

The Pre-4th Mission Idea Contest Workshop (Pre-MIC4) - From Concept to Reality -



University Space Engineering Consortium
(UNISEC)



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Pre-MIC4 Workshop Overview

- Date: July 3, 2015 (during the 3rd UNISEC Global Meeting scheduled in July 3-5, 2015)
- Venue: University of Tokyo, Tokyo, Japan
- Two Categories:
 - Mission Proposers
 - Anybody who has mission ideas using micro/nano satellite(s)
 - Resource providers
 - can be companies, space agencies or other government sectors as well as individuals.
- Due of Application Submission:
 - March 3, 2015 for Mission Proposers
 - April 10, 2015 for Resource Providers
- Organizer: University Space Engineering Consortium (UNISEC)



Background (1)

- Mission Idea Contests have been held three times and one workshop since 2010 to encourage innovative exploitation of micro/nano-satellites to provide useful capabilities and services.
- It provides aerospace engineers, college students, consultants, and anybody interested in space with opportunities to present their creative ideas and gain international attention.



MIC3 final presentation,
Nov 19, 2014,
Tokyo, Japan



Background(2): Lessons learnt

- We found several factors that impeding the realization of the mission ideas of the finalists or semi-finalists. These factors may be technical aspects, financing or human resources, etc.
- **Pre-MIC4 workshop** will facilitate collaboration among individual, industry, university and government for the use of micro/nano-satellite.



MIC3 poster presentation,
Nov 19, 2014,
Tokyo, Japan



Objectives

- To create a favorable environment to facilitate domestic/international cooperation among individual, industry, university and government for the use of micro/nano-satellite.
- To increase the probability of realization of the mission by inviting resource providers, which is expected to support/contribute their mission ideas for possible realization. The resource provider can be companies, space agencies or other government sectors as well as individual experts.

Pre-MIC4 workshop will provide a forum for MIC participants by inviting the resource providers, in terms of seeking possible international cooperation or partnership arrangements.



Process and Timeline

Application Submission for Mission Proposers : Deadline March 3, 2015

Notification of Acceptance for Mission Proposers on March 31, short abstract of selected applicants will be presented on the website.

Application Submission for Resource Providers (general supports for PreMIC4/MIC4 and/or specific supports for PreMIC4 applicants) : Deadline April 10, 2015

Notification of Acceptance for Resource Providers on April 30, 2015

**Selected Proposers and Providers will be given information of each other.
Contact each other to seek support or to exchange information/opinions (No arrangement of matching)**

Presentation in Tokyo at Pre-MIC4 workshop on July 3



Comparison of previous MICs and Pre-MIC4

	MIC1	MIC2	PreMIC3	MIC3	PreMIC4
Satellite mass	< 15 kg	<50 kg	<50 kg	<50 kg	<50 kg
Number of satellites	2 or more than 2 (constellations only)	1 or more than 1 (no requirement for constellations)	Same as MIC2	Same as MIC2	Same as MIC2
Category	Only 1 category: Mission idea for nano-satellite constellation	2 categories: 1) Mission idea and satellite design 2) Mission idea and business model	Users Developers	Only 1 category:	Mission Proposers Resource Providers



Application for Mission Proposers

- 1. Title
- 2. Need (abstract): will be presented on website
- 3. Rationale:
- 4. Mission Objectives:
- 5. Concept of Operations
- 6. Key Performance Parameters
- 7. Expected (Possible) Results:
- 8. Collaborator(s)
- 9. Risks
- 10. Uniqueness



Application for Resource Providers

- Description of what you can provide to MIC applicants.
 - mentoring/consultation, components, technical supports, launch arrangement, financial supports, manpower for project management, mission equipment, testing facilities, ground station, training course, software, etc. If you could provide free/discount services to them, please specify it.
 - You can offer supports or provide information to help team(s) to develop their ideas if wish.
 - Also, in the presentation, you can introduce your services and/or products and explain how they would be helpful for realizing the mission ideas.



Contact

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3 July, 2015

During the 3rd UNISEC-Global Meeting
on 3-5 July in Tokyo, Japan

MIC office
Info@spacemic.net
<http://www.spacemic.net>

Regional Coordinator
<http://www.spacemic.net/regionalcoordinators3.html>