# International Conference on Astronautics and Space Exploration 2022 (iCASE2022)

November 03~05, 2022

2022 年國際太空探索研討會 2022 年 11 月 03-05 日

# International Conference Hall & Building of Science College National Cheng Kung University (NCKU), Tainan, Taiwan

國際會議廳 (光復校區)、理學教學大樓 (成功校區)

國立成功大學(臺南市東區大學路1號)

	2022/11/03 Thursda	W.		
Venue: International Conference Hall, National Cheng Kung University (NCKU)				
08:30 - 17:00				
09:00 - 17:00	Poster (Multifi	unction Room)		
Venue	1st Lectu	ire Room		
	S1L1 International Conference on	n GPS Radio Occultation, ICGPSRO		
09:00 - 10:30	Chair: Shu-Chih Yang	& Cheng-Yung Huang		
10:30 - 11:00	Coffee	Break		
	<b>Keynote Speech</b> Dr. Shi	nichi Nakasuka (WebEx)		
11:00 - 11:45	New wave of space development and ut	ilizations driven by micro/nano-satellites		
11:00 - 11:45	- Recent Japanese activities	from education to business		
	Chair: Shia	nn-Jeng Yu		
	Keynote Speech Dr. Charles Lin			
11:45 - 12:30	Space Environmental Hazards to Space Technology			
	Chair: Shia	nn-Jeng Yu		
12:30 - 13:30	Lunch (Multifu	unction Room)		
Venue	1st Lecture Room	2nd Lecture Room		
13:30 - 15:00	<b>S2L1</b> Spacecraft Bus and Payload Instrument	S3L2 Triton Mission and Applications		
13.30 - 13.00	Chair: Tien-Chuan Kuo	Chair: Wen-Hao Yeh & Yung-Fu Tsai		
15:00 - 15:30	Coffee	e Break		
		<b>S5L2</b> Satellite Communication Applications/		
15:30 - 17:00	S4L1 Image and Science Data Processing	Interstellar Mission Orbit Maneuvering and Deep		
15.30 - 17.00	Chair: Li-Hsueh Chang & Tee-Ann Teo	Space Exploration		
		Chair: Loren Chang & Ming-Yuan Yeh		
17:00 – 17:30		TSIDA general assembly		
18:00 -	Banquet			
20.30	Shangri-La (臺南遠東香格里拉)B2., No. 89	9, Sec. W., Daxue Rd., East Dist., Tainan City		

#### 2022/11/04 Friday

#### Venue: Building of Science College &

## International Conference Hall, National Cheng Kung University (NCKU)

	international Conference Hall, National Cheng Kung University (NCKU)			
09:00 - 17:30	Registration (1F Building of Science College)			
09:30 - 17:30	Poster & Exhibit (1F Building of Science College)			
Venue	Room 36102, Building of Science College			
09:30 - 09:45	2022 TSU Annual Meeting and Satellite Science Workshop & iCASE Joint Opening			
	Master of ceremonies: Charles Lin			
09:45 - 09:55	Group photo			
09:55 - 10:25		eynote Speech Dr. Jong-Shinn Wu 國家太空計畫未來之展望與規劃		
09.55 - 10.25	ļ Ē	國承太王司董木來之版呈與規劃 Chair: Charles Lin		
		Keynote Speech Dr. Wing-Huen Ip		
10:25 - 10:40		臺灣太空科學聯盟之進展與前景		
20.20 20.10	=	Chair: Charles Lin		
10:40 - 10:55		Coffee Break		
		低軌道衛星的新時代		
10:55 - 11:25		Dr. I-Kang Fu		
		Chair: Charles Lin		
	大學太空發展:	中央大學太空科學與科技研究中心	之規劃與展望	
11:25 - 11:40		Dr. Jann-Yenq Liu		
		Chair: Charles Lin	P 19 70	
11:40 - 11:55		發展: 成功大學太空科學與工程發	· 展現沉	
11.40 - 11.55		Dr. Alfred Bing-Chih Chen Chair: Charles Lin		
11:55 - 13:00		Lunch		
	QFort Meeting Room	Conference Room 36567	3rd Lecture Room	
Venue	2F, Building of Science College	5F, Building of Science College	International Conference Hall	
		S9MA Forum	S8L3 Space Radiation Testing	
13:00 - 14:30		Space law and policy governance	Workshop	
		Chair: Jill Chou	-	
14:30 – 15:00	Coffee	Break	Coffee Break 14:30 – 14:45	
		S9MB Forum		
	S6Q2 FORMOSAT-5 Mission	Space industry		
15:00 - 16:30	Achievement	15:00 – 16:00		
	Chair: Chi-Kung Chao &	Chair: Feng-Tai Hwang	S8L3 Space Radiation Testing	
	Shian-Jing Liu	Break 16:00 – 16:15	Workshop	
		S9MC Forum		
46.00 47.00	<b>\$7Q2</b> Sounding Rocket and Small	Talent cultivation 16:15 – 17:30		
16:30 - 17:30	Launchers	Chair: Feng-Tai Hwang		
17,20 10,00	Chair: Shih-Sin Wei & Yao Chung Hsu		70)	
17:30 – 18:00	Refres	shment (1F Building of Science Colleg	ge)	

