



Project Olympus Show and Tell 5

Wed, April 23, 2008
3:30-5:00 pm

Collaborative
Innovation Center
Lecture Hall
Carnegie Mellon

Reception Following @ Apple, Inc

Project Olympus aims to create a climate/culture and community that will enable talent and ideas to grow in the region.

Launched with an initial grant from **The Heinz Endowments**, Olympus' goals coincide with those of the Endowments' **Innovation Economy program**.

Please join us for our 5th "Show and Tell" showcasing Olympus' PROBEs and Community Projects in Progress.

OLYMPUS

- **Prof. Lenore Blum**, Project Olympus
Olympus Next Steps

A FOCUS ON RESEARCH from the School of Computer Science and the Department of Electrical and Computer Engineering (ECE)

- **Prof. Mor Harchol-Balter**, The ALADDIN Center
Power Management in Server Farms
- **Prof. Nancy Pollard**, The Graphics Lab
Shaking Hands with Robots
- **Prof. Priya Narasimhan**, ECE and ISR
Assistive Mobile Technologies for the Blind

OUTREACH

- **Carol Frieze**, Director, Women@SCS
Diversifying the Images of Computing: The Outreach Roadshow

OLYMPUS CONNECTS

- **Audrey Russo**, President & CEO, Pittsburgh Technology Council
The New Pittsburgh



We look forward to much discussion and interaction.
Refreshments Served.

Registration and Directions:
<http://www.olympus.cs.cmu.edu>

• Carnegie Mellon • Pittsburgh

www.cs.cmu.edu

The logo for OLYMPUS features the word "OLYMPUS" in a stylized, multi-colored font. The letter 'O' is a red circle. 'L' is green, 'Y' is yellow, 'M' is purple, 'P' is red, 'U' is green, and 'S' is yellow. The logo is centered within two concentric purple circular lines that are open at the bottom.

Next
Generation

• Talent • Computing • Economy

About

People

PROBEs

Events

CONNECTS
Students

News

In Town

Community
Showcase

Links

• Carnegie Mellon University • Pittsburgh

www.cs.cmu.edu

The logo for OLYMPUS features the word "OLYMPUS" in a stylized, multi-colored font. The 'O' is red, 'L' is green, 'Y' is orange, 'M' is purple, 'P' is red, and 'U' is green. The 'S' is orange. The logo is centered within a large, purple, spiral-shaped graphic that starts from the top left and curves around the text.

Next
Generation

• Talent • Computing • Economy

About

People

PROBEs

Events

CONNECTS
Students

News

In Town

Community
Showcase

Links

OLYMPUS is a **HUB**

an **ATTRACTOR, CONNECTOR, INCUBATOR,**
INNOVATOR, MICRO-INVESTOR, ACCELERATOR
CREATOR: CULTURE, CLIMATE, COMMUNITY,
ENABLER: TALENT, IDEAS, TO GROW IN THE REGION
STIMULATOR: REGIONAL ECONOMY

a **SHOWCASER, HIGHLIGHTER, PROMOTER:**
ENTREPRENEURIAL, COMMERCIALIZABLE,
CUTTING- EDGE, HIGH TECH, NOVEL,
NEXT GENERATION, EXCITING,
SHARE, COMBINE.

We are **SITTING** on a **GOLDMINE: TALENT, DIVERSE**
ENERGY, INTERDISCIPLINARY RESOURCES,
SCIENCE, TECHNOLOGY, ARTS,

We **NURTURE, STIMULATE, ENCOURAGE, EXPLORE,**
We are **NETWORKED, LIKE-MINDED, KINDRED SPIRITS,**
We are **PASSIONATE**

OLYMPUS is a HUB

- an **ATTRACTOR**, **CONNECTOR**, **INCUBATOR**,
- **INNOVATOR**, **MICRO-INVESTOR**, **ACCELERATOR**
- **CREATOR**: **CULTURE**, **CLIMATE**, **COMMUNITY**,
- **ENABLER**: **TALENT**, **IDEAS**, **TO GROW IN THE REGION**
- **STIMULATOR**: **REGIONAL ECONOMY**
- a **SHOWCASER**, **HIGHLIGHTER**, **PROMOTER**:
- **ENTREPRENEURIAL**, **COMMERCIALIZABLE**,
CUTTING- EDGE, **HIGH TECH**, **NOVEL**,
NEXT GENERATION, **EXCITING**,
- **SHARE**, **COMBINE**.
- We are **SITTING** on a **GOLDMINE**: **TALENT**, **DIVERSE ENERGY**, **INTERDISCIPLINARY RESOURCES**,
SCIENCE, **TECHNOLOGY**, **ARTS**,
- We **NURTURE**, **STIMULATE**, **ENCOURAGE**, **EXPLORE**,
- We are **NETWORKED**, **LIKE-MINDED**, **KINDRED SPIRITS**,
- We are **PASSIONATE**

