	ELGRA 2024 Detailed Program					
Tuesday 3rd September						
14:00 - 20:00	Registration					
15:45 - 16:00	Opening Ceremony: Welcome to the ELGRA Conference					
16:00 - 17:00	17:00 Cross Space Agency talks on the future of gravity related research					
17:00 - 18:00	18:00 Introduction to Poster Session					
18:00 - 20:00	Welcome Reception (The Spine)					
	Wednesday 4th September					
08:15 - 08:45	5-08:45 Welcome Refreshments & Networking					
08:45 - 09:15	15 Welcome to the Conference: Presentation on the History & Future of ELGRA					
09:15 - 10:30	:30 ELGRA Medal Talks					
10:30 - 11:00	Refreshment Break & Networking					

08:15 - 08:45 08:45 - 09:15	Welcome Refreshments & Networking Welcome to the Conference: Presentation on the History & Future of ELGRA					
09:15 - 10:30						
10:30 - 11:00	Refreshment Break & Networking					
11:00 - 13:00	1.1 - Life Sciences: Cell Biology, Genetics and omics	1.2 - Physical Sciences: Soft Matter, Complex fluids and Vibrations	1.3 - Life Sciences: Human Physiology and Performance	11:00 - 13:00	1.4 - Life Sciences: Plant Biology adaption and response to space	
11:00	145 - Cell biological experiments in sustainable and multi-usable hardware for studies under altered gravity conditions	39 - Analysis of the mass transport properties of polymeric mixtures under microgravity conditions: DCMIX4 campaign	102 - A Citizen Science Approach to Crowdsource Decision Making for Systematic reviews in Space Medicine	11:00	160 - Conserved molecular responses to Spaceflight; Insights from the Advanced Plant Experiment APEX-07	
11:15	166 - Gene expression changes of neuronal cell types induced by altered gravity	58 - Soret and thermodiffusion coefficients of C60 THN Tol ternary nanofluid mixture: Evaluation of the DCMIX4 experiment	161 - Theoretical Foundations of Neuroeconomics in Enhancing Astronaut Well- being and Decision-Making in Space	11:15	180 - Plant posture in space: proprioception as a new player in gravitational biology	
11:30	170 -Acoustic Levitation of Cyanobacteria in Weightlessness	116 - Role of composition-dependent cross-diffusion on emergence of instabilities in ternary mixtures	190 - Biopsychosocial health considerations for astronauts in long duration spaceflight and interplanetary exploration: A Narrative Review	11:30	24 - LAZY but effective: Deciphering the role of LAZY genes in regulating root architecture	
11:45	171 - Influence Of Gravity Variations On The Calcic Activity Of Neuronal Spheroids In Acoustic Levitation	141 - Ultrasonic Cooling System in Microgravity	140 - No Longer Earthlings: Fieldwork on the MEILI Space Exploration Analogues	11:45	13 - How effective is the Random Positioning Machine in providing an analogue for plant spaceflight studies?	
12:00	152 -Strain-Dependent Microgravity's Effect on Mouse Kidney Genes Expression	76 - ZBOT-FT: Investigation of liquid removal in microgravity using Screen Channel Liquid Acquisition Device	200 - A toolkit for the design of orbital experiments and their corresponding twin comparative experiments on Earth	12:00	109 - Growth and transcriptomics of Arabidopsis grown under fractional gravity in the EMCS	
12:15	118 -Advancements in Microscopic Observation Technology for Space Bio-Experiments	115 - Advances In Soft Matter Characterization Capabilities For Lunar Exploration: Ddm To Spectroscopy To Computer Vision	182 - The Impact of Microgravity on Dental Procedures: A Parabolic Flight Study	12:15	178 - Fungal exposure to simulated microgravity on several artificial Martian and lunar regoliths	
12:30		95 - Two-dimensional emulsions of islands in thin free-standing fluid films		12:30		
13:00 - 14:15	2.1 - Life Sciences: Cardiovascular	2.2 Dhysical Calman Material	Lunch & Networking		2.4 - Life Sciences: Life Support systems,	
14:15 - 16:00	2.1 - Life Sciences: Cardiovascular Physiology	2.2 - Physical Sciences: Material Science		14:15 - 15:00	2.4 - Life Sciences: Life Support systems, Agriculture and Life Support Systems	
