

This quarterly report on the STARS program covers the period of January – March 2010.

The STARS Innovation Research Team program currently supports two research teams – one each at the University of Washington and Washington State University Tri-Cities.

- The nanophotonics team at the UW College of Engineering is led by Dr. Michael Hochberg.
- The biofuels research team is located at the WSU/PNNL Bioproducts, Sciences and Engineering Laboratory (BESL) at WSU Tri-Cities.

### Recruiting for “Smart Grid” energy researchers/teams

The UW and WSU are recruiting two new STARS researchers/teams to work in the ‘smart grid’ energy area starting this fall.

From 90 applicants, the UW has winnowed

the field to three top candidates — all internationally recognized senior researchers in the smart grid energy space.

Two interviews have been completed and the third is scheduled for mid-May. Additional interviews will be arranged for May.

At WSU, the STARS power professor search is ongoing. The search committee, including representatives from Pacific Northwest National Laboratory and Schweitzer Engineering Lab, has evaluated more than 30 applications.

Not being satisfied with the applicant pool, the focus of the committee has been on discretely targeting senior, leading researchers who typically do not apply for such positions.

Three such researchers have been identified and contacted, and one has been brought to campus for an informal visit with a very positive outcome. WSU expects to fill this position by Fall 2010.

### UW hires two professionals to run its EIR program

The UW has engaged two experienced professionals to run its Entrepreneur-in-Residence Program in the Center for Commercialization.

#### **Tom Clement, Director New Ventures-Life Sciences**

Tom Clement was a founder of Heart Technology, and a founder and CEO of Pathway Medical Technologies. In addition to his role at UW, he is chairman of the board of the WBBA.

#### **Rick LeFavre, Director New Ventures – Technology**

Rick LeFavre has held executive positions at Apple and Borland, is a former Computer Science professor, and served as Executive Director of the Von Liebig Center at UCSD.

He has been a venture partner at OVP Venture Partners and continues in that role in addition to his new role at UW.

### Nine UW EIR complete residencies

Nine UW EIRs have completed their residencies. Each of them has made major contributions to commercialization activities, as noted below.

#### **Bob Wilcox Medical Devices**

Has provided extensive commercialization support to Yoky Matsuoko’s effort to found an Engineering Research Center for neuro-engineering. Significant support for Shockmetrics, Profusa, Nova TheraNostics, and Left Hand Labs.

#### **Deborah Kessler Medical Devices**

Supported Shockmetrics, OCT, and Assay Dynamics. Deborah started a company named BioGuidance in the middle of 2009.

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# Quarterly Update

April 2010

## UW EIR complete residencies

(Continued from first page)

### Jeff Canin

#### Energy, Clean Tech

- Co-founded Vitriosic to commercialize Minoru Taya's electrochromatic window technology, bringing glass partners and funding candidates to the venture.
- Market development for Mark Benjamin's water filtration technology and for Alex Jen (Soluxra), in advanced materials for optical photonics, ITO replacement, and solar PV markets.
- Currently helping the Center for Commercialization on a part-time basis in setting up its team of Industry Relations officers.

### Alex St. John

#### Computer Science, Online Games

A founder and the first external director for IOTA (Interactive Online Technology and Animation) at UW Bothell, a program for entrepreneurship in online games, with strong connections to industry. He ran the CSE/Game Workshop for Casual Connect 2009 with industry executives.

### Perry Fell

#### Biotech

Support and investment for Impel Neuropharma. Significant support for Nanofuture and Obenomics.

### Michael Cockrill

#### Information Technology

Provided funding and strategic support for Zenzi, and support for iPlane and LegSim.

### Gino Borland

#### Energy, Clean Tech

Significant support for Zensi, Nanocel, AXI, LivinGreen Materials, and GreenRoads.

### Richard Mander

#### Access Technologies, Information Technology

Provided significant support to a cochlear implant technology, Mobile ASL, WebLabUX, and the Envisioning Cards.

### Tom Clement

#### Medical Devices

Significant support for CorazonX, for the UW Coulter Foundation Program, and for the MedTech Incubator as part of the MedTech Discovery Center.

## Current EIR activity

### University of Washington

#### Howard Bubb

Working with STARS researcher Michael Hochberg in nanophotonics.

Former CEO of Ambric Inc. Previously vice-president & general manager of Intel's Communications Infrastructure Group, responsible for profitably growing Intel's business in-network processors, embedded microprocessors, modular communications platforms, and optical communications devices.

Also served as president and CEO of Dialogic, a leading manufacturer of high-performance, standards-based computer telephony (CT) hardware and software.