• Carnegie Mellon • Pittsburgh

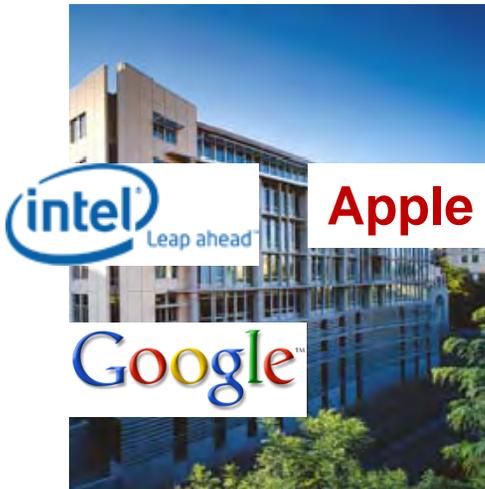


Next
Generation

• Talent • Computing • Economy

Where are we?

School of Computer Science Complex



Collaborative
Innovation
Center



The BIG DIG



Newell Simon
Hall

• Carnegie Mellon • Pittsburgh



Where are we?

School of Computer Science Complex



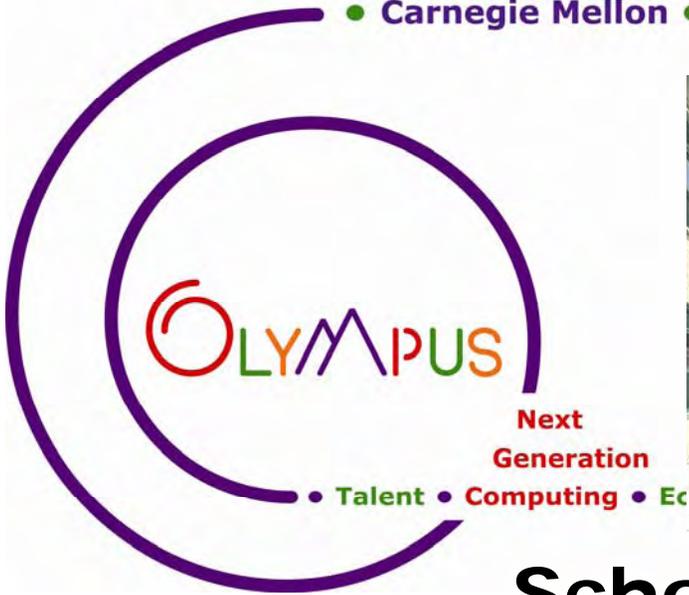
**Collaborative
Innovation
Center**



The Gates Center

**Newell Simon
Hall**

• Carnegie Mellon • Pittsburgh



School of Computer Science

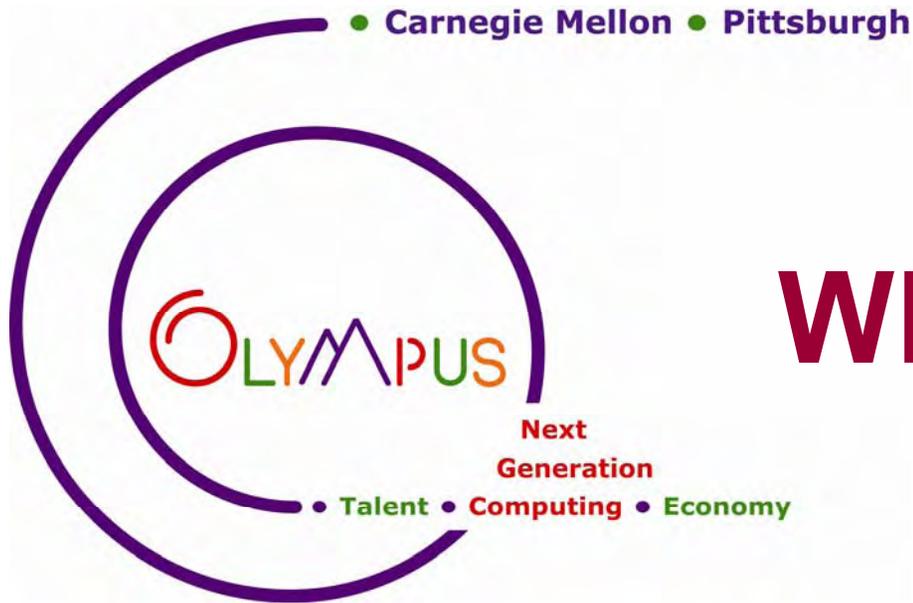
- Computer Science Department
- Robotics Institute
- Institute for Software Research
- Human Computer Interaction Institute
- Language Technologies Institute
- Machine Learning Department
- Entertainment Technology Center

Numerous
Affiliates/Collaborations
across campus
and with
the University of Pittsburgh



