

Brian.Hagerty.US @ ieee.org

**Chair of Educational Activities
IEEE Region 6**

www.meetup.com/IEEE-Education

“Majors” Programs:

**College & University Education
& Continuing Professional Development**

“Minors” Programs:

K-12/STEM/CTE

Youth Education & Community Programs

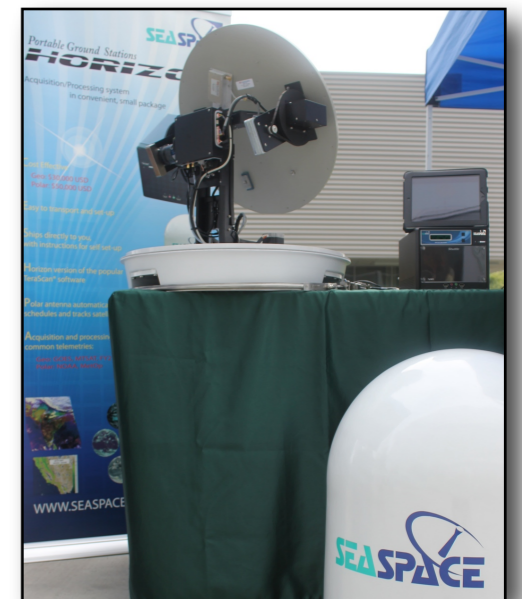


Educational Activities, 2014-2015

KSEA Korean-America Sci/Eng Asc.
IEEE "Hack UCI" w Student Chapter;
Kid 2.0 @ UC Irvine
K-8 Astounding Inventions @ IVC
FIRST LEGO League
Anaheim Conv. Center

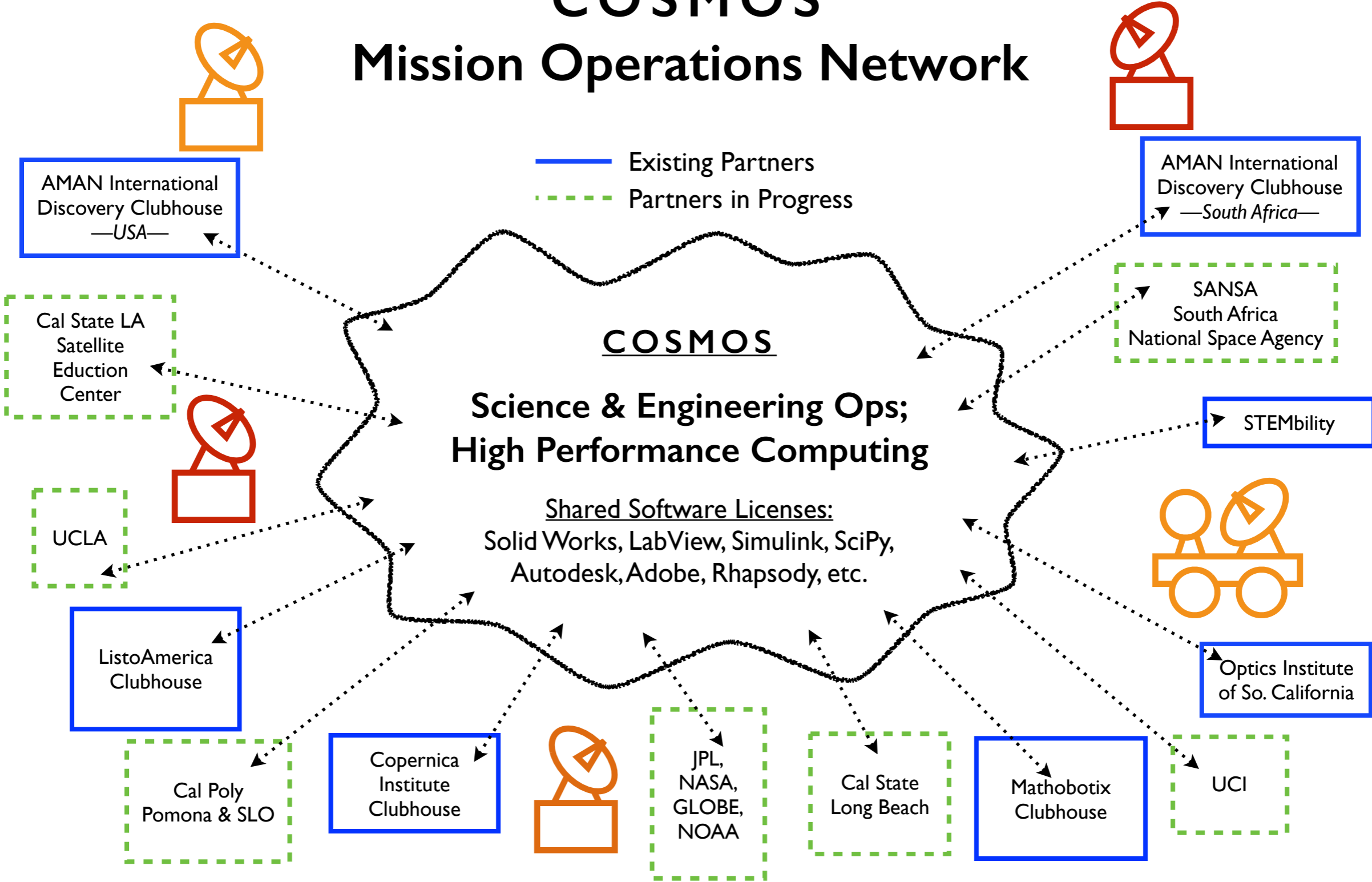
STEM Showcase @ OC Fairgrounds
Satellite Educators Conference @ CSULA
IEEE Family BBQ & Exhibits @ ATEP

