The 5th Forum for New Leaders in Space Science December 2-3, 2016

(*Version 2.2*)

Draft Agenda:

December 1, 2016

Registration	13:00-18:00	Lobby of Liaoning Hotel
Welcome Reception	18:30-22:00	TBD

December 2, 2016

INTRODUCTION: Chairman: Ji WU, NSSC, NAS			
Time	Subject	Contributor	
09:00-09:10	Opening Remark	TBD, CAS, China	
09:10-09:20	Opening Remark	Ji WU, NSSC, CAS, China	
09:20-09:30	Opening Remark	Michael MOLONEY, NAS, USA	
09:30-09:50	Invited Speech	Mingxiang PAN, Institute of Physics, CAS, China	
09:50-10:00	Discussion		
SESSION I: Chairman: Mingxiang Pan, Institute of Physics, NAS			
10:00-10:20	Crystallization Kinetics of Liquid Metastable–Stable Transitions in Colloids and the Ostwald's Step Rule	Shenghua Xu, Institute of Mechanics, CAS, China	
10:20-10:30	Discussion		
10:30-10:50	Group Photo and Coffee Break		
10:50-11:10	Design and Optimization of Cold Atom Interferometer Based Weak Equivalence Principle Test in the China Space Station	Xi CHEN, Wuhan Institute of Physics and Mathematics, CAS, China	
11:10-11:20	Discussion		

11:20-11:40	A Sliding Cell Technique for Diffusion Measurements in Liquid Metals	Bo ZHANG, Hefei University of Technology, China	
11:40-11:50	Discussion		
11:50-12:10	The Research of Space Life Science Experimental Facilities Technology	Fangwu LIU, Shanghai Institute of Technical Physics,CAS, China	
12:10-12:20	Discussion		
12:20-14:00	Lunch		
SESSION II:	SESSION II: Chairman: Peter VOORHEES, Northwestern University, USA		
14:00-14:20	Transcriptome Analysis of 4 Arabidopsis Ecotypes Grown on the International Space Station Identifies Core Spaceflight Response Genes	Richard J. BARKER, University of Wisconsin Madison, USA	
14:20-14:30	Discussion		
14:30-14:50	Utilizing NASA GeneLab Data to Seek Novel Gravity Sensory Components in Arabidopsis	Ting LI, California Institute of Technology,USA	
14:50-15:00	Discussion		
15:00-15:20	Spaceflight Root Morphometrics Uncovers Fundamental Plant Patterning Processes	Eric SCHULTZ, University of Florida, USA	
15:20-15:30	Discussion		
15:30-15:50	Arabidopsis Transcriptome Pattern in Response to Low Atmospheric Pressure, a Novel Abiotic Stress	Mingqi ZHOU, University of Florida, USA	
15:50-16:00	Discussion		
16:00-16:20	Coffee Break		
16:20-16:40	Observing the Kinetic Signature of Turbulent Damping in Numerical Simulations and Solar Wind Observations	Kristopher G. KLEIN, University of Michigan, USA	
16:40-16:50	Discussion		
16:50-17:10	The Effect of Microgravity Environment on Stem Cells Growth and Differentiation Fate	Xiaohua LEI, Institute of Zoology, CAS, China	
17:10-17:20	Discussion		
17:20-18:30	Guided Tour of the Drop Tower		
18:30-20:00	Formal Dinner		

December 3, 2016

SESSION III: Chairman: Mian LONG, Institute of Mechanics, CAS			
Time	Subject	Contributor	
09:00-09:20	Solidification in Microgravity: Insights into Ground- Based Processing	Peter VOORHEES, Northwestern University, USA	
09:20-09:30	Discussion		
09:30-09:50	Invited Presentation	Mian LONG, Institute of Mechanics, CAS, China	
09:50-10:00	Discussion		
10:00-10:20	Blood Pressure Regulation in Microgravity: Sympathetic Activation or Vascular Transduction?	James PAWELCZYK, Pennsylvania State University, USA	
10:20-10:30	Discussion		
10:30-10:50	Coffee Break		
10:50-11:10	Experimental Evaluation of Astronaut Vision Changes in Long-Dration Spaceflight	Allison ANDERSON, Dartmouth College Geisel School of Medicine, USA	
11:10-11:20	Discussion		
11:20-11:40	Effect of Microgravity on Growth of Plant Cell	Peipei XU, Institute of Plant Physiology& Ecology, CAS, Chinese	
11:40-11:50	Discussion		
11:50-14:00	Lunch		
SESSION IV	: ames PAWELCZYK, Pennsylvania State Universit	fs.	
14:00-14:20	Human Orientation Perception and Control are Impaired by, but Adapt to, Exposure to Altered Gravity Environments	Torin K. CLARK, University of Colorado at Boulder, USA	
14:20-14:30	Discussion		
14:30-14:50	A Generalized Target Model: Useful Tools in Radiation Risk Assessment of Solar Particle Event for Astronauts	Lei ZHAO, Dalian Maritime University, China	
14:50-15:00	Discussion		

15:00-15:20	Microbial Diversity is Greatly Reduced when Community is Exposed to UV Radiation	Heather D. SMITH, NASA Ames Research Center, USA
15:20-15:30	Discussion	
15:30-15:50	Proteomic Study on the Synergetic Biological Effects of Space Radiation and Microgravity by C.elegans	Wei WANG, Dalian Maritime University, China
15:50-16:00	Discussion	
16:00-16:30	General Discussion	
16:30-16:40	Conclusion	Peter VOORHEES, Northwestern University, USA
16:40-16:50	Conclusion	Ji WU, NSSC, CAS, China