

The 2nd UNISEC-Global Meeting Programme

18-20 November 2014, Kitakyushu, Japan

Organized by
University Space Engineering Consortium (UNISEC)
in cooperation with
Kyushu Institute of Technology



1. Background

Our planet has no national boundaries as seen from outer space. Recent globalization has been demonstrated in many areas, such as financial markets, air pollution, and global warming. The University Space Engineering Consortium (UNISEC) believes that providing good educational opportunities to future generations worldwide will lead to a better future, as the resolution of global problems requires a cooperative effort. UNISEC has provided practical space engineering education since 2002 in Japan, and its activities have been spread to the rest of the world through international programs, such as the Mission Idea Contest (MIC), CanSat Leader Training Program (CLTP), and Nano-satellite Symposium, with warm support from many individuals and institutions in various regions around the globe. Under circumstances where university associations have been formed in several countries, UNISEC believes that it is now time to establish UNISEC-Global, where collaborative efforts will be facilitated beyond national boundaries, and to contribute to the development of solutions to global issues.

2. Objective of the 2nd Meeting

- As a follow-up to the decision of the establishment of UNISEC-Global and the adoption of the “Terms of Reference for UNISEC-Global” at the end of the first UNISEC-Global Meeting on November 24, 2013 at the University of Tokyo in Japan
- To encourage the furtherance of the discussions made during the first meeting, with particular attention to users’ needs & technical potentials
- To contribute to the Implementation described in the “Terms of Reference for UNISEC-Global,” especially to Members’ continuous effort to promote project-based space education, and to ensure that their respective policy-and decision-makers understand the importance of space education and support their activities, the following is a rough outline of the Second UNISEC-Global Meeting

3. Venue: Nakamura Centenary Memorial Hall at Kyushu Institute of Technology (KyuTech)
1-1 Sensui, Tobata, Kitakyushu, Fukuoka, 804-8550, Japan

4. Language: The language used at the Meeting is English.

5. Organization for the 2nd UNISEC-Global Meeting

✧ General Chairperson

Prof. Harunori Nagata, Chairperson of UNISEC-Japan, Hokkaido University

✧ Honorary advisors

Prof. Sir Martin Sweeting, Surrey Satellite Technology Ltd (SSTL); and Surrey Space Centre (SSC), UK
Prof. Rainer Sandau, International Academy of Astronautics (IAA)

✧ Programme Committee

- Prof. A Rustem Aslan, Istanbul Technical University
- Dr. Werner Balogh, United Nations
- Prof. Mengu Cho, Kyushu Institute of Technology
- Prof. Shinichi Kimura, Tokyo Univ. of Science
- Prof. Mohammed Khalil Ibrahim, Cairo University
- Prof. Yasuyuki Miyazaki, Nihon University
- Prof. Harunori Nagata, Hokkaido University
- Prof. Shinichi Nakasuka, the University of Tokyo
- Prof. Jordi Puig-Suari, Calpoly
- Prof. Rainer Sandau, IAA
- Prof. Klaus Schilling, University of Würzburg
- Prof. Herman Steyn, Stellenbosch University
- Prof. Sir. Martin Sweeting, Surrey Space Centre

✧ **Local Organizing Committee**

- Prof. Mengu Cho, Kyushu Institute of Technology
- Prof. Harunori Nagata, Hokkaido Univ.
- Prof. Toshiya Hanada, Kyushu Univ.
- Prof. Koju Hiraki, Kyutech
- Prof. Akira Iwasaki, the Univ. of Tokyo
- Prof. Shinichi Kimura, Tokyo Univ. of Science
- Prof. Takaaki Matsumoto, Kyutech
- Prof. Yasuyuki Miyazaki, Nihon Univ.
- Prof. Shinichi Nakasuka, the Univ. of Tokyo
- Prof. Keiichi Okuyama, Kyutech
- Prof. Hironori Sahara, Tokyo Metropolitan Univ.
- Prof. Koichi Yonemoto, Kyutech

