

# WELCOME TO

## The 6th UNISEC-Global Meeting

in collaboration with  
International Space University  
November 19-21, 2018  
Strasbourg, France

By the end of 2030, let's create a world where university students can participate in practical space projects in all countries.



# MESSAGE FROM GENERAL CHAIR

*Professor Shinichi Nakasuka*



As a General Chair of the 6th UNISEC-Global Meeting, I am very pleased and honored to welcome all of you at the International Space University, Strasbourg, France.

This is the first time for UNISEC-Global to collaborate with ISU. This collaboration was discussed and initiated at the UN-COPUOS meeting in February 2018 where both organizations are permanent observers. Our Secretary General, Rei Kawashima who graduated from ISU-MSS in 1996 – the first ever ISU masters class, asked Prof Chris Welch of ISU to help organize the 6th UNISEC-Global Meeting at ISU. I hope that many ISU students will participate in UNISEC-GLOBAL meeting, and

I am really curious about what kind of fusion will occur by mixing two communities !

University Space Engineering Consortium (UNISEC) was established with the objectives to support university students' practical space engineering activities such as micro/nano/pico-satellite and hybrid rocket development in Japan. Since then, UNISEC-Japan has grown very rapidly and in 2018 we now have 74 member groups from 53 universities and colleges. UNISEC has had such tremendous success in technological development, that 56 university satellites have been launched into space. In terms of education, many young engineers and researchers graduating from UNISEC are now playing very important roles in space development and utilization, as well as in many other areas.

With the success in Japan, UNISEC-Global activities was started in 2013 with several international professors who were willing to establish their own UNISECs in their regions. Now, we have fifty Points of Contact and sixteen Local Chapters across the world. We believe that UNISEC can be an excellent model of university-level space education in many countries. In this meeting at ISU, we would like to exchange information on what kind of activities are going on and how problems have been solved in each country's UNISEC, so that participants can learn from the experiences of others, one of the important roles of a UNISEC-type organization. As to the collaboration with ISU, UNISEC focuses on space engineering education and promoting practical space projects at university level whereas ISU space education features its 3Is - International, Intercultural and Interdisciplinary.

Thus, two organizations are perfectly complimentary, and participants can learn from each other in various aspects. I believe that we could learn and apply ISU's diversity and dynamism for future UNISEC-Global activities, and I strongly hope that innovative space projects will really happen in a good shape through our collaboration.

Finally, I would like to convey our gratitude to the companies who kindly supported our activities as sponsors. Without their support, this event would never be realized.

Please enjoy the excellent presentations and informative discussions in this three-day event and the following two day HEPTA-Sat training, and don't forget to enjoy the beautiful city, food and culture of Strasbourg !

# MESSAGE FROM CHAIR OF LOCAL COMMITTEE

*Professor Chris Welch*



On behalf of the local organisers and all of the International Space University (ISU) faculty, staff and students, I would like to extend a very warm welcome to all of the delegates to the 6th UNISEC-Global Meeting.

ISU was founded in 1987 as a not-for-profit international, interdisciplinary institution of higher learning, dedicated to the development of outer space for peaceful purposes education and research.

Its portfolio of courses includes an MSc in Space Studies (MSS) here in Strasbourg, an annual 9-week Space Studies Program (SSP) in a different location each year (SSP19 - Strasbourg, SSP20 – Shenzhen, China, SSP21 Grenada, Spain), a 5-week Southern Hemisphere Summer Space Program (SH-SSP) in Adelaide and 1-week Executive Space Course in Strasbourg and Seattle. Since its inception, ISU has graduated more than 4600 alumni from over 100 countries.

Unlike most of the schools represented at the UNISEC-Global meeting, ISU is not an engineering school, instead specialising in a «3Is» approach, providing an interdisciplinary, intercultural, and international environment for educating and training graduates and professionals. In addition, ISU is quite small compared to many university space engineering departments.

Although we have a number of resident faculty based at the Strasbourg campus, we make great use of an international network of visiting faculty and lecturers, including astronauts, space agency leaders, space engineers, space scientists, space project managers, space lawyers and experts, covering a wide range of technical and non-technical space-related fields, all of these supported by space agencies and space sector companies and organizations.

