

11. Education

The Institute for Space–Earth Environmental Research primarily offers graduate programs in three schools, i.e., Science, Engineering, and Environmental Studies; however, it also provides opportunities for both undergraduate and postdoctoral experiences in these schools. In addition to the academic staff of the faculties, specially appointed members also contribute to education via graduate and undergraduate courses. Graduates are enrolled in the doctoral programs. Academic members are responsible for guiding the progress of the students' thesis projects. The students studying at the institute also have opportunities to attend seminars and discussions with foreign researchers and to participate in international meetings/conferences and observations/experiments.

Graduate Programs

The institute has its own graduate course program for Heliospheric and Geospace Physics as a part of the Division of Particle and Astrophysical Science in the Graduate School of Science at Nagoya University.

In addition, it cooperates with the Department of Electrical Engineering and Computer Science via the Space Electromagnetic Environment group (<http://www.nuee.nagoya-u.ac.jp/soshiki/electrical-e.php>) in the Graduate School of Engineering and the Department of Earth and Environmental Sciences (as a group in the Earth and Planetary Sciences Course and the Hydrospheric–Atmospheric Sciences Course <http://www.env.nagoya-u.ac.jp/english/dept/index.html>) in the Graduate School of Environmental Studies by teaching/training graduate students in disciplines related to Space–Earth Environmental Research. They also teach core and topical courses.

Staff association between the research divisions in the ISEE and the graduate schools

		Graduate School of Science					Graduate School of Engineering		Graduate School of Environmental Studies				
		Division of Particle and Astrophysical Science					Department of Electrical Engineering and Computer Science		Department of Earth and Environmental Sciences				
		Heliospheric and Geospace Physics					Electrical Engineering Course Space Electromagnetic Environment		Earth and Planetary Sciences Course Earth History Study		Hydrospheric-Atmospheric Sciences Course Global Water Cycle		
		Atmospheric and Environmental Science (AM)	Space Science – Experiment (SSE)	Solar and Space Physics - Theory (SST)	Cosmic-Ray Physics (CR)	Heliospheric Plasma Physics (SW)	Space Observation	Information Engineering	CHIME	Tandemron AMS	Meteorology	Cloud and Precipitation Sciences	Hydroclimatology
Institute for Space–Earth Environmental Research	Integrated Studies			●			●						
	Cosmic-Ray Research				●								
	Heliospheric Research					●							
	Ionospheric and Magnetospheric Research		●				●						
	Meteorological and Atmospheric Research	●					●			●	●		
	Land–Ocean Ecosystem Research											●	●
	Chronological Research				●				●	●			
	Center for International Collaborative Research	●	●		●		●		●			●	
	Center for Intergrated Data Science			●	●			●	●		●	●	●
	Center for Orbital and Suborbital Observations	●	●		●						●	●	●

Number of Students Supervised by ISEE Staff

(April 1, 2017–March 31, 2018)

	M1	M2	D1	D2	D3	Undergraduate Students	Research Students	Total
Graduate School of Science	11	18	4	7	8	-	2	50
Graduate School of Engineering	7	8	1	0	1	-	-	17
Graduate School of Environmental Studies	6	6	5	0	9	-	5	31
School of Science	-	-	-	-	-	8	-	8
School of Engineering	-	-	-	-	-	8	-	8
Total	24	32	10	7	18	16	7	114

* cumulative total in FY 2017

Faculty Members

(April 1, 2017–March 31, 2018)

■ Graduate School of Science Division of Particle and Astrophysical Science

Field/Topics	Professor	Associate Professor	Lecturer	Assistant Professor
Solar-Terrestrial Chemistry	Yutaka Matsumi		Tomoki Nakayama ^{*1}	
	Akira Mizuno	Tomoo Nagahama		
Solar-Terrestrial Relationships	Masafumi Hirahara	Satonori Nozawa	Shin-ichiro Oyama	
		Yuichi Otsuka		
	Kanya Kusano	Satoshi Masuda		Akimasa Ieda
Solar-Terrestrial Physics	Yoshitaka Itow	Kimiaki Masuda	Takashi Sako ^{*2}	Akira Okumura ^{*3}
	Hiroyasu Tajima	Fumio Abe		
		Yutaka Matsubara		
	Munetoshi Tokumaru	Kazumasa Iwai		Ken-ichi Fujiki

*1 Left the Institute at February 2018

*2 Left the Institute at October 2017

*3 Lecturer after March 2018

■ Graduate School of Engineering Department of Electrical Engineering and Computer

Field/Topics	Professor	Associate Professor	Lecturer	Assistant Professor
Space Electromagnetic Environment	Kazuo Shiokawa	Nozomu Nishitani		Taku Nakajima
	Shinobu Machida	Yoshizumi Miyoshi	Takayuki Umeda	Shinsuke Imada ^{*4}

*4 Lecturer after February 2018

■ Graduate School of Environmental Studies Department of Earth and Environmental

Field/Topics	Professor	Associate Professor	Lecturer	Assistant Professor
Hydrospheric-Atmospheric Sciences Course Global Water Cycle	Kazuhiisa Tsuboki	Taro Shinoda		
	Nobuhiro Takahashi	Hirohiko Masunaga		
	Tetsuya Hiyama	Naoyuki Kurita ^{*5}	Hatsuki Fujinami	
	Joji Ishizaka	Hidenori Aiki		Yoshihisa Mino
Earth and Planetary Sciences Course Earth History Study	Masaki Enami	Takenori Kato		
	Hiroyuki Kitagawa	Masayo Minami		Hiroataka Oda

*5 Associate Professor after October 2017

Undergraduate Education

Based on demand, the faculty of the institute offers numerous undergraduate courses in the School of Science, the School of Engineering, and in other departments and at other universities in the adjacent area.

■ During the 2017 Academic Year, The Following Courses were Offered;

- First Year Seminar A
- Foundations of Electromagnetics I
- Laboratory in Physics
- Introduction to Earth Science
- From the Big Bang to the Present-day Human Society
- Astrophysics and Space Science
- Science of Atmospheric-Hydrospheric Environment
- Astrophysics III
- Experimental Physics
- Physics Laboratory I, II
- Introduction to Physics I, II
- Graduation Research-Experiments
- Topics in Advanced Physics
- Atmospheric and Hydrospheric Sciences I
- Practical Petrology and Petrology Experiments I
- Solar System Science
- Geosphere Environmental Chemistry
- Geology Experiments
- Geochemical Analysis II and Experiments
- Mathematics 1 with Exercises A/B
- Probability Theory and Numerical Analysis with Exercises
- Electric Circuits with Exercise
- Electromagnetic Wave Engineering

