

Committee:

Leader:

Prof. Dr. Sazali bin Yaacob
Prof. Dr. Mohd Yusoff Mashor
Prof. Dr. Nagarajan Ramachandran
Assoc. Prof. Dr. Paul M P

Members:

1. Muhyi bin Yaakop
2. Zaridah binti Mat Zain
3. Normah Ahmed
4. Rosfariedzah binti Rusli
5. Siti Maryam binti Sharun
6. Shahrul Azmi bin Mohd Yusof
7. Wan Mohd Nooriman bin Wan Yahya
8. Muhammad Naufal bin Mansur

Acknowledgement to Vice Chancellor's Office,
School of Mechatronic, Multimedia Unit and
Research & Development Department
UniMAP



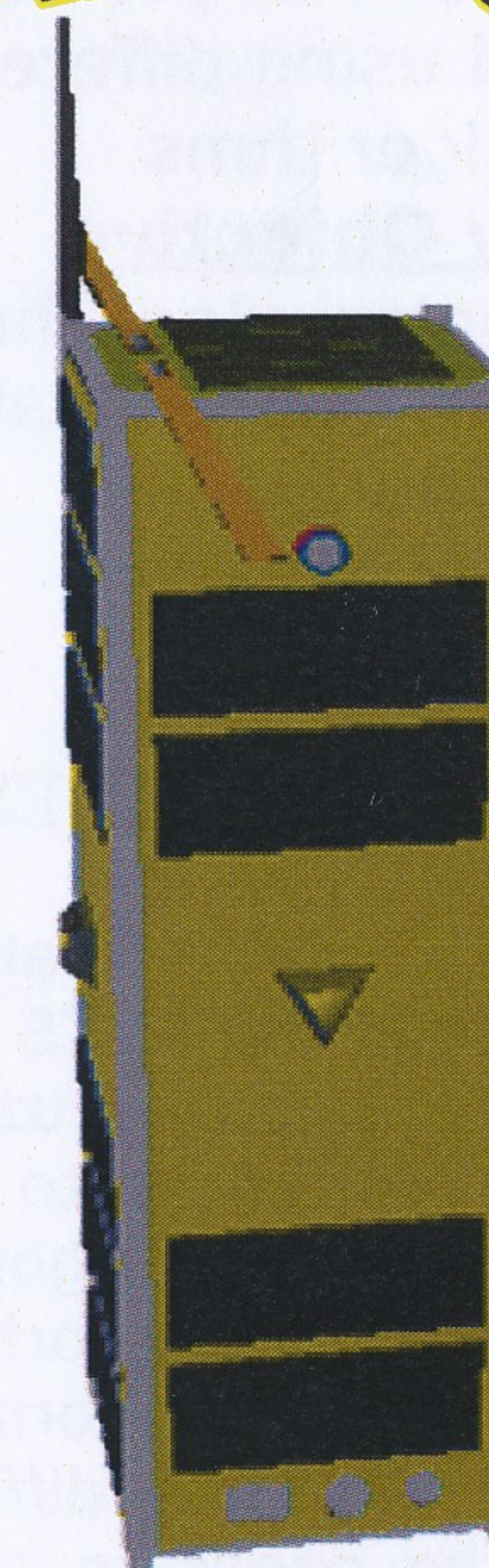
PRESS CONFERENCE



OF

ATTITUDE CONTROL SYSTEM FOR INNOSAT

UniMAP in Space



Date : 2nd April 2009
Venue : Dewan Keikhlasan UniMAP
Level 10 Bangunan KWSP
Time : 3 pm

*Shahid,
maka masukkan
di dalam DSpace
TA 214/09*

1.MISSION

Mission Statement

To design, develop and implement indigenous ACS

Mission Objectives

To test advanced control algorithms for satellite attitude control
To utilize the available attitude knowledge of InnoSAT to provide the attitude control using different control algorithms

Secondary Objective

To evaluate control algorithm performance with unpredictable conditions

2.PROJECT OBJECTIVES

To develop attitude control algorithms software; ACS is the part of the ADCS payload. The ACS has Adaptive Predictive Fuzzy Logic. The objective of this project is to develop attitude control algorithms that are going to be tested when the InnoSAT is in the orbit. Upon deployment in the Near Equatorial Orbit (NEqO), it will tumble and has difficulty to oriented itself. Hence the needs to control to the designated orientation. This is called Attitude Control System (ACS). On receiving the desired and actual angles, intelligent control algorithms using the Adaptive Predictive Fuzzy Logic Control (APFLC) and Adaptive Parametric Black Box (APBB) will be employed separately according to the command sequence that will be determined by the InnoSAT's main controller. Resulted data from this control algorithm experiments will be downlink to the ground control for analysis.

TENTATIVE

- 3.00pm - Arrival of guests and Head of Departments
3.15pm - Arrival of ATSB's staff
3.30pm - Arrival of UniMAP's Vice Chancellor, Y. Bhg Brigedier Jeneral Dato' Profesor Dr. Kamarudin Hussin
- "Wawasanku" song
- Doa
- Speech by Y. Bhg Dato' Dr. Ahmad Sabirin Arshad, Chief Executive Officer, Astronautic Technology Sdn Bhd and Opportunity Announcement on InnoSAT 2 and 3'
- Speech by UniMAP's Vice Chancellor, Y. Bhg Brigedier Jeneral Dato' Profesor Dr. Kamarudin Hussin
- Multimedia show by ATSB®
- Multimedia show and Presentation by Attitude Control Subsystem (ACS) Group UniMAP
- Hand-over of recognition certificate for InnoSAT 1-UniMAP Group
- Submission of InnoSAT 1's Final Document and Proposal for InnoSAT 3 from UniMAP to ATSB
- Submission of InnoSAT 1's Final Document and Proposal for InnoSAT 3 to UniMAP
- "Semangat UniMAP" song
- End
-
- Press Conference