METRO C S S M

Science news in brief

● BARKING MAD: Want to teach your old dog some new tricks you've learned from TV trainers? Well, think twice before you do – they could come back to inte you. Control techniques taught on TV shows are 'ridiculous' and could do more harm than good, experts say. 'Dominance reduction', such as pinning down dogs or grabbing their jowls, does not subdue the animals and could make them aggressive. Iests on wild and pet dogs showed they were not 'motivated by some innate desire to control people', so would not benefit from submissive. Barbara Woodhouse style training, experts at Bristol University said.

● HAPPY HOUR: Cancer drugs could also deal with alcohol addiction. Treatments such as erlotinib play a role in changing a gene dubbed 'happy hour'. When fruit flies and mice were treated with the drug, they grew more sensitive to booze, researchers at California University found. The finding is significant because people with similarly sensitive dispositions (ie they get drunk very quickly) are less likely

Tired sleep

apnea sufferers should avoid

driving after drinking alcohol

American Thoracic Society quickly) are less likely to become alcoholics than those who can drink everyone else under the table, experts believe.

If you have a story for MiniCosm please e-mail us at Cosm@ukmetro.co.uk A 21st century Wonderland

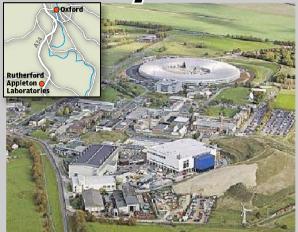
n 1862, Lewis Carroll took a boat trip along the Thames near Oxford. Along the way, he entertained the three daughters of his friend with an improvised tale of a little girl called Alice who followed a white rabbit down a hole to have fantastical adventures in a nonsensical wonderland.

Nearly 150 years and a few miles down the A34 later, down a very modern rabbit hole, there exists an equally fantastical wonderland where invisible objects travelling at impossible speeds are used to perceive the imperceptible.

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neutrons – a subatomic particle with no electrical charge – that can sail effortlessly past these subatomic bouncers to see the beating heart of atoms: the nucleus,

ISIS's first target station (the area where neutrons



are made and experiments performed) opened in 1985 and made Britain a world-leader in the field. Next week, the complex's second target station will be open for business. At a cost of £200million, this sort of technology doesn't come cheap but incredibly, in this day and age at least, it was completed, not just on schedule, but also on budget.

Run by the Science and Technology Facilities Council and located at its Rutherford Appleton Laboratories, Oxford, ISIS is the most powerful pulsed-neutron source in the world-attracting tens of thousands of scientists from all over globe, performing research in chemistry, physics, geology, engineering, biology and even archaeology.

The facility is so good that countries like the US and Japan are spending billions in an attempt to catch up.

The second target station increases our capacity and capability, ISIS director Dr Andrew Taylor told MetroCosm. It keeps us number one in the world and allows us to continue to investigate the technologies of tomorrow that affect everyday lives.

ISIS's experiments are truly groundbreaking. The facility is helping medical researchers develop a new type of glass that will allow patients to regrow their own bones by releasing calcium into the body as it slowly dissolves. Engineers love ISIS because it allows them to peer deep within structures like aircraft wings to pinpoint areas of stress damage or weakness that can usually only be seen by cutting the object up.

The new target station will allow researchers to delve into a new world of neutron imaging by enabling them to see objects at scales of 0.1 nanometres – that's 10,000 times thinner than a human hair

'Curiouser and curiouser', said Alice.

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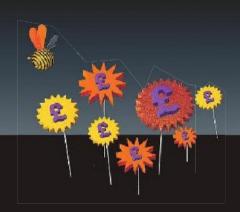
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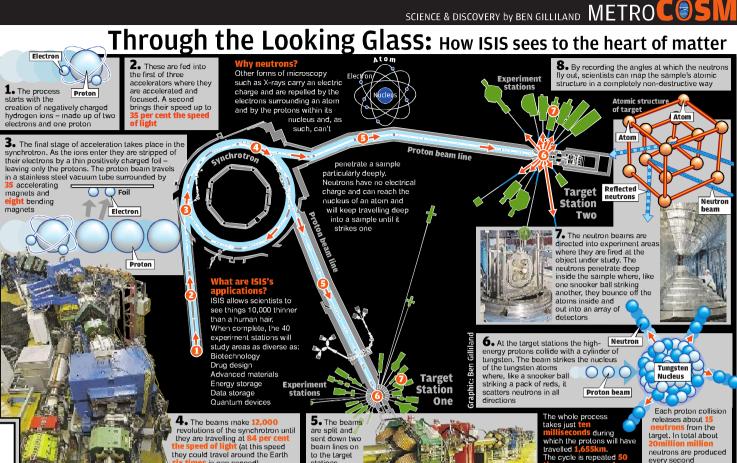
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