Many Centers, eg
QoLT Center
ALADDIN Center

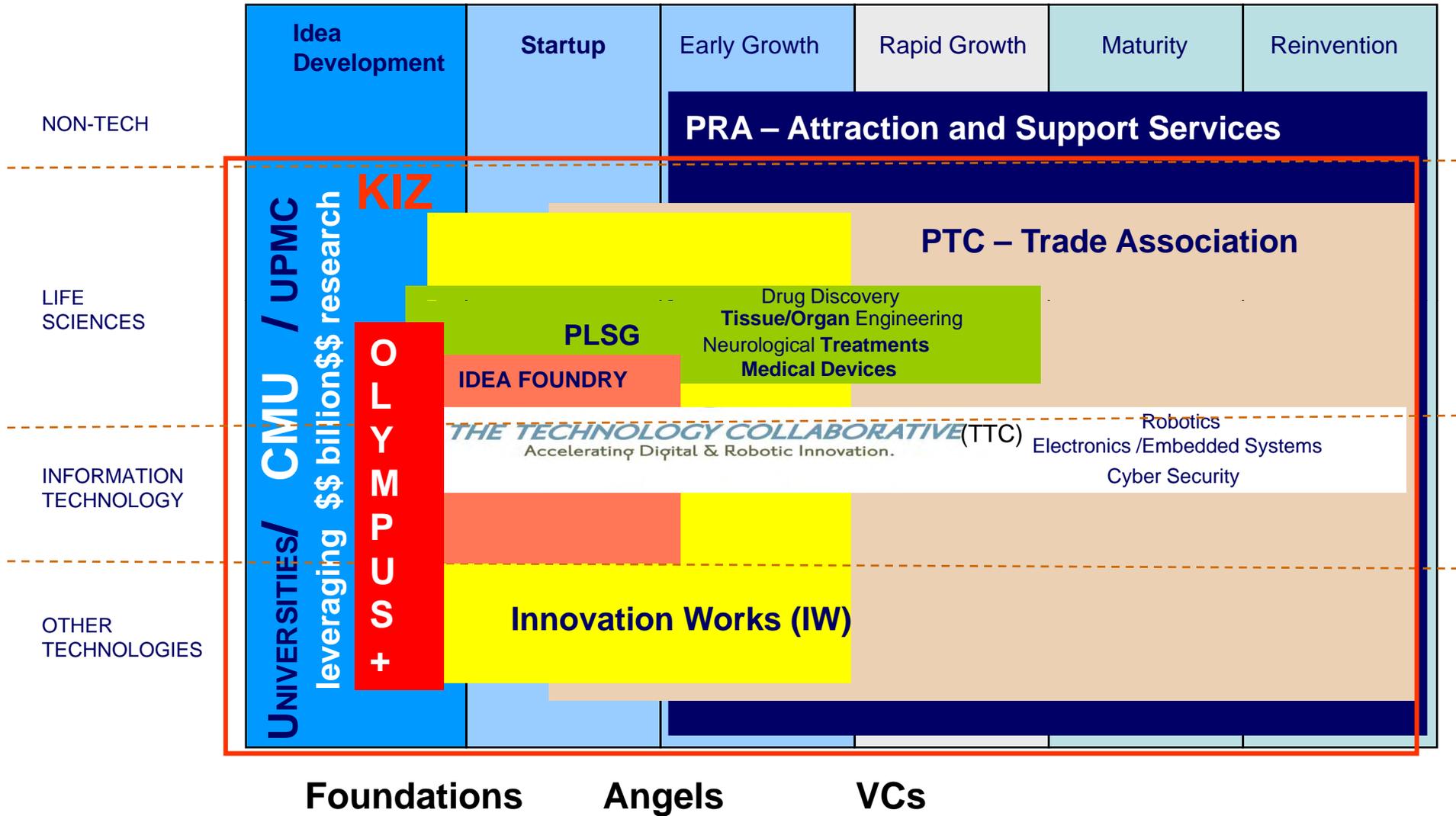




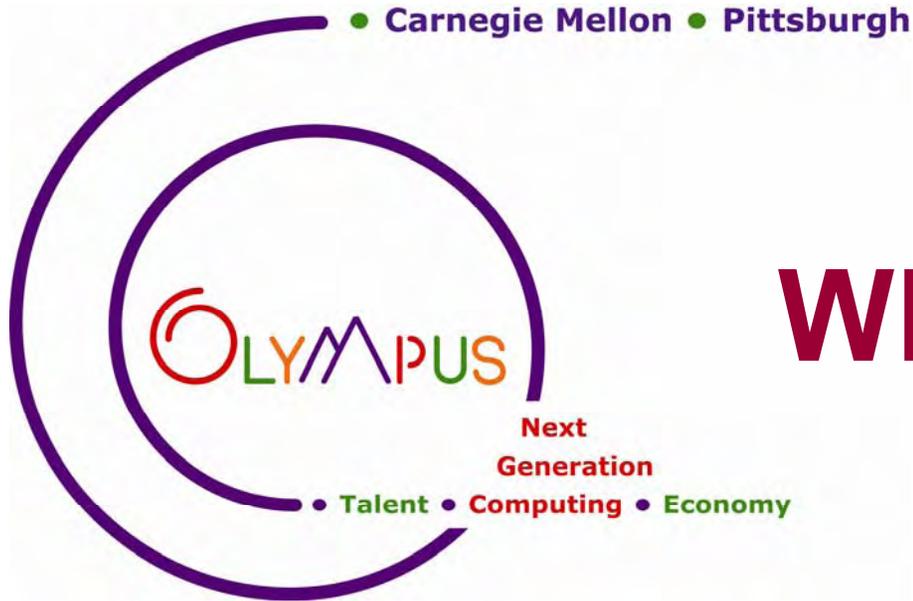
Why Olympus?