Staff members for Local Organizing Committee

Seiji Kawano, Kumiko Shirakawa & Kanae Iyama, KyuTech, and
Shizuku Nakashino, UNISEC

✧ **Student Committee**

- Shingo Fuchikami, Kyushu Institute of Technology, Japan
- Yosuke Fujisawa, Kyusyu University, Japan
- Kiho Fukaura, Tsukuba University, Japan
- Shuheji Hotta, Tokyo Metropolitan University, Japan
- Shusuke Izuta, Keio University
- Takuya Iwanaga, Kyushu Institute of Technology, Japan
- Keisuke Kondo, Tokai University, Japan
- Yuta Kusano, Tokai University, Japan; and UNISON Student Representative
- Xiao Ma, Tsukuba University, Japan; and UNISON Student Representative
- Daichi Manabe, Tsukuba University, Japan
- Masatomo Ichige, Kyushu Institute of Technology, Japan
- Akira Miyahara, Kyushu Institute of Technology, Japan
- Yayoi Murakami, Kyushu Institute of Technology, Japan
- Kenji Nakajima, Tokyo Metropolitan University, Japan
- Satoshi Nakamura, Tokai University, Japan
- Kentaro Nishi, Tokyo Metropolitan University, Japan
- Kento Ohinata, Nihon University, Japan
- Takehiro Ohira, Tokyo Metropolitan University, Japan
- Yumiko Okada, Kyushu Institute of Technology, Japan
- Takeshi Sakuma, Tokyo Metropolitan University, Japan
- Koki Sakuyama, Tokyo Metropolitan University, Japan
- Junichi Takisawa, University of Tokyo, Japan
- H.Akihito Uchida, Tokai University, Japan
- Masaki Watanabe, Tokyo Metropolitan University, Japan
- Taku Watanabe, Tokyo Metropolitan University, Japan
- Shota Yamaguchi, Tokai University, Japan
- Yuma Yanaga, Kyushu Institute of Technology, Japan
- Takahiro Ito, Azusa Muta and Masaru Osaki, UNISEC Alumni Association (UNISAS)

(Note: committees are listed in alphabetical order)

Student staff members of Local Host Organization (Kyushu Institute of Technology)

Sho Ito, Hiroshi Fukuda, Takahiro Yamasaki, Atomu Tanala, Yuzo Tanaka, Takuya Motohata,
Trinh Thang Long (Vietnam), Tejumola Raphael Taiwo, (Nigeria), Danny Chen Shiyi (Singapore),
Rahyanditya Ilham (Indonesia), Mohamed Yahia Edries (Egypt), Yuki Asari, Anna Kawano, Kazutaka
Kawasaki, Koyo Taniwaki, Hiroki Hashimoto, Shiro Yasunaga, Takahiro Tomioka, Hiroshi Ishihara,
Haruka Nishio, Muhammad Alkali (Nigeria), Aheieva Kateryna (Ukraine), Al-Mubarak Halla, (Sudan)