14:15	105 - The Autonomic Response to 60 Minutes of Head-Down Tilt Exposure	74 - Thin liquid film coating and drying under microgravity conditions. Sounding rocket experiments: Wet chemistry deposition		14:15	50 - Developing plant cuttivation technologies for space at DLR - from Antarctica to the Moon	
14:30	167 - Gravitational effects on lower limb perfusion observed during a parabolic flight.	20 - Convective regimes of planetary atmospheres in theAtmoFlow spherical shell experiment: Solid- body anddifferential rotation		14:30	2 - TICTOC (Targeting Improved Cotton Through Orbital Cultivation): stress resistance in cotton grown on the ISS	
14:45	138 - Venous Thrombosis during Spaceflight	183 - How to squeeze your lab setup into a space instrument				
15:00	142 - Point of care ultrasound (POCUS) beyond lower earth orbit and space exploration	40 - Synthesis of catalyst nanomaterials for photoelectrochemical water-splitting in microgravity		15:00 - 16:00	ISLSWG Plants in Space Workshop - Theme 1: Plant Adaptation and Response to Space Environmental Stress	
15:15	38 - Abnormal Mitral Valve-Related Parameters Following Long- Duration Spaceflight.	10 - Thermally controlled space habitats using phase change materials		15:00	Welcome Remarks - 203	
15:30	99 - Orthostatic Intolerance in a Model of Lunar Descent and Ascent and Possible Countermeasures	185 - ForgeStar - a returnable and reusable in-space manufacturing and research vehicle		15:05	Introduction & Goals - 204	
15:45				15:15	Theme 1 Overview - 219	
				15:20	15 - Quantum Biology of Plant Magnetoreception: growing plants outside the Geomagnetic Field	
16:00 - 16:30		Refreshment Break & Network	ding	15:40	135 - Engineering plant adaptation to spaceflight: Insights from Arabidopsis, cotton and tomatoes	
16:30 - 18:15	2.3 - Gravity Related platforms and Launch Services			16:00 - 16:30	Refreshment Break & Networking	
16:30	156 - The SubOrbital Express Shared Module for Cubesat-sized payloads for research in microgravity			16:30 - 18:15	ISLSWG Plants in Space Workshop - Theme 1: Plant Adaptation and Response to Space Environmental Stress Continued	
16:45	154 - The SubOrbital Express 3 and 4 Rideshare Missions in 2022 and 2024 for Microgravity Research			16:30	91 - Ionizing radiation and higher plants in space exploration: challenges, constraints, and opportunities	
17:00	60 - ICE Cubes Service for fast and direct access to the International Space Station			16:50	89 -Elucidating the impact of spaceflight on plant immune responses	
17:15	136 - Enabling microgravity research - from LEO to the Moon			17:10	48 - Is space a stressful environment for plants?	
17:30	30 - Towards a ground-based partial- gravity platform and big scientific data with the GraviTower Bremen Pro			17:30	131 - Growing beyond Earth: Telomere tales of Arabidopsis in lunar regolith and on the ISS	
17:45	69 - UAS for reduced gravity testing - a comparison against traditional systems			17:50	214 - Discussion on Plant Space Stressors	

1915 1- 100 1- 1				Thursday 5th Thursday		
1.00	08:15 - 18:00					
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	08:15 - 08:45	Welcome Refreshments & Networking				
College Coll	08:45 - 09:00		Opening Remarks		09:00 - 10:40	ISLSWG Plants in Space Workshop - Theme 2: Plants for Life Support Systems (ECLSS) in Space
1935 1932 - Springer in North Common Control Processing Common Control	09:00 - 09:45	collaboration with ESA & partners to			09:00	Theme 2 Overview - 208
9.91. Private STRA Space, from Act to the Vertical Control of the Vertical Con	09:00				09:05	132 - Space Crop Production Gaps and Challenges
## An overwise of our completion. ## April Discussion Space Education. What Need ## Part Education Space Education. In the Part Education Space Edu	09:15	Pathway to STEM & Space, from Asia to			09:25	129 - Future planning of JAXA's plant growth facility forlong-term cultivation experiments.
