

• Carnegie Mellon • Pittsburgh

www.olympus.cs.cmu.edu

OLYMPUS

• Talent • Next Generation Computing • Economy

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Michael Henninger/Post-Gazette

“We will restore science to its rightful place, and wield technology's wonders to raise health care's quality and lower its cost. We will harness the sun and the winds and the soil to fuel our cars and run our factories. And we will transform our schools and colleges and universities to meet the demands of a new age. All this we can do. And all this we will do.”

from President Obama's Inaugural Address, January 20, 2009

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The logo for Olympus features the word "OLYMPUS" in a stylized, multi-colored font. The letters are arranged in a way that suggests a circular or spiral shape, with the 'O' being a red circle and the 'Y' being a purple shape. The rest of the letters are in various colors: 'L' is green, 'M' is blue, 'P' is orange, and 'U' is green. The 'S' is also green. The logo is set against a background of two concentric purple circles that form a partial spiral.

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Why Olympus?

Mission Statement

- To *bridge the gap* between
- world-class university **research** &
 - economy-benefiting **commercialization**
- for the benefit of our communities.

The logo for OLYMPUS, with each letter in a different color: O (red), L (green), Y (purple), M (blue), P (orange), U (green), S (red).

Next
Generation

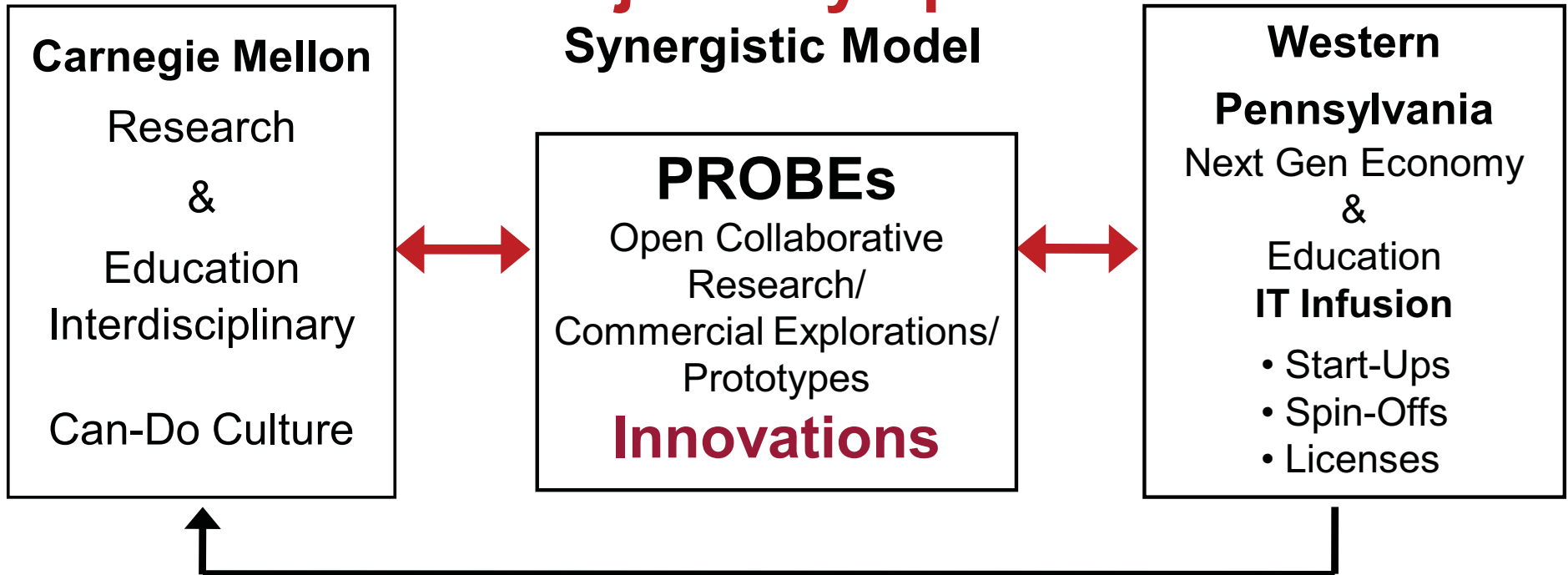
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Why Olympus?

