

Dr. Amal Chandran

Space Activities at the Satellite Research Center Nanyang Technological University



International Satellite Program in Research and Education InSPiRE

**A next generation
pathway for education
and training in the space
sciences.**



- **A 3-year program going from concept to flight for each satellite.**
- **InSPiRE partner universities will develop are developing an academic program/professional masters program in spacecraft design**

The National Space Science and
Technology Center (NSSTC)
at UAE University

مايكل توماس مغراث

Michael Thomas McGrath
Senior Advisor



جامعة الإمارات العربية المتحدة
United Arab Emirates University

UAEU



Киш
كيش

И

П

Запад
Саха

Мавр

Абу-Даби
أبو ظبي

Дубай
دبي

эль-Хасаб
خصب

Рас-эль-Хайма
راس الخيمة

Фуджайра
الفجيرة

эль-Айн
العين

Сухар
ولاية صحار

Мадинат
Зайед
مدينة زايد

альский
зал.

E45

E65

E11

E22

E16

E66

E102

E611

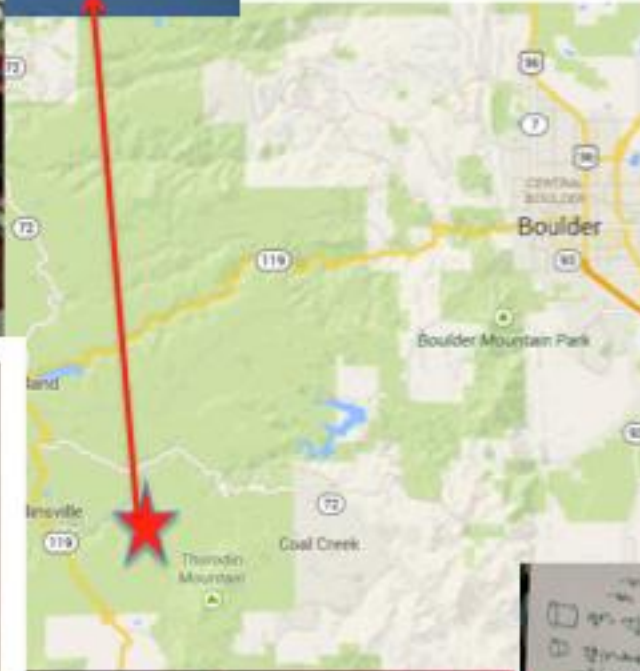
E311

21



University of Colorado
Boulder





Laboratory for Atmospheric and Space Physics



Formulate, Design, Build, Validate, Operate



- Spacecraft Operations
- Payload Operations
- Science Data Analysis
- Mission Scheduling



- In-House Facilities

Mission & Science Operations

Science

- Identify/Address Space Science Questions
- Planetary
- Atmospheric
- Solar
- Space Physics