2022/11/05 Saturday				
	Venue: Building of Science College,	National Cheng Ku	ing University (NCKU)	
08:30 - 13:00	Registrati	on (1F Building of S	Science College)	
09:00 - 15:30	Exhibit	(1F Building of Scie	ence College)	
Venue	Room 36173	Venue	Room 36102	
	The 4th CubeSat Mission Design		接軌世界—國際太空合作	
09:00 - 10:30	CONTEST & The 8th Mission Idea Contest	08:40 - 09:50	(TSU/iCASE Joint Session)	
	Taiwan Preliminary		Loren Chang & Jill Chou	
10:30 - 11:00	Coffee Break	09:50 - 11:00	(TSU/iCASE Joint Session)	
			Jung-Huang Liao / Vicky Chu	
	The 4th CubeSat Mission Design		參展廠商介紹與展示	
11:00 - 12:15	CONTEST & The 8th Mission Idea Contest	11:10 - 12:10	(TSU/iCASE Joint Session)	
	Taiwan Preliminary		Alfred Bing-Chih Chen & Jui-Chung Chang	
	Tamamire		, and a sing change and a sing chang	
12:15 - 13:00		Lunch		
			關鍵技術與酬載研發	
13:00 - 15:00	Student Paper Contest	13:00 – 14:10	(TSU/iCASE Joint Session)	
	·		Charles Lin & Yung-Fu Tsai	
			人才培育-太空科技系所與學程	
15:00 - 15:30	Coffee Break	14:00 – 15:20	(TSU/iCASE Joint Session)	
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Wrap-up & Award Ceremony

Venue: Room 36173

15:30 - 16:00

Alfred Bing-Chih Chen & Shui-Lin Weng

# Day One - 2021/11/03 (Thursday)

## S1L1 International Conference on GPS Radio

#### Occultation, ICGPSRO

#### International Conference Hall - 1st Lecture Room

09:00 - 10:30		S1L1 International Conference on GPS Radio Occultation, ICGPSRO	
Invited	09:00 - 09:15	Assimilation of FORMOSAT-7_COSMIC-2 GNSS Radio Occultation  Data at Central Weather Bureau	Guo-Yuan Lien
RO-02	09:15 - 09:30	Typhoon Simulations with GNSS RO Data in hybrid 3DEnVar Assimilation Systems	Shu-Ya Chen
RO-03	09:30 - 09:45	Exciting New Findings of Earth Ionosphere from three year observations of FORMOSAT7-COSMIC2	Charles Lin
RO-04	09:45 - 10:00	The equatorial plasma bubbles observed by high-density GNSS network and FORMOSAT-7 Beacon over Taiwan and Philippines	Tung Yuan Hsiao
RO-05	10:00 - 10:15	Assimilation of multi-satellite observations into Global Ionospheric Specification	Chi-Yen Lin
RO-06	10:15 - 10:30	The Impact of Equatorial Plasma Bubble on Radio Occultation	Shih-Ping Chen

