

April 29 - May 13, 2008
Rochestown Park Hotel, Cork



Concrete - An Essential Update

A Modular Course in Concrete Technology



Introduction / Overview of Series

This course consists of four modules, commencing in spring 2008 up to autumn 2009. Together, they are designed to bridge the gap between a basic and an advanced knowledge of concrete technology for those in the industry. As well as basic theory, new developments and case studies are included to add colour and relevance.

At present, European product and test standards are in force not only for all the ingredients involved in concrete but also for many precast concrete products (including masonry). The implementation of European standards has implications for all involved in concrete and this is a unique opportunity to understand and implement the requirements of these standards.

Highly qualified and experienced lecturers will ensure that participants will gain a comprehensive knowledge of aspects of design, construction, production and specification of concrete.

Who Should Attend?

We invite anyone with a professional or personal interest in concrete – from contractors to consultants to concrete producers – to further their knowledge in this durable and versatile material.

A Modular Course in Concrete Technology

MODULE 1 - Part 1

Tuesday 29nd April 16.00 - 20.00

16.00	Registration and tea/coffee
16.15	Lecture 1: Cements and Additions - Brendan Lynch, Irish Cement Ltd. Cement types, Portland cements, secondary cementitious materials
17.15	Lecture 2: Aggregates and Admixtures - Donal Crowley, John A. Wood Ltd. Aggregates: Production, processing and grading, classification and testing, requirements in concrete. Admixtures: Types and applications.
18.15	Break and refreshments
18.30	Lecture 3: Mix Design - Neil Cooke of Mattest Ireland Ltd. Concrete mix specification, requirements, methods, changes to the mix design process.
19.30	Q & A Session

MODULE 1 - Part 2

Tuesday 6th May 16.00 - 20.00

16.00	Registration and tea/coffee
16.15	Lecture 1: Specification - Kieran Ruane, RPS Modern specification of concrete including reference to I.S. EN 206 and Eurocodes
17.15	Lecture 2: Fresh Properties - Dr. Roger West, TCD Properties of fresh concrete; density, workability, cohesion, testing and requirements, meeting specifications
18.15	Break and refreshments
18.30	Lecture 3: Hardened Concrete Durability - Dr. Mark Richardson Mechanisms of degradation, corrosion, carbonation, frost damage, sulfate attack, specifying for durability to I.S. EN 206
19.30	Q & A Session

MODULE 1 - Part 3

Tuesday 13th May 16.00 - 20.00

16.00	Registration and tea/coffee
16.15	Lecture 1: Strength and Maturity - Peter Deegan, Banagher Concrete Ltd, UCD; Dr Thomas Callanan. Determination of strength through maturity rule, conformity with standards, actions in the case of non-compliance
17.15	Break and refreshments
17.30	Lecture 2: Case Studies - Jack O'Leary, Malachy Walsh and Partners Examples of current and past projects with an emphasis on the properties of concrete
18.45	Q & A Session

Booking Information

Venue:	Rochestown Park Hotel, Cork.
Date:	April 29th, May 6th and 13th, 2008.
Session Time:	Registration, Tea & Sandwiches at 16.00. Lectures start at 16.15 sharp.
Module 1 Fee:	ICS / Engineers Ireland Members €300 / Non-Members €425 (Fee includes seminar material, tea/coffee and lunches)
Payment:	Payment must accompany registration and may be made by cheque, credit card or, where appropriate, purchase order. All payments to Engineers Ireland.
Cancellation:	A 50% cancellation fee (to cover administration costs) will be charged for cancellations received within seven days prior to commencement of the seminar. Cancellations received on the day of the seminar will incur the full seminar fee. Substitutions are allowed.
Priority:	As the number of places on the course are limited, Priority will be given to Engineers Ireland/ICS Members.
Booking:	Bookings can be made by downloading a registration form at www.engineersireland.ie/courses Telephone bookings MUST BE accompanied by written confirmation either by post or fax.
Contact:	22 Clyde Road, Ballsbridge, Dublin 4. Tel: 01 665 1325, Fax: 01 668 4248, Email: cpdtraining@engineersireland.ie

Concrete – An Essential Update

Venue: Rochestown Park Hotel, Cork.

Date: 29th April, 6th May and 13th May 2008

Session Time: 4.00pm to 8.00pm. Registration and Tea/Coffee at 4.00pm

Fee Engineers Ireland Members: €300 Non-Members: €425
Fee includes seminar material, lunch and tea/coffee.

Payment: Payment must accompany registration and may be made by Cheque, Credit/Laser Card Card or, where appropriate, Purchase Order.

Cancellation: A 50% cancellation fee will be charged for cancellations received in the seven days prior to the course start date. Cancellations received on the day of the course will incur the full course fee. Substitutions are allowed.

Priority: As the number of places on this course is limited, priority will be given to Engineers Ireland members.

Course Contact: Aisling O'Connor, Engineers Ireland
Phone: 01 609 0228
Fax: 01 668 4248
Email: aoconnor@engineersireland.ie

Please Note: Membership Number Must Be Given In Order To Get The Member Price

Delegate Name: _____ **EI Membership No:** _____

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Delegate Name: _____ **EI Membership No:** _____

Company Name: _____

Address: _____

Telephone: _____ **Email:** _____

Please indicate method of payment:

☐ I enclose a cheque

☐ Purchase Order Number (if applicable) _____

☐ Card Payment. Please debit my:

Laser ☐ Visa ☐ American Express ☐ MasterCard ☐ with € _____

Card No: _____ Expiry Date: _____ CCV No: _____

Cardholder's Name: _____ Cardholder's Signature: _____

Cardholder's Billing Address: _____

How did you find out about this course?

The Website ☐ Irish Times ☐ The Journal ☐ Engineers Ireland Staff Member ☐ Colleague/Friend ☐