Wykeham Farrance, the Soil Mechanics Division of CONTROLS Group, is displaying some interesting new products for the world of geotechnical studies.

**AUTOTRIAX 2: Advanced system for triaxial testing** able to automatically perform up to 6 tests simultaneously with maximum cell pressures of 3.5 Mpa without operator intervention. The system can perform different types of tests such as:
- Total stress and effective stress in UU (Unconsolidated Undrained), CU (Consolidated Undrained) and CD (Consolidated Drained) conditions as per ASTM and BS Standards.
- Stress Path Tests in compression and extension.
- $K_0$ Tests.
- Permeability tests in the triaxial cell as per BS1377:6
- Triaxial tests on Unsaturated soils using the axis translation method.

**Autotriax 2** is the evolution of the previous automatic system AUTOTRIAX to which many improvements have been made in terms of performance, notably flexibility of expansion of the system, more efficient feedback control, modular hardware, latest software etc.

**ACE 26-WF3120 Automatic Oedometer** with maximum vertical load up to 15 kN. The system has a software which can manage up to 60 ACE units simultaneously from a single PC, allowing the monitoring and real time display of test data and relative graphs. The Oedometer is compatible with all the standard range of WF cells with diameters including 47, 50 and 112.8 mm

**SHEARMATIC 27-WF2180 digital automatic direct and residual shear machine** with a programmable pneumatic vertical loading system. The machine is a stand-alone type with microprocessor and driven by a stepper motor with a high resolution in line epicyclical gear reducer. SHEARMATIC includes a closed loop automatic pneumatic system for the application of preset vertical loads via a high resolution electronic controller.

**RESONANT COLUMN 31-WF8500 Cyclic/Dynamic Torsional Shear and Resonant Column.** This system combines the characteristics of both the resonant column and torsional shear testing in a single machine which includes, apart from the software for test management and processing, a device for the application of a torque moment on the top of the sample, a series of transducers with signal conditioners, an electro-pneumatic system for cell pressure and back pressure control and a Datalogger for data acquisition.