

國立臺灣師範大學 天文與重力中心

Center of Astronomy and Gravitation, National Taiwan Normal University

[近地太空與太陽系探索－任務概念、設計、開發和部署] 工作坊

A Workshop on **Geospace and Solar System Exploration**

– Mission Concept, Design, Development, and Deployment

(GaSSE2026)

Day 1 (2026 Apr 14, Tue)**第一天 (115年4月14日, 星期二)**Venue /地點：5th fl. Auditorium, Sci. Edu. Bldg. /科教大樓五樓演講廳

9:00 – 9:45	Registration 註冊報到		
9:45 – 10:00	Opening remarks 大會開幕致詞 Welcome remark by Dean of the College of Science Jason Chen (NTNU) 來賓致詞：陳界山 院長 (師範大學)		
10:00 – 11:00	Plenary talk (I) 大會講演 (I) <i>Peaceful Space Exploration - Near and Far</i> Wing Ip 葉永烜 (NCU)		Chair: Yi-Jehng Kuan (管一政)
11:00 – 11:20	Group photo 與會來賓團體照		
11:20 – 12:20	Session 1A 議程 1A Chair: Yi-Jehng Kuan (管一政) Geospace (I) – SAR		
1A.1 (30min) 11:20 – 11:50	Introduction of Synthetic Aperture Radar Design	Evan Hsu 許耀文	TASA
1A.2 (30min) 11:50 – 12:20	From Algorithms to the Sky: System Design and Verification Strategies for Synthetic Aperture Radar	Chiung-Shen Ku 古瓊昇	NTUT
12:20 – 13:30	Lunch break and posters put up 午餐及壁報張貼		
13:30 – 15:30	Session 1B 議程 1B Chair: Ying Liao (廖瑩) Space Engineering & Instrument – CubeSats		
1B.1 (30min) 13:30 – 14:00	Conceptual Mission Design of a Space Telescope CubeSat with MBSE	Chien-Hsien Lin 林建賢	TASA
1B.2 (30min) 14:00 – 14:30	A Control Framework for CubeSat Rendezvous and Proximity Operation Using Electric Propulsion	Frank Lin 林柏川	Rapidtek
1B.3 (30min) 14:30 – 15:00	Sharing Experience in CubeSat Payload Development	Shiuanhal Shiu 許軒豪	Liscotech
1B.4 (30min) 15:00 – 15:30	Introduction of Tensor Tech and its Spacecraft Motion Control Solutions	Sam Lee 李尚融	Tensor Tech
15:30 – 15:50	Coffee break and poster viewing 茶敘及壁報欣賞		
15:50 – 17:20	Session 1C 議程 1C Chair: Ying Liao (廖瑩) Geospace (II)		
1C.1 (30min) 15:50 – 16:20	Compact Ionospheric Probes Onboard PEARL CubeSats	Chi-Kuang Chao 趙吉光	NCU
1C.2 (30min) 16:20 – 16:50	Sweet Success in Space: How TASA's ONGLAISAT is Redefining 6U Capabilities	Bandy Shang 商婕柔	TASA
1C.3 (30min) 16:50 – 17:20	Solar Wind Interaction with the Magnetospheres of Earth, Mercury, and Our Moon	Shu-Hua Lai 賴淑華	NCU
17:20 – 17:50	Forum F1 論壇 F1 Are CubeSats applicable to near-Earth missions?		
F1 (30 min) 17:20 – 17:50	Round table discussion -- Chair: Wing Ip (葉永烜)	all participants	
18:00 – 20:00	Welcome reception and poster viewing 歡迎茶會及壁報欣賞		

Day 2 (Apr 15, Wed)**第二天 (4月15日, 星期三)**Venue / 地點 : 5th fl. Auditorium, Sci. Edu. Bldg. / 科教大樓五樓演講廳

10:00 – 11:00	Plenary talk (II) 大會講演 (II) <i>Juno Results: Comparing the Gas and Ice Giants</i> Scott J. Bolton (SwRI)		Chair: Hung-Yi Pu (卜宏毅)
11:00 – 12:30	Session 2A 議程 2A Chair: Hung-Yi Pu (卜宏毅) Outer Solar System		
2A.1 (20min) 11:00 – 11:20	Surface Deposition of Icy Dust Entrained in Europa's Plumes	Wei-Ling Tseng 曾瑋玲	NTNU
2A.2 (20min) 11:20 – 11:40	Europa's Ice Shell Thickness: Estimates from Thermal Evolution Models	Frederic Deschamps 戴夏飛	ASIES
2A.3 (20min) 11:40 – 12:00	How Do the Saturnian Rings Stay Bright and Young?	Ian-Lin Lai 賴彥霖	NCU
2A.4 (30min) 12:00 – 12:30	The MRT Project: Looking for Moons and Rings in Taiwan	Melaine Saillenfest	LTE, Paris Obs
12:30 – 13:00	Bus boarding 準備出發		
13:00 – 18:00	TASA Tour 參訪國家太空中心 (lunch boxes provided on the bus)		