### Principles of the Continuence of the Continuenc	09:30	An overview of our campaigns,			09:45	23 - C.R.O.P. * - Combined Regenerative Organic- food Production - Biofilter to close the nitrogen cycle
10:0-1-100 11:0-1-100 12: Changes in endocanablood profession continues and profession of the continues and profession and	9:45 - 10:15	F	Panel Discussion: Space Education - Wi	hat Next	10:05	128 - ESA Higher plants compartment development for closed regenerative life support system: status and challenges
11-10-100 12- Change in excensionability of the properties of the					10:25	Surprises: Lessons Learned from Plants Grown in
1109-1300 1109-1300	10:15 - 11:00		Refreshment Break & Networkin	g	10:40 - 11:00	Refreshment Break & Networking
11-10 12- Changes in endocamenholood specification of convergentiation of specification and construction of the production of the specific and non-convergentiation and construction of the production of the specific and non-convergentiation and construction of the production of th	44.00 40.00	4.1 - Life Sciences: Bone, Muscle and	4.2 - Physical Sciences: Granular	4.3 - Physical Sciences: Marangoni	44.00 40.00	ISLSWG Plants in Space Workshop - Theme 2:
### Part of the first of the following from the first of		12 - Changes in endocannabinoid	94 - Granular gases consisting of non- spherical and non-convex particles: experiments, simulations and data	4 - Optical diagnosis of melting bridges in the	11:00 - 13:00	
1139 of Select Finis for Nationautical Support of 1997 (1997) and plant growth and product in the EUD PSTA Representation in Medicing party (PSTA) experiments with the EUD PSTA Representation in Medicing party (PSTA) experiments with the EUD PSTA Representation in Medicing party (PSTA) experiments with the EUD PSTA Representation in Medicing party (PSTA) experiments with the EUD PSTA Representation in Medicing party (PSTA) experiments with the EUD PSTA Representation in Medicing party (PSTA) experiments in Medicing party (PSTA) experiments in Colored and Open Systems (Colored and Ope	11:15			melting via convective flows and container	11:00	148 - Optimal Greenhouse Design for Applications in Life-Support Systems
12:00 The Find Improvement of Clause and Open Systems Clause and	11:30	Ageing Trials for Nutraceutical Support of Skeletal Muscle Oxygenation in	in the EDDI-PASTA experiments		11:15	123 - Impact of light on plant growth and product quality in candidate crops for space farming
12-02 Continuous microgravity prepriess of large certifugation as countermessure. In microgravity hough timely melting- solidification cycle interruption 12-09 Advances in Plant Gravitational Biology and Space Genomics 12-09 Elastic Properties induced by Microgravity A Properties induced by Microgravity A Project Station 104 - Rotations and translations in control of the surface in microgravity 12-00 Them 3 Oyenview - 210	11:45	Microgravity (HIFIm): The future of	Fluidization of Lunar Regolith in	Marangoni and buoyant convection in LiBr –	11:30	Discussion on Plants for ELCSS - 215
12:15 Elastic Proposites Induced by Microgarity A Proposal. 104 - Notations and translations in Microgarity A Proposal. 105 - Microgarity Studies of Emulsions Destabilisation within the ESA MAP project EDDI 150 - Microgarity Studies of Emulsions Destabilisation within the ESA MAP project EDDI 150 - Microgarity Studies of Emulsions Destabilisation within the ESA MAP project EDDI 150 - Microgarity Studies of Emulsions Destabilisation within the ESA MAP project EDDI 150 - Microgarity Studies of Emulsions Destabilisation within the ESA MAP project EDDI 150 - Microgarity Studies of Emulsions Destabilisation within the ESA MAP project EDDI 150 - Microgarity Studies of Emulsions Destabilisation within the ESA MAP project EDDI 150 - Microgarity Studies of Emulsions Destabilisation within the ESA Map project EDDI 150 - Microgarity Studies of Emulsions Destabilisation within the ESA Map project EDDI 150 - Microgarity Studies of Emulsions Destabilisation within the ESA Map project EDDI 150 - Microgarity Studies of Emulsions Destabilisation within the ESA Map project EDDI 150 - Microgarity Studies of Emulsions Destabilisation