✧ **Point of Contacts for the 2nd UNISON-Global Meeting**

- Angola: Zolana João: Gabinete de Gestão do Programa Espacial Nacional (GGPEN)
- Australia: Naomi Mathers: Australian National University Advanced Instrumentation and Technology Centre
- Bangladesh: Tarekul Islam: Bangladesh University of Engineering and Technology
- Bangladesh: Khalilur Rahman: BRAC University
- Brazil: João Dallamuta: Associação Aeroespacial Brasileira
- Bulgaria: Plamen I. Dankov: Sofia University "St. Kliment Ohridski"
- Bulgaria: Vesselin Vassilev: CASTRA
- Canada: Larry Reeves: Canadian Satellite Design Challenge Management Society
- Egypt: Ayman Kassem: Cairo University
- Egypt: Mohammed Khalil Ibrahim: Cairo University
- Germany: Klaus Schilling: University of Würzburg
- Ghana: Manfred Quarshie: Regent University College
- Guatemala: Willy Ricardo Cabañas Villagrán: University Rafael Landívar
- Indonesia: Thombi Layukallo: Surya University
- Italy: Fabio Santoni: University of Rome la Sapienza
- Japan: Mengu Cho: Kyushu Institute of Technology
- Kenya: Faith Karanja: University of Nairobi
- Korea: In-Seuck Jeung: Seoul National University
- Lithuania: Vidmantas Tomkus: Lithuanian Space Association
- México: Blanca Rebollar: The Mexican Space Agency
- North-Mexico Region: Barbara Bermudez Reyes: Universidad Autonoma de Nuevo Leon
- Mongolia: Tsolmon Renchin: The National University of Mongolia
- Namibia: Smita Francis: Department of Electrical Engineering at Polytechnic of Namibia
- Nigeria: Nnadih S Ogechukwu: African Regional Centre for Space Science and Technology Education in English
- Peru: Hector Bedon: The National University of Engineering (UNI)
- Philippines: Rogel Mari Sese: Regulus SpaceTech
- Philippines: Rosario Ang: The University of the Philippines Diliman (UPD)
- Russia: Igor V Belokonov: Samara State Aerospace University
- Saudi Arabia: Sultan Hasan AlSultan: AlQassim University and Saudi Arabia Parliament
- Singapore: Kay Soon Low: Nanyang Technological University
- Slovenia: Saso Blazic: University of Ljubljana
- South Africa: Arno Barnard: University of Stellenbosch
- Switzerland: Cem O. Asma: Swiss Space Systems
- Taiwan: Jyh-Ching Juang: National Cheng Kung University
- Thailand: Sawat Tantiphawadi: National Science and Technology Development Agency
- Tunisia: Kamel Besbes: Faculté des Sciences de Monastir
- Turkey: Alim Rustem Aslan: Istanbul Technical University
- USA: Jordi Puig-Suari: Cal Poly

✧ **The 3rd Mission Idea Contest**

- Review Committee
 - Prof. Rainer Sandau, IAA (Chair)
 - Prof. Hiroshi Kawahara, Cyber University
 - Prof. Shinichi Nakasuka, the University of Tokyo
 - Prof. Jordi Puig-Suari, Calpoly
 - Dr. Jerry Sellers, Teaching Science & Technology, Inc.
 - Prof. Herman Steyn, Stellenbosch University
 - Prof. Sir. Martin Sweeting, Surrey Space Centre
 - Dr. Masaya Yamamoto, Weathernews, inc.
- Selection Committee for the Best Poster Award
 - Prof. Fernando Aguado-Agelet: University of Vigo (Chair)
 - Prof. Alim Rustem Aslan: Istanbul Technical University
 - Prof. Hyochoong Bang: The Korea Advanced Institute of Science and Technology (KAIST),

- Mr. Arno Barnard: University of Stellenbosch,
- Prof. Kay Soon Low, Nanyang Technological University
- Prof. Ramón Martínez: Universidad Politécnica de Madrid
- Dr. Fernando Stancato, University of São Paulo
- Dr. Sawat Tantiphanwadi: National Science and Technology Development Agency (NSTDA)