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

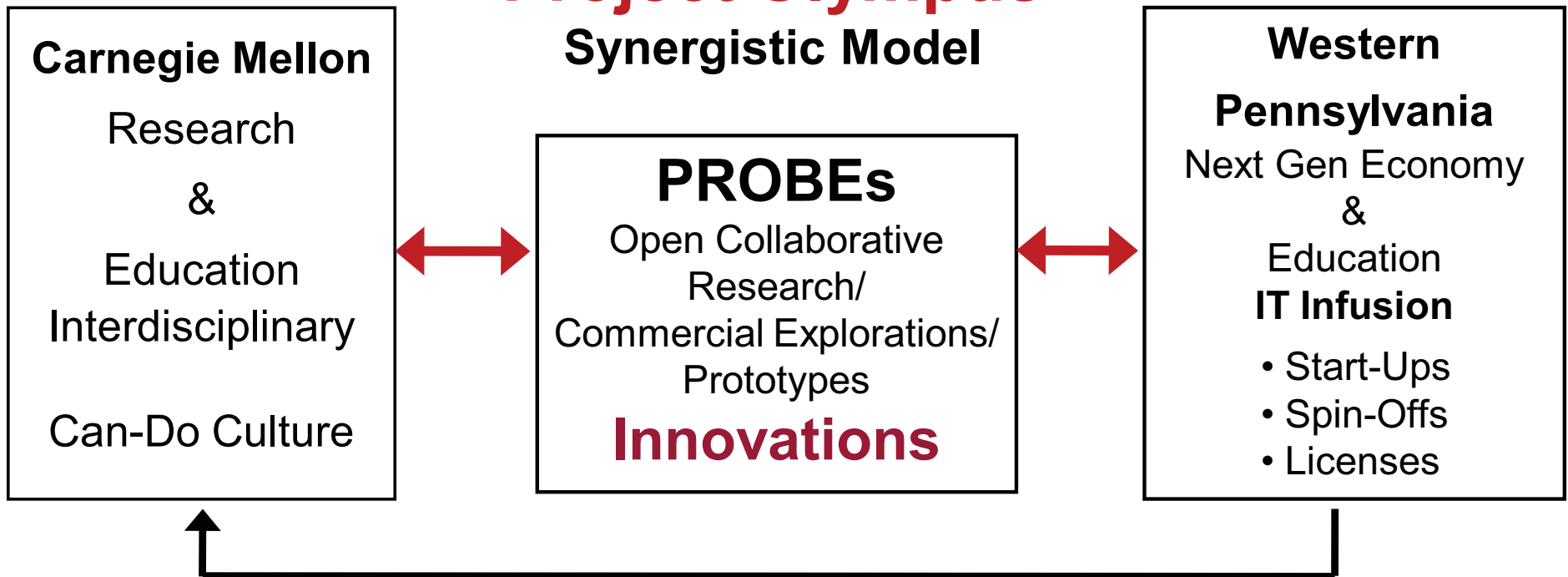
OLYMPUS' mission is to *bridge the gap*
between world-class research &
commercialization for the benefit of our
communities

Project Olympus
Synergistic Model



OLYMPUS' *vision* is to *create a life-cycle* of university research & commercialization for the benefit of our communities

Project Olympus
Synergistic Model



OLYMPUS' *vision* is to **create a life-cycle** of university research & commercialization for the benefit of our communities

Project Olympus
Synergistic Model

Carnegie Mellon
Research
&
Education
Interdisciplinary
Can-Do Culture

PROBEs
Open Collaborative
Research/
Commercial Explorations/
Prototypes
Innovations

Western Pennsylvania
Next Gen Economy
&
Education
IT Infusion
• Start-Ups
• Spin-Offs
• Licenses