12. International Relations

Academic Exchange

Institution	Country/Region	Establishment
Indonesian National Institute of Aeronautics and Space	Indonesia	May 31, 1988
Korean Space Weather Center	Korea	December 24, 2012
Korea Institute of Ocean Science and Technology, Korea Ocean Satellite Center	Korea	April 17, 2014
Pukyong National University, College of Fisheries Sciences	Korea	October 2, 2006
Institute of High Energy Physics, Chinese Academy of Sciences	China	February 20, 2001
Polar Research Institute of China	China	November 11, 2005
Department of Atmospheric Sciences, National Taiwan University	Taiwan	October 30, 2009
Center for Weather Climate and Disaster Research, National Taiwan University	Taiwan	September 3, 2014
Bangladesh University of Engineering & Technology, Department of Physics	Bangladesh	March 4, 2008
National Institute of Water and Atmospheric Research	New Zealand	July 26, 1989
Centre for Geophysical Research, University of Auckland	New Zealand	December 7, 1992
Faculty of Science, University of Canterbury	New Zealand	July 30, 1998
Geophysical Institute, University of Alaska Fairbanks	U.S.A.	July 16, 1990
Space Environment Center, National Oceanic and Atmospheric Administration	U.S.A.	December 15, 1992
National Geophysical Data Center, National Oceanic and Atmospheric Administration	U.S.A.	January 5, 1993
Haystack Observatory, Massachusetts Institute of Technology	U.S.A.	October 24, 1994
Center for Astrophysics and Space Sciences, University of California at San Diego	U.S.A.	December 22, 1997
Center for Space Science and Engineering Research, Virginia Polytechnic Institute and State University	U.S.A.	January 23, 2013
Chacaltaya Cosmic Ray Observatory, Faculty of Sciences, Universidad Mayor de San Andres, La Paz	Bolivia	February 20, 1992
National Institute for Space Research	Brazil	March 5, 1997
Swedish Institute of Space Physics	Sweden	September 1, 2005 (since March 25, 1993)
Faculty of Science, University of Tromsø	Norway	April 2, 2003 (since October 8, 1993)
Department of Geophysics, Finnish Meteorological Institute	Finland	October 21, 1994
Yerevan Physics Institute	Armenia	October 18, 1996
Institute of Cosmophysical Research and Radiowave Propagation, Far Eastern Branch, Russian Academy of Sciences	Russia	April 14, 2007
Institute of Solar-Terrestrial Physics, Siberian Branch of the Russian Academy of Sciences	Russia	October 28, 2008
Yu.G. Shafer Institute of Cosmophysical Research and Aeronomy, Siberian Branch of the Russian Academy of Sciences	Russia	November 28, 2012
The Polar Geophysical Institute, Murmansk	Russia	March 13, 2017

Note: The List includes the academic exchanges established in the former organizations before ISEE.

Research Projects

■ Major International Collaborative Projects

Research Project	ISEE Representative	Collaborating Country/Region	Collaborating Organization
VarSITI (Variability of the Sun and Its Terrestrial Impact)	K. Shiokawa	U.S.A., France, Germany, U.K., Italy, Canada, Australia, India, China, <i>and other countries</i>	SCOSTEP
Study of the Polar/Midlatitude Ionosphere and Magnetosphere Using the SuperDARN HF Radar Network	N. Nishitani	U.S.A. U.K. France South Africa Australia Canada Italy Russia China	JHUAPL, Virginia Polytechnic Institute and State University University of Leicester LPC2E/CNRS University of KwaZulu-Natal La Trobe University University of Saskatchewan IFSI ISTP/SB RAS Polar Research Institute of China
Project for Development of the Atmospheric Environmental Risk Management System in South America	A. Mizuno	Argentina Chile	CEILAP Servicio Meteorológico Nacional Argentina University of Magallanes(UMAG) Dirección Meteorológica de Chile
Study of the Onset Mechanism of Solar Eruptions	K. Kusano	Germany	University of Potsdam
Observational Study of the Onset Mechanism of Solar Eruptions	K. Kusano	U.S.A China	New Jersey Institute of Technology University of Science and Technology of China
Study of Modeling of Solar Eruptions	K. Kusano	U.S.A.	Harvard-Smithsonian Center for Astrophysics
Study of Triggering Mechanism of Solar Flares	K. Kusano	U.K.	UCL-Mullard Space Science Laboratory
Study of Magnetic Reconnection	K. Kusano	U.K.	University of Manchester
Solar Researches with Nobeyama Radioheliograph	S. Masuda	U.S.A. China Korea Russia U.K. Germany	GSFC/NASA, Catholic University of America National Astronomical Observatories Chinese Academy of Sciences, Shandong University KASI, Seoul National University Russian Academy of Sciences University of Warwick Georg-August-Universität Göttingen
Radiation Belt Storm Probes (RBSP) Project	Y. Miyoshi	U.S.A.	NASA, JHUAPL
Modeling Study of Inner Magnetosphere	Y. Miyoshi	U.S.A.	Los Alamos National Laboratory

Research Project	ISEE Representative	Collaborating Country/Region	Collaborating Organization
Pulsating Aurora as a Manifestation of Non-Linear Wave Particle	Y. Miyoshi	U.S.A China Finland Czech	UCLA Peking University Sodankylä Geophysical Observatory: SGO Czech Academy of Sciences
A Search for Dark Objects Using the Gravitational Microlensing Effect	F. Abe	New Zealand U.S.A.	University of Auckland, University of Canterbury, Victoria University of Wellington, Massey University University of Notre Dame
Study in Cosmic Neutrinos by Using a Large Water Cherenkov Detector	Y. Itow	U.S.A. Canada U.K. Spain Korea China	Boston University, Brookhaven National Laboratory, UCI, Duke University, George Mason University, University of Hawaii, Indiana University, Los Alamos National Laboratory, University of Maryland, State University of New York, University of Washington University of British Columbia, University of Toronto, TRIUMF Queen Mary University of London, Imperial College London, University of Liverpool, University of Oxford, University of Sheffield Complutense University of Madrid Chonnam National University, Seoul National University, Sungkyunkwan University
Study in Interaction of Very High Energy Cosmic Rays by Using Large Hadron Collider	Y. Itow	Italy France Switzerland U.S.A.	University of Florence, Catania University École Polytechnique CERN Lawrence Berkeley National Laboratory
Study of Dark Matter and Solar Neutrinos Using a Liquid Xenon Detector	Y. Itow	Korea	Seoul National University, Sejong University, Korea Research Institute of standards and Science
Research and Development for the Next Generation Water Cherenkov Detector, Hyper-Kamiokande	Y. Itow	U.S.A. Korea China U.K. Italy France Switzerland Spain Poland Brazil <i>Canada, Russia Portugal</i>	Boston University, Brookhaven National Laboratory, UCI, Duke University, George Mason University, Indiana University, University of Hawaii, Los Alamos National Laboratory, University of Maryland, State University of New York, University of Washington Chonnam National University, Seoul National University, Sungkyunkwan University Tsinghua University Imperial College London, Lancaster University, University of Oxford, Queen Mary University of London, University of Sheffield, Rutherford Appleton Laboratory INFN Sezione di Bari, INFN Sezione di Napoli, INFN Sezione di Padova, INFN Sezione di Roma CEA Saclay, École Polytechnique University of Bern, Swiss Federal Institute of Technology Zurich Autonomous University of Madrid University of Warsaw University of São Paulo <i>and other Institutions</i>

Research Project	ISEE Representative	Collaborating Country/Region	Collaborating Organization
Study of Solar Neutrons	Y. Matsubara	Bolivia Armenia China Switzerland U.S.A. Mexico	Research Institute of Physics, University of San Andres Yerevan Physics Institute Institute of High Energy Physics, Chinese Academy of Sciences University of Bern University of Hawaii National Autonomous University of Mexico
Search for Cosmic-ray Excursions in the Past by Single-year Measurements of ^{14}C in Tree Rings	F. Miyake	U.S.A. Switzerland	The University of Arizona Swiss Federal Institute of Technology
Study in Interaction of Very High Energy Cosmic Rays by Using Relativistic Heavy Ion Collider	T. Sako	Italy U.S.A.	University of Florence, Catania University Brookhaven National Laboratory
Solar Flare Research with Hard X-ray Spectral Imaging Observations	H. Tajima	U.S.A.	UCB, MSFC/NASA, Air Force Research Laboratory
Solar Flare Research with Gamma-ray Spectral Imaging Observations with Polarimetry	H. Tajima	U.S.A.	UCB, Lawrence Berkeley National Laboratory, GSFC/NASA
Research on Origin of Cosmic Rays with Fermi Satellite	H. Tajima	U.S.A. France Italy Sweden	Stanford University, SLAC National Accelerator Laboratory, GSFC/NASA, U.S. Naval Research Laboratory, UCSC, Sonoma State University University of Washington, Purdue University, Ohio State University, University of Denver CENS, CNRS, École Polytechnique INFN, Italian Space Agency, IFSI Royal Institute of Technology, Stockholm
Research on Origin of Cosmic Rays with CTA (Cherenkov Telescope Array)	H. Tajima	Germany France Italy Spain Switzerland U.K. U.S.A. <i>Brazil, Argentina, Poland, Armenia, Australia, Czech, Bulgaria, Croatia, Finland, Greece, Sweden, Slovenia, India, Ireland, South Africa</i>	Deutsches Elektronen-Synchrotron, Max-Planck-Institut, Heidelberg University CENS, École Polytechnique, University of Paris INFN, IFSI University of Barcelona, Complutense University University of Zürich Durham University, University of Leicester, University of Leeds SLAC National Accelerator Laboratory, Argonne National Laboratory, University of Washington, Iowa State University, UCLA, UCSC, University of Chicago, Smithsonian Observatory <i>and other institutions</i>
Observations of Interplanetary Disturbances Using the International IPS Network	M. Tokumaru	U.K. Russia India Mexico Australia	LOFAR-UK Lebedev Physical Institute Tata Institute of Fundamental Research National Autonomous University of Mexico Murchison Widefield Array
Study of 3-D Solar Wind Structure and Dynamics Using Heliospheric Tomography	M. Tokumaru	U.S.A.	CASS/UCSD
Study on the Application of Interplanetary Scintillation Observations to Space Weather Forecast	M. Tokumaru	Korea	Korean Space Weather Center