#### Dave Kaplan - Smart grid, clean tech

Start imminent. Dave Kaplan is a consultant in the clean tech space, with expertise in electric vehicles and the requirements for power grids to support them.

Prior to this, Dave was the founder, CEO, CTO, and chairman of V2Green, which was acquired by GridPoint in 2008.

He previously helped develop SQL at Microsoft and design and simulation software at Impinj.

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## Current EIR activity

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### University of Washington

#### Ken Myer – Software

Start imminent. Former Executive Director of the Washington Technology Industry Association, Ken has held executive roles at IBM, ActiveVoice, and TeleSym, served as President of the Pinnacle Group, and was a founder of Interval Systems. Ken has twice built companies recognized among the “best companies to work for” in Seattle.

### WSU Tri-Cities

#### Jerry Schwartz—Diane Cook’s Intelligent environments technology

- Three new grant applications submitted to progress technology to the commercial stage.
- Presentations at three group events.
- Productive meeting with 30 individuals & companies to provide information on the technology and set the groundwork for starting and funding a company based on this technology.

#### Kevin Petersen—Dr. Juming Tang’s microwave sterilization technology

- New start-up company formed. Food Chain Safety LLC (FCS). Rob Wilson has been recruited as CEO for the new company.
- Five presentations at group events.
- Eleven meetings with individuals/companies to provide information on the technology and develop partnerships and alliances as necessary for FCS’s success.
- Received reaffirmed commitment from major food manufacturers, who have been involved in this research for the past 10+ years to continue funding and collaboration while Dr. Tang’s group seeks additional FDA certifications for the sterilization of complex food products.

These industry leaders have committed to help Dr. Tang and WSU commercialize this technology

## Major EIR activities expected next quarter

### University of Washington

- Ebeam system will arrive on campus. Cleanroom construction will be completed. Ebeam will be installed and validated.
- First data will be generated by the end of next quarter.
- Negotiations will be in process for new hire of Smart Grid STARS researcher.

### New EIR joining UW team

#### Dave Croniser – Medical devices

Dave has two decades of marketing experience as a serial entrepreneur in medical devices. Most recently he was

Vice President of Marketing at EKOS.

Previously, Dave held executive marketing positions at Draeger Medical Inc., at the ultrasound division for Siemens Medical Systems Corporation, and at MedOrder, Inc. medical software.

Prior to this, Dave led product development at ATL and at Spacelabs. He was a founder, President and VP Marketing of Quantum Medical Systems, which was acquired by Siemens.

#### Cecil Kost – diagnostics

Former President and CEO of MedManage Systems, Executive Vice President of SciQuest Inc., President and COO of Oncor Inc., and executive at Curtin Matheson Scientific.

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## New EIR joining UW team

(Continued from previous page)

### Tom Schulte - medical devices

Dr. Thomas Schulte is an independent consultant, focusing on processes for the development and commercialization of medical devices and diagnostics.

Prior to his consulting activities, Dr. Schulte was VP, Research, and Director, Clinical Studies of Pelikan Technologies (Palo Alto, CA).

Prior to joining Pelikan in 2002, Dr. Schulte was Vice President, R&D, and CTO for Micronics, Inc., and he had a 17-year career with Becton Dickinson & Co., a Fortune 500 healthcare product provider (BD).

## WSU Tri-Cities

BESL anticipates filing two new patent applications next quarter:

- In the field of Electrofuels, involving the production of Infrastructure Ready Liquid Fuels from Electricity and CO<sub>2</sub>.
- Regarding production of hydrocarbon from lignocellulosic material with a fungal species.

## Major STARS researcher outcomes this quarter

### University of Washington

STARS researcher Dr. Michael Hochberg traveled to the White House in Washington, D.C. to accept the Presidential Early Career Award for Scientists and Engineers.

Dr. Hochberg's research team secured \$350,000 in new grant awards:

- A Department of Defense supplemental grant of \$250,000
- An Air Force STTR grant of \$100,000 in collaboration with the team's first start-up company, Portage Bay Photonics.
- A licensing agreement between Portage Bay Photonics and the UW has been signed.

### WSU Tri-Cities

- Two new grant applications were submitted—a second-round submission to U.S. Department of Energy ARPA-e Program and an application to the U.S. Navy Office of Naval Research (under review).

- BESL has developed a new strategic partnership with Evergreen Renewables, LLC. This partnership will help push forward lignocellulosic ethanol commercialization.
- Two research manuscripts have been submitted by STARS-funded researchers for review and publication.

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