**New Resources & Ideas Stimulate
New Research/Innovation**





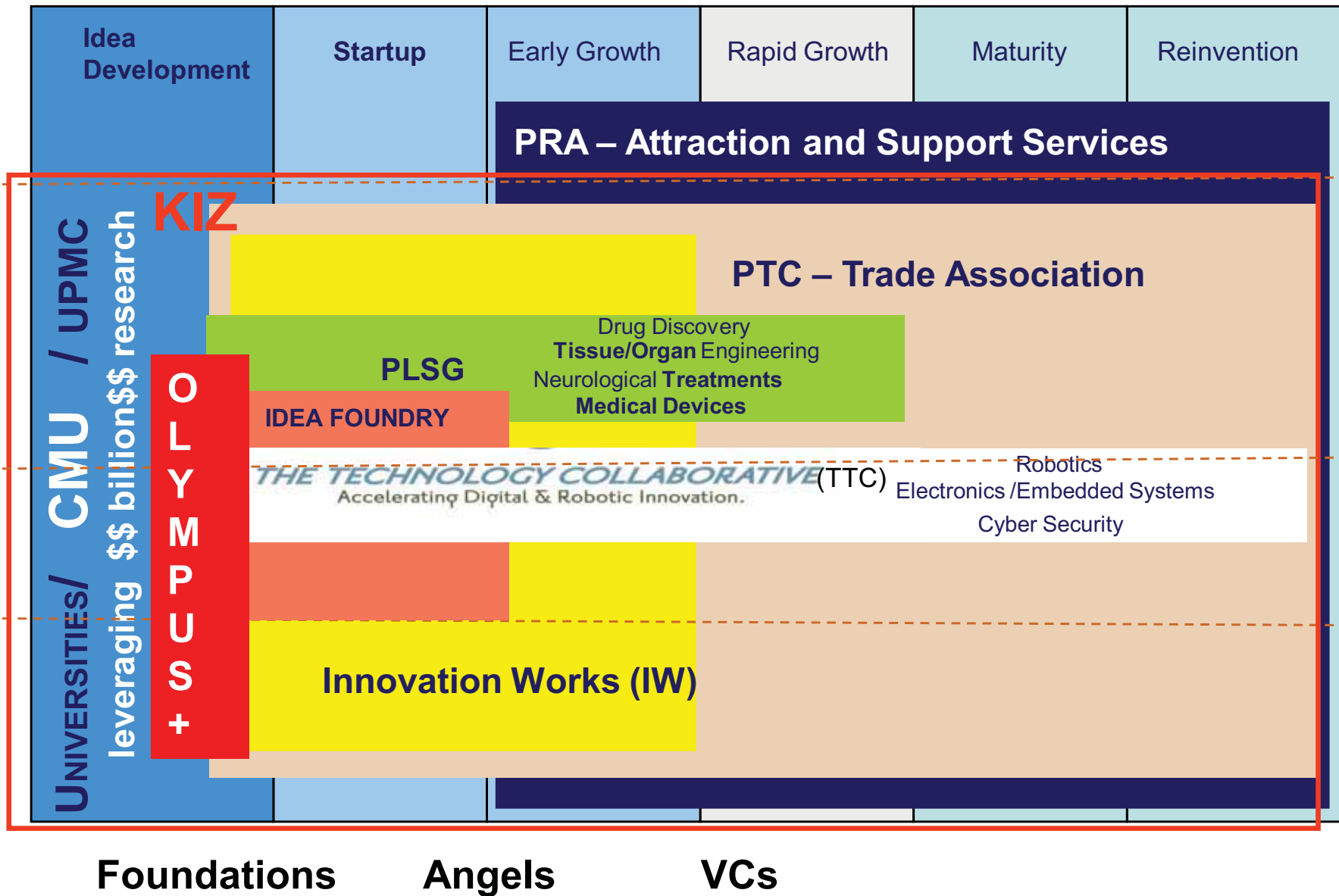
•Housed within the **School of Computer Science**, **Olympus** works closely with all units across campus, including:

- Center for Technology Transfer & Enterprise Creation**
- Donald H. Jones Center for Entrepreneurship**

