

features

Materials 1 Aerogel, the world's lowest density solid and best thermal insulator	24
Materials 2 Nola Wilkinson charts the path towards a titanium industry for Australia	26
Modelling Jeff Crook on the unanswered questions in the Buncefield blast aftermath	28
Commissioning & decommissioning Andy Gibbins explains the practical aspects of managing site closures	30
Pumps 1 Matthias Müller outlines the technical challenges for CCS pumps	33
Pumps 2 Mike Buhagiar comes to terms with net positive suction head	36
Valves A practical guide to accurate measurement, with Bill Menz	38
Instrumentation MCERTS could save you money, argues Tony Hoyle	42

graduate supplement 45

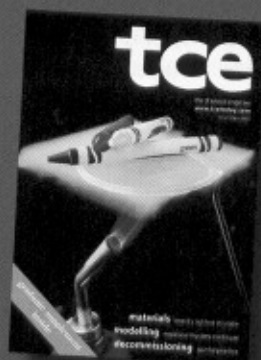
regulars

Catalyst David White evaluates the UK government's decision to restrict CCS funding	4	Day in the life From the classroom to the podium, Jennifer Wilson looks back	61
Analysis Post-combustion in CCS; Pfizer pulls insulin inhaler; BP under ceo's knife; Nobel Prizes; \$10m reward for silver separation	5	Member networks ICHEM's chem envoys take the media limelight; The irrepressible energy of Malaysia's chemeng undergraduates	62
Australia Hazelwood refit for Process Group; Tasmanian pulp mill controversy; New Zealand's energy ambitions	10	In the journals Robert Fowler presents a monthly round-up of the latest research in IChemE's journals	64
Americas Methyl iodide approval draws criticism; New uranium mill for New Mexico	11	People David Sainsbury becomes an honorary Fellow of IChemE	65
Asia Japan ready to buy Tekel tobacco, \$30b "enterprise city"	12	Campus UK's UCAS figures glow, but the resurging interest in chemeng is global	66
UK RWE plans CCS pilot; Teesside's £2b oil plant; Tamen Link pipeline opens	14	University update £1b UK national energy institute goes to Midlands consortium; Nuclear National Skills Academy accepted	67
Contracts Xstrata go-ahead for nickel mine; Indian coal liquefaction enters next phase	16	Diary of events	68
Innovations Green cosmetics; The mechanics of plant aromatics	17	Reactions	70
Process news Nanotube growth for computer chips; A new production root	18	Book review	71
Interview Graeme Armstrong talks to Adam Duckett about the Technology Strategy Board's re-invention	20	Appointments	72
Legalwatch Gordon Bateman reports on IChemE's new <i>International Forms of Contracts</i>	22	Residue Visions of science and technology	84

in the December/January issue

Nanotechnology
Asset management
Packaging

cover story



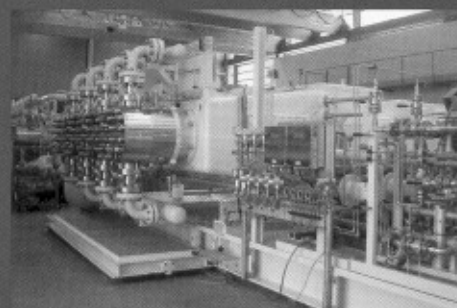
Aerogel: space material meets industry – p24



Prized: Continuous processes to make titanium more affordable – p26



Buncefield: Investigators still can't explain the severity of the explosion – p28



Capture ready?: Pumps used in carbon dioxide sequestration – p33