



Forward Features List 2017

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- The Next steps – Level 3 and 4
- CFM analysis in Building Design
- CAD Software Review
- On-site Mobile Applications
- Structural Engineering Design and Analysis
- Drones in the Construction Industry

March/April

- BIM in the Cloud
- Virtual Creation of 3D models – 3D scanning, LIDAR, Digital photo assemblage
- Project Management and ERM – The Digital Project
- Concrete Design and Analysis
- FIM – Fabrication Information Management
- Stormwater modelling, Drainage systems, Flood risks etc

May/June

Infrastructure projects – Rail, Road
Finite Element Analysis in Structural Design
BIM Model Viewers
Collaboration and model data exchange standards
Engineering Change Management
3D Printing used in Architecture

July/August

Rendering and Visualisation - the State of the Art
Building Performance Evaluation and other Environmental Issues
Power Generation and Distribution – Traditional and Renewables
Project Accounting and Contract Handling
Health & Safety/Risk Management
Smart Cities and Buildings

September/October

Structural Design/Detailing and Fabrication
Wide Format Scanning
Training/Employee Evaluation/Contractor Performance Evaluation
Construction Simulation.
Stormwater modelling, Drainage systems, Flood risks etc

Annual CAD User Guide to BIM

November/December

Wide format CAD and Multifunction printers

The GIS and CAD Interface

Utilities – Water/Electricity/Gas – Asset Management

CAD Software Review

Compliance Issues and Standards

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