and collaborates with the regional

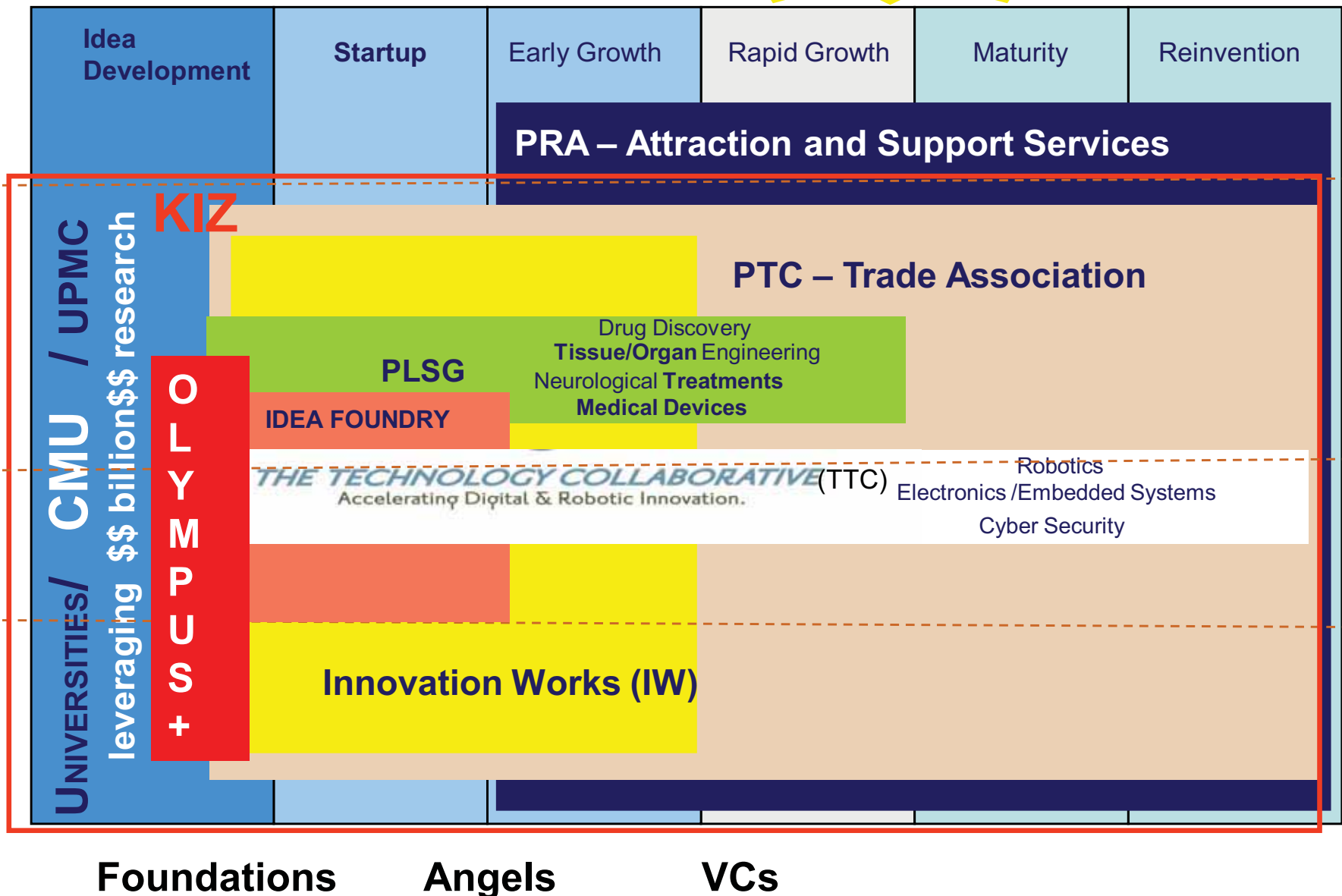
- Tech-Based Economic Development** community

Pittsburgh Technology Innovation Community



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)

Pittsburgh Technology Community of Innovation



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)



- **Launched with an initial grant from The Heinz Endowments in January 2007**
- **A Multi-faceted Approach**



- **PROBEs at the Core**
- **CONNECTs Students**
- **CONNECTs Faculty**
 - **Show & Tells**



- **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, 4620 Henry Street



- **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.

- **Micro-grants, Matching Funds**
 - **Space, Equipment**
- **Advice, Education, Assistance**
- **Networks, Connections, Contacts**
 - **Visibility**



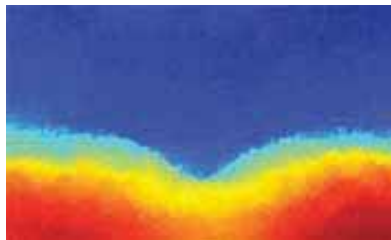
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reCAPTCHA



BeaconSys



Spectral/
Medical Imaging



Mindkin



Bright
Stop searching. Start asking.