Research Project	ISEE Representative	Collaborating Country/Region	Collaborating Organization
Study of the Heliospheric Boundary Region Using Observations of Interplanetary Scintillation	M. Tokumaru	U.S.A.	Interstellar Boundary Explorer
Magnetic Conjugate Observations of Midlatitude Thermospheric Disturbances	K. Shiokawa	Australia	Radio and Space Service/IPS
Variation of the Thermosphere and Ionosphere owing to the Energy of Atmospheric Waves	K. Shiokawa	Indonesia	LAPAN
High-Sensitive Imaging Measurements of Airglow and Aurora in the Canadian Arctic	K. Shiokawa	U.S.A. Canada	University of California, Augsburg College Virginia Polytechnic Institute and State University University of Calgary, Athabasca University
Ionosphere and Upper Atmosphere Research, Observations and Monitoring	K. Shiokawa	Thailand	Chiang Mai University
Comparison of Dynamical Variations of the Mesosphere, Thermosphere, and Ionosphere between Asian and Brazilian Longitudes	K. Shiokawa	Brazil	INPE
Ground and Satellite Measurements of Geospace Environment in the Far-Eastern Russia	K. Shiokawa	Russia	Institute of Cosmophysical Research and Radiowave Propagation, Far Eastern Branch, Russian Academy of Sciences
Observations of the Equatorial Ionosphere in South-East Asia and West Africa	K. Shiokawa	Nigeria Cote d'Ivoire	National Space Research and Development Agency, Federal University of Technology, Akure Université Félix Houphouët-Boigny
Observations of Waves and Particles in the Inner Magnetosphere in the Siberian Region of Russia	K. Shiokawa	Russia	IKFIA/SB RAS, ISTP/SB RAS
Future Satellite Mission for the Terrestrial Magnetosphere-Ionosphere-Thermosphere Explorations by Formation Flight Observations and its Feasibility Study and Collaboration of the Satellite and Ground-Based Observations	M. Hirahara	Sweden	Swedish Institute of Space Physics(IRF), Swedish National Space Board
Research and Development of the Plasma/Particle Instrument Suite for the Mercury Magnetospheric Exploration Mission	M. Hirahara	France Sweden U.K. U.S.A. Switzerland	CESR-CNRS, CETP-IPSL Institute for Solar Physics of the Royal Swedish Academy of Sciences Rutherford Appleton Laboratory Boston University University of Bern
Study of the Polar Upper Atmosphere Using the EISCAT Radars and Other Instruments	S. Nozawa	Norway Sweden, Finland, Germany, U.K.,	University of Tromsø EISCAT Scientific Association
Magnetosphere-Ionosphere-Thermosphere coupling study with ISRs and optical instruments	S. Oyama	U.S.A.	University of Maryland, College Park, University of Alaska Fairbanks, University of Oulu
Study of Auroral Energetic Electron Precipitation (EEP) Impacts on the Upper/Middle Atmosphere	S. Oyama	Finland New Zealand U.K. Norway U.S.A.	Sodankylä Geophysical Observatory, University of Oulu, Finnish Meteorological Institute University of Otago British Antarctic Survey University Centre in Svalbard University of Alaska Fairbanks
Observation of PM2.5 in Hanoi	Y. Matsumi	Vietnam	Hanoi University of Science and Technology
Observation of PM2.5 in Ulan Bator	Y. Matsumi	Mongolia	National University of Mongolia

Research Project	ISEE Representative	Collaborating Country/Region	Collaborating Organization
Continuous Observation of Methane at a Paddy Field in Northern India	Y. Matsumi	India	University of Delhi
High Energy Particles in Geospace: the Acceleration Mechanism and the Role in Earth's Climate	A. Mizuno	U.S.A. Norway Sweden	University of Colorado Boulder, UCLA, University of Arizona University of Tromsø EISCAT Scientific Association
Global Precipitation Measurement Mission (GPM)	H. Masunaga N. Takahashi	U.S.A.	NASA
Tropical Rainfall Measuring Mission	N. Takahashi	U.S.A.	NASA
Tropical Cyclones-Pacific Asian Research Campaign for Improvement of Intensity Estimations/Forecasts (T-PARCI)	K. Tsuboki T. Shinoda	Taiwan	National Taiwan University Atmospheric Sciences
Study of Equatorial Waves in the Atmosphere and Ocean	H. Aiki	Germany	GEOMAR Helmholtz Centre for Ocean Research Kiel
Validation of GOCI Products and Application to Environmental Monitoring of Japanese Coastal Waters	J. Ishizuka	Korea	Korea Institute of Ocean Science and Technology
Collection of Validation Dataset of GCOM-C Coastal Products	J. Ishizuka	Korea U.S.A. Taiwan Thailand China Estonia	Korea Institute of Ocean Science and Technology Columbia University, East Carolina University National Cheng Kung University Burapha University First Institute of Oceanography, Nanjing University of Science and Technology University of Tartu
Sea Surface Nitrate and Nitrate Based New Production - two innovative research products from SGLI on board GCOM-C	J. Ishizuka	U.S.A.	Columbia University
Investigating the optical characteristics of red tides in the upper Gulf of Thailand	J. Ishizuka	Thailand	University of Burapha Kasetsart University
Validation of ocean color products in the western North Pacific and Japanese coastal waters : Collaboration with JAXA GCOM-C project	J. Ishizuka	Germany	European Organisation for the Exploitation of Meteorological Satellites
Integrated Land Ecosystem - Atmosphere Processes Study (iLEAPS), one of the Global Research Projects (GRPs) of the Future Earth	T. Hiyama	Sweden, Finland, U.K., China, <i>and others</i>	iLEAPS/Future Earth
Observational Study of Vegetation, Energy and Water in Eastern Siberia Towards Elucidation of Climate and Carbon Cycle Changes	T. Hiyama	Russia	Institute for Biological Problems of Cryolithozone /SB RAS
Arctic Challenge for Sustainability (ArCS) Project	T. Hiyama	U.S.A.	International Arctic Research Center of the University of Alaska Fairbanks (IARC)
Estimating Permafrost Groundwater age in Central Mongolia	T. Hiyama	Mongol	Institute of Geography and Geoecology of the Mongolian Academy of Sciences
Geochronological Research on the Basement Rocks in Japan and Korea	T. Kato	Korea	Korea Institute of Geoscience and Mineral Resources (KIGAM)

