Faculty Focus 1

Toby Dittrich
Physics Sylvania
tdittric@pcc.edu
Juneau Icefield research Program (JIRP)
Glacial Waves
Cryoconites
Juneau Icefield
Mt. Service
Poet Robert W. Service
Success!
Summit Boxes
Mt. London
Author Jack London
Other Direction
Return in 2014
Dr. Ben Santer LLNL
Climate Change Education

- **Community Education Course** – [www.pcc.edu/GCC](http://www.pcc.edu/GCC)
  - Dr. Phil Mote, Oregon CC Institute, OSU
  - Dr. Dan Schrag, Harvard World Ecology Center
  - Dr. Be Santer, LLNL
  - NCAR, NOAA, UW, WSU and more

- **Educational TV Program** with Secretary Bill Bradbury

- **Small Video Segments** for Course Use
Oregon NASA Space Grant

The Face of NASA in Oregon

http://spacegrant.oregonstate.edu

Bringing STEM Education to Oregon for 20 years!

www.OregonSTEM.org

Portland STEM Center

PSU

South Metro STEM Center

Evergreen Space Museum
PCC Online Physics

Create Courses

 PHY 121, 122, 123 Astronomy

 PHY Physics 201-3 and 211-13
 Require Hands on Lab

 GOAL: Make PCC Physics the premier Physics Online offering in the world!
The Physics Teacher
Toby Dittrich, Leonid Minkin, Alexander Shapovalov

- Measurement of Heat Capacity By Cooling
- Parametric Oscillations
- Drop Tower Physics
- Is Angular Displacement a Vector Quantity?
Patents

- Instant Note Capture (2 patents, 28 pending)
- Virtual Oral Recitation/Examination (1 patent, 1 pending)

VORE Technology: An automated method of assessment of oral discourses
Sabbatical and IES Grant

World Class Research Team

Principal Investigator: Dr. Darlene Russ – Eft
  Chair College of Education, Oregon State University
  Two PhD graduate Research Assistants

Co PI: Dr. Greg Sampson-Gruener

Consultant: Dr. Kenneth Winograd, Dr. Kathy Austin

Advisors: Dr. Martin Nystrand

Advisor: Dr. Art Graesser
Grant Goals

- Build Software Assessment System
- Test reading comprehension in largest school district in California
- Apply for Goal Three Grant – Efficacy and Replication
- Test VORE Technology in 400-600 schools nationwide
- After five years – RETIREMENT (maybe)
ViP for Full Time Membership

MY BHAG

- Increase FT/PT Faculty ratio in Math
- Provide focused Professional Development in Math

My continuing goals

- INCREASE FT/PT Ratio
- Increase PT Wages
- Eliminate Catch 22 in Course Development Grants
My Chain of Command

- Dr. Patty Mazouz, Chair SYL Physical Sciences
- Dr. Dieterich Steinmetz, Dean of Science/Engineering
- Dean Jeff Triplett
- Dr. Chris Chairsell
- President Linda Gerber
- District President Jeremy Brown

A DREAM TEAM LINE UP OF WORLD CLASS LEADERS – IT COULDN’T BE ANY BETTER!
Thank You

♫ Please make the Faculty Focus a permanent activity in the agenda of the PCC Board....

♫ PCC Faculty and Academic Professionals deserve to heard!