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

Existing Partners

Partners in Progress

AMAN International Discovery Clubhouse
—USA—

AMAN International Discovery Clubhouse
—South Africa—

SANSA
South Africa National Space Agency

STEMbility

Optics Institute of So. California

AMAN International
Discovery Clubhouse

—South Africa—

SANSA
South Africa National Space Agency

STEMbility

Optics Institute of So. California

COSMOS
Science & Engineering Ops;
High Performance Computing

Shared Software Licenses:
Solid Works, LabView, Simulink, SciPy, Autodesk, Adobe, Rhapsody, etc.

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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
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”