To connect research activities at CMU with business creation and technology transfer opportunities.

TECH – BASED ECONOMIC DEVELOPMENT



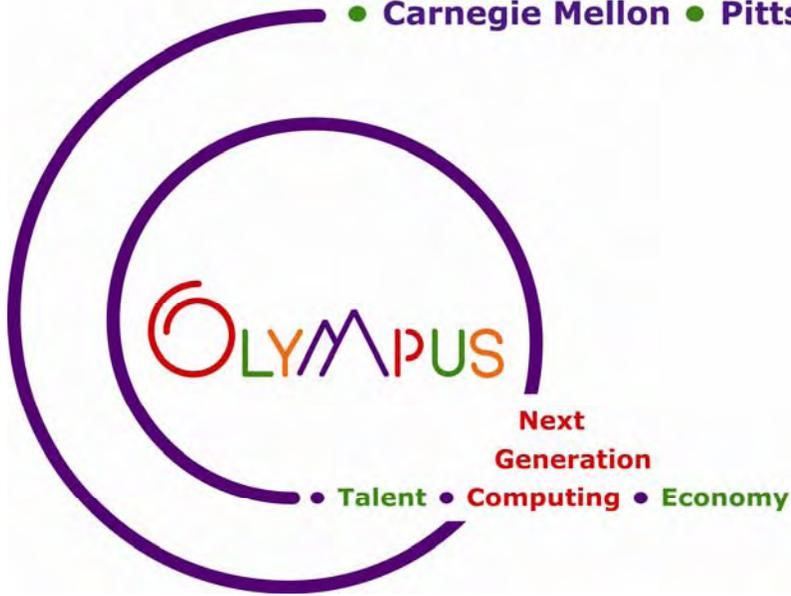
PRA=Pgh Regional Alliance, PTC=Pgh Technology Council, PLSG= Pgh Life Sciences Greenhouse
 KIZ = Keystone Innovation Zone (NB. This diagram is a modification of a TTC slide)



Why Olympus?

- **To Create a Culture/Climate and Community**
- **To Enable Talent and Ideas to Grow in the Region**

• Carnegie Mellon • Pittsburgh

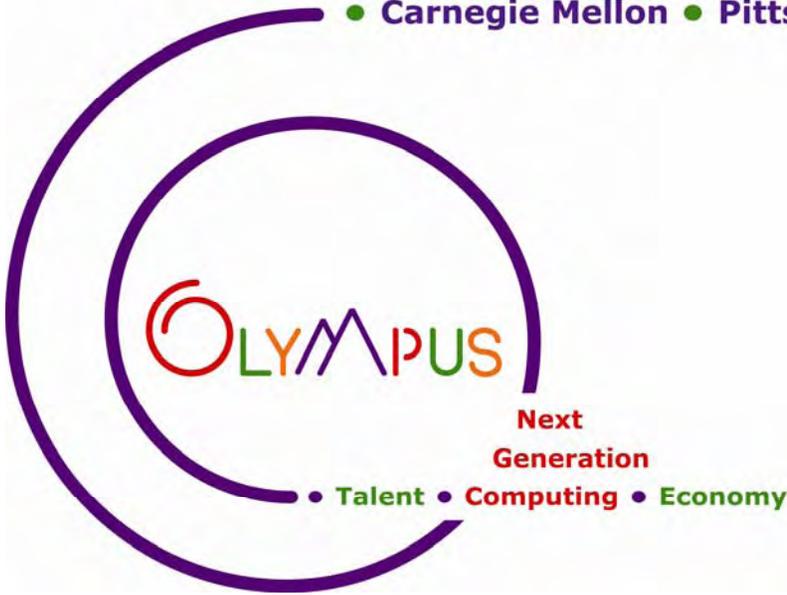


• **Teams** of students, grads, faculty & business advisors work together on focused

• **PROBEs (PROBLEM-oriented Explorations)** to develop potentially commercializable ideas and projects emerging from core university research.



• Carnegie Mellon • Pittsburgh

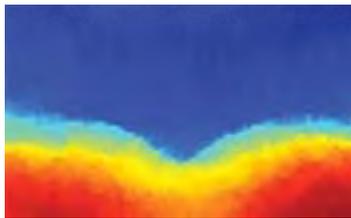


• **Teams** of students, grads, faculty & business advisors work together on focused

• **PROBEs (PROBLEM-oriented Explorations)** to develop potentially commercializable ideas and projects emerging from core university research.