Research Project	ISEE Representative	Collaborating Country/Region	Collaborating Organization
Development of New Analytical Techniques and Accurate Quantification of Electron Microprobe Analysis	T. Kato	Korea	Pusan National University (PNU)
Stable Isotopes in Precipitation and Paleoclimatic Archives in Tropical Areas to Improve Regional Hydrological and Climatic Impact Models	N. Kurita	U.S.A., Australia, Argentina, Brazil, Bangladesh, China, and other countries	International Atomic Energy Agency (IAEA)
Towards a Deeper understanding of Tropical Isoscapes	N. Kurita	Australia	James Cook University, Cairn
Comparison Between 1 MV AMS and 5 MV AMS on Precision and Accuracy of ^{10}Be Measurement	M. Minami	Korea	Korea Institute of Geoscience and Mineral Resources (KIGAM)
Radiocarbon Dating of Kraftu Cave Guano Deposit in Kurdistan, Iran	M. Minami	Iran	University of Kurdistan
High Precision Radiocarbon Measurements of Tree Annual Rings	T. Nakamura	U.S.A.	Department of Geosciences, University of Arizona
Radiocarbon Measurement of Peat Sediments in Aleutian Islands, Alaska, North America	T. Nakamura	U.S.A.	The Museum of the Aleutians, Unalaska
Eruption History of the Calderas Located in Bali, Indonesia	T. Nakamura	Indonesia	Department of Geological Engineering, Gadjah University
Investigation on Bottom Topography and the Formation Ages of Maar Lakes in Philippines Using the Lake Sediments	T. Nakamura	Philippine	Philippine Institute of Volcanology and Seismology
Heidelberg pure CO_2 Intercomparison Project	T. Nakamura	Germany	Heidelberg University
Study on History of Palaeo-Environmental Changes Based on Radiocarbon Ages of Cored-Sediment Samples from a Wetland in South India	T. Nakamura	India	Indian Institute of Science, Banglore
Study on Radiocarbon Chronology of Buddhist Archaeological Remains at the Bamiyan Site, Islamic Republic of Afghanistan	T. Nakamura	France	Directeur de la Mission Archéologique Française
Study of Grand-Water Circulation Based on ^{14}C Ages of Underground Water and Hot-Spring Water Samples from Korea	T. Nakamura	Korea	Korea Institute of Geoscience and Mineral Resources (KIGAM)
Research and Development on Geochemical Proxies of Isotope and Trace Element for Understanding of Earth and Universe Evolution Processes	G. Tanaka	Korea	Korea Institute of Geoscience and Mineral Resources (KIGAM)
Radiocarbon dating of bronze wares excavated from Indian archeological site	H. Oda	India	Deccan College
Radiocarbon dating of bronze wares excavated from Russian archeological site	H. Oda	Russia	Institute of Ethnology and Anthropology Russian Academy of Science

Research Project	ISEE Representative	Collaborating Country/Region	Collaborating Organization
Climate change reconstruction of the Central Highlands in Vietnam	H. Kitagawa	Vietnam	Vietnam Academy of Science And Technology
International Continental Scientific Drilling Program - Dead Sea Deep Drilling Project (ICDP-DSDDP)	H. Kitagawa	Israel U.S.A Germany Switzerland	Geological Survey of Israel Hebrew University of Jerusalem Columbia University University of Minnesota German Research Centre for Geosciences Max-Planck-Institute Mainz for Chemistry Université de Genève Université de Genève

Visitors from Foreign Institutes

Name	Country/ Region	Affiliation	Period	Status at Nagoya University
Cai Lei	Finland	University of Oulu	Jul. 1, 2016 - May 31, 2017	Foreign Collaborative Researcher
Anglu Shen	China	Chinese Academy of Fisher Sciences	Sep. 1, 2016 - Aug. 31, 2017	Foreign Collaborative Researcher
Jie Ren	China	Peking University	Oct. 1, 2016 - Jan. 31, 2018	Foreign Collaborative Researcher
Martin Gerard Connors	Canada	Athabasca University	Jan. 1 - May 31, 2017	Foreign Collaborative Researcher
Joseph Benjamin Harold Baker	U.S.A.	Virginia Polytechnic Institute and State University	Jan. 1 - Jun. 30, 2017	Foreign Collaborative Researcher
Bernhard Hartmut Kliem	Germany	University of Potsdam	Mar. 1 - May 31, 2017	Foreign Visiting Research Fellow
Berti Engenio	Italy	University of Florence	Mar. 21 - Apr. 9, 2017	Visitor
Haimin Wang	U.S.A.	New Jersey Institute of Technology	Apr. 12 - 15, 2017	Visitor
Antonio Ferriz Mas	Spain	University of Vigo	Apr. 15 - 17, 2017	Visitor
Quing Chang	China	Chinese Academy of Sciences	Apr. 18 - 21, 2017	Foreign Collaborative Researcher
Wenzhe Jiao	China	Chinese Academy of Sciences	Apr. 18 - 21, 2017	Foreign Collaborative Researcher
Kimberly Dawn Leka	U.S.A.	NorthWest Research Associates	Apr. 18 - May 2, 2017	Foreign Collaborative Researcher
Ventaka Subrahmanya Srinivasa Sarma Vedula	India	National Institute of Ocean Technology	May 1 - Jun. 10, 2017	Foreign Visiting Research Fellow
Byambatseren Chuluunpurev	Mongol	The National University of Mongolia	May 8 - 16, 2017	Foreign Collaborative Researcher
Sonomdagva Chonokhuu	Mongol	The National University of Mongolia	May 8 - 16, 2017	Foreign Collaborative Researcher
Jeongwoo Lee	Korea	Seoul National University	May 9 - 19, 2017	Foreign Collaborative Researcher
Elena Kupriyanova	Russia	Central Astronomical Observatory at Pulkovo of the RAS	May 9 - Jul. 11, 2017	Foreign Collaborative Researcher
Tam Dao Ngoc Hanh	Vietnam	Ho Chi Minh Institute of Physics	May 12 - Aug. 4, 2017	Foreign Collaborative Researcher
Janardhan Padmanabhan	India	Physical Research Laboratory	May 14 - Jun. 5, 2017	Foreign Collaborative Researcher
Xuchen Wang	China	Ocean University of China	May 15, 2017	Visitor
Yuejun Xue	China	Ocean University of China	May 15, 2017	Visitor
Savcheva Antonia	U.S.A.	Smithsonian Observatory	May 15 - 19, 2017	Foreign Collaborative Researcher
Surendra Kumar Dhaka	India	University of Delhi	Jun. 1 - Jul. 31, 2017	Foreign Visiting Research Fellow
Bich Thuy Ly	Vietnam	Hanoi University of Science and Technology	Jun. 1 - Aug. 31, 2017	Foreign Visiting Research Fellow
Daniel Okoh	Nigeria	National Space Research and Development Agency	Jun. 2 - Aug. 31, 2017	Foreign Collaborative Researcher
Magnus Woods	U.K.	University College London Space & Climate Physics	Jun. 20 - Aug. 21, 2017	Foreign Collaborative Researcher
Hajihosseini Azizi	Iran	University of Kurdistan	Jun. 23 - Aug. 23, 2017	Foreign Collaborative Researcher