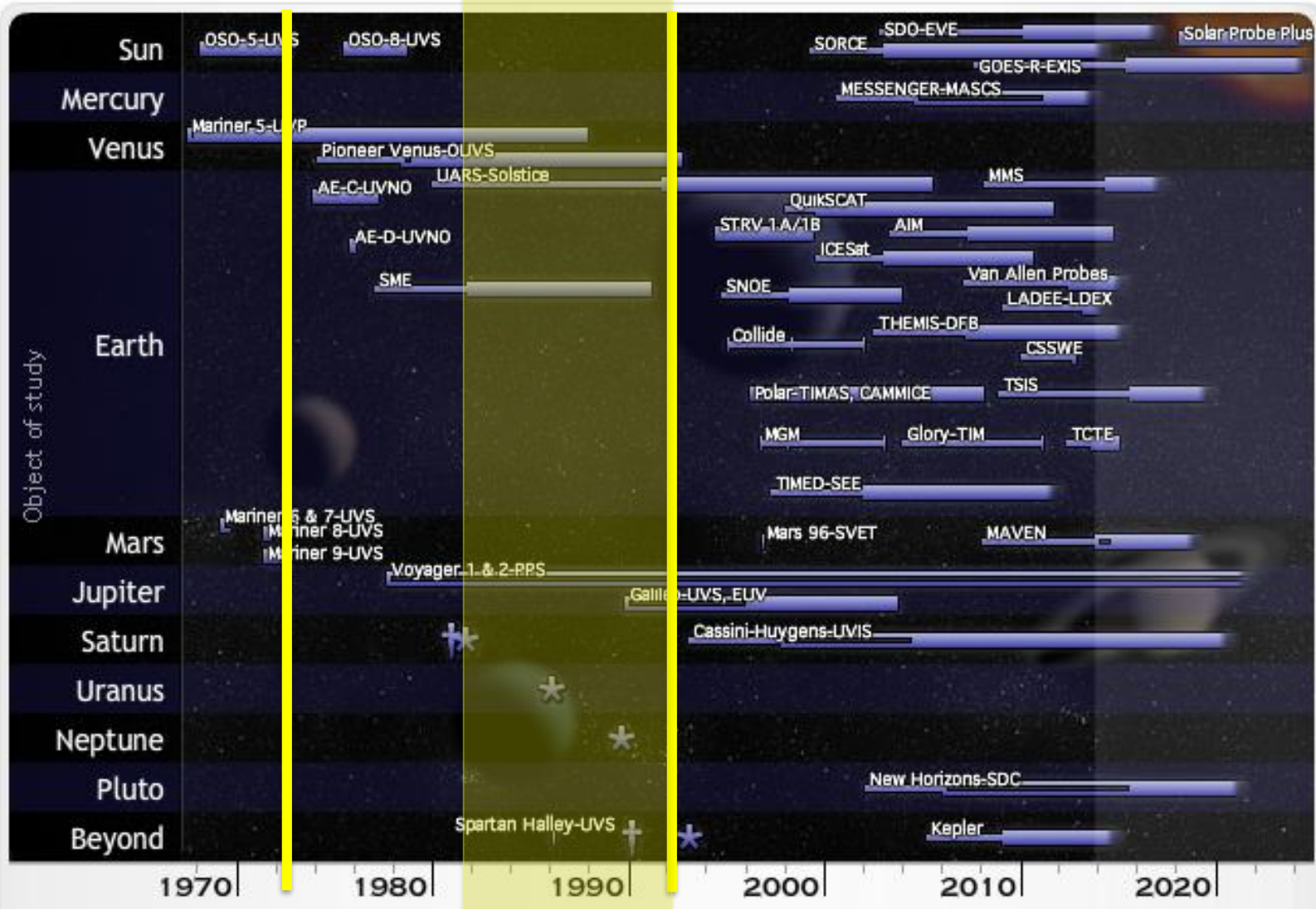
Development Flow

Test & Calibration

Engineering

- Design, build, test space system hardware





Key

