

Engineering Technology Industry Council
Meeting held March 20, 2006 at CAPITAL Center

Voting Members Present:

Gerhard Beenen	
Eileen Boerger	Agilis Solutions
Robin Furness	PacifiCorp
Michelle Girts	CH2M Hill
Gary Kaleta	Gunderson/OMI
Nick Konidaris	ESI
Charles May	LSI
Eric Meslow	Timbercon
Kathy Miller	Hewlett Packard
Jim Troisi	IBM
Fred Ziari	EZ Wireless

Non-Voting Members Present:

Ron Adams	OSU
Jim Craven	AeA
Martha Anne Dow	OIT
Bob Dryden	PSU
Rich Linton	UO
John Miller	EOU (by phone)
George Pernsteiner	OUS
Bruce Schafer	OUS
John Tortorici	SAO

Other Attendees:

Cynthia Brown	PSU
Joyce Cresswell	Saturday Academy
Ron Geason	PSU
Joe Graf	SOU
Steve Hanson	OHSU/OGI
Jim Hutchison	UO
Jim Lundy	OSU
John Marsaglia	WOU (by phone)
Andrzej Proskurowski	UO
Roger Rennekamp	OSU 4-H
Kristy Vachon	UO
Michele Vitali	OUS
Michal Young	UO

Nick Konidaris, ETIC Chair, opened the meeting by asking for approval of the minutes of the meeting on February 17, 2005. A motion was made, seconded and unanimously approved to accept the minutes.

Nick introduced ETIC's newest voting member, Chuck May, Senior Director of Operations Engineering at LSI Logic in Gresham.

Recommendation for Pre-College RFP Awards

Bruce reviewed the RFP process that took place for the 31 proposals that were received and totaled \$2.3 million. The total allocation is \$761,500, with \$381k to be awarded by June 30 and the remainder subject to Board ratification in fiscal 2007.

A variety of individuals and ETIC members were involved in the review process:

Subcommittee A

Kristin Bryant, educational expert
Scott Huff, PCC
Gary Kaleta, Gunderson (ETIC member)*
Eric Meslow, Timbercon (ETIC member)

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Subcommittee B

Bill Lesh, Center for Advanced Learning*
 Dave Squire, Industry Consultant
 Sam Stern, OSU College of Education

Subcommittee C

Ginger Redlinger, ODE*
 Doug Stuiivenga, Salem High School teacher
 Jim Troisi, IBM (ETIC member)

Subcommittee D

Susan Boyanovsky, CCWD*
 Kathy Miller, HP (ETIC member)
 Jill Tucker, LemelsonFoundation

*on final funding committee

The committee recommendation is to fund 12 of the proposals totaling \$727,541 and hold the balance of \$33,959 in reserve. A motion was made, seconded and unanimously approved to allocate the awards as presented.

ETIC Pre-Engineering Applied Science RFP Allocation Recommendations

Requestor	Proposal Title	Description	\$ Req	Allocation
Portland Community College	ETOP: Engineering and Technology Outreach Project	Guest teacher with hands-on activities to local HS classrooms; several endorsement letters from local HS; engineering recruiting banquet.	\$26,531	\$26,531
Oregon Institute of Technology	Pre-Engineering Success Through Project Lead The Way	Train and outfit 6-7 teachers to implement Project Lead The Way (PLTW) in their local HS, ongoing support	\$99,765	\$99,765
Oregon State University: Science and Math Investigative Learning Experiences (SMILE)	Increasing STEM Career Awareness & Aspirations of Minority, Low Income, First Generation and Rural Students	Add-on to existing successful SMILE program with engineering oriented info, hands-on opportunities for students, teachers, parents	\$93,115	\$93,115
Portland State University: Math, Engineering, Science Achievement	Oregon MESA Proposal to ETIC	Add-on to existing successful program, college planning outreach in English & Spanish, pre-engineering conference, near-peer mentoring component; Grades 6-12	\$85,000	\$61,000
University of Oregon Educational Policy Improvement Center	UO/EPIC: Pre-Engineering and Applied Science Project	Documents content knowledge, habits of mind, teaching methods needed to succeed in 100-200 level courses at OUS via research & convergent consensus tools; "inform work mandated by SB 342-B"	\$100,258	\$100,258
Software Association of Oregon Foundation (SAOF)	Project to Increase & Diversify Pre-Engineering Education	Consolidate existing LEGO Robotics curriculum materials into more easily accessible & robust CD in English & Spanish; subsidize Team Challenge kits for SuperQuest teachers; local LEGOs in Education conference	\$36,350	\$47,000
South Lane School District	Pre-Engineering Program/Lab at Lincoln MS and more	Expand existing Amatrol HS pre-engineering program to MS, MS Robotics club. Student incentives to complete 4 yrs (summer scholarships & internships).	\$81,450	\$67,015
Oregon State University: College of Engineering	College is a PLAN and SMET is the Vehicle to Take YOU There: An Integrated Approach to Introducing Engineering Concepts into the Lives of K-14 Students, Teachers, and Parents.	Using SMILE, local schools, pays teachers to develop curriculum modules, continues various outreach programs w/ good track records; dissemination is additional proposal OSU TeachEngineering	\$105,260	\$11,000

