



The Foothill College

Science Learning Institute





The Science Learning Institute (SLI) embodies Foothill's vision to offer outstanding STEM education through focused efforts on:

- Relevant curriculum
- Effective instruction
- Collaborative partnerships



## Objectives

- Attract and retain more students in science, technology, engineering and math (STEM)
- Develop and adopt new curriculum, pedagogy and technology
- Provide state-of-art learning environment
- Impact Foothill, Bay Area, California, USA & World (in that order but not all at once)



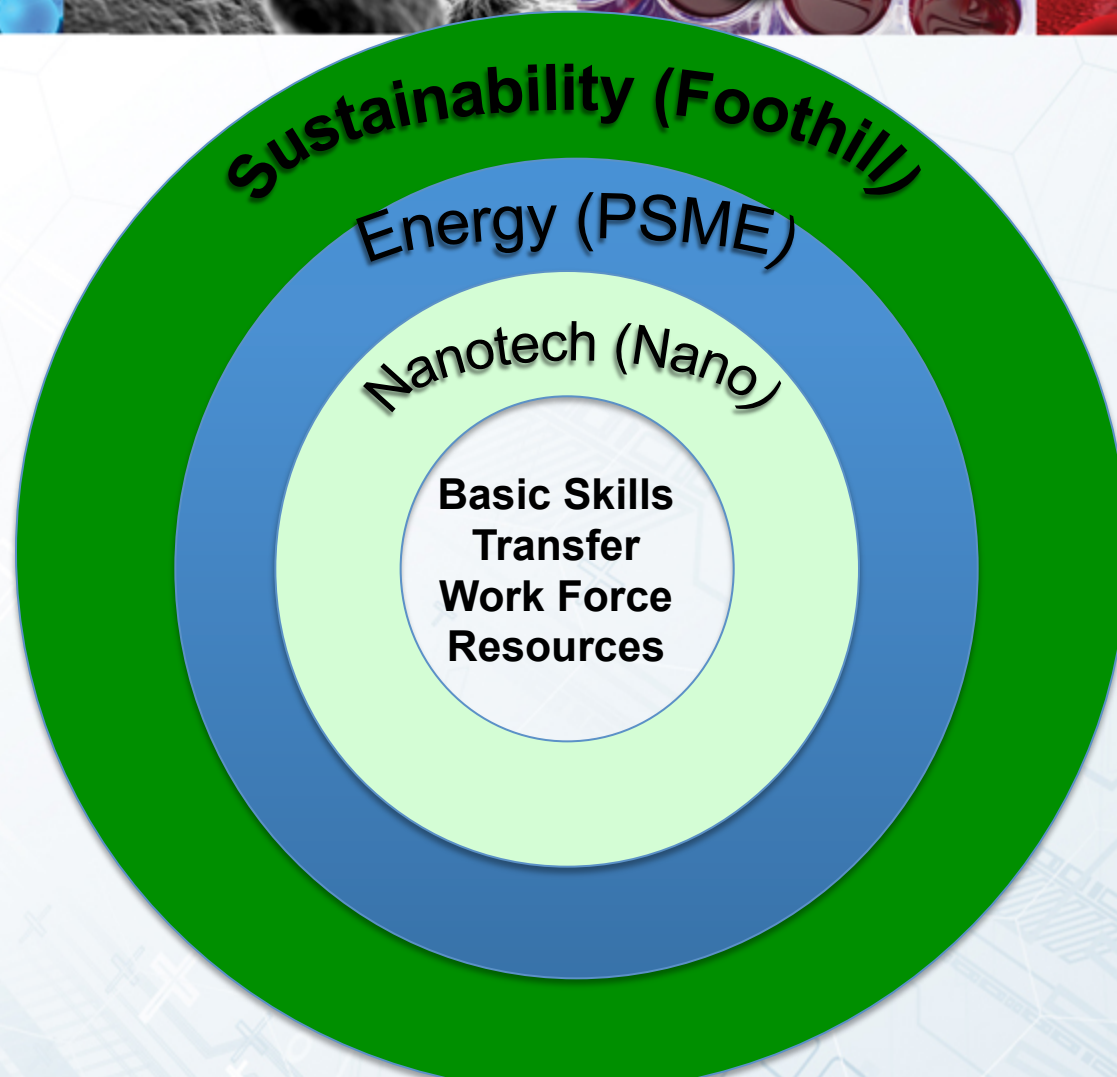


## SLI Evolution

- **Aug 2009 – PSEC Fund raising (PSEC/KCI)**
- **Jan 2010 – Start “CASE Statement” (PSME/BHS/KCI)**
- **Nov 2010 – Sunpower & energy pitch**
- **Dec 2010 – First donation received**
- **Various presentations ( 1-2 per month)**
- **May 2011 – Founder Sunpower**
  - Dick Swanson, Founder
- **June 2011 – Sustainability (PSME/BHS/BSS/KCI/++)**
- **Nov 2011 – Plan for Advisory Board Meeting**
  - March 28, 2012

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# Science Learning Institute



# SLI Advisory Board

Advisory Board Members	Brief Bio
Bruce Alberts	Former president of the U.S. National Academy of Sciences (NAS) in Washington D.C.; Professor Emeritus the Department of Biochemistry/Biophysics at UCSF; Editor-In-Chief
Jerry Cain	Lecturer at Stanford University in the Computer Science Department & Facebook
Bill Coleman	Founder, Chairman and CEO of BEA Systems, Inc.
Bernadine Chuck Fong	President Emeritus, Foothill College
Bill Krause	Former President and CEO of 3Com Corporation
Waidy Lee	Retired Engineer; currently an activist for over 60 organizations and an advocate on electric vehicles, greenhouse gas reduction and water conservation.
Armand Neukermans	Founder, Chairman and CEO of Xros, an optical switch company. Silicon Valley "Inventor of the Year" in 2001. Currently leads a group of scientists and engineering doing research for application in marine cloud whitening with seawater nuclei, an innovative