Development ▬ Cruise ▬ Orbiting ▬

Anticipated end ▬ /

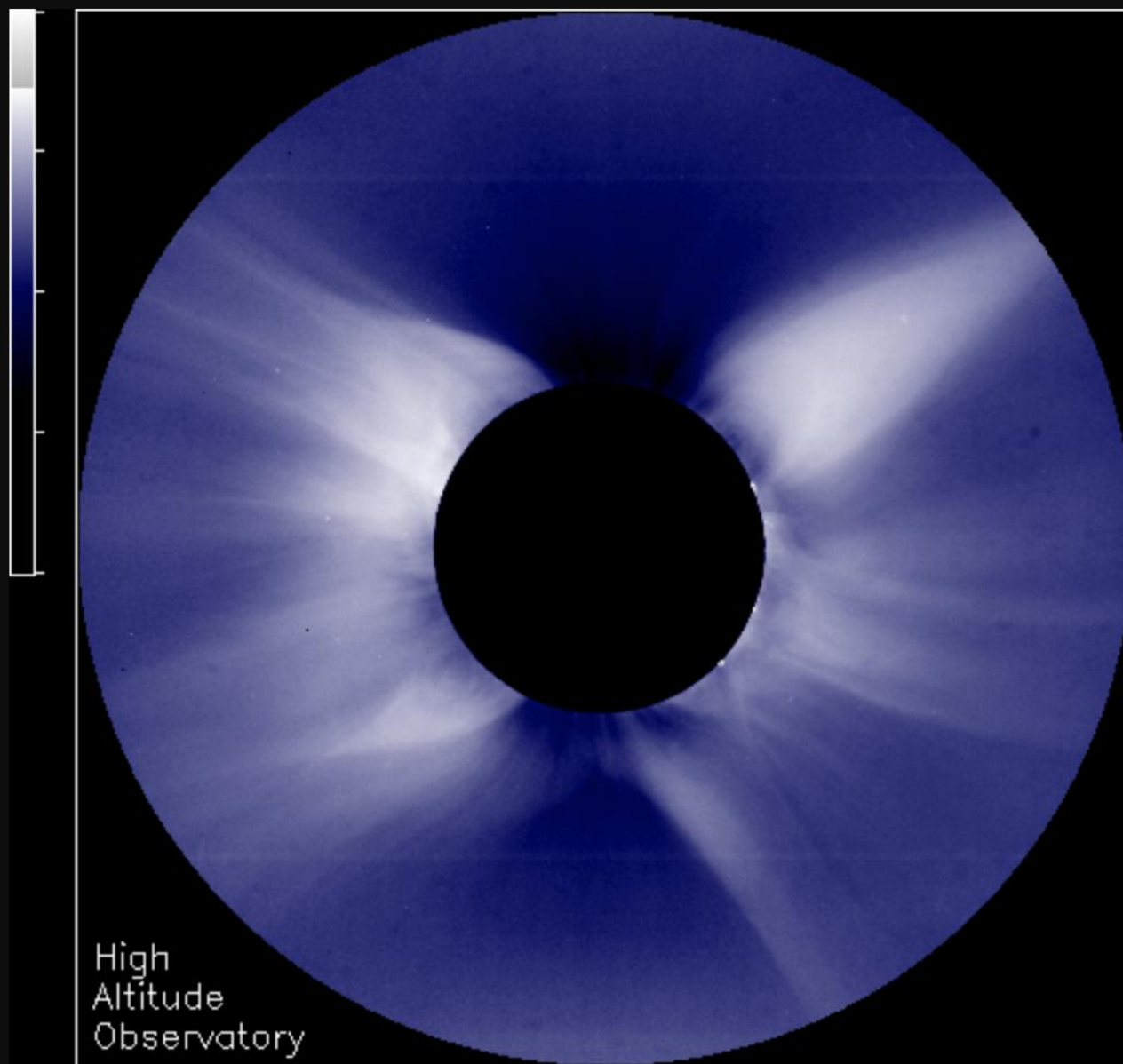
† Voyager 1 flyby

★ Voyager 2 flyby

