TSL

NEWS

Issue 11 - December 2012 www.torrscientific.co.uk

TORR SCIENTIFIC LTD. - Specialists in UHV, Optical and X-Ray Components

Seasons Greetings from Torr Scientific

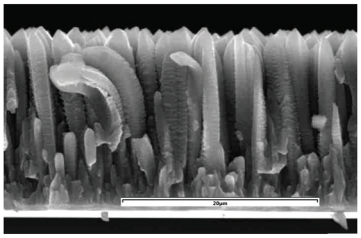
The staff of Torr Scientific would like to thank you for your support and custom during the whole year and are looking forward to working with you in 2013! We wish you a Merry Christmas and a successful, Happy New Year! Please note that our office is closed from 2.30pm on Friday 21st December and re-opens at 8.30am on Wednesday 2nd January.

Sharon and Iain Webster of Torr Scientific took part in the 5th Santa Fun Run and Walk on Sunday 2nd December and were 'jingling all the way' along Eastbourne seafront in support of the Myasthenia Gravis Association.

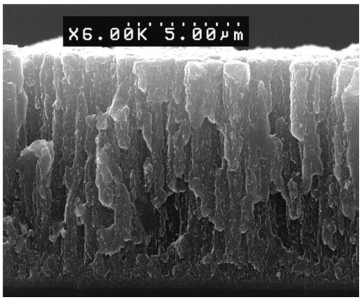
TSL Products:

- AR Coatings
- UHV Viewports
- X-ray sources
- CVD Diamond
- Phosphor Screens
- Filaments
- UHV Components

Coherent Anode Coatings



Before and after. Above, the cross section of a typical aluminium sputter coating compared to below, the improved dense film after the optimum process conditions have been applied.



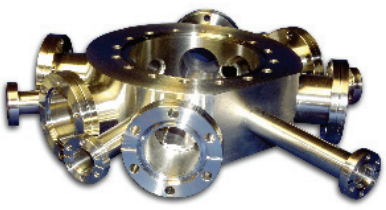
As part of Torr Scientific's X-Ray Source development project, KTP Associate, David Stupple, has been working with the Faculty of Engineering and Physical Sciences at The University of Surrey to maximise the adhesion, thermal conduction and X-ray yield of anode coatings. Images viewed on a scanning electron microscope of a cross section of typical sputtered aluminium coating showed poor surface integrity with many voids in the structure. David researched the optimum sputter coating conditions and reviewed the coating control procedure to deliver the optimum process conditions which has resulted in denser, more coherent films. David has also carried out finite element analysis and Monte Carlo simulation of electron interactions to study the performance of diamond tipped anodes, brazed in the Torr Scientific vacuum furnace. The company offers an X-ray anode refurbishment and recoating service and also welcomes enquiries for customer specific thin film coating and vacuum brazing requirements.

ISO 9001:2008 BSI Registered

BSI registration was obtained by Torr Scientific in October of this year. 'We decided to switch to BSI registration after it was strongly recommended to us during a quality audit by our largest customer' said Managing Director David Bates. Christopher Hardy of BSI reported that the organisation demonstrates a thorough and conscientious approach to its activities in all areas and thanked all staff for their open and friendly assistance during the visit.

Atom Trap Chamber

This UHV chamber was recently shipped inclusive of anti-reflective coated laser viewports. 'We are pleased to quote for chamber, viewport and pump packages' said sales coordinator Ian McGlashan, 'there is growing interest in our ability to design and manufacture compact and non-magnetic UHV chamber and window assemblies.'



BSI's Christopher Hardy awarding the registration certificate to TSL Quality Coordinator Mirander Reilly.

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