➤ Regional Coordinator

- Angola: Zolana João: Gabinete de Gestão do Programa Espacial Nacional (GGPEN)
- Australia: Naomi Mathers: Australian National University Advanced Instrumentation and Technology Centre
- Bangladesh: Tarekul Islam: Bangladesh University of Engineering and Technology
- Belgium: Ertan Umit, Von Karman Institute for Fluid Dynamics
- Brazil: Fernando Stancato: University of São Paulo
- Brunei: Jose Edgardo Aban: Universiti Brunei Darussalam,
- Bulgaria: Plamen I. Dankov: Sofia University "St. Kliment Ohridski"
- Bulgaria: Vesselin Vassilev: CASTRA
- Canada: Larry Reeves: Canadian Satellite Design Challenge Management Society
- Egypt: Ayman Kassem; Cairo University
- Egypt: Mohammed Khalil Ibrahim: Cairo University
- Ghana: Manfred Quarshie: Regent University College
- Germany: Marco Schmidt: Bochum University of Applied Sciences
- Guatemala: Willy Ricardo Cabañas Villagrán: University Rafael Landívar
- Italy: Fabio Santoni, University of Rome la Sapienza
- Japan: Seiko Shirasaka: Keio University
- Japan: John Polansky: Kyushu Institute of Technology
- Kenya: John Mugwe: Afrosoft
- Kenya: Faith Karanja: University of Nairobi
- Korea: Hyochoong Bang: The Korea Advanced Institute of Science and Technology (KAIST)
- Korea: In-Seuck Jeung: Seoul National University
- Lithuania: Vidmantas Tomkus: Lithuanian Space Association
- México: Esaú Vicente Vivas: Universidad Nacional Autónoma de México
- Mongolia: Tsolmon Renchin The National University of Mongolia
- Namibia: Smita Francis: Polytechnic of Namibia
- Nigeria: Nnadih S Ogechukwu: African Regional Centre for Space Science and Technology Education in English
- Peru: Hector Bedon: The National University of Engineering (UNI)
- Peru: José F. Oliden Martínez: The National University of Engineering (UNI)
- Philippines: Ariel C. Blanco, University of the Philippines Diliman (UPD)
- Philippines: Rosario Ang: University of the Philippines Diliman (UPD)
- Russia: Igor V Belokonov: Samara State Aerospace University
- Saudi Arabia: Sultan Hasan AlSultan: AlQassim University and Saudi Arabia Parliament
- Serbia: Velibor Vukasinovic, the Cluster of Serbian Aeronautical Industry – UVIS
- Singapore: Kay Soon Low: Nanyang Technological University
- South Africa: Robert van Zyl: The Cape Peninsula University of Technology
- South Africa: Arno Barnard: University of Stellenbosch
- Spain: Fernando Aguado-Agelet: University of Vigo
- Spain: Ramón Martínez: Universidad Politécnica de Madrid
- Thailand: Sawat Tantiphanwadi: National Science and Technology Development Agency
- Taiwan: Jyh-Ching Juang: National Cheng Kung University
- Tunisia: Kamel Besbes: Faculté des Sciences de Monastir
- Turkey: Alim Rustem Aslan: Istanbul Technical University
- USA: Roland Coelho: Cal Poly
- Venezuela: Lietutenant Andres J. Arenas: University of the Armed Forces (Unefa)
- Vietnam: Pham Anh Tuan: Vietnam National Satellite Center (VNSC)

✧ **Focal Point:**

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Host Organization

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6. Sponsors and Partners

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Japan



Collaborator:



International Academy of Astronautics (IAA)

7. Exhibitors

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- **UNISEC**, Japan (Rei Kawashima, info@unisec.jp, +81(0)-3-5800-6645)