View missions by LASP role

● Science ● Engineering

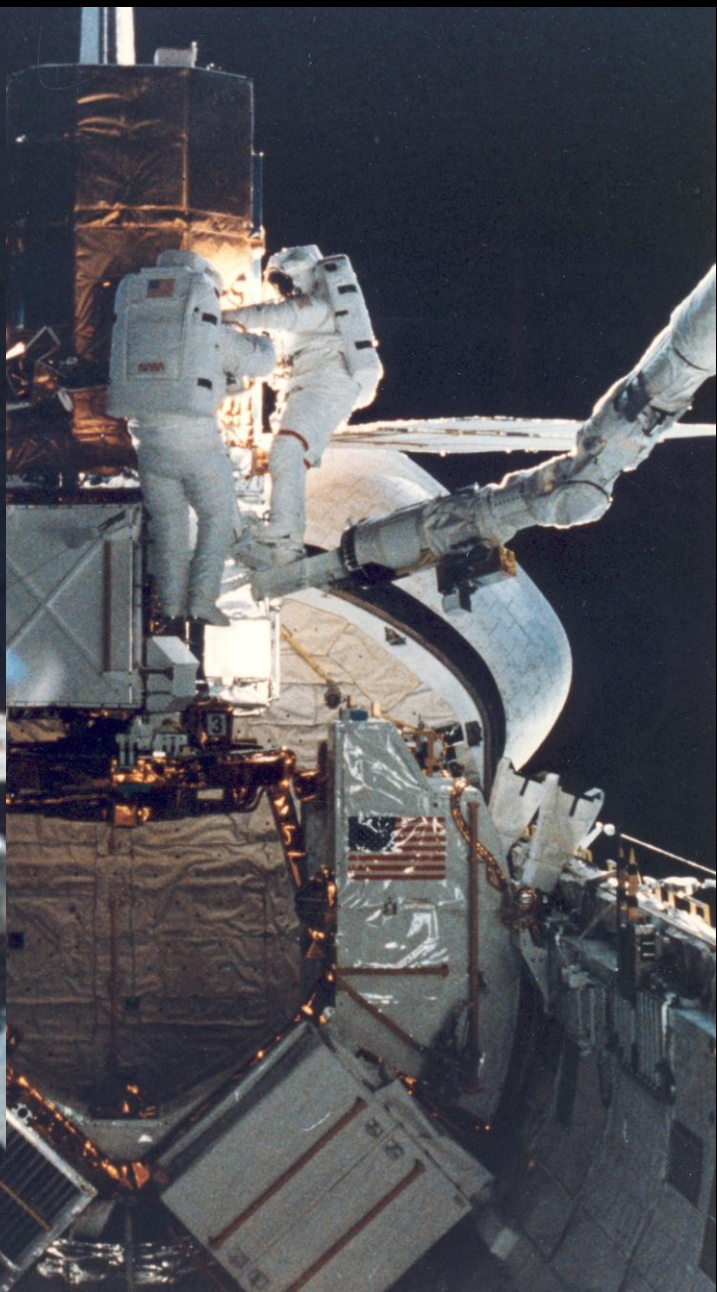
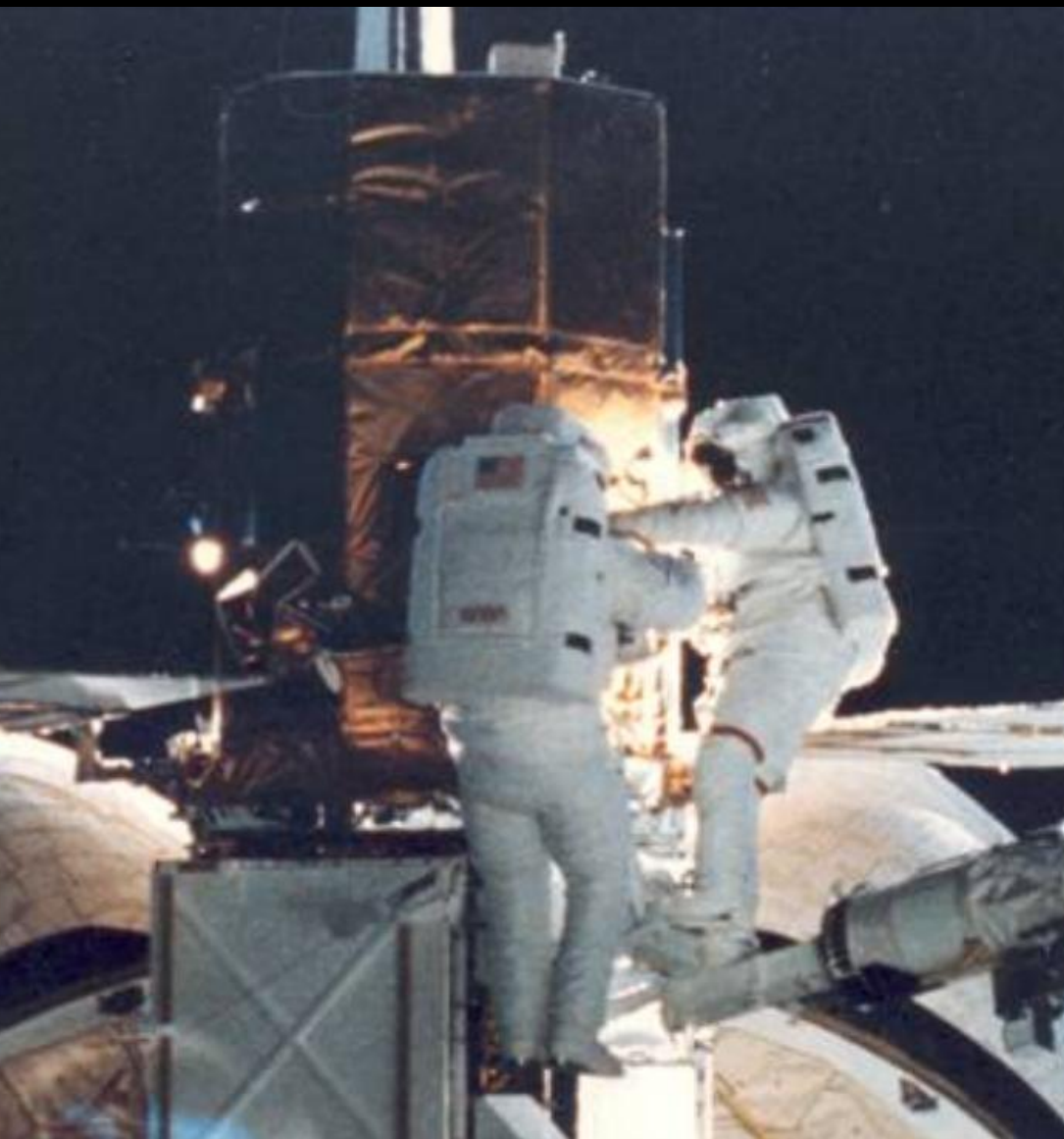
● Mission Ops ● All