Bill Rutter	Chairman and CEO of Synergenics, and Chairman Emeritus of Chiron Corporation, and Herzstein Professor of Biochemistry Emeritus at UCSF. Built Chiron into a global biotech power house.
Bill Spencer	Chairman Emeritus of the International SEMATECH Board; held key positions at Xerox Corporation, Bell & Sandia National Laboratories. Visiting professor at the University of
Dick Swanson	Founder of SunPower Corporation and prior was Electrical Engineering Faculty at Stanford.
Art Swift	VP Marketing MIPS, Public company CEO certified director for managing growth and turn-arounds. Marketing expert with keen understanding of all aspects of technology marketing.
Marc Tarpenning	Co-Founder and former VP Electrical Engineering at Tesla Motors. Currently an advisor at Whiteboard Accelerator, Entrepreneur in Residence at Mayfield Fund, and serves as a trustee at Woodside Elementary School District.





- Advisory Board will recommend to FH President funding allocations
  - Advisors segmented into disciplines/business areas
  - They are provided Foothill's goals and objectives
  - Status of current SLI programs presented
  - "VC" pitch for new funding
    - Need & potential impact
  - Assign member(s) to be on "project board"
- Support for:
  - Grants/proposals
  - Internships & industrial connections
  - College partnerships



Goal: \$10M

- Energy Platform (10 years): \$500K
- Evolution Garden (10 years): \$250K
- 5 yrs STEM Pedagogy Chair : \$1M (\$4M)
- Sustainability Curriculum & Outreach: \$1M
- K-12 STEM Professional Development: \$1.5M
- 5 yrs STEM Internships @ Stanford: \$250K
- STEMway (STEM Completion): \$1.25M
- STEM Scholarships: \$1M
- Equipment (educational & lab): \$1M
- Unidentified Opportunities: \$2.25M





***Thank you for supporting  
Foothill College's  
Science Learning Institute***