

## New Optical Tweezer Brochure



A fully revised, expanded, and updated Elliot Scientific Optical Tweezer brochure has been published. This new catalogue covers **all** the Optical Tweezer equipment and systems for laser trapping Elliot Scientific offers. It includes details on:

- Component-based "open architecture" optical tweezers
- Self-contained portable, desktop single beam optical tweezer workstations
- Single spot optical tweezer for integration with commercial microscopes
- Multiple spot optical tweezer under full computer control integrated with commercial microscopes
- Force Measurement accessory for single trap stiffness using a Quadrant Photodetector (QPD)
- Force Measurement accessory for multiple trap stiffness, multiple particle tracking using Camera Particle Tracking (CPT)

The brochure will be available at all of the **events** Elliot Scientific will be attending in 2012. Alternatively, you can **contact us** for a printed copy, **download the PDF** version or read it online via our **Issuu** channel.

## Holmium-doped fibre now in stock at Nufern

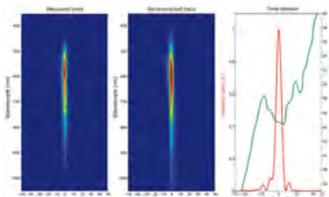


**Nufern** have introduced two Holmium doped fibres, increasing the operational wavelength of their standard range of active fibres to 2150 nm. The result of years of research and development, the fibres feature a double-clad design and the recently developed NuCOAT™ coating technology, which affords greater durability and longer life.

The eye-safe Ho-doped standard fibres available through Elliot Scientific come in two geometrical configurations - a 25 µm core diameter with a 250 µm clad diameter, and a 40 µm core diameter with a 400 µm clad diameter. These fibres achieve 60% efficiency when resonantly pumped with a Thulium fibre laser. The optimal operating wavelength range for Ho-doped fibre is between 2000 and 2150 nm, making them an ideal choice for a variety of medical lasers as well as power scaling for a host of military laser applications such as LIDAR.

For more information about these fibres and others we offer from Nufern, please **contact us**.

## MOSAIC™ OS GDD Module supports pulse durations below 4 fs



The new **MOSAIC™ OS** octave spanning dispersion management module from **FEMTOLASERS** employs pre-aligned dispersive mirrors to exhibit high reflectance over 600 nm of bandwidth - from 400 nm to 1000 nm - and controlled group delay dispersion over more than one optical octave - between 450 nm and 960 nm - to offer pulse durations below 4 fs.

The dispersion of the compressor is matched to the typical chirp of pulses generated from noble-gas-filled hollow fibres seeded with sub-30 fs, mJ-level pulses.

Shown left is a measured FROG trace, a reconstructed FROG trace and the retrieved temporal intensity and phase of 3.6 fs pulses compressed with MOSAIC™ OS from data obtained by Dr. A. Cavalleri at the University of Hamburg. MOSAIC™ OS is the octave spanning upgrade for the FEMTOLASERS' **KALEIDOSCOPE™** hollow fibre compressor.

For more information on this and **FEMTOLASERS'** other products, please **contact us**.



## MadPLL® and Nano-Cyte™LC from Mad City Labs



**Mad City Labs** recently introduced two new systems - MadPLL® and Nano-Cyte™LC - that are now available through Elliot Scientific.

**MadPLL®** is a powerful instrument package that allows a user to create an inexpensive, high resolution resonant scanning probe microscope from Mad City Labs nanopositioning systems. In short, MadPLL® can be used to create an 'instant' closed loop AFM or NSOM at a fraction of the cost of commercial systems. MadPLL® is suitable for nanoscale characterisation and nanoscale fabrication applications such as optical antennas, nano-optics, semiconductors, data storage, and more.

**Nano-Cyte™LC** is an image based, platform independent stabilisation system that changes the nature of live cell imaging. Suddenly, temperature gradients, sample and microscope drift are things of the past as the Nano-Cyte™LC system delivers unprecedented stability in the nanometer regime allowing long term imaging experiments like none before.

For more information on these and other Mad City Labs' products, please **contact us**.

## Lake Shore now offer 3 year warranty



**Lake Shore Cryotronics** has introduced a new three-year warranty for its entire portfolio of probe stations, systems, instruments, and sensors ordered from 2012 onwards. The new warranty guarantees that Lake Shore products will be free from defects in materials and workmanship for three years from shipment of the product although some **exclusions apply**.

Lake Shore's goal in tripling its standard warranty period is to help customers preserve the investment they make when selecting the company's equipment. This new warranty reinforces Lake Shore's belief in its products, which feature superior and reliable designs combined with documented and verifiable specifications.

**Contact us** for more details.

## Elliot Scientific now on LinkedIn



Elliot Scientific has joined over 150 million professionals around the globe on the business social networking site **LinkedIn**.

We currently have over 600 connections to colleagues, clients, academics and students, and are members of several groups and networks involved in optics, lasers, cryogenics and magnetics.

If you are an existing LinkedIn member you may have already received a request to join us. However, if you are not and wish to join up and connect with us on this free network then simply **send us an email** and we'll send you an invitation.

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