Tigard-Tualatin School District	Tualatin HS: Enhance Engineering Science Curriculum	Write and implement new curriculum for new facility just built	\$92,250	\$55,250
Oregon State University: College of Engineering	OSU: Engineering Ambassadors: Students Educating Students Motivating a Diverse Population to Engineering/Technical Careers	Uses near-peer mentoring to establish network to market engineering as a discipline to students and school counselors in a variety of venues.	\$36,450	\$36,450
Beaverton School District: Aloha High School	Science Technology Engineering and Math (STEM) Academy using Techworld Curriculum/ Equipment	Defray equipment expense & installation for Techworld lab and curriculum modules for new STEM track at larger metro area school w/ high minority population, no dissemination plan outside district; part of ongoing program requiring grants from other sources	\$100,224	\$70,157
Yamhill - Carlton School District	Integrated Manufacturing Technology (IMT) Lab using Amatrol	Help defray debt incurred by installation of Amatrol Integrated Manufacturing Technology (IMT) Lab in rural school district; appear to be trying hard to implement best practices, leverage resources including adult ed.	\$100,000	\$70,000

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Summary of OSBHE Strategy

Chancellor Pernsteiner gave a brief overview of the State Board of Higher Education's strategy which included discussion of where we are going towards the year 2025 and more specifically the 2007-2009 budget planning process. The Board, like ETIC, is very concerned with what it will take for Oregon residents to be a part of a globally competitive society, and whether all Oregonians have the same advantage for an educated citizenry. He noted that "research is no longer a dirty word in Salem," thanks in part to ETIC's efforts. The Board will continue to focus on knowledge education and will be seeking proposals that provide opportunity for Oregonians and knowledge creation. Our legislature understands the importance of spin-off companies for keeping us sustainable in the future and will continue to look for ways to provide pathways.

The Board is also looking at issues like increasing faculty salaries and changing the mix of salary and benefits. Oregon has one the highest benefit costs as a percentage of salary among public universities and among the lowest salaries.

He noted that the Oregon Innovation Council will also play a key part in the process of determining investment priorities.

Overview of Strategy and Plan

Nick gave a presentation on ETIC's strategic planning and referenced three studies:

1. A MIT study on the impact of licensing patents and how research drives jobs; and
2. "Rising Above the Gathering Storm," a report emphasizing the need for world-class science and engineering as the principal means of creating new jobs for our citizenry as a whole so it can prosper in the global marketplace with the following recommendations:
 - A: Invest in the next generation
 - B: Invest in basic research
 - C: Invest in engineering and science education
 - D: Assure robust environment for innovation is essential
3. Michael Porter's presentation to the Oregon Business Plan Summit on 1/9/06. Nick pointed out that the national crisis is Oregon's – we must revise our flight plan to think globally and act strategically.

Bruce gave an overview of the process linking ETIC's vision statement (below) and strategy to campus goal setting and plans for the 2007-2009 biennium, which will result in a final review and recommendation by ETIC.

ETIC's Vision Statement

Oregon's engineering and technology education and research programs are strategic assets for Oregon's economy and Oregon's residents by:

- providing unique programs of the highest quality that meet the needs of Oregon's industry clusters
- attracting resources to Oregon from throughout the world
- doubling the number of bachelors, masters, and PhDs receiving a globally competitive engineering education
- performing innovative research that gives existing and new businesses a competitive advantage in the global economy

Campus Goal Setting

Based on ETIC's overall vision, each campus was asked to articulate their vision, identify their aspirational peers and provide a brief presentation outlining their goals for 2007-2009 at today's meeting. Their presentations are located on the ETIC website at <http://www.oregonetic.org/07-09/07-09CampusPresentations.pdf>. Joyce Cresswell of Saturday Academy submitted a separate request partly because Saturday Academy is "spinning off" as a 501(c)3 and will no longer be under the PSU umbrella. She encouraged ETIC to allocate a portion of its funds to pre-college.

Nick thanked the schools for their input. The requests total approximately \$70 million, so the challenge lies ahead.

There being no further business, the meeting was adjourned.