

50th Anniversary International Symposium of Center for Space Science and Radio Engineering (SSRE)



25-26 June 2018

Room 306, Bldg. E-3,3F
East Campus, UEC

- Monday 25 June 2018 -

Opening remarks

13:00-13:30 Prof. Takashi FUKUDA (President, UEC)
Prof. Kazushi Nakano (Member of the Board of Directors, UEC)
Prof. Yasuhide HOBARA (Director, SSRE, UEC)

Session 1 Chair: Dr. Earle Williams

13:30-14:00 Lightning applications in weather and climate
(30-min) Prof. Colin PRICE (Tel Aviv University, Israel)

14:00-14:30 Overview of GC strokes
(30-min) Prof. Masaru ISHII (University of Tokyo, Japan)

14:30-14:50 Lightning Observation, Nowcast and Forecast in JMA
(20-min) Mr. Syugo HAYASHI (Meteorological Research Institute, Japan)

14:50-15:00 Break

Session 2 Chair: Prof. Yasuhide HOBARA

15:00-15:30 Mid-latitude D-region ionospheric disturbances during some of the major SSW
(30-min) events in the northern polar region observed through low frequency radio
signals
Dr. Sujay PAL (University of Calcutta, India)

15:30-15:50 Ionosphere modified prior to gigantic earthquake occurred on 11 March 2011
(20-min) Prof. Koichiro OYAMA (Taiwan National Cheng Kung University, Taiwan)

15:50-16:10 Generation mechanism of polarization electric field inside auroral patches:
(20-min) Simultaneous experiment of EISCAT radars and KAIRA
Dr. Toru TAKAHASHI (National Institute of Polar Research, Japan)

16:10-16:25 Characteristics of Electrostatic Discharge (ESD) Currents from Wearable
(15-min) Electronic Devices
Prof. Fengchao XIAO (UEC, Japan)

16:25-16:35 Break

- SSRE 50th anniversary & UEC 100th anniversary -

Session 3	Chair: Prof. Colin PRICE
16:35-17:05 (30-min)	Long-standing puzzlements on the electrification of Japan winter storms Dr. Earle WILLIAMS (Massachusetts Institute of Technology, USA)
17:05-17:35 (30-min)	Connections Between Lightning, Transient Luminous Events, and Terrestrial Gamma Ray Flashes Prof. Steven CUMMER (Duke University, USA)
17:35-17:50 (15-min)	Monitoring and forecasting the Earth's and space environments by multi- frequency radio wave observations Prof. Yasuhide HOBARA (UEC, Japan)

18:00-20:00 Conference Dinner

- Tuesday 26 June 2018 -

Session 4	Chair: Dr. Yoshiaki ANDO
09:30-10:00 (30-min)	Cluster Inner Magnetosphere Campaign: Plasma Waves in the Radiation Belts Prof. Michael BALIKHIN (University of Sheffield, UK)
10:00-10:20 (20-min)	Water Vapor in Atmosphere measured by WRLP, Wideband Radio Line Profiler Prof. Noriyuki KAWAGUCHI (National Astronomical Observatory of Japan, Japan)
10:20-10:35 (15-min)	ALMA Observations of Infrared Dark Clouds Dr. Takeshi SAKAI (UEC, Japan)
10:35-10:50 (15-min)	Simultaneous satellite and ground observations of pulsating aurora Dr. Keisuke HOSOKAWA (UEC, Japan)

10:50-11:00 Break

Session 5	Chair: Dr. Keisuke HOSOKAWA
11:00-11:20 (20-min)	Transient property and applications of folded-rhombic (Okamura) antenna Prof. Shinobu ISHIGAMI (Tohoku Gakuin University, Japan)
11:20-11:35 (15-min)	CIP Basis Set Method for Electromagnetic Simulation Dr. Yoshiaki ANDO (UEC, Japan)
11:35-11:50 (15-min)	Land observation using L band synthetic aperture radar Dr. Fang SHANG (UEC, Japan)

11:50-13:00 Lunch

- SSRE 50th anniversary & UEC 100th anniversary -

Session 6		Chair: Prof. Steven Cummer
13:00-13:30 (30-min)	TARANIS, a satellite mission to study the far side of thunderstorms	Dr. Sebastien CELESTIN (LPC2E/CNRS, University of Orleans, France)
13:30-13:50 (20-min)	Current efforts on using a massive European all-sky camera meteor observation network to detect TLEs	Mr. Matthieu GARNUNG (LPC2E/CNRS, University of Orleans, France)
13:50-14:10 (20-min)	Tokyo Lightning Mapping Array in "Lifecycle of cumulonimbus experiment"	Dr. Namiko SAKURAI (National Research Institute for Earth Science and Disaster Resilience, Japan)
14:10-14:30 (20-min)	Global lightning and sprite measurements (GLIMS) on the ISS	Dr. Hiroshi KIKUCHI (Tokyo Metropolitan University, Japan)

14:30-14:40 Break

Session 7		Chair: Dr. Takuo TSUDA
14:40-15:10 (30-min)	Space weather disturbances as observed by the HF Doppler sounders	Prof. Takashi KIKUCHI (Nagoya University, Japan)
15:10-15:30 (20-min)	Ionospheric disturbances associated with natural hazards observed by HFD and GPS-TEC	Dr. Hiroyuki NAKATA (Chiba University, Japan)
15:30-15:45 (15-min)	Meridional neutral wind pattern observed by HF Doppler sounder	Dr. Jun SAKAI (UEC, Japan)

15:45-15:55 Break

Session 8		Chair: Prof. Michael Balikhin
15:55-16:25 (30-min)	Transport of keV electrons in the large- and small-scale electromagnetic fields in the inner Earth's magnetosphere	Dr. Natalia GANUSHKINA (Finnish Meteorological Institute, Finland)
16:25-16:40 (15-min)	Energetic particle impact on the Na layer in the Earth's upper atmosphere	Dr. Takuo TSUDA (UEC, Japan)
16:40-16:55 (15-min)	Space-borne airglow imaging and study on atmospheric dynamics in the mesopause region	Dr. Yuta HOZUMI (UEC, Japan)

Closing remarks

16:55-17:00	Dr. Keisuke Hosokawa (SSRE, UEC)
-------------	----------------------------------