within the ESA Map project EDDI 150 - Microgarity Studies of Emulsions Destabilisation within the ESA Map project EDDI 150 - Microgarity Studies of Emulsions Destabilisation in microgarity with the ESA Map project EDDI 150 - Microgarity Studies of Emulsions Destabilisation in microgarity with the ESA Microgarity Studies of Emulsions Destabilisation in microgarity with the ESA Map project EDDI 150 - Microgarity Studies of Emulsions Destabilisation in microgarity with the ESA Map project EDDI 150 - Microgarity Studies of Emulsions Destabilisation in Commondation of the Emulsions Destabilisation in Commondation in the ESA Map project EDDI 150 - Microgarity Studies of Emulsions Destabilisation in Commondation in the ESA Map project EDDI 150 - Microgarity Studies of Emulsions Destabilisation in Commondation in the ESA Map project EDDI 150 - Microgarity Studies	12:00	continuous microgravity or periods of	emulsions observed by experiments	Microgravity through timely melting-	12:00	Advances in Plant Gravitational Biology and Space
and antibiotic production of Marine Actinobacterial in the international Space Station 12:35 12:35 12:35 13:41:65 Sciences: Station 14:15 14:15 14:15 14:15 14:15 15:14:16 Sciences: Brain & Nervous System, Psychology 14:15 14:15 15:14:16 Sciences: Brain & Nervous System, Psychology 15:14:16 Sciences: Brain & Nervous System, Psychology 15:14:16 Sciences: Brain & Nervous System, Psychology 16:15 16:14:16 Sciences: Brain & Nervous System, Psychology 16:15 16:14:16 Sciences: Brain & Nervous System, Psychology 16:15 17: Perception of self-motion on the infernational Space Station 18: Susy Plants in Space Workshop- Thema: 3- Advances in Plant Gravitational Biology and Spa Genomics Continued 18: System Brain & Nervous System, Psychology 18: System Brain & Nervous Advances in Plant Gravitational Biology and Spa Genomics Continued 18: System Brain & Nervous Advances in Plant Gravitational Biology and Spa Genomics Continued 18: System Brain & Nervous Advances in Plant Gravitational Biology and Spa Genomics Continued 18: System Brain & Nervous Advances in Plant Gravitational Biology and Spa Genomics Continued 17: Following on board the ISS 18: System Brain Gravitational Biology and Spa Genomics Continued 18: System Brain Gravitational Biology and Spa Genomics Continued 17: Following and Space Workshop- Immunity on Brain Gravitational Biology and Spa Genomics Continued 17: Following and Space Workshop- Immunity on Brain Gravitational Biology and Spa Genomics Continued 17: Following and Space Workshop- Immunity on Brain Gravitational Biology and Spa Genomics Continued 18: System Brain Gravitational Biology and Spa Genomics Continued 18: System Brain Gravitational Biology and Spa Genomics Continued 18: System Brain Gravitational Biology and Spa Genomics Continued 19: System Brain Gravitational Biology and Spa Gen	12:15	Elastic Properties Induced By			12:00	Theme 3 Overview - 210
13:00 - 14:15 14:15 - 15:45 14:15 - 15:45 14:15 - 15:45 15 - 1- Life Sciences: Brain & Nervous System, Psychology 14:15 - 15:45 17 - Perception of self-motion on the International Space Station 18 - Vestibular integration in modified gravity and motion sickness 18 - Particle Structure Formation in Thermo-vibrational Convection Driven by Differentially Healed Comes Under Hicrogravity 18 - Particle Structure Formation in Thermo-vibrational Convection Driven by Differentially Healed Comes Under Hicrogravity 19 - Multisensory integration for verticality perception. 29 - Neural Correlates Of Vestibular Adaptation in Space (President) 29 - Neural Correlates Of Vestibular Adaptation in Space (President) 29 - Neural Correlates Of Vestibular Adaptation in Space (President) 29 - Spatial Orientation Perception Divent by Differential Space (President) 29 - Spatial Orientation Perception Orient Space (President) 29 - Spatial Orientation Perception Orient Space (President) 29 - Spatial Orientation Perception Orient Space (President) 30 - Spatial Orientation Perception of Space (President) 30 - Spatial Orientation Perception of Space (President) 40 - HieroAge Missions: Microgravity as a Model for Accelerated Skeletal Muscle Ageing President Adaptation in Cosmonauta After Long Childron validated against a 16 LNZ Experiment 30 - Spatial Orientation Perception Following a Centrifugation-induced Gravity Transition of Windows (President) 41 - Lunar and mars gravity induce similar changes in spinal motor control as microgravity 41 - Liver-Cell Imaging of astrocytic reactivity adaptation in Space (President) 42 - Neural Correlates of Vestibular Age (President) 43 - The emergence of angle dependence in gravity and case for Space Diology Education: A case for Space Diology Education: A case for Space Omics. 