Communications between different disciplines, different cultures and different nationalities can be demanding sometimes, but the rewards for persevering with this particular form of space exploration are both immense and highly gratifying. It is in this spirit of dialogue and discovery that we welcome you to ISU and look forward to making significant progress on our shared space mission – educating the next generation of space professionals.

Ad astra,



## PROGRAM COMMITTEE

(Alphabetical order)

**Chair: Shinichi Nakasuka**, the University of Tokyo

**A Rustem Aslan**, Istanbul Technical University

**Mengu Cho**, Kyushu Institute of Technology

**Mohammed Khalil Ibrahim**, Cairo University

**Rei Kawashima**, UNISEC-Global

**Shinichi Kimura**, Tokyo University of Science

**Yasuyuki Miyazaki**, Nihon University

**Harunori Nagata**, Hokkaido University

**Rainer Sandau**, International Academy of Astronautics (IAA)

**Fabio Santoni**, Sapienza – University of Rome

**Klaus Schilling**, University of Würzburg

**Herman Steyn**, Stellenbosch University

**Sir Martin Sweeting**, Surrey Satellite Technology Ltd (SSTL) and Surrey Space Centre (SSC)

## LOCAL ORGANIZING COMMITTEE

**Chair: Chris Welch**, International Space University

**Claire Byrski**, International Space University

**Taiwo Tejumola**, International Space University

## REVIEW COMMITTEE FOR MIC5

**Chair: Herman Steyn**, Stellenbosch University

**Rene Laufer**, Baylor University

**Jordi Puig-Suari**, Calpoly

**Shinichi Nakasuka**, University of Tokyo

**Rainer Sandau**, IAA

**Jerry Sellers**, TSTI

**Sir Martin Sweeting**, SSTL and Surrey Space Centre

**Chris Welch**, ISU

### REVIEW TEAM FOR THE BEST POSTER AWARD:

**Chair: A Rustem Aslan**, Istanbul Technical University

**Mengu Cho**, Kyushu Institute of Technology

**Fabio Santoni**, Sapienza, University of Rome

## POINT OF CONTACT

- **ALGERIA** - Messaoud Bensaada, Algerian Space Agency
- **ARGENTINA** - Marco Alvarez Reyna, National Technological University
- **ANGOLA** - Zolana João: Angolan Office for Space Affairs (GGPEN)
- **ANGORA** - Ivandro Rodrigues, Angolan Office for Space Affairs (GGPEN)
- **BANGLADESH** - Tarekul Islam, Bangladesh University of Engineering and Technology
- **BANGLADESH** - MD Khalilur Rhaman, BRAC University
- **BANGLADESH** - Raihana Shams Islam Antara, BRAC University
- **BELARUS** - Vladimir Saetchnikov, Belarusian State University
- **BRAZIL** - João Dallamuta: Universidade Tecnológica Federal do Paraná
- **BOLIVIA** - Eddy Vino: Universidad Mayor de San Andres and Universidad Privada Boliviana
- **BULGARIA** - Plamen I. Dankov: Sofia University "St. Kliment Ohridski"
- **BULGARIA** - Nikolay Tomov Cluster Aero-Space Technologies, Research & Applications (CASTRA)
- **CANADA** - Larry Reeves: Canadian Satellite Design Challenge Management Society
- **CHILE** - Cristian F. Chavez Tapia: Pontificia Universidad Catolica de Chile
- **COSTA RICA** - Adolfo Chaves Jiménez, Costa Rica Institute of Technology
- **EGYPT** - Ayman Kassem; Cairo University - Mohammed Khalil Ibrahim: Cairo University
- **EL SALVADOR** - Luis Salaverria, El Salvador Aerospace Institute
- **GHANA** - Manfred Quarshie: Space Science Systems Research Institute
- **GHANA** - Sharon Emelia Dornukie Sappor: All Nations University College
- **GUATEMALA** - Willy Ricardo Cabañas Villagrán: University Rafael Landivar
- **GERMANY** - Klaus Schilling: University of Würzburg
- **INDIA** - G.P.Ganapathy, Vellore Institute of Technology (VIT)
- **INDIA** - K. Gopalkrishnan, New Horizon College of Engineering