# **S2L1 Spacecraft Bus and Payload Instrument**

#### **International Conference Hall - 1st Lecture Room**

13:30 - 15:00		S2L1 Spacecraft Bus and Payload Instrument	
SBP-01	13:00 - 13:20	The Preliminary Design of Scintillation and IONosphere eXtended - SCION-X - A 12U CubeSat for Ionospheric and Atmospheric Science	Yu-Shun Wang
SBP-02	13:20 - 13:40	Lesson learned from IRIS-A Deployable Solar Panel	Tzu-Chiao Lin
SBP-03	13:40 - 14:00	A Microcontroller-Based Magnetometer Design	Wen-Chi Lu
SBP-04	14:00 - 14:20	A 6U CubeSat project with a high resolution remote sensing instrument - ONGLAISAT	Bandy Shang

# **S3L2 Triton Mission and Applications**

## International Conference Hall – 2nd Lecture Room

13:30 - 15:00		S3L2 Triton Mission and Applications	
TMA-01	13:00 - 13:15	Current Status of Triton Mission and GNSS-R Instrument	Yung-Fu Tsai
TMA-02	13:15 - 13:30	On the Development of the TRITON Level 1 Calibration Algorithm	EN-YIH LIU
TMA-03	13:30 - 13:45	Retrieving sea surface wind speed through GNSS-R signal using one-step and two-steps geophysical model function	Lin Zhang
TMA-04	13:45 - 15:00	Introduction of NSPO segment in Triton Science Data processing	Wen-Hao Yeh
TMA-05	15:00 - 15:15	Ocean Wind Speed Estimation Based on GNSS Reflectometry and Deep Learning	YI-TING CHOU
TMA-06	15:15 - 15:30	Impact of assimilating the GNSS-R sea surface wind on tropical cyclone prediction	Shu-Chih Yang

# **S4L1 Image and Science Data Processing**

#### International Conference Hall – 1st Lecture Room

1530 - 17:00		S4L1 Image and Science Data Processing	
ISP-01	15:30 - 15:50	Study of Satellite Image Contrast Degradation Caused by Atmospheric Effect Using Radiative Transfer Code, 6SV	LI-YU CHANG
ISP-02	15:50 - 16:10	Exchanges of satellite images by the blockchain encryption system with data security transmission and cloud management platform	LI-WU CHEN
ISP -03	16:10 - 16:30	Accelerated Super Resolution Processing for Formosat-8 Image	YU-LIN TSAI
ISP-04	16:35 - 16:50	Image Ortho-rectification for FORMOSAT Optical Satellite Imagery using Deep-learning-based Image Matching	Bo-Yi Lin

# **S5L2 Satellite Communication Applications/**

# **Interstellar Mission Orbit Maneuvering and Deep**

# **Space Exploration**

# International Conference Hall – 2nd Lecture Room

15:30 - 17:00		S5L2 Satellite Communication Applications/ Interstellar Mission Orbit Maneuvering and Deep Space Exploration	
SI-01	15:30 - 15:55	Dynamic Modelling and Attitude Control of Satellite with Single-wing and Dual-axis Solar Panel Configuration	PEI-CING CHEN
SI-02	15:55 - 16:20	The Deep Space Radiation Probe: Development of a First Lunar Science Payload for Space Environment Studies and Capacity Building	Loren C. Chang
SI-03	16:20 - 16:45	A Compact X-band Transmitter for Satellite Communication Applications	SHU-CHAO HSIEH