11 June 1983 — Total Solar Eclipse — Tanjung Kodok, Java

Spartan 201





November 2, 2017

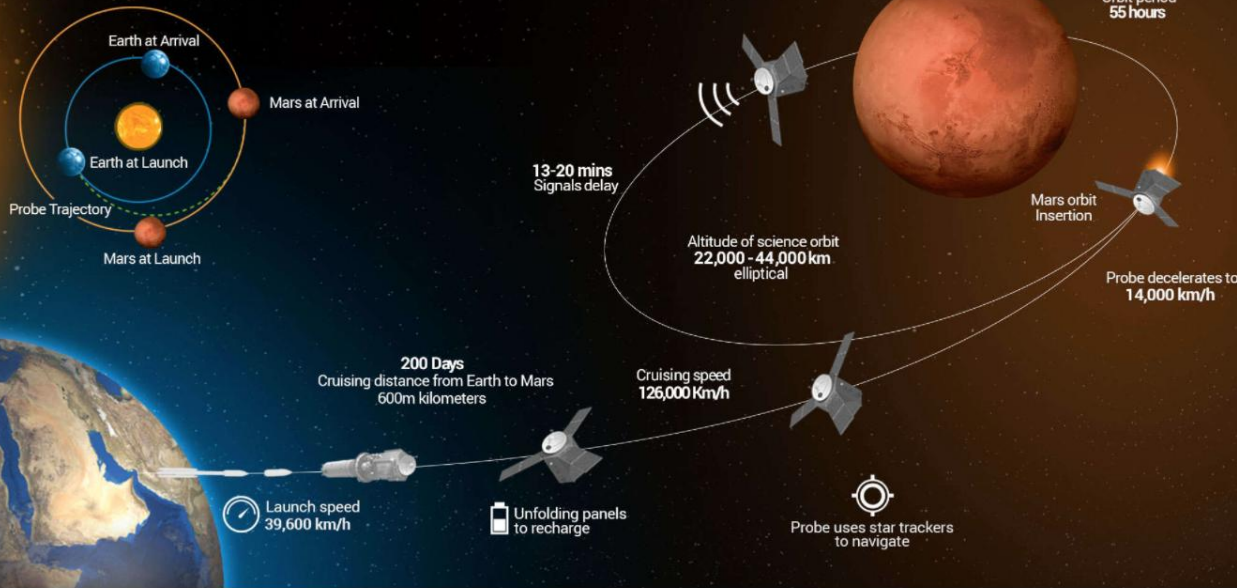


June 2014

NSSTC

Space Science Curriculum

Emirates Mars Mission Journey



The screenshot shows the UAEU website interface. The top navigation bar includes links for HOME, LOCATION, SIGN IN, and CONTACT US, along with a search bar. Below this is a secondary navigation bar with links for ABOUT UAEU, ACADEMICS, ADMISSIONS, RESEARCH & INNOVATION, LIBRARIES, CONTINUING EDUCATION, and EMPLOYMENT. A prominent badge on the right side of the page states: "UAEU ranks in the TOP 50 UNIVERSITIES Under 50 Years (2018)". Below the badge, there are links for STAFF, ALUMNI, and COMMUNITY. The bottom of the page features a dark blue footer with the text "Emirates University" and a phone number "401-500". On the right side of the footer, there is a logo for "THE WORLD UNIVERSITY RANKINGS 2018" and the website address "www.thewur.com". The bottom navigation bar includes links for FUTURE STUDENTS, CURRENT STUDENTS, FACULTY & STAFF, ALUMNI, and COMMUNITY.



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Regrets?

