

PHOTONICS MEDIA









**Top Stories** 

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## Laser Surgery Opens Blood-Brain Barrier to Chemotherapy

### of chemotherapy drugs to patients with glioblastoma — the most common and

A laser probe has been used to open the brain's protective cover, enabling delivery

aggressive form of brain cancer. In a pilot study conducted by the Washington University School of Medicine in St. Louis, Mo., 14 patients with glioblastoma underwent minimally invasive laser surgery to treat a recurrence of their tumors. Heat from the laser was already known to kill brain tumor cells but, unexpectedly, the researchers found that the technology penetrated the blood-brain barrier.

Read Article









#### applications. Excitons are created when a laser is shone onto a semiconductor

Material Controls Excitons at Room Temperature

device. They can transport energy without transporting net electric charge. Inside the device, excitons interact with each other and their surroundings, and then convert back into light that can be detected by sensitive CCD cameras. 

A material that can control excitons — bound pairs of electrons and electron holes

at room temperature could enable optoelectronic devices for commercial



Project





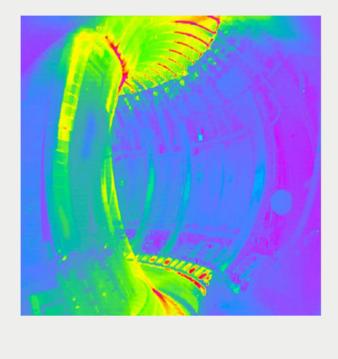


#### fusion research laboratory, to manufacture relay imaging reflective optics for two of its critical viewing diagnostic assemblies. The order will be used for the Joint European Torus (JET), the world's largest operational magnetic confinement

an order from the Culham Centre for Fusion Energy (CCFE), the U.K's national

Optical component and system manufacturer Optical Surfaces Ltd. has announced

plasma physics experiment at CCFE, when operating with a deuterium-tritium fuel mixture. 











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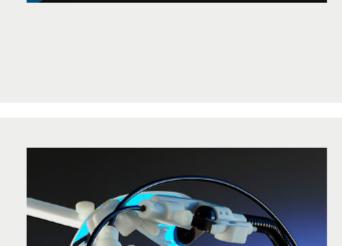


Applied technologies of advanced materials, smart sensor networks, non-destructive evaluation, and structural health monitoring.

#### center as the laser power increases. The new work could add to the number of applications for hollow-core fibers, a new class of fiber that features a hollow core

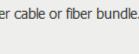
the center of the hollow core, trapping it more and more strongly at the core

rather than one made of glass like traditional optical fibers. Read Article A A B In V Precision Glass & Optics Components Used for Avotec MRI Device



Glass, optics and coating provider Precision Glass & Optics (PG&O) has announced

Light

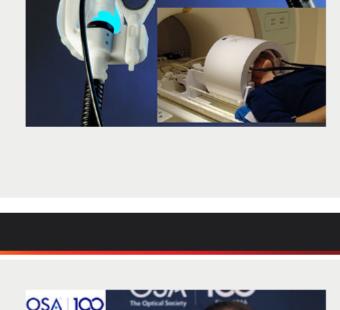


University

#### while the patient's eyes are illuminated with NIR light supplied by an IR LED, fused fiber cable or fiber bundle.

the customization of two thin-film optical components for Avotec Inc.'s Real Eye Nano high-field magnetic resonance imaging (MRI) accessory. The dielectric cold mirror and cylindrical prism mirror were developed for the Real Eye Nano. The system allows an MRI patient to view a unique visual demonstration concurrently

Featured Video



career.

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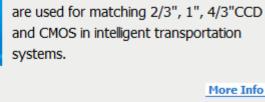
Vision, USB3, and Camera Link.

### ITS Lens/Starlight Lenses FOCtek Photonics

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software that supports over 200 different

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The fundamental purpose of the American Society for Laser Medicine and Surgery's Laser conference is to provide a forum in which scientists, clinicians,

## MARCH 30 - APRIL 3, 2016

#### residents, students, health care professionals, and industry representatives can learn, share, investigate, and create ideas; the outcomes of which are clinical applications that can and have changed the world of patient care.

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