

**Engineering Technology Industry Council**  
Meeting held February 5, 2010 at Mentor Graphics

Voting Members

Bob Beisner	SolarWorld
Eileen Boerger	CorSource
Lisa Graham – phone	Bend Research
Art Johnson	KPFF
Eric Meslow	Timbercon
Kathy Miller	H-P
Steve Pawlowski	Intel
Mike Rohwer	PHTech
Paul TenZeldam	Tektronix
Craig Zemke	Jeld-Wen
Fred Ziari	ezWireless

Nonvoting Members

Ron Adams	OSU
Charlie Jones	OIT
George Pernsteiner	OUS
Bruce Schafer	OUS
Ren Su	PSU
Ed Thompson	OHSU

Other Attendees

Antonio Baptista	OHSU
Dave Brown	
Anna Cavinato	EOU
Joyce Cresswell	Saturday Academy
Dave Johnson	UO
Gary Kaleta	Gunderson/OMI
David Kenney	Oregon BEST
Marilyn Levine	EOU
Jim Lundy	OSU
John Marsaglia	WOU
Misha Pavel	OHSU
Greg Pleva	SOU
Brad Tebo	OHSU
Jan vanSanten	OHSU
Michele Vitali	OUS
Phil Weilerstein	NCIAA
Peter Wu	SOU

Chair Steve Pawlowski opened the meeting and asked for approval of the October 16, 2009 minutes. A motion was made, seconded and unanimously approved to accept the minutes.

Steve formally recognized and thanked ETIC's two outgoing voting members. Dave Brown recently retired from Tektronix and was a valuable member of ETIC since 2002. And Gary Kaleta, a dedicated member since 2003, is semi-retired from Gunderson and finished up his ETIC term.

**Ratification of Additional 2009-2011 OPAS K-12 Grants**

Bruce presented slides on the most recent round of OPAS K-12 Requests for Applications and committee recommendations. The RFA to school districts and private schools provided access to several choices:

1. Project Lead The Way
  - Gateway to Technology for middle schools
  - Introduction to Engineering Design for high schools
  
2. eCHAMP  
 Engineering CoachHing And Mentoring Program for high school after-school programs

The review committee for #1 above, made up of individuals from Intel, OUS, OIT PLTW and ODE, received 15 middle school and 6 high school applications. Their recommendations to fund 7 middle schools and 4 high schools at \$149,200 vs. a budget of \$152,690 are below:

School		Award
Brown Middle School	GTT	\$17,200
Cedar Ridge Middle School	GTT	\$17,200
LaCreole Middle School	GTT	\$17,200
North Powder Charter	GTT	\$17,200
Obsidian Middle School	GTT	\$17,200
Patton Middle School	GTT	\$17,200
The Dalles Middle School	GTT	\$17,200
Crow High School	IED	\$7,200
Nestucca Valley Senior High	IED	\$7,200
Vernonia High School	IED	\$7,200
Winema High School	IED	\$7,200
		<b>\$149,200</b>

A similar review committee for #2 above received 11 applications totaling \$64,544 vs. a budget of \$71,500. They will meet on February 8<sup>th</sup> to review and recommend and request council proxy to award up to the budgeted amount.

Eileen added that she has been a part of the OPAS committee and likes that we are supporting solid and successful pre-engineering programs. A motion was made, seconded and unanimously approved to award the PLTW grants as outlined above and granted the Council's proxy to approve the recommendations of the committee due to review the eCHAMP applications on February 8<sup>th</sup>.

**National Collegiate Inventors & Innovators Alliance (NCIIA) - Supporting Emerging Entrepreneurs at Oregon Universities**

Phil Weilerstein of NCIIA was invited to talk to ETIC about a possible opportunity for ETIC in the area of fostering entrepreneurship. He presented slides on their Oregon Universities Entrepreneurial Leadership Group, which was created through a partnership between NCIIA, Meyer Memorial Trust, and

The Lemelson Foundation. Their mission is to promote technology, innovation and entrepreneurship in higher education and the development of a faculty leadership group is a key focus of their initiative. The initiative has three dimensions:

1. Development of a faculty leadership group to enable collaboration
2. Strategic development of curricula and programs by each institution
3. Workshops for emerging university entrepreneurs designed to engage Oregon's university students and faculty as a key resource in Oregon's innovation ecosystem.

Universities currently participating include OSU, PSU, UO, OHSU and University of Portland. The leadership group wants to form an affiliation with ETIC and is proposing that ETIC and Bruce take on the role of organizing, convening and facilitating meetings of the Leadership group.

Bruce said he attended one of their meetings and agrees it is a valuable opportunity. Phil's request could be interpreted as coordinating meetings in a tactical supporting role or it could be interpreted more strategically. If ETIC is to get officially involved, we need to consider whether the Entrepreneurial Group's connections to business and science colleges as well as engineering colleges conflicts with ETIC's engineering and technology advisory role.

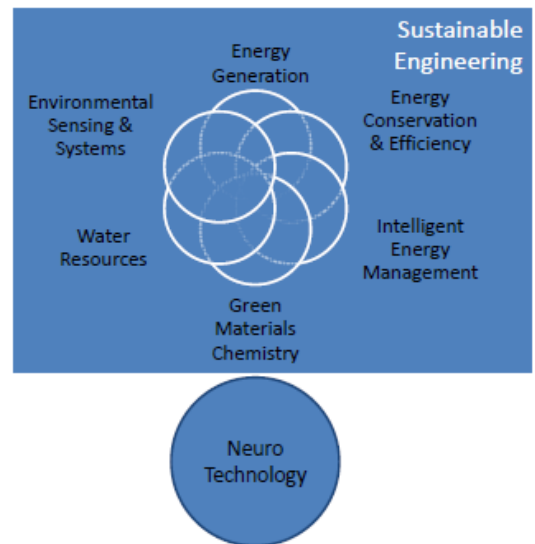
George Pernsteiner suggested to Phil that they might want to have conversations with the OUS Research Council to explore a possible affiliation.