# Day Two - 2021/11/04 (Friday)

#### **S6Q2 FORMOSAT-5 Mission Achievement**

# 2F, Building of Science College - QFort Meeting Room

15:00 - 16:30		S6Q2 FORMOSAT-5 Mission Achievement	
F5-01	15:00 - 15:15	Lessons learned from FORMOSAT-5	Cynthia Liu
F5-02	15:15 - 15:30	Banana Plantation Monitoring by the Integration of Multi-Sensor and Multi-Temporal Satellite Images with Data Cube for Central America	YUN-PING WANG
F5-03	15:30 - 15:45	Remote Sensing Images Integration for Disaster Response Using Taiwan Data Cube Service Platform	TZU-YIN CHANG
F5-04	15:45 - 16:00	Advanced Ionospheric Probe onboard FORMOSAT-5 Satellite	Chi-Kuang Chao
F5-05	16:00 - 16:15	Magnetic Conjugate Property in a Density Irregularity Structure With Large Latitudinal Extent Observed by FORMOSAT-5 at 720 km Altitude	Shin-Yi Su
F5-06	16:15 - 16:30	Pre-earthquake ionospheric anomalies and ionospheric storms observed by FORMOSAT-5\AIP	Yun-Cheng, Wen

# **S7Q2 Sounding Rocket and Small Launchers**

#### 2F, Building of Science College - QFort Meeting Room

16:30 - 17:30		S7Q2 Sounding Rocket and Small Launchers	
SRL-01	16:30 - 16:50	Performance of a Low-Pressure Engine under Blow-Down Type Pressurized System	張之信
SRL-02	16:50 - 17:10	HTTP-3A S2 Rocket Testing Campaign	Zuo-Ren Chen
SRL-03	17:10 - 17:30	Regression Rate Study of Various Fuels in Hybrid Rocket	JYUN-YU JHANG

#### **S8L3 Space Radiation Testing Workshop**

#### International Conference Hall – 3rd Lecture Room

13:00 - 16:25		S8L3 Space Radiation Testing Workshop	
Keynote Speech	13:30 - 14:30	Effect of space radiation on advanced semiconductor devices	Cher-Ming Tan
SRT-02	14:45 - 15:10	DOSIMETRY SYSTEM FOR TOTAL IONIZATION TESTING	Tsi-Chian Chao
SRT-03	15:10 - 15:35	A radiation hardened triple-module-redundancy comparator circuit using a short-pulse laser for radiation testing	Chun-Hao Liang
SRT-04	15:35 - 16:00	The Tolerance of Helium Ion Irradiation Damage in High Entropy Alloy	Kuan-Che Lan
SRT-05	16:00 - 16:25	General practices of radiation test for space applications	Chih-Hsun Lin

#### **Program Forum**

#### 5F, Building of Science College – Room 36567

S9MA Forum: Space law and policy governance

Chairperson (主持人): Jill Chou (周巧盈)

Speakers (與談人):

- 許智翔 國防安全研究院
- 鄭子真 文化大學
- 李修瑩 工研院
- 張家銘 東吳大學
- S9MB Forum: Space industry

Chairperson (主持人): Feng-Tai Hwang (黃楓台)

Speakers (與談人):

- 王人龍 台灣產物保險
- 詹英文 NSPO
- 呂珮如 工研院
- S9MC Forum: Talent cultivation

Chairperson (主持人): Feng-Tai Hwang (黃楓台)

Speakers (與談人):

- 李奕德博士 氣象局
- 陳賢容 太空事務青年人才
- 周徽徽 太空事務青年人才
- 周巧盈 NSPO

13:00 – 14:30		S9MA Space law and policy governance	
FOR-01	13:00 - 13:20	Trends of the development of US Space Technologies and Industries (美國太空科技與產業發展趨勢)	Jyh-Shyang Sheu
FOR-02	13:20 - 13:40	咫尺光年:日本太空法制化發展與趨勢 (The development and trend of Japan's space legalization)	Tzuchen Cheng
FOR-03	13:40 - 14:00	South Korea's Strategic Layout in Response to the New Space Age (韓國因應新太空時代之策略布局)	HSIU-YING LEE
FOR-04		Integration and Development- A Preliminary Study on Space Technology and Industry in Central European Countries (整合與發展 - 東歐國家太空科技與產業初探)	Chia-Ming Chang
	14:20 - 14:30	QA & Conclusion	Jill Chou