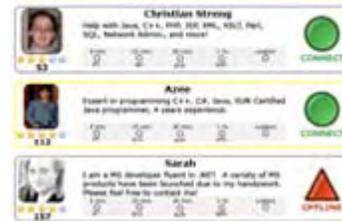
reCAPTCHA



Spectral/
Medical Imaging



Mindkin



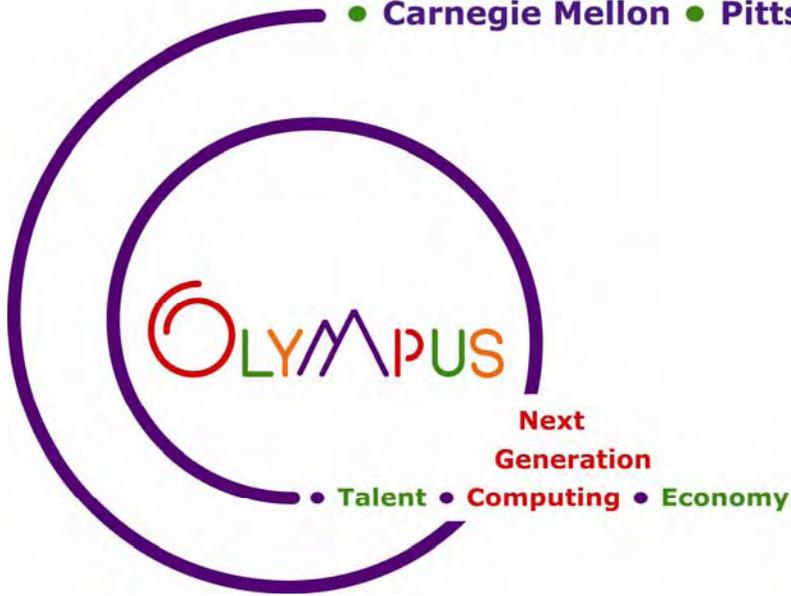
M-Tool



Semiotic



• Carnegie Mellon • Pittsburgh



- **Teams** of students, grads, faculty & business advisors work together on focused
- **PROBEs (PROBLEM-oriented Explorations)** to develop potentially commercializable ideas and projects emerging from core university research.

NewSpace



• Carnegie Mellon • Pittsburgh



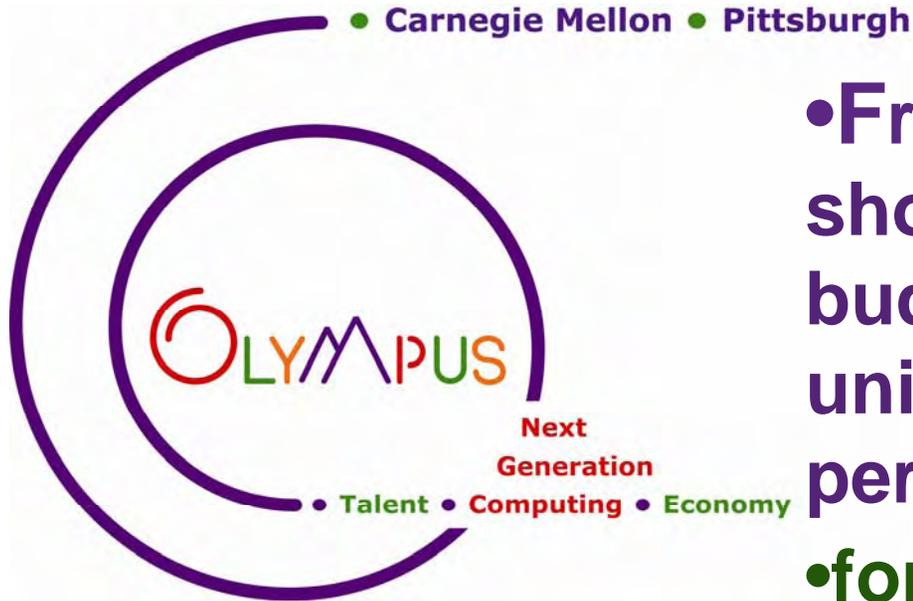
Olympus CONNECTS Students

Tuesday, April 15, 2008
5:30-6:30 pm NSH 3305

- Do you know what Intellectual Property (IP) is? Should you care?
- Please join us for a lively discussion on everything you always wanted to know about IP -- and all that.
- At the same time, connect with other entrepreneurial minded students.



Special Guest: Tara Branstad
Director, Enterprise Creation
Center for Technology Transfer & Enterprise Creation
Carnegie Mellon



- Frequent **Show and Tells** showcase Olympus PROBEs, budding talent, local start-ups, university research and guest perspectives
- for the regional civic and innovation/investment communities.