Name	Country/ Region	Affiliation	Period	Status at Nagoya University
Jeonghoon Lee	Korea	Korea University of Technology and Education	Jul. 14, 2017	Foreign Collaborative Researcher
Jihye Kang	Korea	Kyung Hee University	Jul. 18 - 21, 2017	Visitor
Nghiem Trung Dung	Vietnam	Hanoi University of Science and Technology	Jul. 18 - 22, 2017	Foreign Collaborative Researcher
Chih-Ying Yeh	Taiwan	National Dong Hwa University	Jul. 18 - 29, 2017	Visitor
Venkata Ratnam Devanaboyina	India	KL University	Jul. 19 - Oct. 20, 2017	Foreign Collaborative Researcher
Yoonyeol Yoon	Korea	Korea Institute of Geoscience and Mineral resources	Jul. 20 - 25, 2017	Foreign Collaborative Researcher
Sergii Panasenko	Ukraine	Institute of ionosphere	Jul. 31 - Sep. 29, 2017	Foreign Collaborative Researcher
Kimberly Dawn Leka	U.S.A.	NorthWest Research Associates	Sep. 4 - 22, 2017	Foreign Collaborative Researcher
Hua Hsu	Taiwan	National Taiwan University	Sep. 8, 2017	Visitor
Hung-Chi Kuo	Taiwan	National Taiwan University	Sep. 8, 2017	Visitor
Hungjui Yu	Taiwan	National Taiwan University	Sep. 8, 2017	Visitor
Pei-Yuan Hsieh	Taiwan	National Taiwan University	Sep. 8, 2017	Visitor
Yuhan Chen	Taiwan	National Taiwan University	Sep. 8, 2017	Visitor
Sergey Tyul'bashev	Russia	Lebedev Physical Institute	Sep. 10 - Dec. 9, 2017	Foreign Collaborative Researcher
Jih-Hong Shue	Taiwan	National Central University	Sep. 11, 2017	Visitor
Helga Rosario Do Gomes	U.S.A.	Columbia University	Sep. 15 - Dec. 14, 2017	Foreign Visiting Research Fellow
Joaquim Ignacio Goes	U.S.A.	Columbia University	Sep. 15 - Dec. 14, 2017	Foreign Visiting Research Fellow
Ioannis Daglis	Greece	University of Athens	Sep. 15 - Dec. 15, 2017	Foreign Visiting Research Fellow
Savcheva Antonia	U.S.A.	Smithsonian Observatory	Sep. 17 - 30, 2017	Foreign Collaborative Researcher
Jianwei Lin	Taiwan	National Taiwan University	Sep. 25, 2017	Foreign Collaborative Researcher
Neethal Thomas	India	Indian Institute of Geomagnetism	Sep. 27 - 28, 2017	Foreign Collaborative Researcher
Stephen White	U.S.A.	Air Force Research Laboratory	Oct. 3 - 7, 2017	Visitor
Angelos Vourlidas	U.S.A.	Johns Hopkins University	Oct. 11 - Nov. 2, 2017	Visitor
Neel Prakash Savani-Patel	U.S.A.	NASA Goddard Space Flight Center	Oct. 13 - Nov. 26, 2017	Foreign Collaborative Researcher
Ivana Kolmasova	Czech	The Czech Academy of Sciences	Oct. 14 - Nov. 1, 2017	Foreign Collaborative Researcher
Ondrej Santolik	Czech	The Czech Academy of Sciences	Oct. 14 - Nov. 1, 2017	Foreign Collaborative Researcher
Ulrich Taubenschuss	Czech	The Czech Academy of Sciences	Oct. 14 - Nov. 1, 2017	Foreign Collaborative Researcher
Horky Miroslav	Czech	The Czech Academy of Sciences	Oct. 14 - Nov. 2, 2017	Foreign Collaborative Researcher

Name	Country/ Region	Affiliation	Period	Status at Nagoya University
Jihye Kang	Korea	Kyung Hee University	Oct. 15 - 18, 2017	Visitor
Zamri Zainal Abidin	Malaysia	University of Malaya	Oct. 19, 2017	Visitor
Arakel Petrosyan	Russia	Russian Academy of Sciences	Oct. 22 - 28, 2017	Visitor
Geeta Vichare	India	Indian Institute of Geomagnetism	Oct. 24 - 27, 2017	Foreign Collaborative Researcher
Graham Barnes	U.S.A.	NorthWest Research Associates	Oct. 28 - Nov. 3, 2017	Participant in the Symposium
David Falconer	U.S.A.	University of Alabama Huntsville	Oct. 29 - Nov. 3, 2017	Participant in the Symposium
Leila Mays	U.S.A.	NASA	Oct. 29 - Nov. 3, 2017	Participant in the Symposium
Shaun Bloomfield	U.K.	Northumbria University	Oct. 29 - Nov. 3, 2017	Participant in the Symposium
Tarek Am Hamad Nagem	U.K.	University of Bradford	Oct. 29 - Nov. 4, 2017	Participant in the Symposium
Diptiranjana Rout	India	Physical Research Laboratory	Oct. 29 - Nov. 22, 2017	Foreign Collaborative Researcher
Junchul Mun	Korea	Korean Space Weather Center	Oct. 30 - Nov. 2, 2017	Participant in the Symposium
Sangwoo Lee	Korea	Korea Advanced Institute of Science and Technology	Oct. 30 - Nov. 2, 2017	Participant in the Symposium
Aoife Elizabeth Mc Closkey	Ireland	Trinity College Dublin	Oct. 30 - Nov. 3, 2017	Participant in the Symposium
Robert Steenburgh	U.S.A.	NOAA	Oct. 30 - Nov. 3, 2017	Participant in the Symposium
Suzanne Jane Bingham	U.K.	Met Office	Oct. 30 - Nov. 3, 2017	Participant in the Symposium
Emmanouil Georgoulis	Greece	Academy of Athens	Oct. 30 - Nov. 4, 2017	Participant in the Symposium
Kimberly Dawn Leka	U.S.A.	NorthWest Research Associates	Oct. 30 - Nov. 24, 2017	Foreign Collaborative Researcher
Hocheol Jeon	Korea	Radar&Space	Oct. 31, 2017	Visitor
Jaehyung Lee	Korea	Korean Space Weather Center	Oct. 31, 2017	Visitor
Jaewoo Park	Korea	Radar&Space	Oct. 31, 2017	Visitor
Taeyoung Kim	Korea	Radar&Space	Oct. 31, 2017	Visitor
Yoon Kichang	Korea	Korean Space Weather Center	Oct. 31, 2017	Visitor
Hsiu-Shan Yu	U.S.A.	University of California San Diego	Nov. 2, 2017	Visitor
Zesty S.B. Hamidi	Malaysia	MARA University of Technology	Nov. 4 - 11, 2017	Participant in the Symposium
Sarah Jabbari	Australia	Monash University	Nov. 4 - 12, 2017	Participant in the Symposium
Lee Jaejin	Korea	Korea Astronomy & Space Science Institute	Nov. 5 - 7, 2017	Foreign Collaborative Researcher
Gopal Hazra	India	Indian Institute of Science Bangalore	Nov. 5 - 13, 2017	Participant in the Symposium
Rahul Yadav	India	Udaipur Solar Observatory	Nov. 5 - 16, 2017	Participant in the Symposium

