



# The Institute of Concrete Technology Annual Report for 2018



## ICT Council 2018-2019

Elected at, or co-opted since, the AGM in 2018

Raman Mangabhai President 2017-2019  
Rob Lewis Vice President  
Steve Walton Hon. Secretary  
Ian Evans Hon. Treasurer

Muhammed Basheer  
Richard Boulton  
Kathy Calverley  
Simon Chudley (*new in 2018*)  
Dean Courtney-Ward  
Gareth David (*new in 2018*)  
Mike Grantham  
Norman Greig  
Peter Hewlett  
Nick Jowett  
Richard Kershaw  
Agnieszka Klemm (*new in 2018*)  
John Lay  
Alistair Legg  
Colin Nessfield  
John Reddy  
and Richard Hall (*corresponding*)

### Regional Representatives

Khaled Awad Lebanon  
Atef Badr Oman  
Roelof Jacobs South Africa  
Siva Kandasami India  
Deepu Karthikeyan Qatar  
Jun Ren China  
Graham Stephenson UAE

### Standing down in 2018

No one stood down from Council at the 2018 AGM

## Profit & Loss Account for the Year Ended 31 December 2018

	2018 (£) <sup>[1]</sup>	2017 (£)
<b>Turnover</b>	<b>60,720</b>	<b>51,449</b>
Cost of Sales	1,053	-
<b>Gross Profit</b>	<b>59,667</b>	<b>51,449</b>
Administrative expenses	57,844	52,281
<b>Operating profit/(loss)</b>	<b>1,823</b>	<b>(832)</b>
Other interest receivable and similar income		
Interest payable and similar charges	1,139	718
<b>Profit/(loss) on ordinary activities</b>	<b>2,962</b>	<b>(114)</b>
Tax on profit/(loss) on ordinary activities	-	-
<b>Profit for the financial year</b>	<b>2,962</b>	<b>(114)</b>

<sup>[1]</sup> Draft accounts provided by examination audit, dated 22 March 2019

## ICT Membership in 2018

2018 was the first year in which all renewals fell on 1 January and ran for the calendar year. Accepting a period of grace for payment of subscriptions by new applicants, membership of the Institute stood at 504 (plus student members) by the end of the year.

Graduates	6
Technicians	28
Affiliates	17
Associates	139
Members	211
Fellows	53
Hon. Fellows	28

During the year, 37 new members joined the Institute and 9 upgraded their membership.

Professor Michael Grantham and Professor Ken Hover were elected HonFICT at the AGM in April 2018.

*Professor Hover, HonFICT (left) receiving his certificate*





## Some Highlights of 2018

**January** – 22<sup>nd</sup> edition of the *Yearbook* distributed

**February** – Greg Van Rooyen registered as CEng; CPD app developed with MPQC announced

**March** – Convention held in Derby, with a technical symposium on 'Special Projects', including a Sir Frederick Lea Memorial Lecture by Prof Karen Scrivener. Inaugural annual report issued at the AGM and two Honorary Fellows elected.

**May** – GDPR prompts new membership processes

**May** – ICT exhibited at the Precast Show

**June** – ICT represented at University of Derby's open evening in Buxton and Engineering council's AGM in London

**August** – Direct debit introduced for membership

**September** – Assessors trained for a new ACI/ICT certification scheme for Concrete Field Testing Technicians

**October** – Exam results confirmed, including 12 MSc degrees at the University of Leeds. ICT's Supporting Organisations Package launched

**November** – ICT represented at The Concrete Society Awards. ICT's first CFTT certification session held in Qatar. Colin Dowds is the first to receive a CSCS card (AQP) on the basis of ICT qualifications

**December** – Christos Leptokaridis becomes the second member in a year to register as CEng

## The President: Raman Mangabhai, MICT



As I conclude my term of office I can reflect with pride on achievements and look forward with confidence to ICT's continuing success.

We had our annual convention in March at the University of Derby, which was attended by 70 delegates, sponsored by LKAB and supported by six exhibitors. The symposium was entitled 'Special Projects - Concrete the material of choice', with excellent presentations, and a keynote lecture by Professor Karen Scrivener.

At the AGM we issued the very first ICT *Annual Report*. We announced the election of Professors Ken Hover and Michael Grantham as Honorary Fellows and welcomed several new members to Council.

A new app for recording Continuing Professional Development was launched at the AGM and we will be monitoring the CPD activity in 2019.