43 - The emergence of angle dependence in gravity induce in microgravity in a case for Space Omics. 45 - The need for Space Diology Education: A case for Space Omics. 46 - The mark Characterization of Sp	12:30	and antibiotic production of Marine Actinobacteria in the International	Emulsions Destabilisation within the		12:05	questions in plant gravity perception and early
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14:15 - 15:45 S.1 - Life Sciences Strain & Nervous System, Psychology Pflows 14:16 197 - Perception of self-motion on the International Space Station 14:30 197 - Perception of self-motion on the International Space Station 14:30 197 - Perception of self-motion on the International Space Station 14:30 197 - Perception of self-motion on the International Space Station 14:30 197 - Perception of self-motion on the International Space Station 15:00 199 - Multisensory integration for Verticality perception. 15:10 199 - Multisensory integration for Verticality perception. 16:10 199 - Neural Correlates Of Vestibular Adaptation in Cosmonauts After Long Duration Spaceflight 179 - Perception of Self-motion of Verticality perception. 179 - Experiment hardware for life science and 2 14:15 193 - Gravity sensing in plants: the contribution of 2 200 - Non-Condensable Gases on Propellant Tank Pressurization and Pressure Control 29 - Neural Correlates Of Vestibular Adaptation in Cosmonauts After Long Duration Spaceflight 29 - Neural Correlates Of Vestibular Adaptation in Cosmonauts After Long Duration Spaceflight 292 - Spatial Orientation Perception 293 - Spatial Orientation Perception 294 - Spatial Orientation Perception of water droptet aerosols in microgravity on dividender validated against a 1 G LNZ Experiment 295 - Spatial Orientation Perception of Water droptet aerosols in microgravity 200 - Cell Micro-Rheology Under Hypergravity Conditions 201 - Self-motional Perception of Water droptet aerosols in microgravity 202 - Cell Micro-Rheology Under Hypergravity Conditions 203 - Ferry-Reficient Coygen and Fuel Production in (Photo-Pietertochemical Devices in Microgravity Environment) 204 - Energy-Efficient Coygen and Fuel Production in (Photo-Pietertochemical Devices in Microgravity Environment) 205 - Fluthias-Ess 218 - Controlling plant root electrotropism to optimize production in (Photo-Pietertochemical Devices in Microgravity Environment) 206 - Cell Micro-Rheology Under Hypergravity on duration of a microgravity on duration	13:00 - 14:15			Lunch & Networking		·
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14:45 9 - Multisensory integration for verticality perception. Soft he ZBOT-NC Experiment - Effects of Non-Condensable Gases on Propellant Tank Pressurization and Pressure Control 15:00 29 - Neural Correlates of Vestibular Adaptation in Cosmonauts After Long Duration Spaceflight 15:15 92 - Spatial Orientation Perception Following a Centrifugation-induced Gravity Transition 15:30 14:35 139 - Controlling plant root electrotropism to optimise root growth in microgravity 29 - Experiment 15:16 15:10 29 - Spatial Orientation Perception Following a Centrifugation-induced Gravity Transition 15:17 - The need for Space Biology Education: A case for Space Omics. 15:18 15:10 275 - New Depths of Plant Regulation in Spaceflight through profiling of miRNA, and ribosome associated mRNAs 15:30 147 - Lunar and mars gravity induce similar changes in spinal motor control as microgravity 15:30 34 - Energy-Efficient Oxygen and Fuel Production in (Photo) Electrochemical Devices in Microgravity Environment 16:00 - 16:30 16	14:30		80 - Particle Structure Formation in Thermo-vibrational Convection Driven by Differentially Heated		14:15	