15:00 – 16:00		S9MB Forum: Space industry	
FOR-06	15:15 - 15:30	Trends of the development of US Space Technologies and Industries (美國太空科技與產業發展趨勢)	Ying-Wen Jan
	15:45 - 16:00	QA & Conclusion	Feng-Tai Hwang

16:15 – 17:30		S9MC Forum : Talent cultivation	
FOR-08	16:15 - 16:30	Trends of the development of US Space Technologies and Industries (美國太空科技與產業發展趨勢)	I-TE LEE
FOR-09	16:30 - 16:45	SPACE, from NASA to Everyone	Hsien-Jung Chen
FOR-10	16:45 – 17:00	Asia-Pacific Undergraduate CubeSat Initiative to Promote Interdisciplinary  Collaboration in Higher Education	Hui-Hui Chou
FOR-11	17:00 - 17:15	How does Taiwan Participate in APRSAF via Space Education?	Chiao-Ying Chou
	17:15 - 17:30	QA & Conclusion	Feng-Tai Hwang

# **Day Three - 2021/11/05 (Saturday)**

# The 4th CubeSat Mission Design CONTEST & The 8th

# **Mission Idea Contest Taiwan Preliminary**

# 1F, Building of Science College – Room 36173

0900 - 10:30		The 4th CubeSat Mission Design CONTEST & The 8th Mission Idea Contest Taiwan  Preliminary (I)		
CMD-01	109:00 - 09:15	Aqua mission based on Mars Gravity Research for tracking the movement of potential water	Wei-Lin Liao	
CMD-02	09:15 - 09:30	The Mission Concept and System Definition of Neutral Air Density Insitu Research - NADIR - A 6U CubeSat Constellation	Yu-Shun Wang	
CMD-03	09:30 - 09:45	Using Satellite Salaxies to Detect Earthquake Precursors	楊予綸	
CMD-04	09:45 - 10:00	Black Hole Image Using VLBI Technology with CubeSat Formation	CHAO-YUAN LEE	
CMD-05	10:00 - 10:15	National Central University X-ray Virtual Telescope Cubesat Experiment	Tong Wang	
CMD-06	10:15 - 10:30	Synthetic Aperture Radar on the CubeSat to monitoring the surface variation	BO-YU CHIEN	

11:00 - 12:15		The 4th CubeSat Mission Design CONTEST & The 8th Mission Idea Contest Taiwan  Preliminary (II)		
CMD-07	11:00 - 11:15	Investigating Black Hole Radiation Characteristics with Space Aperture	TSUNG-HSUAN	
CIVID-07	11.00 - 11.13	Synthesis Radio Telescope	YU	
CMD-08	11:15 - 11:30	Low Earth Orbit Cubesat Constellation signal Defence System with Passive Intermodulation technology	KAI-EN MO	
CMD-09	11:30 - 11:45	Inter-Opticube: the next generation of satellite remote sensing	Jr-Chiun Tsai	
CMD-10	11:45 - 12:00	CubeSAT Swarms Impactor	HAO-HAN MO	
CMD-11	12:00 - 12:15	Oxygen air glow Monitor Network for Ionosphere,OMNI	Yu-Chieh Huang	

# **Student Paper Contest**

# 1F, Building of Science College – Room 36173

1300 - 15:00		Student Paper Contest	
SPC-01	13:00 - 13:15	Comparative Study on International and National Space Resource Utilization Regulations	Samuel Hsin-Lun Wu
SPC-02	13:15 - 13:30	Review of Electric Propulsion in CubeSat	Tzu-Chiao Lin
SPC-03	13:30 - 13:45	"Spiral-V" Model: A Novel Rapid Developing Approach for HTTP-4 VTVL Hybrid Rocket Project	Yu-Kai Wang
SPC-04	13:45 - 14:00	Construction and Application of Helmholtz Cage for 6U CubeSat Verification	Tsung-Wen Lin
SPC-05	14:00 - 14:15	A Search Engine for Knowledge of Space	CHI-CHE, HUNG
SPC-06	14:15 - 14:30	An Approach to Deduced the Vibration Frequency of a Rocket from Measurements of a 3-Axis Magnetometer	HUNG-JUI CHEN