During the summer the Advance Concrete Technology course at the University of Leeds completed its first three years, with 13 students awarded their MSc. A report on the course and experiences of students is included in this latest *Yearbook*. We are now in the process of reviewing the ACT learning objectives and are pleased to report that our Stage 4 and Stage 3 qualifications are now recognised by CSCS for the Academically Qualified Person's card. Our members also continue to have success in registering as Chartered Engineer with the Engineering Council.

The Institute has also been working closely with ACI in a joint educational initiative to provide certification of competence for Concrete Field Technicians. We have had two very successful preparatory meetings, at Sika in April and GCP Applied Technologies in Sept 2018, and formally embark on the new scheme from April 2019.

It has been privilege to be your President. I have thoroughly enjoyed my time in office and am happy to continue serving the Institute. Rob Lewis will take over as President in April 2019 and I wish him well. The ICT is in good hands, and I trust it will prosper for many years to come.



The Lea Memorial Lecture was sponsored by ICE Publishing; ICT visited Banah UK; ICT worked with ACI on joint certification

## ICT Exam Results in 2018

### Stage 1

10 Distinction, 4 Credit, 6 Pass. 0 failed (June)  
17 Distinction, 17 Credit, 23 Pass, 4 failed (Dec)

### Stage 2

19 Distinction, 10 Credit, 16 Pass. 29 failed

### Stage 3

4 Distinction, 13 Credit, 7 Pass. 9 failed

### Aggregates in Construction

2 Credit, 2 Pass

### Stage 4 (re-sits only this year)

0 passed, 1 failed Paper 1;  
3 passed, 1 failed Paper 2

No ACT Diplomas were awarded during the year.

## ACT at the University of Leeds

Sixteen students completed the taught component of the course last year. A further thirteen were awarded the MSc in October 2018, with one PG Diploma and one PG Certificate.

Fourteen new candidates registered to start the course in September 2018.

## Engineering Council

Two members were registered as a Chartered Engineer in 2018, with others in the process of applying.

## ICT Yearbook 2018/2019



The 23<sup>rd</sup> edition was published at the end of 2018. It contained the following papers:

Face to Face with Ravindra Dhir, OBE. Interviewed by Edwin Trout

Sir Francis Meynell, 'Machine-age Aesthete': Man of Letters, Political Activist and Promoter of Concrete. By Edwin A.R. Trout

Sustainable Bendable Concrete Using Geopolymer as a 'Complete' Replacement of Portland Cement. By Behzad Nematollahi and Jay Sanjayan

Standard-setting Stadia at Wembley and White City. By Edwin A.R. Trout

MagnaDense in Civil Engineering Applications. By Mark Moriarty and Richard Hunt

Unnoticed Art: The Beauty of Functional Concrete. London Bridge Station. By Martyn Back

Cement Hydration: The Key to Optimising Environmental Performance? By Karen L. Scrivener

The Elican Project: Concrete Self-installing and Telescopic Offshore Wind Tower Using Elisa Technology. By José Serna, Javier Nieto and Juan Carlos Aparicio

The Use of High GGBS Content Concrete in a Lock Construction in the Netherlands. By Marc Ottelé et al.

Heat of Hydration of Mass Pours in the UAE Using High Performance Concrete. By V.V. Giri Raghavan

Team Concrete: A Collaborative Approach to New Nuclear. By Stewart Cameron and Simon Chudley

Influence of the Kaolinite Content, Limestone Particle Size and Mixture Design on Early-age Properties of Limestone Calcined Clay Cements (LC3). By Franco Zunino and Karen Scrivener

Alkali-activated Mineral Wool Wastes. By Juho Yliniemi et al.

Studying the pH dependency of the chloride binding of Portland cement pastes. By P. Hemstad et al.

Advanced Concrete Technology MSc(Eng) and PGDip – The Leeds Experience. By Peter Domone

## ICT technical meetings held in 2018

22 March	46 <sup>th</sup> annual ICT Convention, Derby
9 April	Young Researchers' Forum IV, Newcastle (co-sponsor)
15 May	ICT visit to Banah UK Ltd, Coleraine
11 July	Guest lecture by Prof Surendra Shah (jointly with UCL)
18-20 July	6 <sup>th</sup> Durability of Concrete Structures, Leeds (in a supporting role)
7-8 Sept	Annual Conference of the Building Limes Forum, Canterbury (co-sponsor)
10-11 Sept	38 <sup>th</sup> Cement & Concrete Science Conference, Coventry (in a supporting role)