Day 3 (Apr 16, Thu)**第三天 (4月16日, 星期四)**Venue / 地點 : 5th fl. Auditorium, Sci. Edu. Bldg. / 科教大樓五樓演講廳

10:00 – 11:00	Plenary talk (III) 大會講演 (III) <i>The JUPITER ICY moons Explorer: Science and Mission Overview</i> Paul Hartogh (MPS)		Chair: Wei-Ling Tseng (曾瑋玲)
11:00 – 12:30	Session 3A 議程 3A Chair: Wei-Ling Tseng (曾瑋玲) Near-Earth and Inner Solar System (I)		
3A.1 (30min) 11:00 – 11:30	The Gamma-ray Transients Monitor (GTM) onboard Formosat-8B and its Science Topics	Hsiang-Kuang Chang 張祥光	NTHU
3A.2 (30min) 11:30 – 12:00	Power Transmission of Whistlers in the Lunar Ionosphere	Kai-Ti Wang 汪愷悌	TKU
3A.3 (30min) 12:00 – 12:30	Spacecraft-Plasma Interactions: From Kinetic Physics to Mission Design (online)	Chun-Sung Jao 饒駿頌	NCHC
12:30 – 13:30	Lunch break and poster viewing 午餐及壁報欣賞		
13:30 – 15:30	Session 3B 議程 3B Chair: Yo-Ling Chuang (莊幼玲) Near-Earth and Inner Solar System (II)		
3B.1 (30min) 13:30 – 14:00	Taiwan-India Lunar Dust Analysis (TILDA) Mission Concept	Ying Liao 廖瑩	NTUT
3B.2 (30min) 14:00 – 14:30	The Role of Magnetic Field Measurements in Taiwan's Lunar Exploration	Ya-Hui Yang 楊雅惠	NCU
3B.3 (30min) 14:30 – 15:00	Measurement of Plasma on the Lunar Surface	Jocelyn Chang 張滋芳	NCKU
3B.4 (30min) 15:00 – 15:30	The Lunar Gravitational-wave Antenna (online)	Jan Harms	GSSI, Italy
15:30 – 15:50	Coffee break and poster viewing 茶敘及壁報欣賞		
15:50 – 16:50	Plenary talk (IV) 大會講演 (IV) <i>The Comet Interceptor Mission – Visiting a Pristine World</i> Satoshi Kasahara (U Tokyo)		Chair: Scott Bolton
16:50 – 17:40	Session 3C 議程 3C Chair: Scott Bolton Near-Earth and Inner Solar System (III)		
3C.1 (30min) 16:50 – 17:20	Multi-disciplinary Innovations to Solar System Origins – Our Journey to the Mission-Returned Samples	Hsien Shang 尚賢	ASIAA
3C.2 (20min) 17:20 – 17:40	Tentative Detection of Cyclopropenylidene in Comets	Yo-Ling Chuang 莊幼玲	ASIAA
17:40 – 18:10	Forum F2 論壇 F2 What Comes Next: from Lunar to Interplanetary?		
F2 (30 min) 17:40 – 18:10	Round table discussion – Chairs: S. Bolton & P. Hartogh	all participants	
19:00 – 21:30	Banquet 大會晚宴		

Day 4 (Apr 17, Fri)**第四天 (4月17日, 星期五)**Venue / 地點 : 5th fl. Auditorium, Sci. Edu. Bldg. / 科教大樓五樓演講廳

10:00 – 12:50		Session 4A 議程 4A Chair: Yueh-Ning Lee (李悅寧) Near-Earth and Inner Solar System (IV)	
4A.1 (30min) 10:00 – 10:30	Taiwanese Contributions to the VERTECS Project	Tetsuya Hashimoto 橋本哲也	NCHU
4A.2 (20min) 10:30 – 10:50	Black Hole Imaging with Space Missions	Hung-Yi Pu 卜宏毅	NTNU
4A.3 (20min) 10:50 – 11:10	Magnetic-Confinement Effects in a Superconducting Electron Cyclotron Resonance Discharge Chamber	Shiang-Yi Han 韓相宜	TKU
4A.4 (20min) 11:10 – 11:30	ALMASOP: Nested Morphological and Kinematic Structures of Outflows Revealed in SiO and CO Emission	Chun-Fan Liu 劉君帆	ASIAA
4A.5 (20min) 11:30 – 11:50	Chemical Composition of Ceres' Exosphere	Hsien-Ju Tsai 蔡顯如	NTNU
4A.6 (20min) 11:50 – 12:10	High-temperature Events in Solar Nebula Recorded by Ca-Al-rich Inclusion and Wark-Lovering Rim	Tsung-Lin Wu 吳宗霖	NTNU
4A.7 (20min) 12:10 – 12:30	Investigation of Calcium Dust in the Interstellar Medium	Ya-YuChu 朱雅妤	ASIAA
4A.8 (20min) 12:30 – 12:50	The Four Seasons of Mercury's Sodium Tail	Chen-Yen Hsu 許溱謙	NCU
12:50 – 13:30	Lunch break (and posters removal)		午餐 (壁報拆除)
13:30 –	Departure 賦歸		