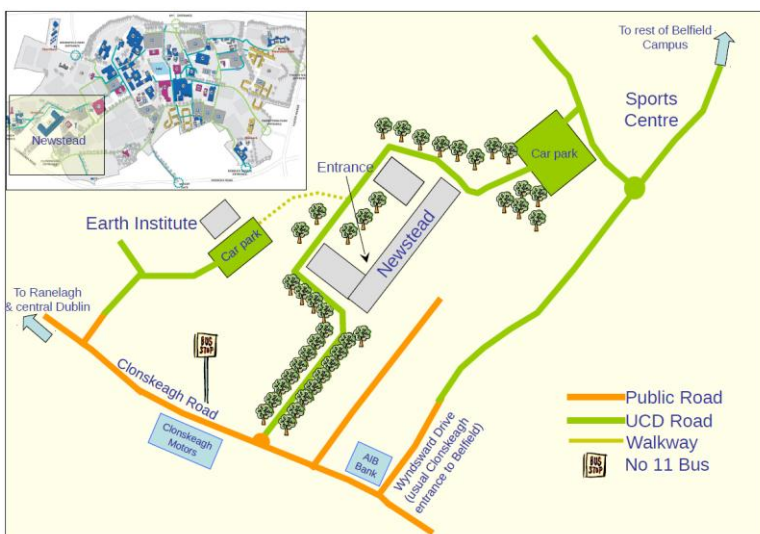
Technical Advisory Engineer – Irish Cement

### **Dr. Niall Holmes**

Lecturer in Civil & Structural Engineering at Dublin Institute of Technology

## Confirmed Lecture Locations –

Delegates will be contacted should a change occur



**14<sup>th</sup> Oct. UCD Newstead** Belfield, Dublin 4, Ireland



**30<sup>th</sup> Oct. IPA, Dublin** 57-61 Lansdowne Road, Ballsbridge, Dublin 4

## Event Programme – Lecture 1

Location – Newstead Building, UCD

Date - 14<sup>th</sup> October 2014

		<u>Description</u>
08:30 – 09:00	Registration - Tea/Coffee	Delegates register
09:00 – 09:05	Introduction – 5mins <b>Mr Henry Kerr – Irish Concrete Society</b>	A brief introduction about the society and about the mornings events.
09:05 – 09:35	Concrete Constituents– 30mins <b>Mr Brendan Lynch – Irish Concrete Society</b>	An overview of the main constituents of cement and concrete.
09:35 – 10:05	Concrete Mix Design & Admixtures – 30mins <b>Mr Donal Crowley - Roadstone</b>	An outline of the procedures involved in concrete mix design and an overview the various types of admixtures.
10:05 – 10:50	Fresh Concrete Properties – 45mins <b>Pro. Roger West - Trinity College Dublin</b>	An overview of concrete workability, sampling, and testing including a look at the properties of fresh concrete.
10:50 – 11:05	Tea, Coffee and Scones – 15mins	
11:05 - 11:35	Specifying, Ordering, Delivery & Acceptance – 30mins <b>Mr Donal Crowley - Roadstone</b>	An introduction to how we specify concrete, order concrete, how it arrives on site and acceptance.
11:35 – 12:00	Q & A – 25mins	Opportunity to ask the panel questions
12:00 - 12:50	Laboratory Session: Mixing, Cubes & Slumps – 50mins <b>UCD Lab</b> <b>Ciaran McNally UCD, Henry Kerr, Irish Concrete Society &amp; Barry Gilroy, Mattest</b>	An opportunity for the delegates to make concrete, make concrete cubes and carry out some slump tests.

