

Author Index

- Adams V.**
Prospero 16
- Baker D.**
A View from the Hill 14, 54, 94, 134,
170, 210, 250, 290,
330, 370, 410, 450
Britain in Space 4, 44, 84, 124,
164, 204, 244, 284,
324, 364, 404, 444
World News Analysis 6, 46, 86, 126,
166, 206, 246, 286,
326, 366, 406, 446
A Matter of Record 31
Monitoring The European
Environment 66
The Mighty Atlas - Part One:
The Early Days 96
The Mighty Atlas - Part Two:
A Cold War Imperative 146
The Mighty Atlas - Part Three:
From ICBM to Launch Vehicle 181
The Mighty Atlas - Part Four:
Atlas in Orbit 220
The Mighty Atlas - Part Five:
New Stages for Space 262
The Mighty Atlas - Part Six:
A Cold Start 312
The Mighty Atlas - Part Seven:
Centaur the Workhorse 349
The Mighty Atlas - Part Eight:
A Change of Ownership 471
Friendship 7 100
John Glenn 101
Roadmaps to the Future - Part One 102
Roadmaps to the Future - Part Two 137
Roadmaps to the Future - Part Three 174
NASA Rewrites its Future 140
Orion's Belt 218
SLS Progrss Report No 1 261
Curiosity closes on Mars 304
Curiosity reaches Gale Crater 378
Curiosity Gets Rolling 418
Neil Armstrong 1930-2012 384
Diamonds in the Sky 429
Let the Science Begin! 468
- Burgess C.**
Writing About the Right Stuff 178
- Coué P.**
China's Heavenly Palace 22
The Second Generation Shenzhou 64
- Cutts S.**
With its new Rover on Mars, is
NASA on the edge of going bust? 432
- Day D.**
The Long and Winding Road 56
The Global Comsat - Part One:
The Intelsat III Satellites 143
The Global Comsat - Part Two:
The Intelsat IV Satellites 184
The Global Comsat - Part Three:
The Intelsat IVA Satellites 214
Rare Birds Take Flight 344
CORONA 1961 and the flattery
of theft 465
- Gibbings A.**
Laser Bees 307
- Heide J.**
H-1 No 2015 346
- Irvine M.**
Farnborough 2012 327
- Johnson A.K.**
2001: The Lost Science 392
- Kremer K.**
Curiosity Heads for Mars 60
Shuttle Facility gets CST-100 168
Teens Launch Lego Man 187
ISS Servicing Demo a Success 228
Advanced US Air Force Comsat
Launched 248
Enterprise Arrives in New York 271
Dragon Opens New Space Era 298
Last Look from the Flight Deck of a
Live Shuttle Orbiter 300
NASA Unveils Space-Bound Orion 328
Enterprise Lands on Intrepid 337
Endeavour's farewell to the skies 460
- Long K.F.**
Time for the Stars - The 100 Year
Starship Symposium 20
- Long K.F. and Osborne R.**
Olaf Stapledon 72
- Powell J.W.**
Ship Firings off Cape Canaveral
- Part One: Polaris days 222
- Ship Firings off Cape Canaveral
- Part Two: Poseidon tests 264
- Quine T.**
Tereshkova's Secret Sisters
- Part One 216
Tereshkova's Secret Sisters
- Part Two: The Final Quest 266
A Russian Adventure - Star City 422
- Richards G.**
Satellite Digest 12, 52, 92, 132,
172, 213, 252, 292,
332, 372, 412, 452
- Singh G.**
The Origins of the BIS in
Manchester and Liverpool 316
- Simpson C.**
Seeking consensus on space
exploration 7
- Spall N.**
Preparing for Space 188
Skylon takes another step forward 326
Space Tourism Takes Off - Almost! 340
On becoming a scientist-astronaut
Part One: Familiarization 426
On becoming a scientist-astronaut
Part Two: Flying the simulator 426
- Spiteri G.**
The International Space Station 25, 69,
107, 150, 190, 225, 268,
294, 334, 374, 414, 454
- Stewart M.**
On the Shoulder of Giants
— Remembering the Titans
of the BIS 28
- Van de Haar G. and Van Beest R.**
Watching André Kuipers' Training 110
- Winter F.H.**
Boris Yevseyevich Chertok
1912-2011 104
- Wright K.M.**
Designing against Disaster 254
- Yates M.**
Apollo 16 40th Anniversary Dinner 458