M-Tool



Semiotic





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



Babs Carryer
Embedded Entrepreneur



Kit Needham
Senior Business Advisor



Project Olympus **CONNECTS** Students

- **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

Project Olympus CONNECTS FACULTY

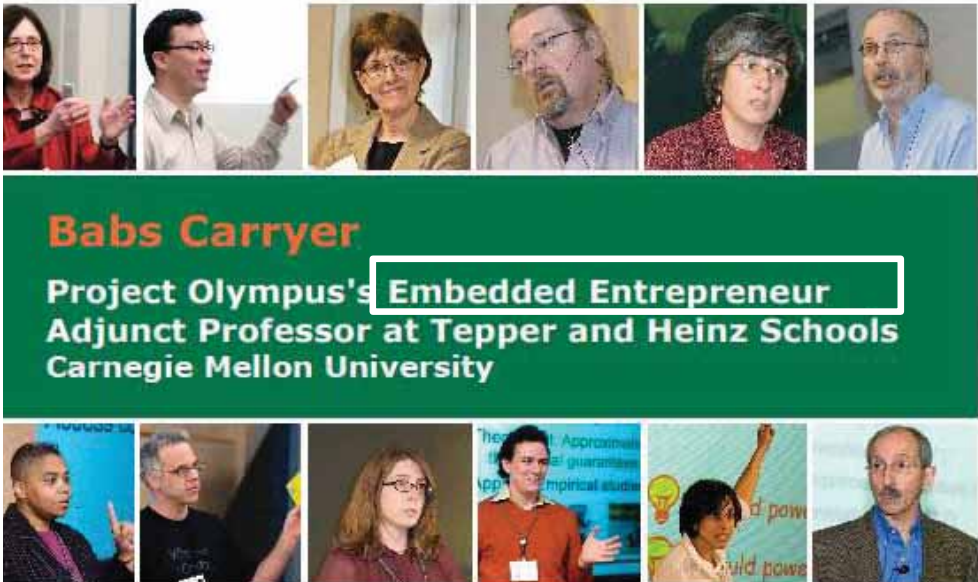


Wednesday, October 15, 2008
4:00-5:30 pm


Newell Simon Hall 3305
Carnegie Mellon

The Path from Basic Research to the Market Place

- Please join us for a discussion about taking your research from the lab to the marketplace.
- Babs is a serial entrepreneur who has worked with faculty and scientists to commercialize their innovations into startups.
- Her talk is aimed at demystifying the commercialization process for faculty and researchers, who are new to the world of intellectual property, venture finance, stock ownership, and market entry for new products



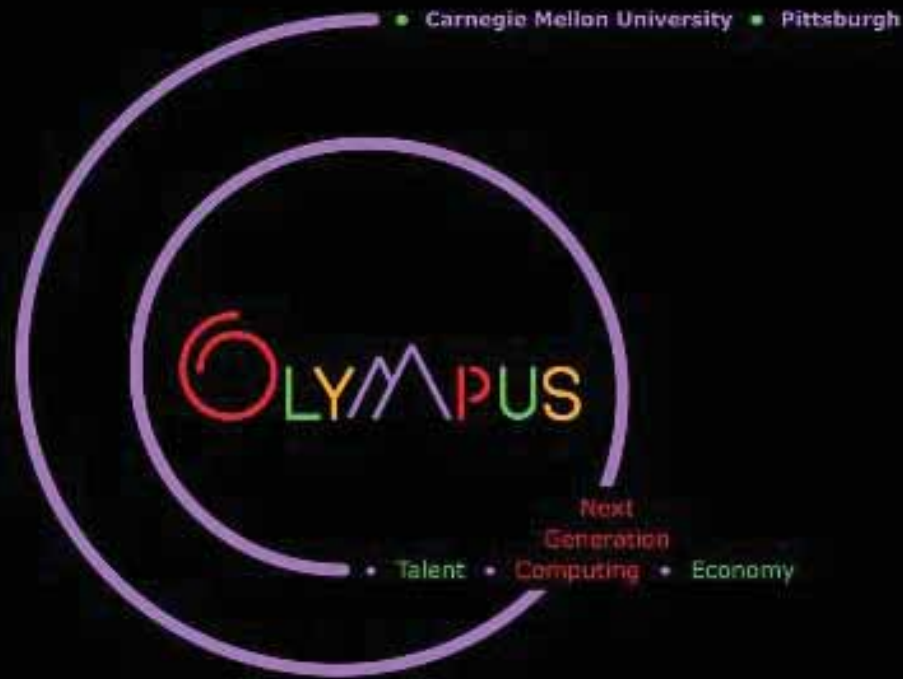
Babs Carryer
Project Olympus's **Embedded Entrepreneur**
Adjunct Professor at Tepper and Heinz Schools
Carnegie Mellon University





- 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.