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15:15 Following a Centrifugation-Induced Gravity Transition of water droplet aerosols in microgravity and incorporate and inco	15:00	Adaptation In Cosmonauts After Long	Regime Transitions during Line Chilldown validated against a 1G LN2		14:55	
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15:45 Production in (Photo-)Electrochemical Devices in Microgravity Environment FLUMIAS-ISS 15:40 Discussion on Plant Gravitational Biology/Omics 216 Refreshment Break & Networking	15:30	similar changes in spinal motor control	Deployable Pulsating Heat Pipe in	of skeletal muscle loss under microgravity and	15:25	Simulated Microgravity: Towards Understanding
16:00 - 16:30 Refreshment Break & Networking	15:45		Production in (Photo-)Electrochemical Devices in	adaptations under space conditions using	15:40	Discussion on Plant Gravitational Biology/Omics - 216
16:30 - 17:30 ELGRA General Assembly	16:00 - 16:30			Refreshment Break & Networking		
	16:30 - 17:30					
19:30 - 00:00 Gala Dinner (Hilton Hotel)	19:30 - 00:00	Gala Dinner (Hilton Hotel)				

			Friday 6th September		
08:30 - 13:00			Registration		
				08:30 - 09:00	Welcome Refreshments & Networking
				09:00 - 10:30	ISLSWG Plants in Space Workshop - Theme 4: Enabling Technologies for Crop Production in Space and Applications for Earth Agriculture
				09:00	Theme 4 Overview - 220
				09:05	122 - NASA Human Research Program Food and Nutrition Risk Strategy
				09:25	149 - A Canadian roadmap towards a Lunar Agricultural Module
				09:45	5 - Verification of root hydrotropism by spaceflight experiments and its application to agriculture
10:00 - 11:00		Welcome Refreshments & Network	cing	10:05	134 - European Space Agency's Plant Biology Research for Future Space Exploration
11:00 - 13:00	6.1 - Life Sciences: Brain & Nervous System, Psychology	6.2 - Physical Sciences: Multiphase Flows		10:25 - 11:00	Refreshment Break & Networking
11:00	25 - Prisoners of Gravity: Gravity as a Hyper-Prior for Human Behaviour	137 - CRYSALIS – Acoustic technologies for a European Cryogenic Storage and Refuelling In- orbit Demonstration		11:00 - 13:00	ISLSWG Plants in Space Workshop - Theme 4: Enabling Technologies for Crop Production in Space and Applications for Earth Agriculture
11:15	112 - Assessment of Spaceflight Associated Neuro-Ocular Syndrome Countermeasures in a Spaceflight Analog	159 - Fluids Experiments in Commercial Sub-orbital Spaceflight		11:00	19 - P4S: an international research centre re-designing plant, food and bioresource production for Space and Earth
11:30	26 - How gravity contributes to perceived weight	68 - Filling of a tank with storable liquid under normal gravity and microgravity conditions		11:20	139 - Lunar Effects on Agricultural Flora (LEAF) Beta Experiment, An Overview
11:45	87 - VENTRICULAR VOLUME CHANGES ACROSS MULTIPLE SPACEFLIGHTS	83 - Data-driven thermodynamic modeling of microgravity sloshing: outcomes from the 83rd ESA parabolic flight campaign		11:40	126 - Leafy Greens: Exploring Physiology and Consumer Acceptability on Earth and Space-Simulated Environments using Digital Technologies
12:00	125 - Unveiling Retronasal Aromas and Mouthfeel Perception in Space- Simulated Environments: Improving Palatability for Extended Missions	88 - Experimental Characterisation of Sloshing-Induced Thermal Mixing under Gravity-Dominated and Microgravity Conditions for Space Applications		11:55	196 - Introduction of Kibo utilization missions for plant production in microgravity
12:15	86 - White Matter Changes After Long- Duration Spaceflight – New Insights			12:10	35 - Gene circuits to engineer plant form and function for agriculture on Earth and beyond
12:30	199 - Oxytocin's Role in Space Team Dynamics and Cognition: A Neuroeconomic Perspective			12:25	Discussion on Enabling Technologies - 217
				12:45	221 - Next Steps and Plans for Drafting New Phytologist Viewpoint Article
13:00 - 14:00			Farewell Lunch		
14:00 - 17:00	UKSA Workshop - What next for UK Gravity Related R&D (form microgravity to Lunar and beyond)				