#### **Poster Session**

# **International Conference Hall – Multifunction Room**

Poster Paper Session			
Poster Paper	oster Paper Title		
	International Conference on GPS Radio Occultation, ICGPSRO		
PP-01	福衛七號衛星星系在軌三年後性能趨勢	劉乃辰	
	Spacecraft Bus and Payload		
PP-02	X-band 750W Solid State Power Amplifier Module for Satellite SAR Payload	MENG-LIN LEE	
PP-03	RCS-DM module Random Vibration Response Analysis and Study of Structure Design Improvement	CHENG-YI TSAI	
PP-04	Preliminary Study of Damping Pad Applied on Satellite Electrical Component	CHENG-YI TSAI	
PP-05	Structural Design, Analysis and Vibration Test of FORMOSAT-8A Science Payload	YA-XUN YANG	
PP-06	The Static and Dynamic Analysis of B5G Satellite Bus	吳偉銓	
PP-07	Design and Analysis of 100W PA module chassis	吳偉銓	
PP-08	Thermal Design and Analysis of the Formosat-8 Telescope	CHENG-EN HO	
PP-09	Lessons Learned from NUTSAT Integration and Test	YI-XIAN CAI	
PP-10	Design and manufacture of Transceiver chassis	Hsu Yung-Chieh	
PP-11	Development of High Accuracy Gyro Noise Model for Satellite Attitude  Determination Sensor	YI-LUN HSU	
PP-12	Structural Improvement and Implementation of a Reaction Wheel Applied to Satellites	JUI-CHENG LO	
PP-13	FORMOSAT-8 MIRRORS ASSEMBLY QUALIFICATION LEVEL PYROSHOCK TEST	LIU YEN TING	
PP-14	Gimbal Adapter Design and Simulation for FORMOSAT-8 Telescope	劉彥廷	

PP-15	Development of Electric Propulsion Test Facility in NSPO	J.W. LIN	
PP-16	Development of 100W PA module for X-band SAR project	YOW-WEN HSU	
PP-17	Design of high-resolution aurora imager for CubeSat	YU-HSIU LIU	
PP-18	Aerospace-Grade Electro-Magnetic Compatibility Test for a Satellite Component - Star Tracker	Feng-Jui Yang	
PP-19	Mitigation Means for Ghost Fringe Interference During Interferometric  Measurement	YU-SHENG LIU	
PP-20	Fabrication and Experimental Study of Aluminum-Ammonia Grooved Heat Pipe for Space Application	HO-CHUAN LIN	
PP-21	Study on Vanadium Dioxide Thin Film Growing and Infrared Characteristics by Ion-Assisted Electron Gun Evaporation	Chen-Hao Wang	
PP-22	The development of the aluminum alloy propellant tank for high test peroxide	YAO-CHUNG HSU	
PP-23	Dynamic Modeling and Analysis of a Satellite with an Actuated Single-wing Solar Panel	YUNG-CHEN WU	
PP-24	Design of High Efficiency Space Solar Module	TZU-HUAN CHENG	
PP-25	Comparison between InGaP_InGaAs_Ge Triple-Junction Solar Cell and Sibased Solar Cell for Space Application	TZU-HUAN CHENG	
	Image and Science Data Processing		
PP-26	Paddy Rice Recognition Using Iterative Hierarchical Al Model and FORMOSAT- 2 Image Data	YI-YUN HSU	
PP-27	A Multispectral Dataset for Deep-Learning-Based Haze Removal in Satellite Images	Peng-Yu Chen	
PP-28	Using QGIS Platform and Graphical Modeler to Improve the Workflow of Emergent Value Added Product	YI HSIN CHUNG	
PP-29	MULTI-CORE ACCELERATION FOR THE GEOMETRIC CALIBRATION OF FORMOSAT-8 PREFLIGHT SIMULATION IMAGES	Tee-Ann Teo	
PP-30	Time-Delay Integration Architecture of CMOS Image Sensor for Low Power Design	PO-YEN HUANG	
PP-31	Artifact Detection System via Using YOLOv5 network for FORMOSAT-5 Images	CHIH-HAO LAI	
PP-32	Quick TIS Testing and Materials Selection Guides for Straylight Suppression	TSUNG-PING LEE	
Satellite Communication Applications/ Interstellar Mission Orbit Maneuvering and Deep Space Exploration			

