SLM: a public company; HYSPEX: SWIR-384 camera; ANSIG Conference: South Australia; ASTROPHYSICS: a Report; LASERLINE: Training. WHAT’S IN MY INBOX: METAL AM.

SLM Solutions
John Grace recently visited SLM solutions in Lubeck, Germany for further training on their laser systems. The meeting included worldwide company representatives and distributors in this fast growing organization.

Having recently floated SLM Solutions is now a public company with an exceptional track record selling into blue chip companies in aerospace, energy, healthcare and the automotive industry. From 2014 to 2015 their order intake more than doubled with an increase of 112%. The significance of this increase is twofold, firstly it indicates the strength of the company, secondly it indicates the fast uptake of this new technology into manufacturing processes especially in Europe and the USA.

If you would like more information about this public company call Raymax on 02 9979 7646 or go to: http://www.stage.slm-solutions.com/download.php?f=93f5c38b432b195c3f70e04ff7640c36

HySpex

HySpex, NEO’s line of hyperspectral cameras, are well-proven, robust, compact, high performance and versatile instruments for a multitude of applications, ranging from airborne to laboratory, field and industrial use of imaging spectroscopy.

The product line comprises VNIR models, operating in the spectral range from 400 to 1000 nm, and SWIR models operating in the spectral range from 950 to 2500 nm. Most of the camera models can be equipped with close-up lenses, thereby enabling the same instrument to be deployed in a wide range of operational scenarios, to meet the users’ demands.

Product example:
HySpex SWIR-384 hyperspectral camera from NEO, is developed for field, laboratory, airborne and industrial applications. The new state of the art MCT sensor with cooling down to 150K yields low background noise, high dynamic range and exceptional SNR levels. With a max frame rate of 400 fps, combined with an aberration-corrected optical system with high optical throughput (f/2), the data quality, speed and sensitivity is truly state of the art.

A wide range of close-up lenses allows the use of the camera at working distances ranging from a few cm with a spatial resolution of 53 µm to infinity for e.g. airborne remote sensing.

ANSIG Conference 18th to 21st April in Moama SA.

You are invited to participate in the seventeenth conference of the Australian Near Infrared Spectroscopy Group (ANISG), co-hosted with the New Zealand Near Infrared Spectroscopy Society (NZNIRSS).
Two separate one-day short courses will precede the meeting. On Monday 18th April, Dr Woody Barton and Dr James de Haseth will conduct a course on NIR spectroscopy and instrumentation. On Tuesday 19th May, leading statistician Professor Tom Fearn will conduct a course on spectral pre-treatment and instrument standardisation. Conference 20th to 21st April

Dr Cédric Chaminade from Raymax will be presenting the MicroNIR and Hyspex (hyperspectral imaging) camera systems


Australia’s involvement in high energy astrophysics:

Australia has been a significant player in cosmic ray research going back at least to the time when Mt Stromlo was first built and spreading out to locations in Melbourne, Hobart, Sydney and Adelaide.

This field of research has become far more concentrated and now Australian cosmic ray physicists are participating in the work of the Pierre Auger observatory in the foothills of the Argentinian Andes. The Observatory has achieved its aim in being big enough to define a cosmic ray spectrum up to 100EeV, measure the arrival directions to degree accuracy and measure the composition of the particles in the beam. Close to completing its baseline aims, the Observatory is now embarking on an upgrade to maintain its leading role in high energy astrophysics.

A report by Emeritus Professor Roger Clay detailing the Observatory’s contribution may be found in the March-April edition (Vol 53:2) of Australian Physics.

With the recent release of the LDF Generation 6 diode laser system Raymax was kept up to date when Cédric flew to Shangahi for training this month on the new LDF modular system.

Setting new benchmarks for high power diode lasers, Generation 6 introduces 25kw laser power in modular units that allow maximum flexibility to improve for equipment usage options, enable individual configuration and adaptation to changing environments and company needs. Modular mobile units mean these high powered lasers can be operated in less than a 1.4 square meter footprint. Whether welding, hardening or brazing, the units have optimally adapted beam quality with maximum user friendliness – a unit can be moved or relocated by a single person.

Already a preferred laser system by Australian companies, LDF Generation 6 offers more options and more scope to grow your business. If you’d like to know more about Laserline LDF Generation 6 diodes, receive a brochure or chat to Cédric contact us on info@raymax.com.au

The latest edition of Metal Additive Manufacturing Magazine! An online publication with all the updates on who is doing what! Highly readable and highly recommended for those who want to embark on this exciting future of additive manufacturing using metals.

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