8. Programme

Day1 - Tuesday, 18 November 2014		
8:00 -9:00	Registration of participants	
9:00-15:00	Student Session (the 2nd UNISON-Global Meeting) Moderator: Yuta Kusano, Tokai University and Xiao Ma, Tsukuba University	
9:00-9:30	Opening Speech and Introduction of activities of UNISON (UNISEC Student Organization) -Japan	Yuta Kusano, Student Representative of UNISEC-Japan and Tokai University, et al (Japan)
9:30 -9:38	Student presentation - Bangladesh	Abdulla Hil Kafi, BRAC University (Kyushu Institute of Technology)
9:38-9:46	Student presentation – Egypt	Hassan Ali Hassan Fouad, Cairo University
9:46-9:54	Student presentation - Germany	Slavi Dombrovski, University of Würzburg
9:54-10:02	Student presentation - Ghana	Aaron Yankey Antwi, All Nations University
10:02-10:10	Student presentation - Italy	Marcello Valdatta, University of Bologna
10:10-10:18	Student presentation - Korea	Ji Hyun Park, Seoul National University
10:18-10:26	Student presentation - Lithuania	Algis Karpavicius, Kaunas University of Technology
10:26-10:34	Student presentation - Mexico	Octavio Rafael Farias Altamira, Universidad Autónoma de Nuevo León
10:34-10:50	Coffee Break	
10:50-10:58	Student presentation - Nigeria	Obasi, Casmir Oluabuchukwu, University of Nigeria Nsukka
10:58-11:06	Student presentation - Peru	Juan Carlos Huamani Asto, National University of Engineering
11:06-11:14	Student presentation - Philippines	Adrian Josele G. Quional, University of the Philippines
11:14-11:22	Student presentation – Poland	Inna Uwarowa, Warsaw University of Technology
11:22-11:30	Student presentation - South Africa	Ifriky Tadadjeu Sokeng, Cape Peninsula University of technology and Jan-Hielke le Roux, Stellenbosch University
11:30-11:38	Student presentation - Taiwan	Jordan Vannisten, National Cheng Kung University
11:38-11:46	Student presentation - Tunisia	Nissen Lazreg, University of Monastir
11:46-11:54	Student presentation - Turkey	Mehmet Şevket ULUDAĞ, Istanbul Technical University
12:00-13:00	Lunch (Light lunch will be served)	
13:00-15:00	Kyushu Institute of Technology Lab Tour Moderator: Akira Miyahara, KyuTech & H.Akihito Uchida, Tokai University	
13:00-13:10	Introductory Remarks	Akira Miyahara, Kyushu Institute of Technology, Japan
13:10-14:10	Lab and satellite testing facilities tour by small groups	
14:10-14:30	An Example of university collaboration in using satellite testing facilities – case of “PROCYON”	Takuro Furumoto, University of Tokyo
14:30-15:00	Discussion - sharing views, experiences, etc on satellite testing	All participants

15:00-15:30	Registration of the 2nd UNISEC-Global Meeting and Coffee/Tea Break	
15:30-18:30	Opening Session for the 2nd UNISEC-Global Meeting Moderator: Koichi Yonemoto, Kyushu Institute of Technology and Akira Iwasaki, University of Tokyo	
15:30-15:50	Welcome Speech & Introduction to UNISEC Global	Rei Kawashima, UNISEC
15:50-16:00	Opening Remarks	Rainer Sandau, IAA
16:00-16:10	Opening Remarks	Werner Balogh, United Nations
16:10-18:20	Country Reports from Point of Contacts (each 8min.x 14 reports/presentations)	
16:10-16:18	Australia	Naomi Mathers, ANU Advanced Instrumentation and Technology Centre
16:18-16:26	Bangladesh (Local Chapter Candidate)	Maisun Ibn Monowar, BRAC University (Kyushu Institute of Technology)
16:26-16:34	Egypt (Local Chapter Candidate)	Mohammed Khalil Ibrahim, Cairo University
16:34-16:42	Ghana	Manfred Quarshie, Regent University College
16:42-16:50	Germany (Local Chapter Candidate)	Klaus Schilling, University of Wuerzburg
16:50-16:58	Korea	In-Seuck Jeung, Seoul National University
16:58-17:10	Short Break	
17:10-17:18	Lithuania (Local Chapter Candidate)	Vidmantas Tomkus, Lithuanian Space Association
17:18-17:26	Nigeria (Local Chapter Candidate)	Nnadih S Ogechukwu: African Regional Centre for Space Science and Technology Education in English
17:26-17:34	North-Mexico(Local Chapter Candidate)	Barbara Bermudez Reyes, Universidad Autonoma de Nuevo Leon
17:34-17:42	Saudi Arabia	Sultan Hasan AlSultan: AlQassim University and Saudi Arabia Parliament
17:42-17:50	South Africa (Local Chapter Candidate)	Arno Barnard, Stellenbosch University
17:50-17:58	Taiwan	Jyh-Ching Juang, National Cheng Kung University
17:58-18:06	Tunisia (Local Chapter Candidate)	Omar Ben bahri, University of Monastir
18:06-18:14	Turkey (Local Chapter Candidate)	A.Rustem Aslan, Istanbul Technical University
18:14-18:30	Welcome speech from Host organization and Closing remarks of the 1st Day	Mengu Cho, Kyushu Institute of Technology
19:00-21:00	Student Reception (at Horyu Kaikan, 2000JPY/person)	

