26

30

32

36

38

40

42

46

50

52

56

58

60

62

22

24

66

67

70

72

74

76

features

_	_		_	_
2				
THE REAL PROPERTY.				
The second second				

guest author

world - p26

Engineering for a better

cover story



Whole system engineering: money matters – p24



Intensification: microreactors tiny steps forward – p58



Renewables: biofuel concerns - p42 scrubber

Interview

Peter Davidson tells Adam Duckett about his

hopes for the fuel-crop Jatropha

Sustainability 1 Richard Darton discusses measurement, development and change Sustainability 2 Green possibilities for business with Colin Chambers Sustainability 3 Boosting butadiene capacity with Bernd Heida Sustainability 4 Lu Feng talks Chinese emissions Sustainability 5 Gordon Weiss and Linda Funnell-Milnar investigate the Global Reporting Initiative Renewables 1 Biofuel considerations with Keith Stewart and Phil Webster Renewables 2 Wendy Laursen reports on the progress of the palm oil industry Renewables 3 Biomass and refining with Martha Simpson-Holley, Adrian Higson, and Geraint Evans Renewables 4 Sean Milmo peers into the biofuel future Green chemistry 1 Roundtable round-up with Berkeley Cue and Julie Manley Green chemistry 2 Karen Peabody O'Brien makes the case for business **Process intensification** Sean Milmo takes a look at the microreactor situation Plant efficiency Improving fuel efficiency with Barry Singh Awards profiles regulars 2 Catalyst Legalwatch Malcolm Wilkinson views the road ahead for Jon Close directs us through the implications of sustainability and chemengers the modified 1996 Construction Act Analysis Guest author Chinese safety standards; Toshiba uranium Whole-system engineering with Imran mine; Pharma cuts; New bubble theory Sheikh and Amory Lovins Australia Day in the life Parliament sees carbon trading proposal; David Brown tells Rob Crossley about his ITER involvement; precarious pulp mill journey from Cambridge University to **TChemF** 10 Japanese battery warning; Kazakh pipe to Member networks China; Indonesian paper cuts Get Chartered update: Popular subject group seminar; Sustainability SG sets up in Australasia New capacity construction; CBI's STEM recommendation; Drigg decision made; People Brown and the BBC; Clive Pratt obituary; Independent monitoring too pricey Water winner 14 Americas Fluoridated water worries; Brazil looks University update global; \$33b education pledge Sydney extracts mining money; Notingham carbon centre; New Queensland VC 15 Contracts Issues at Ignalina; HPPO exported to Campus Thailand; Areva pushes back Olkiluoto Judy Scully tells Adam Duckett about tempting SMEs back to university Innovations 16 Useful finger juice; Chilling chips; Paper Reactions batteries; Switching glue on and off Diary of events Process news Appointments Misplaced energy metric; Novel casting Residue grant; Getting rid of chicken litter; Plastic

20

energy special and awards supplement

in the October issue

Foot in mouth; carbon crazy; animal magic