Subject Index

- A**
 Allen, Paul 50
 Alpha Centauri 446
 Apollo programme 114, 237, 384, 458
 Apollo 16 458
 Ariane 5 49
 Asteroids 137, 307
 Astrium 44, 48, 84, 245, 248, 445
 Astronauts
 Acaba, Joseph 294, 334, 374
 Armstrong, Neil 384, 408, 458
 Bizony, Piers 356
 Burbank, Daniel 69, 107, 150, 190, 225, 268, 294
 Carpenter, Scott 178
 Cernan, Eugene 458
 Duke, Charles 458
 Fossum, Mike 25, 69
 Furukawa, Satoshi 25, 69
 Garriott, Richard 445
 Glenn, John 100, 408
 Hire, Kay 460
 Hoshide, Akihiko 374, 414, 454
 Ivanishin, Anatoly 69, 107, 150, 190, 225, 268, 294
 Kononenko, Oleg 87, 107, 150, 190, 225, 268, 294, 334
 Kuipers, Andre 87, 107, 110, 150, 190, 225, 268, 294, 325, 334
 Malenchenko, Yuri 374, 414, 454
 Padalka, Gennady 294, 334, 374, 414, 454
 Patrick, Nick 76
 Payette, Julie 396
 Peake, Timothy 188
 Pettit, Don 87, 107, 150, 190, 225, 253, 294
 Revin, Sergey 294, 334, 374, 414, 454
 Shkapterov, Anton 69, 107, 150, 190, 225, 268, 294
 Tereshkova, Valentina 216, 266
 Volkov, Sergei 69
 Williams, Sunita 374, 414, 454
 Yorkina, Zhanna 216
 Astronomer Royal 354
 Atlas ICBM 96
 ATV 86, 102, 167, 225, 454
- B**
 Baikonur 406
 Bigelow Aerospace 340
 BIS award 76, 117, 234, 238, 315
 BIS history 36, 316
 BIS Project Icarus 278
 Black Arrow 16
 Boeing 8, 10, 168, 209, 366
 Bolden, Charles 53, 209, 210, 261, 370, 408
 Bond, Alan 326
 Branson, Richard 340
 Burgess, Eric 316
- C**
 Cape Canaveral 206, 222, 264, 328
- D**
 Chertok, Boris 59, 104
 China
 CZ-5 programme 88
 Female taikonaut 286
 Lunar programme 130
 Shenzhou programme 64
 Tiangong-1 22, 46, 286
 Clarke, Arthur C 28, 196, 316, 333, 392
 Cleaver, Arthur V 29
 CNES 133
 Commercialization 56, 168, 206, 211, 250, 274, 290, 298, 340, 426
 CORONA 465
 CSA (Canadian Space Agency) 167, 396
 CubeSat 284
 Curiosity 60, 88, 304, 364, 368, 378, 418, 468
- E**
 Daedalus 446
 DARPA 449
 DMC International Imaging Ltd 404
 Dordain, Jean-Jacques 7, 49, 124
 Dragon 54, 207, 287, 294, 450, 456
 Dyson, Freeman 72
- EADS Astrium** 204, 405
Earth Science 448
Edoardo Amaldi 225
ESA
 astronaut training 110, 188
 budget 7, 130
 GAIA 405
 Mars mission 87
 Planck 84
 Remote sensing 66, 90
 Solar Orbiter 245
 Vega 11, 126
ESO 447
Eurocot 130
Excalibur Almaz 429
Extra-solar planets 446
- F**
 Falcon 9 58, 298
 Female cosmonauts 216, 266
 French Guiana 126, 444
- G**
 Garver, Lori 95
 Gatland, Kenneth 31
 Griffin, Michael 410
 GPS 204
- H**
 Hardy David 438
- I**
 IAF 477
 India (ISRO) 90
 Intelsat 143, 184, 214
 Interstellar flight 20, 75
 ISS 25, 69, 102, 107, 150, 190, 225, 268, 288, 294, 334, 374, 414, 454
- J**
 Japan
- JAXA** 244
Satellites 89
JPL 246
- K**
 Kazakhstan 454
 Kennedy Space Center 168, 218, 228, 370, 458
 Kepler (Space Telescope) 446
 Kourou 126
 Kubrick, Stanley 392
- L**
 Launch vehicle
 Angara 194
 Atlas 96, 146, 168, 220, 262, 312, 349, 395, 471
 Delta IV heavy 328
 N1 105
 Proton 209
 Saturn I 346
 Saturn V 458
 Thor-Agena 465
 V2/A4 99
 Leinbach, Michael 49
 Lockheed-Martin 51, 166, 378
 Lunar exploration 174
- M**
 Mars
 craters 364
 exploration 60, 156, 290, 304, 418, 469
 Mars 500 8
 Phobos-Grunt 90
 Robot testing 468
 Mercury programme 100, 178
 Microgravity medicine 324
 Mission control 113
 Moon 232
 Moon rocks 285
 Moore, Sir Patrick 30, 358
 Musk, Elon 290, 298
- N**
 NASA
 Budget 14, 54, 88, 94, 134, 140, 330, 410, 432, 450, 475
 CCDev 366
 COTS 58
 Dawn 209
 GALEX 130
 EPOXI
 JWST 15, 210, 407, 447
 Mars Odyssey Orbiter
 Mars Science Laboratory 60, 88, 304, 364, 368, 378, 418, 468
 MAVEN 211, 407
 MPLM 87, 225
 Orion (MPCV) 8, 95, 137, 174, 218, 251, 259, 328, 450
 Space Launch System 7, 129, 174, 218, 261
 X-15 353, 384
 Near Earth Asteroids 174, 307
 NOAA 246, 406
 NovaSAR 44
 NPOESS 15
- O**
 Obama, Barack 210, 251, 450

