



# TSL NEWS

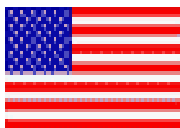
Issue One - April 08

## TSL Rocketing with 'SWARM'

### Going Global



Torr Scientific is delighted to announce the appointment of Cinquepascal as its agent in Italy. Visit [www.5pascal.it](http://www.5pascal.it)



Based in San Jose, U.S. Sales and Technical Manager Richard Enck reports strong sales growth in the USA. Bookings during January and February 2008 have doubled over the same period in 2007.

Torr Scientific is proud to be a component supplier for the upcoming 2010 launch of SWARM. SWARM is a mini-satellite constellation mission within the Earth Explorer Opportunity Program of the European Space Agency. The mission, in development for nearly four years, will provide the best ever survey of the Earth's geomagnetic field (multi-point measurements) and its temporal evolution, to gain new insights into the Earth system by improving our understanding of the Earth's interior and climate. The construction phase for the three SWARM satellites is now under way.

Torr Scientific will supply the key 'Phosphor Coated Fiber Optic Faceplate' which is part of the Canadian Electric Field

Instrument (CEFI) sub-assembly supplied by Com Dev, Ltd. based in Ontario. This instrument is a particle detector that will characterize the electric field about the Earth. Torr's Phosphor Coated Fiber Optic Faceplate converts incoming ions that pass through a particle focusing system into light that can then be analyzed to provide extensive data about the electric field. A total of three CEFI's will be flown, one on each of the three SWARM satellites.

Torr Scientific is leveraging its' extensive experience in high performance phosphor screening to produce Phosphor Coated Fiber Optic Faceplates under strict documentation control as part of Torr's registered ISO 9001 quality system.



Learn more about SWARM on the web at <http://www.esa.int/esaLP/LPswarm.html>

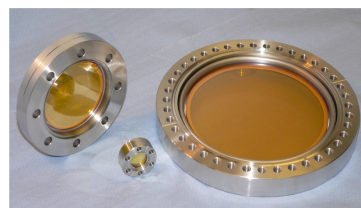


### 10th Anniversary

Formed in the summer of 1998, Torr Scientific Limited is now celebrating its tenth year of business.

### Zinc Selenide

Torr Scientific's range of Zinc Selenide viewports are proving popular with research scientists requiring vacuum windows with infrared transmission. Sales and enquiries for these parts have trebled in the last quarter.



[www.torrscientific.co.uk](http://www.torrscientific.co.uk)

## Viewport 600 launch!

An extensive range of UHV viewports is produced by Torr Scientific to meet a variety of transmission requirements. Viewport optics include Quartz, Sapphire, Magnesium Fluoride, Calcium Fluoride, Barium Fluoride, Zinc Selenide, CVD Diamond and most other optical components. The AR coating service which ranges from single QWOT to multi-layer broad band coatings compliments the viewport range. Standard windows are offered in CF, ISO and KF flanges and include non-magnetic and laser quality options X-ray protection lead glass discs, plus assembly



components such as annealed copper gaskets, clamps and seals are also available. An all combinations price list has been prepared for 2008, comprising over 600 standard viewports. Please contact TSL for a copy!

### TSL Products:

- AR and ITO Coatings
- Viewports
- X-ray sources
- X-ray anodes
- Phosphor Screens
- Filaments
- UHV Components