- **INDONESIA** - Thombi Layukallo: Yayasan Bina Bangsa Agung Podomoro
- **INDONESIA** - Robertus Heru Triharjanto Satellite Technology Center, LAPAN
- **ITALY** - Fabio Santoni: Sapienza – University of Rome
- **JAPAN** - Mengu Cho: Kyushu Institute of Technology
- **KENYA** - Faith Karanja: University of Nairobi
- **LEBANON** - Amin Haj-Ali, Lebanese International University
- **LITHUANIA** - Vidmantas Tomkus: Lithuanian Aerospace Association
- **LUXEMBURG** - Edder Rabadan Santana, University of Luxembourg
- **MEXICO** - Blanca Rebolgar: The Mexican Space Agency
- **MEXICO** - Barbara Bermudez Reyes: Universidad Autonoma de Nuevo Leon
- **MALAYSIA** - Norilmi Amilia Ismail: Universiti Sains Malaysia (USM),
- **MONGOLIA** - Tzolmon Renchin: The National University of Mongolia
- **MOROCCO** - Naoufal Raissouni: University of Abdelmalek Essaadi,
- **NAMIBIA** - Smita Francis: Namibia University of Science and Technology
- **NEPAL** - Anup Thapa: Kathmandu University
- **NIGERIA** - Nnadih S Ogechukwu: African Regional Centre for Space Science and Technology Education in English
- **NEW ZEALAND** - Jim Hefkey: University of Auckland
- **OMAN** - Al-Shidhani, Sultan Qaboos University
- **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 (SAMARA)** - Igor V Belokonov: Samara National Research University
- **SAUDI ARABIA** - Sultan Hasan AlSultan: The Environmental Remote Sensing Consultant
- **SERBIA** - Dušan Radosavljević: University of Novi Sad
- **SINGAPORE** - Kay Soon Low: National University of Singapore
- **SLOVENIA** - Saso Blazic: University of Ljubljana
- **SOUTH AFRICA** - Arno Barnard: University of Stellenbosch
- **SOUTH AFRICA** - Robert van Zyl, The Cape Peninsula University of Technology
- **SOUTH KOREA** - In-Seuck Jeung: Seoul National University
- **SOUTH KOREA** - Hyochoong Bang: The Korea Advanced Institute of Science and Technology (KAIST)
- **SPAIN** - Fernando Aguado-Agelet, University of Vigo, CINAIE (Galician Aerospace Centre)
- **TAIWAN** - Jyh-Ching Juang: National Cheng Kung University
- **THAILAND** - Sawat Tantiphanwadi: SpaceThai
- **THAILAND** - Phongsatorn Saisutjarit: King Mongkut's University of Technology
- **TUNISIA** - Kamel Besbes: University of Monastir/ DG Centre for Research on Microelectronics and Nanotechnology, Technopark Sousse
- **TURKEY** - Alim Rustem Aslan: Istanbul Technical University
- **UKRAINE** - Oleksii V. Kulyk: National Aerospace Educational Center of Youth
- **USA** - Jordi Puig-Suari: California Polytechnic State University (Cal Poly)
- **USA** - Amal Chandran: University of Colorado
- **USA** - Amelia Greig: California Polytechnic State University (Cal Poly)
- **VIETNAM** - Nguyen Huu Diep: Vietnam National Satellite Center (VNSC)



# PROGRAM

## DAY 1 **MONDAY NOVEMBER 19 2018**

**8:00 - 9:00 REGISTRATION AND WELCOME REFRESHMENT**

**9:00 - 9:40 OPENING CEREMONY**

**MC: Chris Welch** - International Space University (ISU)

**Welcome message, Juan de Dalmau** – President of ISU

**Video Message from Simonetta Di Pippo**, United Nations Office for Outer Space Affairs

**Nicolas Matt**, Vice-President of the Eurometropole de Strasbourg

**Opening Message**, Rei Kawashima, UNISEC-Global

**9:40 - 10:40 KEYNOTE SPEECH**

**09:40 - 10:10 Shinichi Nakasuka**, University of Tokyo

CanSat and CubeSat History in Japan - How they started and contributed to education and technologies

**10:10 - 10:40 Mengu Cho**, Kyushu Institute of Technology

My evolution from ISU 3I to BIRDS Program, a Cross-Border Inter-University Collaboration on Space Research and Education