Orbital Sciences Corp	211	Scott Alistair	433, 436	U	
Orion (MPCV)	8, 95, 137, 174, 218, 251, 259, 288, 450	Shepherd, Leslie	196	United Kingdom	
P		Skylon	74, 112, 126, 194, 244, 326	Bristol Spaceplanes	157
Parkinson Bob	433	Solar system	446	DMC satellite	45
Polar Operational Environmental Satellites	406	Soyuz TMA-22	268	Human Spaceflight	325
Prospero	16	Space balloon	187	Innovation Centre	204, 284
R		SpaceShipTwo	340, 462	Space development	131
Radiation Belt Storm Probes	413	Space Shuttle		Space education	324
Remote sensing	85, 128, 133	Atlantis	10, 89	Space industry	125, 165
Roscosmos	90	Columbia	156	SSTL	124, 164, 244, 324
RTG	368	Discovery	205, 208	UKSA	4, 44, 85, 204, 405
Russia		Endeavour	10, 300, 460	UKSC	276
Cosmonaut training	110	Enterprise	205, 271, 337, 344	SSTL	44, 124, 404
Designer Bureaus	104	Museum display	271, 458	United States	
Space tourists	424, 426, 462	SSME	10, 257	Air Force	48, 50, 90, 91, 181, 206, 248, 328
Rutan, Burt	50, 340	Thermal Protection System	255	Air Force Spaceplane (X-37B)	46, 287
S		SpaceX	54, 58, 112, 206, 250, 287, 290, 294, 366, 450, 462	Army Corps	181
Safety	254	Stapledon, Olaf	72	National Research Council	246
Satellite Digest	12, 52, 92, 132, 172, 213, 252, 292, 332, 372, 412, 452	SSTL	44	US Navy	166, 222, 264, 408
Satellites	45, 90, 143, 167, 184, 204, 214, 248, 324, 365, 406, 448, 465	Star City	424	Unwin, Martin	165
		Stratolaunch	50	V	
		Sun	446	Vandenberg	44
		Sweeting Martin	404	Virgin Galactic	340, 426
		T		von Braun, Wernher	196
		Taikonaut	64, 286	X	
				XCOR Aerospace	462

Subject Index kindly supplied by Phillip Corneille.

Book Review

Altman P. 18 Questions about Life and the Universe	230	Hunley J.D. The Development of Propulsion Technology for US Space-Launch Vehicles 1926-1991	68	Randers J. 2052: A Global Forecast for the Next Forty Years	355
Barber M.R. et al. Hitler's Rocket Soldiers	230	Johnson S.B. Space Exploration and Humanity - A Historical Encyclopedia	231	Rieke G.H. Measuring the Universe	394
Bond P.R. Jane's Space Systems and Industry 2011-2012	68	Lennox D. Jane's Strategic Weapon Systems	230	Seargent D.A.J. Weird Astronomy: Tales of Unusual, Bizarre, and Other Hard to Explain Observations	32
Chertok B. Rockets and People Vol IV - The Moon Race	355	Logsdon J.M. John F Kennedy and the Race to the Moon	68	Seedhouse E. Interplanetary Outpost	355
Duffet-Smith P. et al. Practical Astronomy with your Calculator or Spreadsheet	33	Long K.F. Deep Space Propulsion	273	Singh G. Yuri Gagarin in London and Manchester: A Smile that changed the World?	32
Evans B. At Home in Space	273	Melosh H.J. Planetary Surface Processes	231	Vakoch D.A. Psychology of Space Exploration: Contemporary Research in Historical Perspective	33
Feigelson E.D. et al. Modern Statistical Methods for Astronomy	394	Meltzer M. When Biospheres Collide	33	Whitfield S. Aurora 7: The Three Orbits of M. Scott Carpenter - The NASA Mission Reports	32
Foerstner A. James van Allen - The First Eight Billion Miles	231	Nicklas B.D. American Missiles - The Complete Smithsonian Field Guide	394	Worden A. et al. Falling to Earth: An Apollo 15 Astronaut's Journey to Earth	32
Hickman J. Reopening the Space Frontier	33	Phillips R.W. Grappling with Gravity	273		
Hill C.N. A Vertical Empire: History of the British Rocketry Programme	68	Plaxco K.W. et al. Astrobiology - A Brief Introduction	33		