Torr Scientific Ltd.
Specialists in UHV, Optical and X-ray Components

NEWS

www.torrscientific.co.uk
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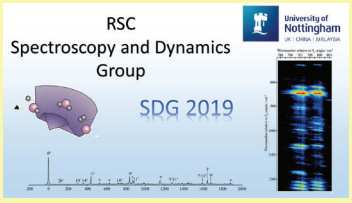
The staff of Torr Scientific would like to thank you for your support and custom throughout 2018 and we look forward to working with you in 2019. We wish you a Merry Christmas and a successful, Happy New Year! Please note that our office will be closed from 2.30pm on Friday 21st December and reopens at 8.30am on Wednesday 2nd January.

See Us At:



SDG2019 Annual meeting
7-9 January 2019

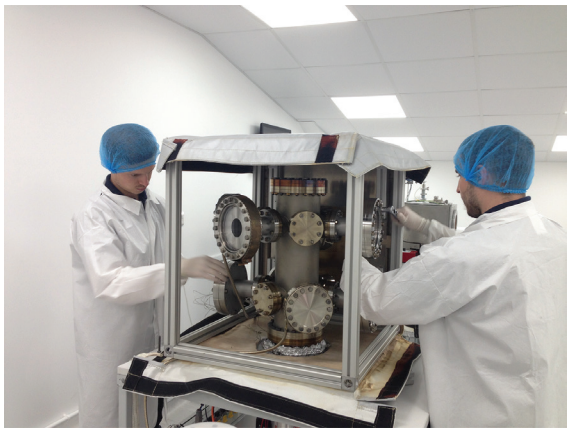
SOUTHERN 19 Manufacturing & Electronics

5th-7th February 2019

TSL Products:

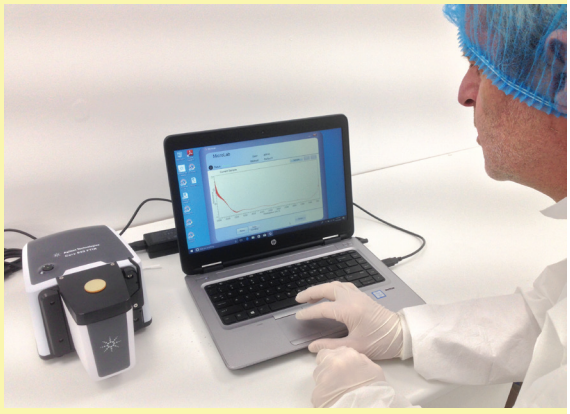
- UHV Viewports
- Anti-Reflective Coatings
- CVD Diamond
- Glass to Metal Seals
- Atom Trap Chambers
- Aerospace Vacuum Optics
- X-ray Anodes
- In-Line Monochromator (ILM)
- Synchrotron Products
- Electron Optical Components

Ultra-High Vacuum Test System



Torr Scientific has invested in the build and installation of an ultra-high vacuum (UHV) test system in to the newly formed technical services department for bolt-up, bake-out and helium leak testing of vacuum optics under UHV conditions. The system has been designed to expose viewports manufactured by Torr Scientific to their limits (glass 350 °C, fused silica 200 °C) and to leak test to 1.0x10-10 mbar litres per second or higher on customer request. The technical services department can now carry out testing under customer specified conditions and the company was delighted that the first customer to make use of this test facility was CERN, the European research organisation that operates the largest particle physics lab in the world. CERN intends to use the fused silica windows in various accelerator complexes for optical beam instruments. For further details please contact sales@torrscientifific.co.uk

Reflection Testing of Infrared Vacuum Optics



Torr Scientific has extended its reflection and transmission testing capability for customers requiring optical components, vacuum windows and anti-reflective coatings with infrared applications. 'Our existing instrument covered the range from 190nm to 3.5 microns, but the introduction of the Agilent FTIR spectrometer in to our lab enables us to develop and test out to 28 microns, which is great as we've seen increasing interest from customers with applications in that range' said Torr Scientific's scientific advisor David Stupple. The instrument uses a technique called FTIR (Fourier transform infrared). Instead of separating light into its different wavelengths and measuring each in turn, a probe signal with a broad range of wavelengths is used. An FTIR spectrum can be acquired in seconds, rather than in minutes, as is the case for a traditional dispersive spectrometer.

Steven's Talent Match Story

Production Coordinator, Steven Gerrard, joined Torr Scientific as an apprentice in July 2015. Steven previously attended 'Talent Match' after completing the Prince's Trust TEAM personal development programme. They set about creating an action plan to help him get into work, and also to build his confidence. With guidance from his mentor he applied for apprenticeships, and was quickly offered an interview at Torr Scientific. A year later, Steven completed his apprenticeship and gained a Level 3 qualification in business administration. "My experience with Talent Match and my mentor changed my life and gave me a lot more confidence and focus that helped me greatly in starting my working life at Torr" said Steven who is pictured on the right with apprentice technician Darren Granger in the vacuum optics cell.