



## **Members' Exhibition at the International Space Innovation Centre (ISIC)**

### **STFC table-top exhibitors**

**RAL Space** – STFC's Space Science department with significant involvement in over 200 space missions and are at the forefront of UK Space Research. Expertise in space testing and ground-based facilities, design and build instruments, analyse and process data as well as lead conceptual studies for future missions.

**Micro engineering** - state of the art micro- and nano-fabrication facilities to universities, industry and other STFC departments. The Centre is home to extensive experience in the research and development, design, fabrication and test of semiconductor and MEMS devices.

**Computation Science and Engineering / Virtual Engineering Centre** – supporting the aerospace sector and wider industry by providing a focal point for world class virtual engineering technology, research, education and best practice.

**ISIS Neutron Source** - the world's most successful pulsed spallation neutron source. ISIS neutrons are used to probe the stresses and material properties deep inside engineering components and materials.

**Diamond Light Source** - the UK's national synchrotron facility. Diamond's X-ray beams allow for detailed analysis and modelling of strain, cracks and corrosion as well as in situ study of materials during production processing. This research is vital to the development of high performance materials and their use in innovative products and structures.

**Target Fabrication** - extensive expertise in the areas of Micro-assembly, Thin-Film coating, Characterisation of micro-targets & Micro-machining

**STFC Futures** - The Futures Programme was created as STFC's response to ensuring that skills and technology originally developed to address fundamental research questions are harnessed effectively to provide solutions to the global challenges.

**Oxsensis** - pioneering in a new breed of optical instrumentation for precision control in super-harsh environments such as power generation, aero engines and airframes, oil and gas production and exploration, industrial processing and heavy transport.

**Oxford Brookes** – Motorsport Engineering Centre – Facilities include Engine Test Cells, CAD/CAM Suite, Computer cluster, Exhaust Gas Monitoring System & Engine Analysis Centre with five dynamometers.

**Oxford University** – Sensors, engineering, hydrogen storage, materials.

**ESA Technology Transfer Programmes Office** - has successfully transferred over 200 space technologies to non-space sectors for applications as diverse as cooling suits for a Formula 1 racing team, ground penetrating radar to detect cracks in mine tunnels and several health-care innovations. (No table but Andy Bennett will be taking about it).