September 2006 Chemistry Su Doku

					NH_2	Me	OH	
			H			SH	Et	
		NH_2	Et	Me		H		
	Me	H				Ph		
OH	Bu						OMe	H
		Et				Bu	Me	
		Me		OH	OMe	NH_2		
	NH_2	OMe			Et			
	H	OH	Ph					

Bu
Et
H
Me
NH_2
OH
OMe
Ph
SH

Ensure that each row, column and nine-square cell contains each of the functional groups, shown to the side, once

^{3}He	^{15}N	^{235}U	^{37}Cl	^{31}P	^{14}C	^{60}Co	^{131}I	^{57}Fe
^{57}Fe	^{60}Co	^{14}C	^{131}I	^{3}He	^{15}N	^{235}U	^{37}Cl	^{31}P
^{131}I	^{31}P	^{37}Cl	^{60}Co	^{235}U	^{57}Fe	^{14}C	^{3}He	^{15}N
^{37}Cl	^{57}Fe	^{15}N	^{3}He	^{131}I	^{235}U	^{31}P	^{14}C	^{60}Co
^{235}U	^{14}C	^{3}He	^{15}N	^{60}Co	^{31}P	^{131}I	^{57}Fe	^{37}Cl
^{60}Co	^{131}I	^{31}P	^{14}C	^{57}Fe	^{37}Cl	^{3}He	^{15}N	^{235}U
^{14}C	^{235}U	^{60}Co	^{57}Fe	^{15}N	^{131}I	^{37}Cl	^{31}P	^{3}He
^{31}P	^{37}Cl	^{57}Fe	^{235}U	^{14}C	^{3}He	^{15}N	^{60}Co	^{131}I
^{15}N	^{3}He	^{131}I	^{31}P	^{37}Cl	^{60}Co	^{57}Fe	^{235}U	^{14}C

Solution to August 2006 Chemistry Su Doku

The winner of the August 2006 *Chemistry World* Su Doku competition is I MacInnes, Staffin, Skye, UK

The winner of this month's chemistry Su Doku will be published next month. For a chance to win a £25 book voucher, please send your completed Su Doku to the address on p2 or fax to +44 (0)1223 426017 by 12 September.

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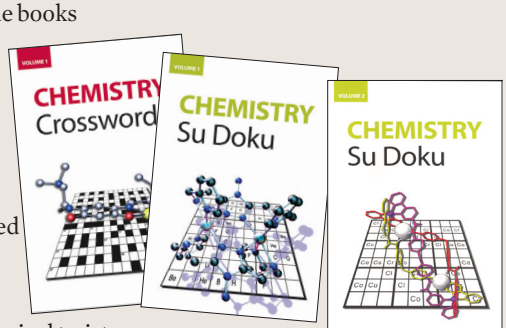

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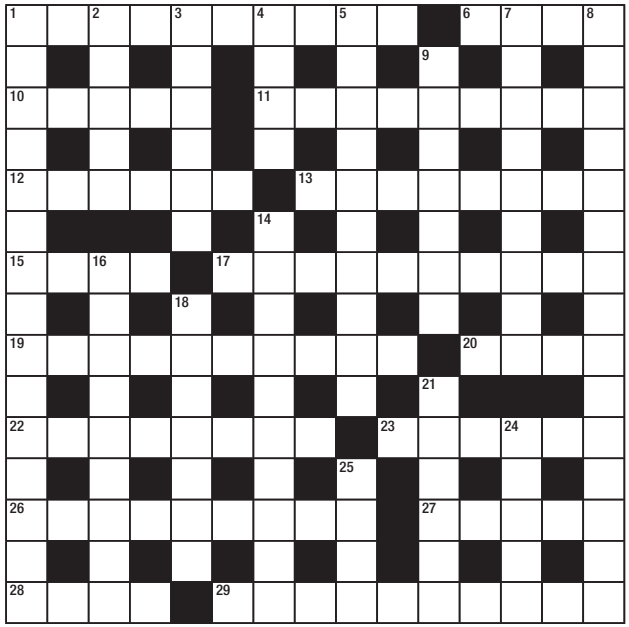
September 2006 Crossword



Across

1 Incinerate nasty nitrogenous compound obtained from urine (10)
6 Small amount of nitroglycerine in luggage causes explosion (4)
10 American author or two (5)
11 Furore with large sum of money needed to obtain device used by joker (5,4)
12 Resembling a type of image formed from one curve (6)
13 The right time for mixing powder used in welding (8)
15 Woman residing in Taunton (4)
17 One is added to eg ethanol after treatment to introduce a bromine atom perhaps (10)
19 Description of bomb in *Chemical & Engineering News* journal (10)
20 Some excellent political activists? (4)
22 American classifies a record possessed by jazz enthusiasts (8)
23 Superhuman commutes two elements including a rare metal (6)
26 Crazy people have cocaine first and marijuana second (9)
27 Fundamental computer language (5)
28 And others can be late returning (2,2)
29 Decoration involved type of pigment (10)

Down

1 Cold HNO_3 eliminates nitrogen transport in metabolic pathway (6,4,5)
2 A long time to muse (5)
3 Cover girl with metal compound obtained from bark (6)
4 Detect hardly any selenium (4)
5 Rehousing b_____ unruly people that live nearby (10)
7 Detest sailor with name not beginning with N (9)
8 Dial Cecil in error and chatter incoherently at first – it's hormonal (11,4)
9 Damaged tyre with skid having lost your head perhaps in a mini (7)
14 Bachelor monarchs overdose on a sodium salt (6,4)
16 Raised in bed, Scotsman has a tobacco plant (9)
18 Girl to take pleasure in being different (7)
21 Agile doctor swimming in river? (6)
24 Musical instrument dropping on singer (5)
25 Go slow in European city? Quite the opposite (4)

T	E	L	E	P	H	O	N	Y	■	F	U	S	E	L
E	■	A	■	O	■	R	■	O	■	U	■	T	■	I
T	A	C	I	T	■	O	X	Y	G	E	N	A	T	E
R	■	E	■	I	■	G	■	O	■	L	■	M	■	B
A	N	D	R	O	G	E	N	■	S	C	A	M	P	I
H	■	■	■	N	■	N	■	A	■	E	■	E	■	G
Y	A	R	D	■	P	E	R	C	H	L	O	R	I	C
D	■	E	■	A	■	S	■	A	■	L	■	E	■	O
R	E	D	U	C	T	I	O	N	S	■	I	R	O	N
O	■	I	■	R	■	S	■	T	■	S	■	■	■	D
F	O	R	M	I	C	■	C	H	L	O	R	I	D	E
U	■	E	■	D	■	L	■	U	■	L	■	D	■	N
R	E	C	E	I	V	E	R	S	■	I	T	E	M	S
A	■	T	■	T	■	A	■	E	■	D	■	A	■	E
N	A	S	T	Y	■	D	I	S	T	I	L	L	E	R

Solution to August 2006 crossword

The winner of the August 2006 *Chemistry World* crossword competition is D G Hopewell, Chipping Norton, UK

The winner of this month's crossword will be published next month. For a chance to win a £25 book voucher, please send your completed crossword to the address on p2 or fax to +44 (0)1223 426017 by 12 September.