Moderator: Makoto Ioki, Keio University, Japan

Day2 - Wednesday, 19 November 2014		
8:00-8:40	Registration of participants	
8:40-14:30	The 3rd Mission Idea Contest	
8:40-8:50	Welcome Speech and Introduction to the 3 rd Mission Idea Contest	Rainer Sandau, Chair of the Review committee for MIC3 and International Academy of Astronautics
8:50-9:10	Piezo-active Suspension system for Space Interferometry and Broadband Communications	Algis Karpavicius, Kaunas University of Technology
9:10-9:30	Moon-sighting satellite "Otsukimi"	Bianca Szasz, Kyushu Institute of Technology
9:30-9:50	Africa Nano3: Leveraging NANOscience, NANOTECHNOLOGY and NANOSATELLITES for Africa-centred connectivity solutions	Ifriky Tadadjeu Sokeng, Cape Peninsula University of Technology
9:50-10:10	A nano-satellite constellation for tracking and monitoring endangered wildlife in developing countries.	Andre Heunis and Jan-Hielke le Roux, Stellenbosch University
10:10-10:40	Group Photo and Coffee/Tea Break	
10:40-11:00	Lunar Relativistic Positioning System (LRPS) for Human Exploration	Luca Levrino, Politecnico di Torino
11:00-11:20	Clouds Height Mission	Klemen Zakšek and Marcello Valdatta, NPC SPACEMIND, Univ. of Hamburg, Center of Excellence SPACE-SI
11:20-11:40	CubeSat amateur laser communication with Earth to Moon orbit data link capability	Oleg Nizhnik, JAXA
11:40-12:00	A Concept for a Microgravity Experiment Recoverable Satellite "MERS"	Sean Tuttle, UNSW Canberra
12:00-12:20	TwinCube - Proposal for Tether Supported Plasma Measurement 3-Unit CubeSat	Tomasz Szewczyk, Space Research Centre PAS (SRC PAS), Warsaw, Poland
12:20-13:50	Poster Session at Horyu Kaikan (light lunch will be served)	
1	MENA Renewable Energy Source Mapping Via Nano-Satellite Mission	Ahmed Farid, Fatima Fouda, Amr Sherif, October University For Modern Sciences & Arts (MSA) and Cairo University
2	MULTISPECTRAL IMAGING SYSTEM FOR HUMAN DEVELOPMENT COOPERATION AND PEOPLES ECUADOR MEXICO, SATECUMEX	Ivan Cornejo, UNAM
3	Near Real Time Space Debris Tracking Satellite using Lidar	Jaeyoung Lim, Seoul National Univ.
4	A CubeSat network to monitor near Earth objects and to develop Space access	Marco Agnan and Jordan Vannitsen et al., National Cheng Kung University
5	Sea Ice Measurements using GNSS Reflectometry from Nano-Satellites	Peter Kruzlics et al., WatSat-University of Waterloo
6	MicroSatellite Miner (MICROMIN)	Mehmet Şevket ULUDAĞ et al., Istanbul Technical University
7	Space-Based System for Short -Term Earthquake Warning	Mohammed Khalil Ibrahim, Cairo University & Sultan Hassan Al-Sultan, AlQassim University
8	NanoSatellites Monitoring for Human Health Control	Omar Ben Bahri, University of Monastir
9	Pardus – Sat	Sedat Nazlibilek, ATILIM Univ. & Alime Özyildirim, ASELSAN COMPANY et al.
10	nanoTrack – Global Tracking Constellation	Valentin Stavrev et al., nanoTrack Startup Group
14:00-14:30	Award Ceremony (Moderator: Shinichi Nakasuka, University of Tokyo)	
15:00-17:30	Bus tour (Chofu Garden)	
18:30-20:30	Reception at Mojiko-Hotel (return to Kokura area by bus)	