Name	Country/ Region	Affiliation	Period	Status at Nagoya University
Eunkyung Lim	Korea	Korea Astronomy & Space Science Institute	Nov. 6, 2017	Participant in the Symposium
Heesu Yang	Korea	Korea Astronomy & Space Science Institute	Nov. 6, 2017	Participant in the Symposium
Jaeheung Park	Korea	Korea Astronomy & Space Science Institute	Nov. 6, 2017	Participant in the Symposium
Kyuhyoung Cho	Korea	Seoul National University	Nov. 6, 2017	Participant in the Symposium
Miyashita Yukinaga	Korea	Korea Astronomy & Space Science Institute	Nov. 6, 2017	Participant in the Symposium
Rok-Soon Kim	Korea	Korea Astronomy and Space Science Institute	Nov. 6, 2017	Participant in the Symposium
Su-Chan Bong	Korea	Korea Astronomy & Space Science Institute	Nov. 6, 2017	Participant in the Symposium
Sujin Kim	Korea	Korea Astronomy & Space Science Institute	Nov. 6, 2017	Participant in the Symposium
Youngsil Kwak	Korea	Korea Astronomy & Space Science Institute	Nov. 6, 2017	Participant in the Symposium
Agustinus Gunawan Admiranto	Indonesia	Indonesian National Institute of Aeronautics and Space	Nov. 6 - 11, 2017	Participant in the Symposium
Jie Hong	China	Nanjing University	Nov. 6 - 11, 2017	Participant in the Symposium
Jingwen Zhang	China	Peking University	Nov. 6 - 11, 2017	Participant in the Symposium
Keiji Hayashi	China	National Space Science Center, Chinese Academy of Science	Nov. 6 - 11, 2017	Participant in the Symposium
Navin Chandra Joshi	Korea	Kyung Hee University	Nov. 6 - 11, 2017	Participant in the Symposium
Pengfei Chen	China	Nanjing University	Nov. 6 - 11, 2017	Participant in the Symposium
Samanta Tanmoy	China	Peking University	Nov. 6 - 11, 2017	Participant in the Symposium
Tangmu Li	China	Nanjing University	Nov. 6 - 11, 2017	Participant in the Symposium
Wenjun Ding	China	Nanjing University	Nov. 6 - 11, 2017	Participant in the Symposium
Yuhao Zhou	China	Nanjing University	Nov. 6 - 11, 2017	Participant in the Symposium
Yun-Chen Yang	Taiwan	National Central University	Nov. 6 - 11, 2017	Participant in the Symposium
Ze Zhong	China	Nanjing University	Nov. 6 - 11, 2017	Participant in the Symposium
Zigong Xu	China	Nanjing University	Nov. 6 - 11, 2017	Participant in the Symposium
Yu Chen	Taiwan	National Central University	Nov. 6 - 15, 2017	Participant in the Symposium
Yu Lun Liou	Taiwan	National Central University	Nov. 6 - 15, 2017	Participant in the Symposium
Willi Exner	Germany	Technische Universität Braunschweig	Nov. 6 - Dec. 1, 2017	Visitor
Takuma Nakamura	Austria	Austrian Academy of Sciences	Nov. 11 - 16, 2017	Foreign Collaborative Researcher
Wai-Leong Teh	Malaysia	Space Science Centre, Institute of Climate Change	Nov. 11 - 16, 2017	Foreign Collaborative Researcher
Elena Kupriyanova	Russia	Central Astronomical Observatory at Pulkovo of the RAS	Nov. 13 - 15, 2017	Foreign Collaborative Researcher

Name	Country/ Region	Affiliation	Period	Status at Nagoya University
Uma Das	India	Indian Institute of Information Technology Kalyani	Nov. 14 - Dec. 29, 2017	Foreign Collaborative Researcher
Chen-Jeih Pan	Taiwan	Institute of Space Sciences, National Central University, Taiwan	Nov. 20 - 22, 2017	Visitor
Andres Munoz Jaramillo	U.S.A.	South West Research Institute	Nov. 24 - Dec. 3, 2017	Participant in the Symposium
Leif Svalgaard	U.S.A.	Stanford University	Nov. 25 - Dec. 2, 2017	Participant in the Symposium
Lisa Upton	U.S.A.	High Altitude Observatory	Nov. 25 - Dec. 2, 2017	Participant in the Symposium
Mausumi Dikpati	U.S.A.	High Altitude Observatory	Nov. 25 - Dec. 2, 2017	Participant in the Symposium
Robert Cameron	Germany	Max-Planck Institute for Solar System Research	Nov. 25 - Dec. 3, 2017	Participant in the Symposium
Jie Jiang	China	Beihang University	Nov. 27 - Dec. 2, 2017	Participant in the Symposium
Chia-Chun Wu	Taiwan	Taiwan Typhoon and Flood Research Institute	Nov. 28, 2017	Visitor
Chi-June Jung	Taiwan	Taiwan Typhoon and Flood Research Institute	Nov. 28, 2017	Visitor
Hsuan-Wei Wang	Taiwan	Taiwan Typhoon and Flood Research Institute	Nov. 28, 2017	Visitor
Lei Feng	Taiwan	Taiwan Typhoon and Flood Research Institute	Nov. 28, 2017	Visitor
Jianwei Lin	Taiwan	National Taiwan University	Dec. 18 - 22, 2017	Foreign Collaborative Researcher
Byambatseren Chuluunpurev	Mongol	The National University of Mongolia	Dec. 18 - 23, 2017	Foreign Collaborative Researcher
Sonomdagva Chonokhuu	Mongol	The National University of Mongolia	Dec. 18 - 26, 2017	Foreign Collaborative Researcher
Ruoying He	U.S.A.	North Carolina State University	Dec. 22, 2017	Visitor
John Michael Ruohoniemi	U.S.A.	Virginia Tech	Jan. 6 - 13, 2018	Participant in the Symposium
Alexandre Vasilyevich Koustov	Canada	University of Saskatchewan	Jan. 7 - 13, 2018	Participant in the Symposium
Joseph Benjamin Harold Baker	U.S.A.	Virginia Polytechnic Institute and State University	Jan. 7 - 13, 2018	Participant in the Symposium
Mark Lester	U.K.	University of Leicester	Jan. 7 - 13, 2018	Participant in the Symposium
Seiji Yashiro	U.S.A.	Catholic University and GSFC, NASA	Jan. 14 - 24, 2018	Foreign Collaborative Researcher
Ji Young Lee	Korea	Naju National Research Institute of Cultural Heritage	Jan. 17, 2018	Visitor
Jiseon Han	Korea	Jungwon National Research Institute of Cultural Heritage	Jan. 17, 2018	Visitor
So Young Kang	Korea	National Research Institute of Cultural Heritage	Jan. 17, 2018	Visitor
Esa Turunen	Finland	Sodankylä Geophysical Observatory: SGO	Jan. 18 - 24, 2018	Visitor
Xingyao Chen	China	Chinese Academy of Sciences	Jan. 23 - Feb. 10, 2018	Visitor
Stephen Michael Playfer	U.K.	University of Edinburgh	Feb. 1 - Jul. 31, 2018	Foreign Visiting Research Fellow
Jing Huang	China	Chinese Academy of Sciences	Feb. 4 - 20, 2018	Foreign Collaborative Researcher

Name	Country/ Region	Affiliation	Period	Status at Nagoya University
Yin Zhang	China	Chinese Academy of Sciences	Feb. 4 - 20, 2018	Foreign Collaborative Researcher
Zhang Jin	China	Chinese Academy of Sciences	Feb. 4 - 21, 2018	Foreign Collaborative Researcher
Seung-Gu Lee	Korea	Korea Institute of Geoscience and Mineral resources	Feb. 5 - 13, 2018	Foreign Collaborative Researcher
Jeongwoo Lee	Korea	Seoul National University	Feb. 9 - 28, 2018	Foreign Collaborative Researcher
Carsten Bumann	Norway	University of Tromsø	Feb. 17 - 23, 2018	Foreign Collaborative Researcher
Dorata Jozwicki	Norway	University of Tromsø	Feb. 17 - Mar. 1, 2018	Foreign Collaborative Researcher
Tetsu Anan	U.S.A.	National Solar Observatory	Feb. 17 - Mar. 1, 2018	Participant in the Symposium
Alphonse Sterling	U.S.A.	NASA Marshall Space Flight Center	Feb. 23 - Mar. 1, 2018	Participant in the Symposium
David Mckenzie	U.S.A.	NASA Marshall Space Flight Center	Feb. 23 - Mar. 1, 2018	Participant in the Symposium
Keiji Hayashi	China	National Space Science Center, Chinese Academy of Science	Feb. 25 - Mar. 2, 2018	Participant in the Symposium
Dana W. Longcope	U.S.A.	Montana State University	Feb. 26 - 28, 2018	Participant in the Symposium
Gregal Vissers	Sweden	Stockholm University	Feb. 26 - 28, 2018	Participant in the Symposium
Kevin Reardon	U.S.A.	National Solar Observatory	Feb. 26 - 28, 2018	Participant in the Symposium
Mark Rast	U.S.A.	University of Colorado, Boulder	Feb. 26 - 28, 2018	Participant in the Symposium
Thomas Schad	U.S.A.	National Solar Observatory	Feb. 26 - 28, 2018	Participant in the Symposium
Linda. E. Sugiyama	U.S.A.	Massachusetts Institute of Technology	Mar. 6 - 8, 2018	Visitor
Periasamy Kaliappan Manoharan	India	Tata Institute of Fundamental Research	Mar. 11 - 30, 2018	Foreign Collaborative Researcher
Hwang Junga	Korea	Korea Astronomy & Space Science Institute	Mar. 15 - 21, 2018	Foreign Collaborative Researcher
Zhongping Lee	U.S.A.	University of Massachusetts Boston	Mar. 15 - Jun. 14, 2018	Foreign Visiting Research Fellow
Harada Hiroki	U.S.A.	University of Iowa	Mar. 19 - 20, 2018	Participant in the Symposium
Junga Hwang	Korea	Korea Astronomy & Space Science Institute	Mar. 19 - 20, 2018	Participant in the Symposium
Miyashita Yukinaga	Korea	Korea Astronomy & Space Science Institute	Mar. 19 - 20, 2018	Participant in the Symposium
Imai Masafumi	U.S.A.	University of Iowa	Mar. 19 - 21, 2018	Participant in the Symposium
Futaana Yoshifumi	Sweden	Swedish Institute of Space Physics	Mar. 19 - 22, 2018	Participant in the Symposium
Antonia Savcheva	U.S.A.	Smithsonian Observatory	Mar. 19 - 30, 2018	Visitor