For more information, please visit the Project Olympus website
www.olympus.cs.cmu.edu



Show and Tells

1. June 7, 2007



2. September 25, 2007



3. December 12, 2007

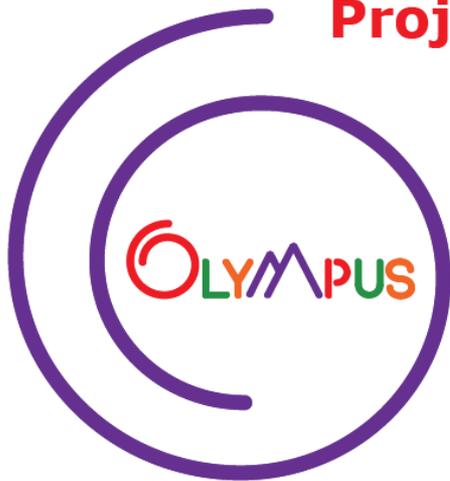


4. March 26, 2008



5. April 23, 2008





Project Olympus

Show and Tell 5

Wed, April 23, 2008
3:30-5:00 pm

Collaborative
Innovation Center
Lecture Hall
Carnegie Mellon

Reception Following @ Apple, Inc

TODAY!

A FOCUS ON RESEARCH from the School of Computer Science and the Department of Electrical and Computer Engineering (ECE)

- Prof. Mor Harchol-Balter, The ALADDIN Center
Power Management in Server Farms
- Prof. Nancy Pollard, The Graphics Lab
Shaking Hands with Robots
- Prof. Priya Narasimhan, ECE and ISR
Assistive Mobile Technologies for the Blind

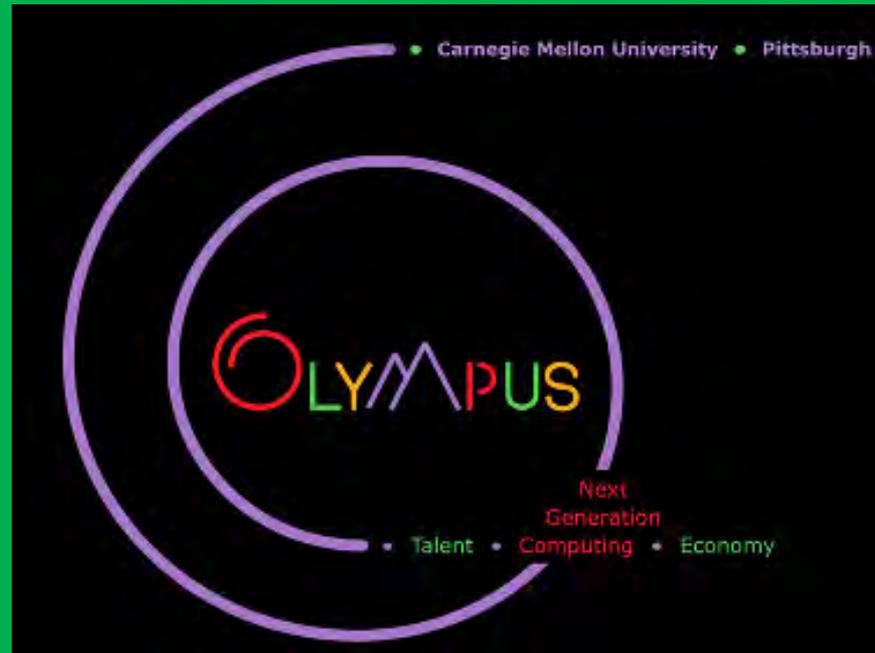
OUTREACH

- Carol Frieze, Director, Women@SCS
Diversifying the Images of Computing: The Outreach Roadshow

OLYMPUS CONNECTS

- Audrey Russo, President & CEO, Pittsburgh Technology Council
The New Pittsburgh





