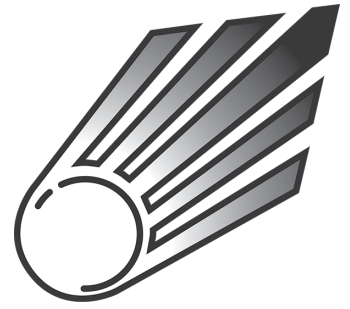


JBIS



Journal of the British Interplanetary Society

VOLUME 65

2012

Issue No:

Themes

1	Starmaker: The Philosophy of Olaf Stapledon
2/3	Astronautics and Space Systems Research at Kingston University
4/5	World Ships - The Long Journey to the Stars
6	World Ships - The Long Journey to the Stars
7/8	100 Year Starship Study 2011: Time-Distance Solutions
9/10	100 Year Starship Study 2011: Education, Social, Economic & Legal Considerations
11/12	General Papers

* * *

Author Index

Adams R.B.	Mission Architectures for Achieving 0.1-0.2c Velocities	261
Arkwright J.S.	Development of a Desktop Hybrid Rocket Motor for Classroom Demonstration	47
Ashworth S.	The Emergence of the Worldship (I): The Shift from Planet-Based to Space-Based Civilisation	140
Ashworth S.	The Emergence of the Worldship (II): A Development Scenario	155
Ashworth S.	The Long-Term Growth Prospects for Planetary and Space Colonies	200
Astakhov V. <i>et al.</i>	Publicly Open Virtualized Gaming Environment for Simulation of all Aspects Related to “100 Year Starship Study”	320
Baxter S.	Where was Everybody? Olaf Stapledon and the Fermi Paradox	7
Ceyssens F. <i>et al.</i>	On the Organization of World Ships and other Gigascale Interstellar Space Exploration Projects	134
Crawford I.A.	Stapledon’s Interplanetary Man: A Commonwealth of Worlds and the Ultimate Purpose of Space Colonisation	13
Cress B.	Icarus Institute for Interstellar Sciences (IIS)	306
Crowl A. <i>et al.</i>	Embryo Space Colonization to Overcome the Interstellar Time/Distance Bottleneck	283
Crowl A. <i>et al.</i>	The Enzmann Starship: History & Engineering Appraisal	185
Galea P.	Communication with World Ships – Building the Diasporanet	180
Galea P.	Machine Learning and the Starship – A Match made in Heaven	278
Gifra M. <i>et al.</i>	Strategic Roadmap for the Development of an Interstellar Space Program	341
Hein A.M. <i>et al.</i>	World Ships – Architectures & Feasibility Revisited	119
Hein A.M.	Evaluation of Technological/Social and Political Projections for the Next 100-300 Years and Implications for an Interstellar Mission	330
Hempell M.	Space Stations using the Skylon Launch System	392
Hempell M.	Space Station Element Commonality Between LEO and Lunar Infrastructures	402
Ismail A.M. <i>et al.</i>	The Potential of Aluminium Metal Powder as a Fuel for Space Propulsion Systems	61
Kammash T. <i>et al.</i>	Fusion-Driven Space Plane for Lunch System	388
Keane R.L. <i>et al.</i>	Beamed Core Antimatter Propulsion: Engine Design and Optimization	382
Landis G.A.	A Landsailing Rover for Venus Mobility	373
Matloff G.L.	World Ships: The Solar-Photon Sail Option	114
Matloff G.L.	Interstellar Light Sails	255
Matloff G.L.	Graphene: The Ultimate Interstellar Solar Sail Material?	378
Millis M.G.	Space Drive Physics, Introduction & Next Steps	264
Nosanov J. <i>et al.</i>	The 34 Year Starship	310
Obousy R.K.	Project Icarus: A Review of Interstellar Starship Designs	225
Obousy R.K.	Project Icarus: A 21 st Century Interstellar Starship Study	325
Osborne B. <i>et al.</i>	Short Duration Reduced Gravity Drop Tower Design and Development	71
Osborne B. <i>et al.</i>	Two Degree of Freedom Model of Chaotic Dripping in Reduced Gravity	77
Osborne B. <i>et al.</i>	Comparison of Satellite Surveying to Traditional Surveying Methods for the Resources Industry	98
Parrinder P.	The Earth is my Footstool: Wells, Stapledon and the Idea of the Post-Human	20
Sawyer A.	The Future and Stapledon’s Visions	25
Smith T.	Review, Analyses, and Recommendations Related to Modern International use of Nuclear Space Technologies with Focus on United States and Russia	360
Stanic M.	Project Icarus: Nuclear Fusion Propulsion Concept Comparison	232
Stapledon O.	Interplanetary Man?	30
Swinney R. <i>et al.</i>	Project Icarus: Exploring the Interstellar Roadmap using the Icarus Pathfinder and Starfinder Probe Concepts	244
Trunins J. <i>et al.</i>	Design of a mars Rover Mobility System	87
Tziolas A.	Starflight Academy: Education in Interstellar Engineering	294
Welch C. <i>et al.</i>	KUSPACE: Embedding Science, Technology, Engineering and Mathematics (STEM) Ambassador Activities in the Underground Engineering Curriculum	105

Invited Commentary

Benford J.	We Should Develop Beamed Power Sailships	112
Ellery A.	Asteroid Ho! Robotics is the Key to Space Exploration	44
Matloff G.L.	Olaf Stapledon and Conscious Stars: Philosophy or Science?	5

Technical Notes

Hale A.	Project Icarus: Kepler-22B and What it Means	410
---------	--	-----

