

Detailed Schedule for ‘Satellite Testing Tutorial’

Date: November 15 and 16, 2014

Location: Kitakyushu, Japan

Cost: \$800 USD per person (total price for two days)

Logistical details

Date: November 15 and 16 (Saturday and Sunday), 2014

Location: Kyushu Institute of Technology, Center for Nanosatellite Testing (CeNT)

Map: No.35 on campus map (<http://www.kyutech.ac.jp/english/about/map/tobata.html>)

Cost: \$800 USD total (\$400 USD/day, 1-day training not an option)

Registration: Contact Dr. John Polansky for registration/qualification **before October 31 2014**

Payment: Once registered, using credit card through the UNISEC website

Attendees: Maximum number of attendees is 16 total (seats may fill before deadline)

Materials: Lecture material provided, specifications/information of CeNT facilities provided

Meals: Coffee and lunch provided

Refund policy: Refunds will be made to those participants who must cancel, less a \$75 USD processing fee. A cancellation request must be sent to Dr. Polansky at polansky.john260@mail.kyutech.jp no later than October 31, 2014. No refunds will be made after this date. If you are registered for the tutorial but are unable to attend, you may substitute another employee from your organization once at no additional charge. Substitutions may be made via request to Dr. Polansky.

Tutorial objectives

- 1) Overview of relevant environmental tests for nano-satellites
- 2) Closely examine infrastructure necessary to conduct relevant tests
- 3) Hands-on test experience using CeNT facilities and dummy components/satellites
 - a. Mechanical testing training (vibration, shock)
 - b. Thermal testing training (thermal vacuum)
 - c. Thermal cycle demonstration
- 4) Testing strategies and lessons learned: How to optimize satellite development while simultaneously improving satellite reliability

Who should attend/reasons why you should attend

- 1) You are a “test engineer” or test-related personnel working on a satellite project
- 2) You are a member of satellite project team that is in need of practical testing knowledge and experience
- 3) You have plans to initiate a nano-satellite project that lacks sufficient environmental testing knowledge and experience
- 4) Any reason not described above that can be outlined on the “Application Form” (separate document)

Schedule (subject to change)

Day 1	Activity	Details
8:30 – 9:00	Coffee	
9:00 – 10:00	Lecture 1	Overview of environmental testing
10:00 – 10:30	Facilities tour	Visit LaSEINE and CeNT
10:30 – 12:00	Vacuum test preparation	Prepare samples for next day thermal vacuum test
12:00 – 13:00	Lunch	As group (cost included in registration)
13:00 – 14:20	Lecture 2	Practical instruction (mechanical testing)
14:40 – 18:00	Hands-on experiment 1	Vibration test
14:40 – 18:00	Hands-on experiment 2	Shock test

Day 2	Activity	Details
8:30 – 9:00	Coffee	
9:00 – 10:20	Lecture 3	Practical instruction (thermal testing)
10:40 – 12:00	Experiment demonstration	Thermal cycle test demonstration
12:00 – 13:00	Lunch	As group (cost included in registration)
13:00 – 15:40	Hands-on experiment 3	Thermal vacuum test
16:00 – 18:00	Lecture 4	Testing strategies and lessons learned

Final Note

If you wish to attend the ‘Satellite Testing Tutorial’ please apply according to the procedure on the “Application Form” (separate document). For questions please contact Dr. John Polansky via email: polansky.john260@mail.kyutech.jp