Seminars by Foreign Visitors

Date	Name	Affiliation	Title	Number of Participant
Apr. 3, 2017	Haimin Wang	New Jersey Institute of Technology	Recent Scientific Results of 1.6m New Solar Telescope at Big Bear Solar Observatory	15
Apr. 17, 2017	Antonio Ferriz Mas	Facultad de Ciencias, de Orense Universidad de Vigo	THE THIN FLUX-TUBE APPROXIMATION AND SOME APPLICATIONS IN SOLAR/STELLAR MAGNETISM	15
Apr. 21, 2017	Fulvia Pucci	Princeton Plasma Physics Laboratory	Flares, CMEs and explosive events: the "ideal" tearing mode and fast reconnection triggering in magnetized plasmas, from fluid to kinetic scales.	16
Apr. 24, 2017	Kimberly Dawn Leka *	NorthWest Research Associates	Solar Flares and Space Weather Forecasting	19
May 11, 2017	Ch Sonomdagva	National University of Mongolia	The air pollution study in Ulaanbaatar city, Mongolia	9
May 15, 2017	Andrew Hillier	University of Exeter	The linear growth of oscillation driven magnetic Kelvin-Helmholtz Instability	22
May 15, 2017	Bernhard Hartmut Kliem*	University of Potsdam	Decay index profile and coronal mass ejection speed	26
May 17, 2017	Antonia Savcheva	Harvard-Smithsonian Center for Astrophysics	Solar Sigmoidal Active Regions: From Formation to Eruption	24
May 19, 2017	Janardhan Padmanabhan	Physical Research Laboratory, India	Declining solar activity: Is the sun going into hibernation?	8
Jun. 12, 2017	Elena Kupriyanova	Central Astronomical Observatory at Pulkovo of the RAS	About method of multi-wavelength diagnostics of mechanism of quasi-periodic pulsations in solar flares	21
Jul. 6, 2017	Surendra Kumar Dhaka*	University of Delhi	An overview of convective sources and dynamical processes in shaping the troposphere and stratosphere	7
Jul. 7, 2017	Daniel Izuikedinachi Okoh *	National Space Research and Development Agency	Occurrence frequency of Equatorial Plasma Bubbles over West Africa using an All-sky Airglow Imager and GNSS receivers	26
Jul. 10, 2017	Magnus Morton Woods *	University College London Space & Climate Physics	Observations and Modelling of the Pre-flare Period of the 29 March 2014 X1 Flare	14
Jul. 14, 2017	Jeonghoon Lee	Korea University of Technology & Education	Photothermal Interferometry: An alternative tool for measuring light absorbing carbon	7
Jul. 19, 2017	Jihye Kang	Kyung Hee University	Distribution Characteristic of Coronal Electric Current Density as an Indicator for Occurrence of a Solar Flare	11
Jul. 19, 2017	Nghiem Trung Dung	Hanoi University of Science and Technology	Nanoparticles in Hanoi: Level, chemical compositions and potential sources	9
Sep. 1, 2017	Sergii V. Panasenko *	Institute of ionosphere	Ionospheric Research in Ukraine using Kharkiv Incoherent Scatter Facility	25

Date	Name	Affiliation	Title	Number of Participant
Sep. 7, 2017	Devanaboyina Venkata Ratnam *	KL University	Ionospheric Total Electron Content Forecasting Algorithms using Ground Based GNSS observations over India and Japan	37
Sep. 8, 2017	Hung-Chi Kuo	National Taiwan University	Research introduction (monsoon, typhoon, precipitation, etc.).	25
Oct. 10, 2017	Sergey Anatolievich Tyul'bashev *	Lebedev Physical Institute	Space Weather from IPS Observations at 111 MHz	9
Oct. 23, 2017	Angelos Vourlidas	JHU, APL	The Magnetic Flux Rope Nature of Coronal Mass Ejections	25
Oct. 26, 2017	Ondrej Santolik	Czech Academy of Sciences	From lightning to chorus	17
Oct. 27, 2017	Geeta Vichare	Indian Institute of Geomagnetism	Overview of low latitude current systems	24
Oct. 30, 2017	M. Leila Mays	GSFC, NASA	The Community Coordinated Modeling Center: A Hub for Advancing Space Science and Space Weather Capabilities	30
Nov. 10, 2017	Diptiranjana Rout	Physical Research Laboratory, India	Magnetosphere-Ionosphere-Thermosphere System Under Varying Space Weather Conditions	6
Nov. 15, 2017	Ioannis A. Daglis *	National & Kapodistrian University of Athens	Storms, substorms, particles and waves: the quintessence of geospace weather	17
Nov. 16, 2017	Willi Exner	Technische Universität Braunschweig	CME Impacts onto the Hermean Magnetosphere	11
Nov. 22, 2017	C. J. Pan	Institute of Space Sciences, National Central University	Effect of Kelvin Waves on stratospheric QBO during El Nino periods using ECMWF reanalysis data	15
Nov. 24, 2017	Joaquim I. Goes and Helga do Rosario Gomes *	Columbia University	(1) The role of the Aleutian Low Pressure System in regulating phytoplankton production and carbon export in the North Pacific Ocean (2) The contrasting influence of two large reversals on the biogeography of phytoplankton communities across the river-ocean continuum	15
Nov. 24, 2017	Uma Das	Indian Institute of Information Technology Kalyani	Tidal Variability in the Middle and Upper Atmosphere	36
Nov. 26, 2017	Chi-June Jung	Taiwan Typhoon and Flood Research Institute	Applications of Unmanned Aircraft Sounding System in Taiwan	23
Nov. 26, 2017	Hsuan-Wei Wang	Taiwan Typhoon and Flood Research Institute	Airborne observation: Experience of DOTSATR and Future	23
Dec. 22, 2018	Ruoying He	North Carolina State University	Observational and Modeling Study of Ocean Circulation, Air-sea Interactions, and Biogeochemical Processes in the Northwest Atlantic Coastal Ocean	20
Jan. 11, 2018	Mark Lester	University of Leicester	Radio Sounding of Planetary Ionospheres: Examples at Earth and Mars	20

