

## Forward Features List 2018

The features below reflect subjects that will be covered within the issues named. Below that is a list of subjects that are being actively researched with a view to inclusion in CAD User when they become topical or interesting.

### January/February.

BIM - BIM is Dead – long live BIM.  
Information Management to support the Construction Project  
Structural Engineering Design and Analysis  
Power Generation and Renewables  
Health and Safety and Risk Management  
Construction and the Cloud  
Check and Check again...BIM Clash Detection

### March/April

FIM - Fabrication Information Management  
FEA in structural engineering and analysis  
BIM Software Reviews  
Managing Smart Cities – Leveraging construction, infrastructure and human data  
Contractor and Supplier Performance monitoring  
Augmented Reality and Virtual Modelling  
ERP and Total Project Management

## **May/June**

Building Performance Modeling using CFM and other tools.

Project Accounting and Tender Management

Pre-cast and Poured Concrete Design

Internal and External threats - Cyber and On-site security in the Construction Industry

BIM and Collaboration in the Cloud

3D Printing – from Concept Design Modelling to Printing Houses.

## **July/August**

Immersion in a Virtual World – the latest tools and techniques.

Minimising Engineering Change Orders

Data Exchange Standards – their evolution and obsolescence

4D and 5D – Construction Simulation

Solving the 'skill Shortage' Problem

Global Design and Construction Management – the Connected Project.

## **September/October**

CAD Software Reviews

Water Utilities – Flood and Wastewater Management

Hardware Reviews – Wide Format Scanners and Printers

Using Drones for Project Management and As-built-studies

On-line Building Component Libraries

Rail and Road Infrastructure Projects

## **November/December**

CAD Software Review

Bridge and Tunnel Design – The Balance between Form and Function

Asset Management in a Saturated City – Keeping tfl at work

The Internet of Things – How far have we come in just 12 months?

As we move to BIM Levels 3 and 4 – was BIM Level 2 Successful?

Concept Model Creation – the Tools at hand.

The Hammers Winners Round up.

**The following AEC and Civil Engineering subjects are continually under review:**

Architectural design solutions  
Collaboration Software tools  
Facilities Management  
Civil Engineering  
Environmental Analysis  
BIM under Government Guidance  
Process Plant design  
Bridge Design  
Flood Defences  
Utilities and Power Grids

**Hardware for CAD applications that will be reviewed from time to time will include:**

Wide Format Printers  
Workstations  
3D Scanners  
Display units  
Graphics Cards,  
Mobile Computing Devices  
Drones and other data capture devices  
The Internet of things