Day3 - Thursday, 20 November 2014		
8:30-9:00	Registration of participants	
9:00-10:20 Special Report Session		
Moderator: Vidmantas Tomkus, Lithuanian Space Association		
9:00-10:00	Latest news on ROSETTA / PHILAE (including Q&A session)	Klaus Schilling, University of Wuerzburg
10:00-10:10	Status Report for QB50	Rustem Aslan, Istanbul Technical University
10:10-10:20	Report of the 5 th CanSat Leader Training Program (CLTP5) and Announcement of CLTP6	Harunori Nagata, Hokkaido University as CLTP5&6 Host Univ.
10:20-10:40 Coffee/Tea Break		
10:40-17:00 Small Group Discussion Session		
Moderator: Kentaro Nishi, Tokyo Metropolitan University and Tejumola Taiwo, Kyushu Institute of Technology		
10:40-10:50	Introductory Remarks	Kentaro Nishi, Tokyo Metropolitan University
10:50-11:35	Short Briefing by Moderator of each Group	
10:50-10:55	Group 1: Opportunities and challenges associated with interplanetary nanosatellite missions	Jordan Vannitsen, National Cheng Kung University
10:55-11:00	Group 2: Remote Sensing Data User Group	Prof Sultan Alsultan, Alqassim University, (Prof Akira Iwasaki, University of Tokyo)
11:00-11:05	Group 3: Space mining using nano-micro satellites	Mehmet Sevkett Uludağ (Prof. A.Rüstem Aslan), Istanbul Technical University
11:05-11:10	Group 4: Prospective of CanSat Hands-on Education Projects	Mohammed Khalil Ibrahim, Cairo University and Hiraku Sakamoto, Tokyo Institute of Technology
11:10-11:15	Group 5: Safety Standards of University Rocket	Prof. Koichi Yonemoto, Kyushu Institute of Technology and Yutaka Wada, Akita University
11:15-11:20	Group 6: How to design an EML to be capable of launching pico satellites (mass < 1kg) into LEO	Nevsan Sengil, University of Turkish Aeronautical Association
11:20-11:25	Group 8: Ground Station Network (GSN)	Yuji Sakamoto, Tohoku University
11:25-11:30	Group 9: How to manage UNISON	Yuta Kusano, Tokai University and Xiao Ma, Tsukuba University
11:30-11:35	Group 10: Successfully launching university satellites: From design to orbit	Roland Coelho, Cal Poly, USA
11:35-15:50	Discussions by each small group (including lunch)	
15:50-16:10 Coffee/Tea Break (Back to main hall)		
16:10-16:55	Presentations by each group (each 5min x 9 Selected Speakers)	
17:00-18:00 Acknowledgement of new local chapters & Closing		
17:00-17:50	Acknowledgement of new local chapters	Steering Committee
17:50-18:00	Closing Remarks	Mengu Cho, Kyushu Institute of Technology
18:30- Gala Dinner at Kin-Nabe Restaurant (traditional Japanese restaurant)		

Note

- Congress Kit, Coffee/Tea break during the Meeting and Reception Dinner on Nov 19 are included in the registration fees.
- Information in this document is subject to change without notice.
- This meeting is broadcasted through Ustream. <http://www.ustream.tv/channel/unisec-global>
- All presentations and materials will be uploaded to the website.
- Photos taken during the meetings may be uploaded to the website and used for other publications

Contact UNISEC-Global Office

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Message: Ustream Broadcast

The 2nd UNISEC-Global Meeting broadcasts via Ustream.

Please share the following link on live with your friends, colleagues and family:

Ustream <<http://www.ustream.tv/channel/unisec-global>>

The Meeting will be posted for record in a few days in the following link:

Youtube <<https://www.youtube.com/user/UNISECmovie/videos>>

For your reference, the 1st UNISEC-Global Meeting of last year is available on the Youtube channel above. Thank you.

UNISEC-Global Secretariat

Map of Kyushu Institute of Technology and Rooms for Group Discussion (Nov 20)