Date	Name	Affiliation	Title	Number of Participant
Feb. 6, 2018	Chen Xingyao	National Astronomical Observatories, Chinese Academy of Sciences	Spectral and Imaging analysis of the solar radio bursts observed by LOFAR and MUSER	7
	Huang Jing	National Astronomical Observatories, Chinese Academy of Sciences	The microwave emission of an eruptive prominence	
	Zhang Yin	National Astronomical Observatories, Chinese Academy of Sciences	VLA Observations of A M8.4 Flare	
Feb. 13, 2018	Lynn Marie Kisteler *	University of New Hampshire	Contributions of Oxygen to the Storm-Time Ring Current	24
Mar. 7, 2018	Linda E. Sugiyama	Massachusetts Institute of Technology	The structure of solar coronal loops	9
Mar. 19, 2017	Periasamy Kaliappan Manoharan	Radio Astronomy Centre	Space Weather and Solar Wind Studies with the Ooty Radio Telescope	11
Mar. 22, 2018	Daniel Philip Stern	Naval Research Laboratory	Understanding Extreme Updrafts and Wind Gusts Using Dropsondes and Large-Eddy Simulations	15
Mar. 23, 2018	Antonia Savcheva	Harvard-Smithsonian Center for Astrophysics	Data-constrained MHD simulations of Erupting Solar Active Regions	13
Mar. 23-24, 2018	Daniel Philip Stern	Naval Research Laboratory	(1) The Structure and Dynamics of the Tropical Cyclone Eyewall (2) The Tropical Cyclone Warm Core (3) Understanding Extreme Updrafts and Wind Gusts Using Dropsonde Observations and Large-Eddy Simulations	19
Mar. 28, 2018	Frederic Clette	Royal Observatory of Belgium	Sunspot and synoptic science at the World Data Center SILSO	13

* Foreign Visiting Staff

<Abbreviations>

APL:	Applied Physics Laboratory
CASS:	Center for Astrophysics and Space Sciences
CERN:	Conseil Européen pour la Recherche Nucléaire, European Organization for Nuclear Research
CESR:	Centre d'Etude Spatiale des Rayonnements
CETP:	Centre d'étude des environnements terrestres et planétaires
CNRS:	Centre National de la Recherche Scientifique
EISCAT:	European Incoherent Scatter Scientific Association
GSFC:	Goddard Space Flight Center
IBEX:	Interstellar Boundary Explorer
IFSI:	Istituto di Fisica dello Spazio Interplanetario
iLEAPS:	Integrated Land Ecosystem-Atmosphere Processes Study
IKFIA:	Institute of Cosmophysical Research and Aeronom
INFN:	Istituto Nazionale di Fisica Nucleare
INPE:	Instituto Nacional de Pesquisas Espaciais, Brazilian Institute of Space Research
IPS:	Ionospheric Prediction Services
IPSL:	Institut Pierre-Simon Laplace
ISTP:	Institute of Solar-Terrestrial Physics
JHUAPL:	Johns Hopkins University Applied Physics Laboratory
KASI:	Korea Astronomy and Space Science Institute
LAPAN:	Lembaga Penerbangan dan Antariksa Nasional, National Institute of Aeronautics and Space
LOFAR:	Low Frequency Array
LPC2E:	Laboratoire de Physique et Chimie de l'Environnement et de l'Espace
MSFC:	Marshall Space Flight Center
MWA:	Murchison Widefield Array
NASA:	National Aeronautics and Space Administration
SB RAS:	Siberian Branch, Russian Academy of sciences
SCOSTEP	Scientific Committee on Solar Terrestrial Physics
UCB:	University of California, Berkeley
UCI:	University of California, Irvine
UCLA:	University of California, Los Angeles
UCSC:	University of California, Santa Cruz
UCSD:	University of California, San Diego

13. Outreach

Public lectures, open labs, and school visits

ISEE members have contributed to public education through 31 lecture visits, seven public lectures at the university, three open laboratory events, three public laboratory demonstrations, one field trip for children, and ten high-school student visits.

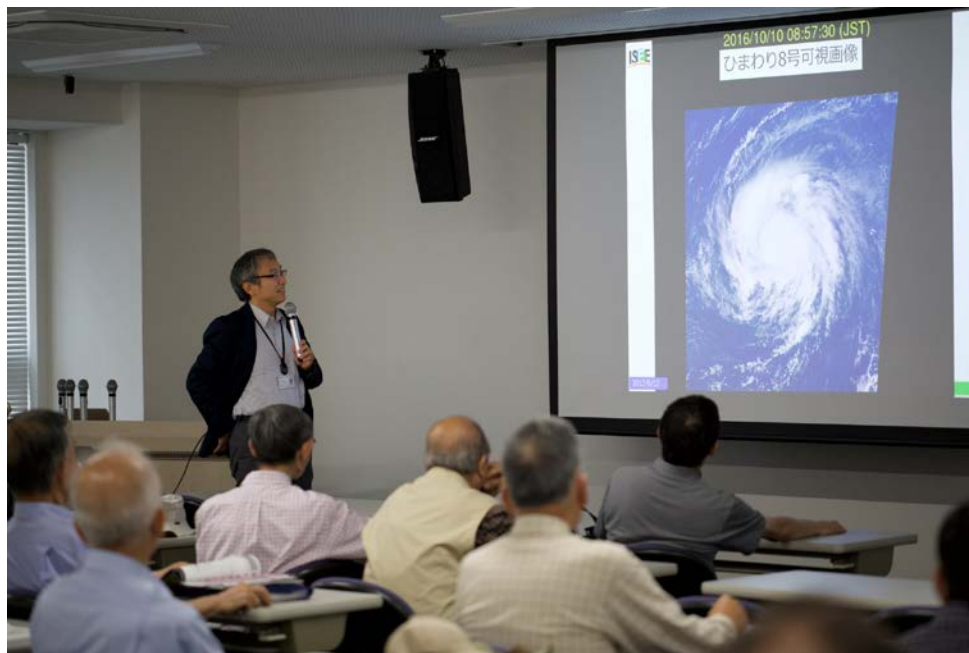
ISEE held open laboratory sessions and special lectures for the public on June 10 and 11 during the 2017 Nagoya University Festival, and a half-day public lecture meeting on December 2, 2017.

ISEE and the former STEL have maintained a close relationship with the town of Rikubetsu in Hokkaido since 2003. Public lectures were held on November 10, 2017 at Rikubetsu Elementary School and Rikubetsu Junior High School, and on November 26, 2017 at Rikubetsu Junior High School. Public laboratory demonstrations were presented on November 11, 2017 at the Rikubetsu Space Earth Science Museum.

ISEE distributes a series of booklets that answer 50 questions on various topics, as well as informative comic books related to space–Earth subjects for the public.

A video introducing ISEE for young students and the public was produced, and can be seen on the ISEE website.

The ISEE website (<http://www.isee.nagoya-u.ac.jp/>) continues to publish the most up-to-date activities and outcomes of laboratory science to the public. The digitized booklet series can also be browsed at this site.



Public lecture on the ISEE open laboratory (June 10, 2017).

Addresses of Facilities

Location		Name	Address	TEL/FAX
Nagoya	①	ISEE Research Institutes Buildings I/II	Furo-cho, Chikusa-ku, Nagoya, Aichi 464-8601	TEL:+81-52-747-6303 FAX:+81-52-747-6313
Toyokawa	②	Toyokawa Branch	3-13 Honohara, Toyokawa-shi, Aichi 442-8507	TEL:+81-533-89-5206 FAX:+81-533-86-3154
Hokkaido	③	Moshiri Observatory	Moshiri, Horokanai, Uryu, Hokkaido 074-0741	TEL:+81-165-38-2345 FAX:+81-165-38-2345
	④	Rikubetsu Observatory	345 Uenbetsu, Rikubetsu-cho, Ashoro-gun, Hokkaido 089-4301	TEL:+81-156-27-8103
			58-1, 78-1, 78-5, 129-1, 129-4 Pontomamu, Rikubetsu-cho, Ashoro-gun, Hokkaido 089-4300	TEL:+81-156-27-4011
Yamanashi	⑤	Fuji Observatory	1347-2 Fujigane, Fujikawaguchiko-machi, Minamitsuru-gun, Yamanashi 401-0338	TEL:+81-555-89-2829
Kagoshima	⑥	Kagoshima Observatory	3860-1 Honjo, Tarumizu-shi, Kagoshima 891-2112	TEL:+81-994-32-0730