PP-33	RESEARCH AND DEVELOPMENT OF TRITON SATELLITE ELECTRICAL GROUND SUPPORT EQUIPMENT	YI-GUI CHEN	
PP-34	Preliminary Radiation Analysis of the Total Ionizing Dose for High Earth Orbit Space Environment	TSAI MING- HSIEN	
PP-35	Qualification and Acceptance Test Flows for B5G COTS Components	Guo-Wei Lee	
PP-36	Fault-Tolerant Control of Hall-Based Reaction Wheel Motor Including Transient Current Compensation	BO-TING LYU	
PP-37	Design of a Real Time Dual-frequency GNSS Positioning Algorithm	WEI-YUN WANG	
PP-38	Optical ground station for GEO laser communication receiver	KUAN-YU CHU	
	FORMOSAT-5 Mission Achievement		
PP-39	Nighttime space weather in the equatorial latitude observed by FORMOSAT-5 during 2018-2021	Kai-Wen Kan	
PP-40	AIP Data Production Analysis from 2017 Winter to 2020 Winter	Yueh-Chun Hsieh	
Space Radiation Testing Workshop			
PP-41	TOTAL IONIZING DOSE TEST FOR ISOLATED DC TO DC CONVERTER	CHIH-JIE LIN	
PP-42	Radiation Mitigation Approaches for FORMOSAT-8 Satellite Mission	CHIH-CHENG HUANG	
PP-43	RADIATION EFFECT TESTING FACILITIES IN TAIWAN	YI-CHUN TSAI	
PP-44	Test Equipment Configuration and Shielding in Radiation Test Environment	YI-XIAN CAI	
PP-45	A Study of FS-8 Radiation Analysis	TSUNG-PING LEE	
PP-46	福衛七號 FORMOSAT-7 COSMIC-2 星本體 GPS 接收儀作為太空輻射偵測的研究分析	方振洲	
PP-47	An International Cooperated Experiments in ISS- Cell Ark for Space Medicals	Lance, JUI-JEN, CHANG	
Forum			
PP-48	「APRSAF 及國際上應爭取什麼成果,以利我國太空科技、產業、軟實力未來發展?」	鄭欣晨	

PP-49	What achievements should we strive for in APRSAF and the international community to benefit the future development of Taiwan space technology, industry	Wei Cheng Wang
PP-50	Taiwan-Indonesia Space International Cooperation Potentials	Chiao-Ying Chou
PP-51	Preliminary System Design of a Passive Spaceborne SAR Payload	YOW-WEN HSU
PP-52	Overview for the Review Standards of Launch Permit	Yachi Yang
PP-53	Overview for the Review Standards of Registration of Launch Vehicle	Yachi Yang
PP-54	Overview for the Review Standards of Registration of Spacecraft	Yachi Yang
PP-55	Trends of the development of US Space Technologies and Industries	Dr. Sheu, Jyh- Shyang
PP-56	台灣應該重視太空垃圾的維持及解決	盧姿惠

#### Registration :

11/3 International Conference Hall Lobby (國際會議廳大廳)

11/04-05 1F, Building of Science College (理學教學大樓)

#### • Poster:

Multifunction Room, International Conference Hall (國際會議廳多功能廳)