**10:40 - 11:00 COFFEE & TEA BREAK - EXHIBITION HALL**

**11:00 - 12:00 SPONSORS / EXHIBITORS PRESENTATION**

**Moderator:** Nobuyuki Kaya, WaveArrays, Inc.

**11:00 - 11:15 Canon Electronics Inc. - Satch Hattori**

**11:15 - 11:30 Space BD Inc. - Makoto Kanazawa**

**11:30 - 11:40 ICE CUBES - Hilde Stenuit**

**11:40 - 11:50 UNISEC - Japan - Kento Maeda**

**11:50 - 11:55 TSTI - Jerry Sellers** *[Video]*

**11:55 - 12:00 ISU - Chris Welch**

**12:00 - 13:00 LUNCH - EXHIBITION HALL**



## **13:00 - 15:10 THE 5TH MISSION IDEA CONTEST FOR MICRO/NANO SATELLITE UTILIZATION**

**Moderator:** Tadadjeu Sokeng Ifriky, The University Space Centre of Montpellier

**13:00 - 13:10**

**Overview of MIC5** - Herman Steyn, Stellenbosch University

**13:10 - 13:30**

**Smallsat Ionosphere Exploration at Several Times and Altitudes (SIESTA)**

*Duann Yi, National Central University, Kandi Anand Kaustubh, ISRO*

**13:30 - 13:50**

**Development of Microsatellite in Monitoring Initial Harmful Algae Bloom (HAB)**

*Aik Kwan Tan, University Sains Malaysia (USM)*

**13:50 - 14:10**

**HERON - An Open Source Microbiology Experiment Platform in Low Earth Orbit**

*Ali Haydaroglu, Xi Lan, Kimberly Ren, University of Toronto*

**14:10 - 14:30**

**HEMERA-Constellation of passive SAR-based micro-satellites for a Master/Slave configuration**

*Andrea Bellome, Giulia Broggi, Luca Collettini, Davide Di Lenno, Edoardo Fornari, University of Rome - La Sapienza*

**14:30 - 14:50**

**Mining Surveillance Application Using a CubeSat Constellation**

*Luke Hans van der Stokker, Francois Nicolaas Lombard, Stellenbosch University*

**14:50 - 15:10**

**Arid and Semi-Arid Lands Satellite (ASAL-SAT): A LoRa ground sensor network for easing life in Sub-Saharan Africa ASAL areas [Video]**