TODAY'S SHOWCASE

Power Management in Server Farms



Prof. Mor Harchol-Balter
The ALADDIN Center

Shaking Hands with Robots



Prof. Nancy Pollard
The Graphics Lab



Assistive Mobile Technologies for the Blind



Prof. Priya Narasimhan
ECE and ISR/SCS



Diversifying the Images of Computing: The Outreach Roadshow



Dr. Carol Frieze
Director, Women@SCS

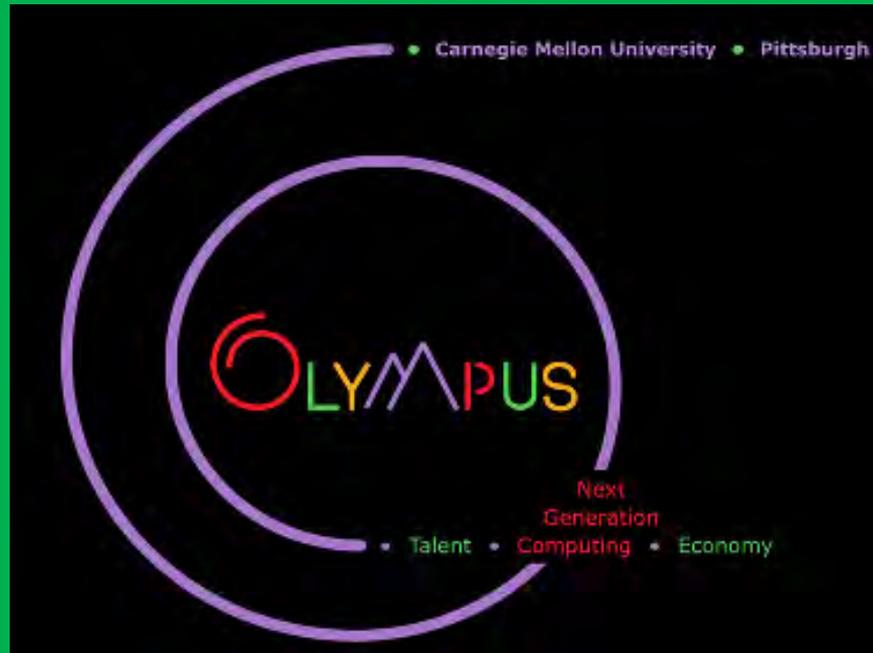
- Alissa Briggs, junior in Computer Science
- Katrina Ligett, PhD student in Computer Science

The New Pittsburgh

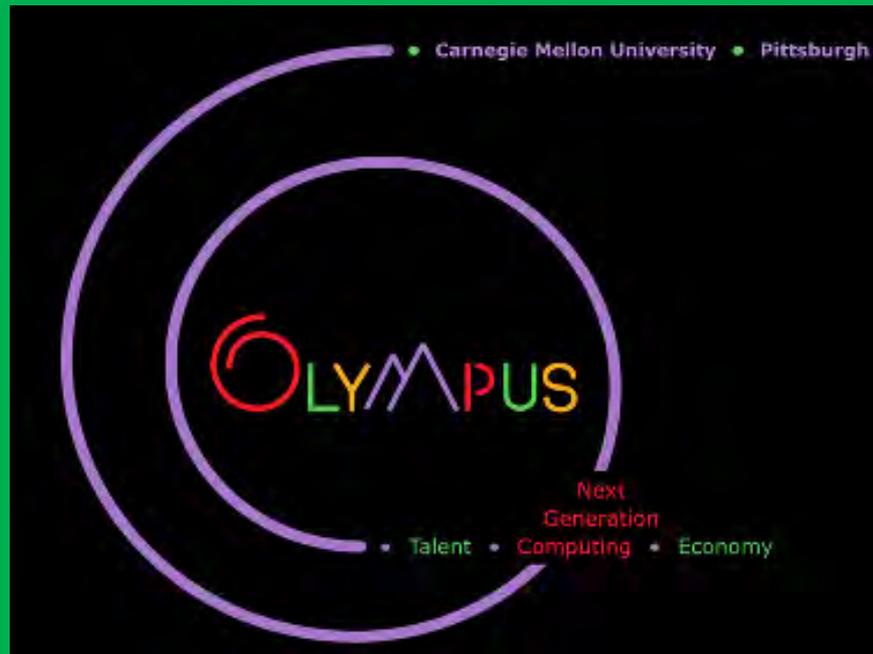


Audrey Russo
Pres & CEO,
Pittsburgh Technology Council





Reception @ Apple, Inc. (Upstairs)



LET the SHOW BEGIN !