A-MAN Discovery Center
Copernica Institute
Listo America / ICCN
Mathobotix
Science@OC
Vital Link OC



COSMOS

Mission Operations Network



Educational Activities, 2015-2016

—>> *Strategic Initiatives* —>>

IEEE Tool Box Training Initiative:

Buy Shared HW/SW/Cloud Tools for Region/Area/Section/Chapter;

Matlab, Simulink, LabView, Rhapsody, SPICE, Zemax, Mentor, COMSOL ...

Arduino, Beagle Board, Edison, Galileo, Raspberry Pi ...

Including Open-Source Software, Ubuntu, SciPy, Enthought, LTS ...

IEEE-sponsored “Majors” & “Minors”

Technology Clubhouses:

Shared Tools, Technology, Training

Project-Based Co-Learning

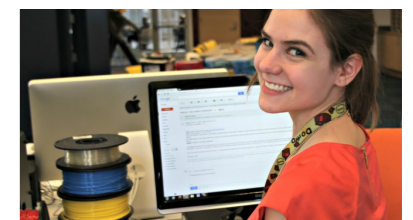
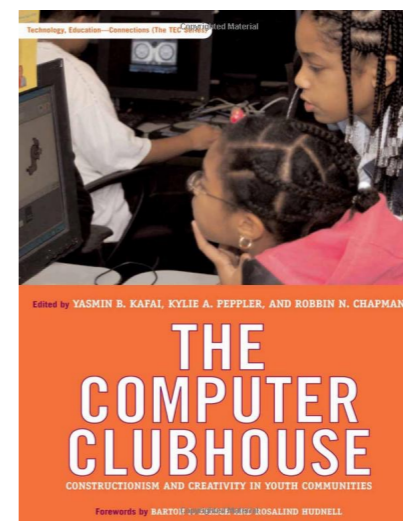
Mentors & Members Model:

“Minors” learn from “Majors”

“Majors” learn from Seniors



Intel
Foundation



BestBuy
Teen Tech
Centers

Educational Activities, 2015-2016

—>> *Strategic Initiatives* —>>

IEEE-Sponsored Workshops, Conferences & Credentials:

+> CyberSecurity, Information Assurance & Privacy Engineering

Cal Poly Pomona NSA Center of Excellence for Cyber Education

Workshops on Secure Embedded Computing; “Smart” Grids, Cities, etc.

+> ESTE: Environmental Science, Technology & Engineering

Co-sponsored with NOAA, GLOBE, AEE, and others

Natural & Built Environments: Hydro, Renewables, Fuels, Grid, Buildings

+> PICAA: Professional & Industrial Credentialing & Accred'n Asc.

Prior Learning Assessments; Badging & Stackable Credentials

Industrial Bachelors, Masters; M.B.Eng, D.Eng.

IEEE Scholars Program; Career Technical Education

+> IEEE “Scholars” Program: NSF Grants, DOE, ASD, etc.

+> IEEE “Scholarship Plus”; like IEEE PES

+> IEEE “Council on Career Technical Education”

+> IEEE “ApprenticeMakers”