*Kiruki Cosmas, Kyushu Institute of Technology*

**15:10 - 15:30 COFFEE & TEA BREAK** - EXHIBITION HALL

**15:30-16:30 MIC5 POSTER PRESENTATION** - EXHIBITION HALL

**15:30 - 15:45 In-Situ Measurement of Material Degradation in Space**

*James Xie, Queen's Space Engineering Team*



**15:45 - 16:00**

**In-Orbit Assembly of Cube Satellites with Novel Docking Techniques**

*Samuel Low and Parekh Shalv Amit, Singapore Space and Technology Association*

**16:00 - 16:15**

**Satellite laser tracking system for aquatic organisms**

*Yuki Kakushi, Kindai University*

**16:20 - 17:40 LOCAL CHAPTER AND REGIONAL REPORT**

**Moderator:** Taiwo Tejumola, ISU

**16:20 - 16:30** UNISEC - Bulgaria, Stoil Ivanov, Sofia University

**16:30 - 16:40** UNISEC - India, Nikhil Riyaz, New Horizon College of Engineering

**16:40 - 16:45** UNISEC - Bangladesh, Raihana Shams Islam Antara, BRAC University [Video]

**16:45 - 16:50** UNISEC - Egypt, Ayman Kassem, Cairo University [Video]

**16:50 - 17:00** Malaysia, Norilmi Amilia ismail, Universiti Sains Malaysia

**17:00 - 17:10** Lebanon, Amin Haj-Ali, Lebanese International University

**17:10 - 17:20** Luxemburg, Edder Jose Rabadan Santana, The University of Luxemburg

**17:20 - 17:30** Singapore, Jonathan Hung, Singapore Space and Technology Association

**17:30 - 18:00 MIC5 AWARD CEREMONY AND PHOTO SESSION**

**MC:** Shinichi Nakasuka, University of Tokyo

**18:30 - 20:30 RECEPTION AT EXHIBITION HALL OF ISU**

**MC:** Mengu Cho, Kyushu Institute of Technology



## Day 2 - **TUESDAY NOVEMBER 20 2018**

**8:00 - 9:00 REGISTRATION AND WELCOME REFRESHMENTS**

**9:00 - 10:00 Local Chapter Report**

**Moderator:** Edder Jose Rabadan Santana, The University of Luxemburg

- 9:00 - 9:15**      **UNISEC-Turkey**, Alim Rustem Aslan, Istanbul Technical University  
**9:15 - 9:30**      **UNISEC-SAR**, Herman Steyn, University of Stellenbosch  
**9:30 - 9:45**      **UNISEC-Japan**, Mengu Cho, Kyushu Institute of Technology  
**9:45 - 10:00**    **UNISEC-Italy** - Fabio Santoni, Sapienza University of Rome

**10:00 - 10:30 COFFEE/TEA BREAK AND GROUP PHOTO** - EXHIBITION HALL

**10:30 - 17:30 GROUP DISCUSSION SESSION**

**Moderator:** Norilmi Smilia Ismil, University Saints Malaysia

**10:30 - 11:30 MODERATOR PRESENTATION**

**10:30 - 10:40** Overview: Rei Kawashima, UNISEC-Global

**10:40 - 10:45**

**Group 1: Commercialization of ISS - How to open up the ISS utilization to the private sectors**

*Ryuichi Sato, Space BD, Inc. & Hilde Stenuit, Space Applications Services*

**10:45 - 10:50**

**Group 2: Open Source Virtual Satellite**

*Satoshi Ikari, The University of Tokyo*

**10:50-10:55**

**Group 3: Follow up for BIRDS project**

*Mengu Cho, Kyushu Institute of Technology*

**10:55-11:00**

**Group 4: Global Antenna Sharing Project**

*Rustem Aslan, Istanbul Technical University*

**11:00-11:05**

### **Group 5: Commercialization of the Small Satellite Imagery**

*Alice Pellegrino, Sapienza University of Rome*

**11:05-11:10**

### **Group 6: Global University Space Debris Observation Network (GUSDON)**

*Fabio Santoni, Sapienza University of Rome*

**11:10-11:15**

### **Group 7: Standardization of Electrical interface for Pico/Nano Satellites**

*Oliver Ruf, Wurzburg University*

**11:15 - 11:20**

### **Group 8: Eco-system Development of HEPTA-Sat**

*Stoil Ivanov, Sofia University & Masahiko Yamazaki, Nihon University*

**11:20 - 11:25**

### **Group 9: Design and Implementation of a Space Mission Concept Database**

*Tadadjeu Sokeng Ifriky, the University Space Centre of Montpellier*

**11:25 - 11:30**

### **Group 10: Balancing Reliability and Cost; Towards Fostering Greater Mission Assurance for University CubeSats Projects**

*Taiwo Tejumola, International Space University*

### **11:30 - 12:30 GROUP LUNCH**

**(Please follow assistants of each group)**

### **12:30 - 16:00 GROUP DISCUSSION**

### **16:00 - 16:20 COFFEE/TEA BREAK - EXHIBITION HALL**

### **16:20 - 17:20 GROUP DISCUSSION FINAL PRESENTATIONS**

**17:20 - 17:30 - Group Discussion Remarks**

**17:30-17:50 - Acknowledgment of New Local Chapter MC:**

**MC:** Alim Rustem Aslan, Istanbul Technical University

### **17:50 - 18:50 ISU FACILITY TOUR**

### **19:00 - 21:00 GALA DINNER AT EXHIBITION HALL OF ISU**

**MC:** CHRIS WELCH, ISU

## DAY 3 **WEDNESDAY NOVEMBER 21 2018**

### **8:00 - 9:00 REGISTRATION AND WELCOME REFRESHMENTS**

### **9:00 - 10:00 INVITED PRESENTATION**

**Moderator:** Masahiro Nohmi, Shizuoka University

9:00 - 9:30 Small Satellite debris mitigation guidelines - a community effort, Rene Laufer, Baylor University