N

O

P

R

S

Carnegie Mellon University

W

T

Carnegie Mellon University

OLYMPUS

OLYMPUS

OLYMPUS



Project Olympus
SHOW & TELL

CHECK IN
HERE



Project Olympus
SHOW & TELL



Collaborative Innovation Center
LECTURE HALL







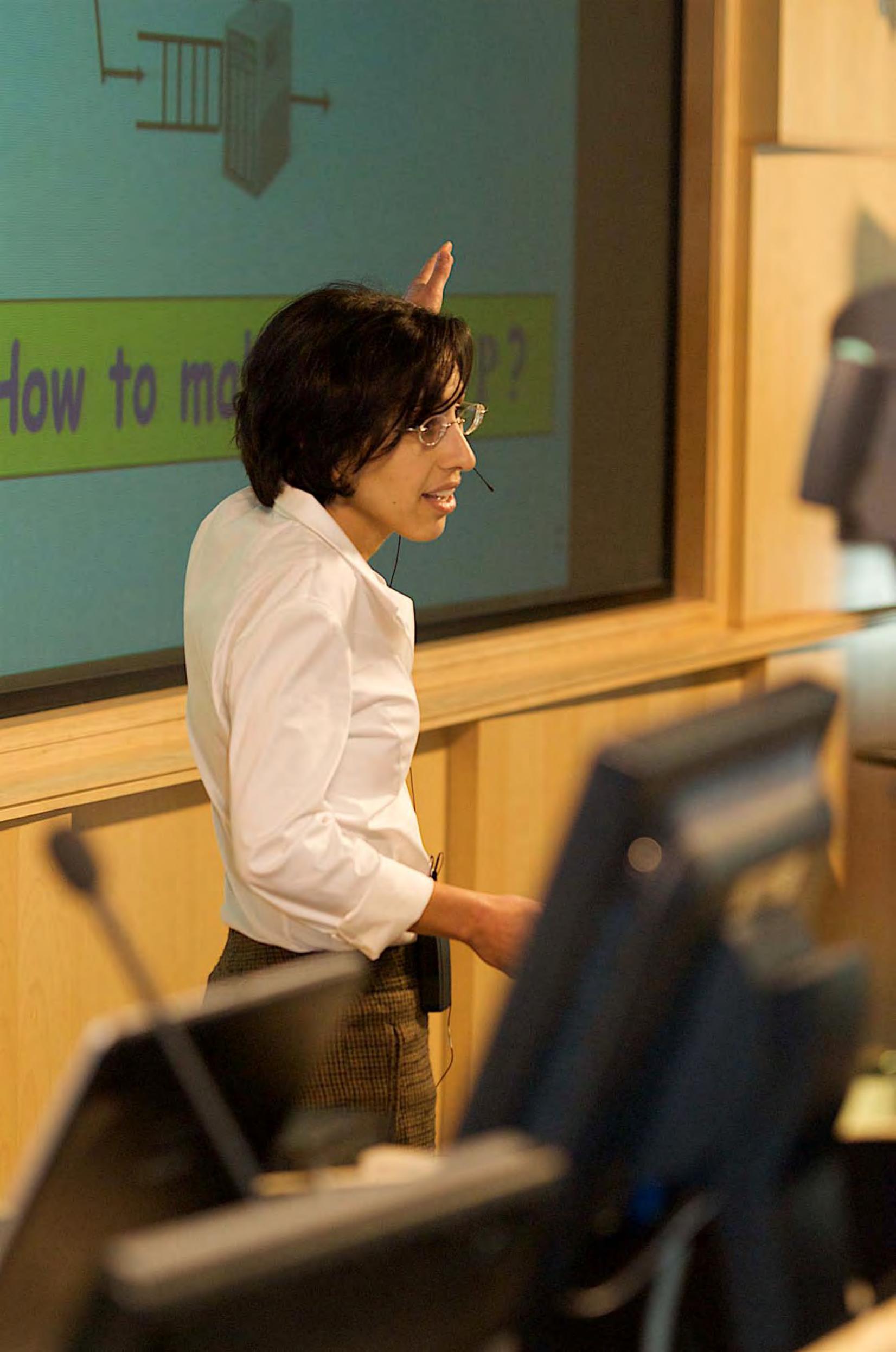




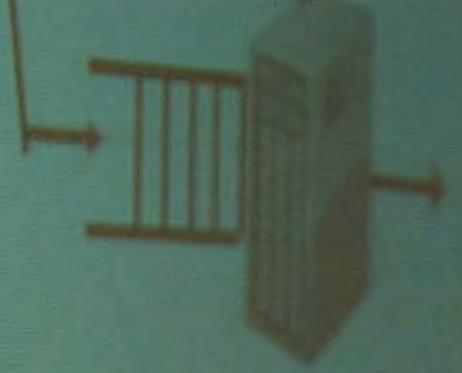
Carnegie Mellon University
OLYMPUS
Mark Houser





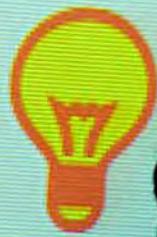


How to make...?









d power allocation



uld power alloc. be p





Apus
Nancy Collard

















Cathy
Apple, Inc.

2.300-3-282
collaborations
Chattanooga
Reception Follow-up
Applied, Inc. 1/11/11











The Challenge!

"Computer science is one of the most exciting scientific endeavors in recent history. The fact so few have had the opportunity to share this story."
(L. Arava, B. Chazelle, Communications ACM, 2010)



The Challenge!

"Computer science is one of the most exciting scientific endeavors in recent history. Too bad so few have had the opportunity to share the thrill!"
— Frank B. Rowland, Communications ACH, 2005

How do we tell the story of CS to K-12 students, their parents and teachers?





Since 2002
**The Outreach Roadshow:
Diversifying the Images of
Computer Science**
To address the image of computer science as a field that is not welcoming to all, we are pleased to announce our outreach efforts



women@scs






women@scs



















Carnegie Mellon University
OLYMPUS
Audrey Russo

ini
Carr















HYSTER





Carol Pines





Cambridge & MIT Open University
OLYMPUS
Jeff Ts







WOMEN@SCS

women@scs







Lindsay Turner
Apple, Inc.

Chicago Motor University
Olivarius
Cleah Schlueter



Alex Wrigley
Apple





Carnegie Mellon University
OLYMPUS
Harold Miller



Carnegie Mellon University
OLYMPUS
Jia Ji