## Event Programme – Lecture 2

Location – IPA, Dublin

Date - 30<sup>th</sup> October 2014

		<u>Description</u>
08:30 – 09:00	Registration - Tea/Coffee	Delegates register
09:00 – 09:05	Introduction & Summary– 5mins <b>Mr Henry Kerr – Irish Concrete Society</b>	An overview of the mornings events, Health and Safety items, introduce speakers and summary of what has been covered so far.
09:05 – 09:35	Formwork, Pre-Pour Checks and Placing – 30mins <b>Mr Shane Glynn – John Sisk &amp; Son</b>	Formwork, the typical pre-pour checks and how we place concrete.
09:35 – 10:05	Joints, Compacting & Finishing Surfaces– 30mins <b>Carl Egan – Carlson Construction</b>	Typical joints in concrete, compacting concrete, finishing floors and a brief overview of the types of reinforcement used in flooring.
10:05 – 10:35	Curing and Strength Gain – 30mins <b>Dr Eanna Nolan – Irish Cement</b>	How and why we cure concrete including an overview of concrete strength gain.
10:35 – 10:50	Tea, Coffee and Scones – 15mins	
10:50 – 11:20	Typical Concrete Defects– 30mins <b>Dr Niall Holmes – DIT</b>	Some of the typical concrete defects and their possible causes
11:20 - 11:35	Testing Hardened Concrete – 15mins <b>Barry Gilroy – Mattest</b>	Overview of the most common types of testing procedures for hardened concrete.
11:35 – 11:50	Concrete Cube Results (with Videos) and closing summary of course – 15mins <b>Henry Kerr, Irish Concrete Society</b>	Assessment of the concrete cube results and playback of the cube crushing videos.
11:50 – 12:40	Q&A and Open Discussion – 50mins	Opportunity to ask the panel questions and an open discussion about concrete technology.

## Event Programme – Practical/Site Visit

**Location - Greater Dublin Area – Final Location TBC**

**Date – Mid October 2014** – Due to the nature of this session we ask for delegates flexibility with regard to final the date.

		<u>Description</u>
08:30 – 09:00	Registration - Tea/Coffee	Delegates register.
09:00 – 09:20	Site Induction & Health and Safety– 20mins <b>Site Engineer/Project Manager</b>	Overview of site Health and Safety protocol and Health and Safety with concrete.
09:20 – 09:30	Presentation on Project – 10mins <b>Design Engineer/Project Manager</b>	Brief presentation on the project including site plans and an overview of the works to be visited on this visit
09:30 – 10:00	Drawings, Bar Bending Schedules and Quality Control – 30mins <b>Site Engineer/Project Manager</b>	Delegates will be broken into groups and asked to study drawings and bar bending schedules. They will be shown how to cross reference and check reinforcement.
10:00 – 10:30	Pre-pour Inspection – 30mins <b>Site Engineer/Project Manager</b>	Delegates will be asked to inspect elements of the site prior to a pour.
10:30 – 12:00	Placing Concrete – 90mins <b>Site Engineer and Site Team</b>	Delegates will witness concrete being poured, compacted, floated and a demonstration of concrete curing methods. Concrete will be sampled and slump tests will take place.

## - The Irish Concrete Society - Basic Concrete Technology Three ½ Days CPD

This is a **pilot run of our new course** and is offered at a special rate (No VAT) including tea/coffee breaks:

- Irish Concrete Society Members: **€145<sup>1</sup>**  
<sup>1</sup>10% discount for companies sending more than one delegate
- Non-Members: **€195**

Due to the strict limits on delegate numbers to this event, we are unable to offer the normal range of ICS concession rates. This training event is subject to a minimum number of participants and we may make small changes to the topics covered. No refund for cancellations – delegate replacement allowed. Contact [secretary@concrete.ie](mailto:secretary@concrete.ie) for more information.

### The Irish Concrete Society | Basic Concrete Technology | October 2014 - Dublin

I enclose remittance for \_\_\_\_ Places at the Seminar @ €\_\_\_\_\_/person

Total Remittance €\_\_\_\_\_

Delegate name \_\_\_\_\_ delegate email \_\_\_\_\_

Delegate name \_\_\_\_\_ delegate email \_\_\_\_\_

Delegate name \_\_\_\_\_ delegate email \_\_\_\_\_

Company name \_\_\_\_\_ contact name: \_\_\_\_\_

Tel: \_\_\_\_\_ Email: \_\_\_\_\_

Please make all cheques payable to: The Irish Concrete Society and return to Platin, Drogheda, Co. Louth

Electronic transfer – Quote company and delegate name in the transaction reference and return this form.

**Name:** The Irish Concrete Society

**Branch:** Bank of Ireland, Blackrock, Co. Dublin

**Sort Code:** 90-10-28

**Account Code:** 85791285

**IBAN:** IE73 BOFI 9010 2885 7912 85

**VAT No.** VAT No. 9802217B