Kathy Miller noted that this seems to look more like meeting facilitation and wondered if it really fits with the way ETIC connects with the business community. Steve agreed and said we should brainstorm ways to see if there is way to take this beyond just convening meetings. Bruce will schedule a follow-up meeting with Phil to brainstorm possibilities.

### Strategic Planning – Sustainable Engineering and Neuro Technology

Steve thanked all of the campuses for submitting their 2011-2013 proposals using our guidelines and fitting within our overall strategy of sustainable engineering and neuro technology. We would like to leverage our capabilities and make Oregon a powerhouse. The voting members were sent the proposals to review in advance of today's meeting. The meeting provided an opportunity for each campus to provide 1-2 minutes of opening remarks and then answer questions from the members.

The campuses requests totaled approximately \$77.7 million which represents a 108% increase from the 07-09 biennium and 135% from the 09-11 biennium as shown on the table below.



	2007-2009 EBL Allocation	2007-2009 POP Allocation	2007-2009 Allocation	2009-2011 Allocation	2011-2013 Request	% Increase from 07- 09	% Increase from 09-11
EOU	450,000		450,000	414,450	917,000	104%	121%
OHSU	2,900,000		2,900,000	1,726,025	6,129,310	111%	255%
OIT	1,400,000		1,400,000	1,277,259	3,980,000	184%	212%
OSU	8,000,000	11,483,754	19,483,754	17,761,665	33,906,432	74%	91%
PSU	5,100,000	2,495,436	7,595,436	6,929,992	8,551,226	13%	23%
SOU	530,000		530,000	483,287	795,000	50%	64%
UO	2,400,000	530,810	2,930,810	2,671,887	19,000,000	548%	611%
WOU	750,000		750,000	681,780	900,000	20%	32%
OPAS	750,000	490,000	1,240,000	1,130,547	3,543,280	186%	213%
<b>Total</b>	<b>22,280,000</b>	<b>15,000,000</b>	<b>37,280,000</b>	<b>33,076,893</b>	<b>77,722,248</b>	<b>108%</b>	<b>135%</b>

OSU – Ron Adams provided an overview of his college’s SENERGI proposal which will build on their strengths and allow them to become a national leader in the areas of Smart Energy Loving, Sustainable Buildings and Infrastructure and Micro-technology Energy Systems, and includes collaboration with UO. They want to recruit and retain top faculty which requires a lot of investment.

PSU – Ren Su provided an overview of his college’s proposal, explaining that they want to double the research expense and develop several world-class programs over the next five years. They want the ability to compete with national schools for graduates choosing PSU. Their 2-pronged approach will include collaborative relationships with Portland Innovation Centers and involve creating a research center for Regional Sustainability. A question was asked about forming relationships that involve graduate student internships, which is difficult because of issues surrounding intellectual property. They trust they can iron those details out.

UO – Dave Johnson provided an overview of their Green Materials Chemistry Center proposal. They have increased their research funding by 6-7x and are out of facility space. The funding would expand their research and teaching infrastructure, create and undergraduate program for exceptional students in the physical sciences, and grow the capacity of their graduate internship program.

OHSU – Ed Thompson provided an overview of OHSU’s first of two proposals, which is the creation of the Oregon Center of Excellence in NeuroTechnology Engineering and Research (OCENTER) to support neurotechnology research and create synergistic commercial and education opportunities. There were questions about the high number of staff (14) being added. Ed explained it was a typo, which will be corrected in an update of the proposal.

Antonio Baptista presented the second OHSU proposal from the Center for Coastal Margin Observation and Prediction (CMOP). They seek to establish Oregon as a leader in ocean technologies and services for mitigating impacts of climate change and contaminants on the ecosystem and human health.

OIT – Charlie Jones provided an overview of OIT’s proposal for a center of excellence in Renewable Energy. They want to build capacity, enhance curriculum and laboratories, and expand their Portland facilities. Steve said it would be great to see OIT partner with OSU’s SENERGI strategy.

EOU – Marilyn Levine provided an overview of EOU’s proposal in the area of Environmental Sensing and Systems through their abundant resources in wind, solar, and water and through a partnership with UO and OSU. Kathy requested that they be more specific in their goals.

SOU – Greg Pleva provided an overview of SOU’s proposal in the areas Computer Science and through cooperation with UO’s Material Science bachelor’s degree program. They also received approval for the PSM program. Their Masters program is blossoming and PSM will attract more grad students. Kathy asked why they weren’t asking for new faculty and he said they currently have an unfilled position. Steve also noted there wasn’t a strong tie to our sustainability strategy.

WOU – John Marsaglia provided an overview of WOU’s proposal in the area of computer science. He said his request was smaller than it might be because he had not been able to obtain approval to add additional permanent faculty positions. They have a collaborative effort with OSU in data management and data mining and are hoping to develop a program that would prepare students for OSU’s grad program. Steve suggested that WOU consider submitting a more aggressive version of their proposal.

OPAS – Bruce Schafer provided an overview of the OPAS pre-engineering programs, which include programs for grades 1 through 12 in and beyond the traditional classroom. Fred stressed the importance of focusing on the rural areas and of having champions outside of the school. Paul suggested that charting impact by county would provide perspective on the programs impact.

### **Discussion of Next Steps**

Steve thanked all of the campuses for their high-quality proposals. The voting members will need to reconvene to further discuss the next steps.

There being no further business the meeting was adjourned.