9:30 - 10:00 ISU Hydra Space Station Payloads, Chris Welch, ISU

### **10:00 - 10:20 COFFEE/TEA BREAK - EXHIBITION HALL**

### **10:20 - 11:50 STUDENT REPRESENTATIVE PRESENTATIONS**

**Moderator:** Stoil Ivanov, Sofia University

10:20 - 10:30 UNISEC-Bulgaria - *Ivan Mihov*

10:30 - 10:40 UNISEC-India - *Nikhil Riyaz*

10:40 - 10:50 UNISEC-Italy - *Alice Pellegrino*

11:00 - 11:10 UNISEC-Japan - *Nobuhiro Funabiki*

11:10 - 11:20 UNISEC-SAR - *Francois Nicolaas Lombard  
& Luke Hans van der Stokker*

11:20 - 11:30 Canada - *Ali Haydaroglu and James Xie*

11:30 - 11:40 ISU - *James Hurrell*

11:40 - 11:50 UNISEC-Egypt - *[Video] Shady Ammar Ahmed*

11:40 - 11:50 Argentina *[Video]* - Talia Bossone, UTN-FRC

### **11:50 - 12:50 LUNCH AT EXHIBITION HALL OF ISU**

### **12:50 - 14:05 STUDENT SESSION - (ALL PARTICIPANTS ARE WELCOMED)**

Theme: "Gender Equality in the Space Field"

**Moderator:** Alice Pellegrino

Introduction (15 min), Guest Speech (30 min), Break-out Session (30 min)

### **14:05 - 14:25 COFFEE/TEA BREAK**

### **14:25 - 15:20 STUDENT SESSION - PANEL DISCUSSION**

## 15:20 - 15:40 CLOSING CEREMONY

MC: Rainer Sandau, IAA

## SIGHTSEEING (OPTIONAL)

### NOTE

- *Welcome Refreshments, Coffee/Tea, Lunch, and Reception during the Meeting are included in the registration fee.*
- *Information in this document is subject to change without notice.*
- *All presentation materials will be uploaded to UNISEC Global website.*
- *Photos and videos taken during the meetings may be uploaded to UNISEC Global website/ facebook and used for other publications.*

## ASSOCIATED EVENT: HEPTA-SAT TRAINING

### DATE:

November 22-23

9:00 am - 6:00 pm

### VENUE:

International Space University



## HEPTA-Sat Training

Hands-on Education Program for Technical Advancement

Associate event for 6<sup>th</sup> UNISEC-Global Meeting

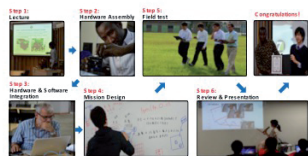
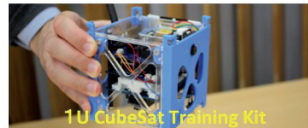
Date: Nov 22-23, 2018 (9:00am- 6:00pm)

Venue: International Space University, Strasbourg, France

### HEPTA-Sat Training

In this hands-on training, you will experience **"assembly, integration and test"** of a satellite development process using HEPTA-Sat. Through the hands-on training, you will learn **the roles, architecture and integration way** of each subsystem.

Target participants of the training course are all those who are interested in space. Non-engineers are also welcomed. Please enjoy HEPTA-Sat training as "an opportunity to know space engineering" or "a tool to learn small satellite engineering." JOIN US!



### Participant's Voice

The HEPTA-Sat training program was informative for me from the viewpoint of educational process. In this program, each chapter consists of a hands-on working of satellite assembling and programming, and learning of theory and design methodology. Owing to this composition, I could effectively experience the satellite system development and acquire the background knowledge. In addition, I thought that the balance of hands-on working and learning could be arranged for each participant according to one's level and interests, so that a variety of people could enjoy the training. This teaching method will be a good reference for me to design my lectures

Tuition: €350 (till Oct 31)  
€400(from Nov 1)

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## COLLABORATORS



# EXHIBITORS

## EXHIBITORS

## PERSON IN CHARGE



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## UNISEC - Global

## ISU - Host Organization

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***Let's create a world where university  
students can participate in practical  
space projects in all countries !***