TODAY'S SHOWCASE

Show and Tell 7

TODAY'S SHOWCASE

A FOCUS ON RESEARCH from the School of Computer Science

• Prof. Luis von Ahn, CSD
"Human Computation"

START-UPS & SPIN-OFFS

• Prof. Jose' Moura, ECE
Spiral: Teaching Computers to Write Fast Libraries

• Prof. Lorrie Cranor, ISR & EPP(SCS)
Wombat Security Technologies: How to Foil 'Phishing' Scams

• Marek Michalowski, PhD candidate, RI
BeatBots/Keepon: Rhythm in Human-Robot Social Interaction

OLYMPUS CONNECTS

Harold D. Miller, President, Future Strategies
Adjunct Professor, Heinz School

What Do All the Numbers Mean (for Pittsburgh)?



Human Computation



Prof. Luis von Ahn
Computer Science Department

Spiral: Teaching Computers to Write Fast Libraries



Prof. Jose' Moura
Electrical and Computer Engineering (CIT)



Wombat Security Technologies: How to Foil 'Phishing' Scams



Prof. Lorrie Cranor,
Inst for Software Research (SCS)
Eng & Public Policy (CIT)



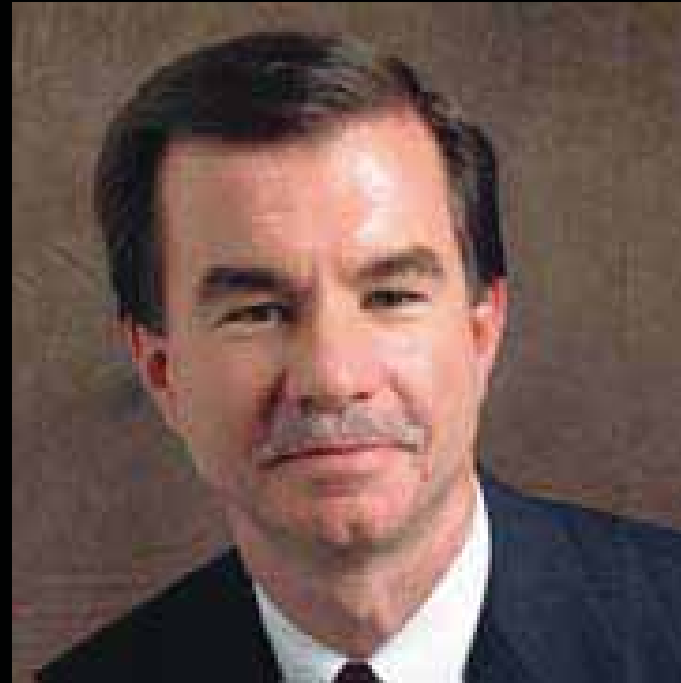
BeatBots/Keepon: Rhythm in Human-Robot Social Interaction



Marek Michalowski
PhD candidate, Robotics Institute



What Do All the Numbers Mean (for Pittsburgh)?

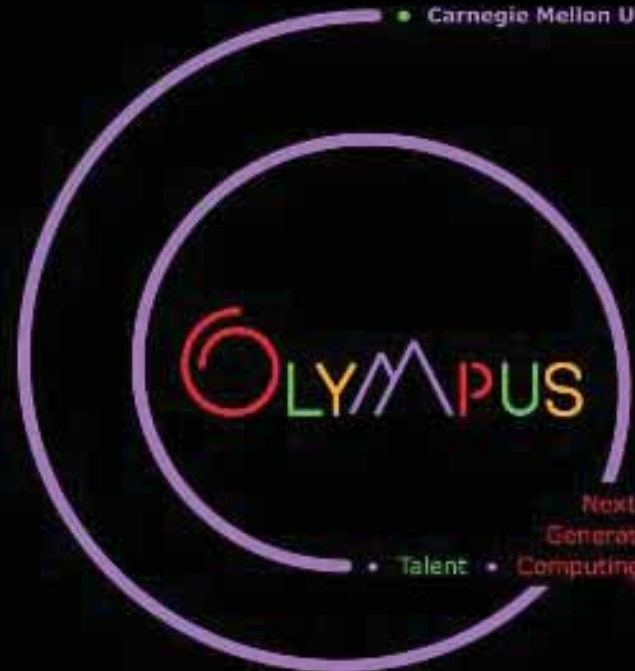


Harold D. Miller
Pres. Future Strategies, LLC &
Adjunct Professor, Heinz School of Public Policy
and Management





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LET the SHOW BEGIN !

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Cambridge HealthCare Company
Outlook
Kit Needham































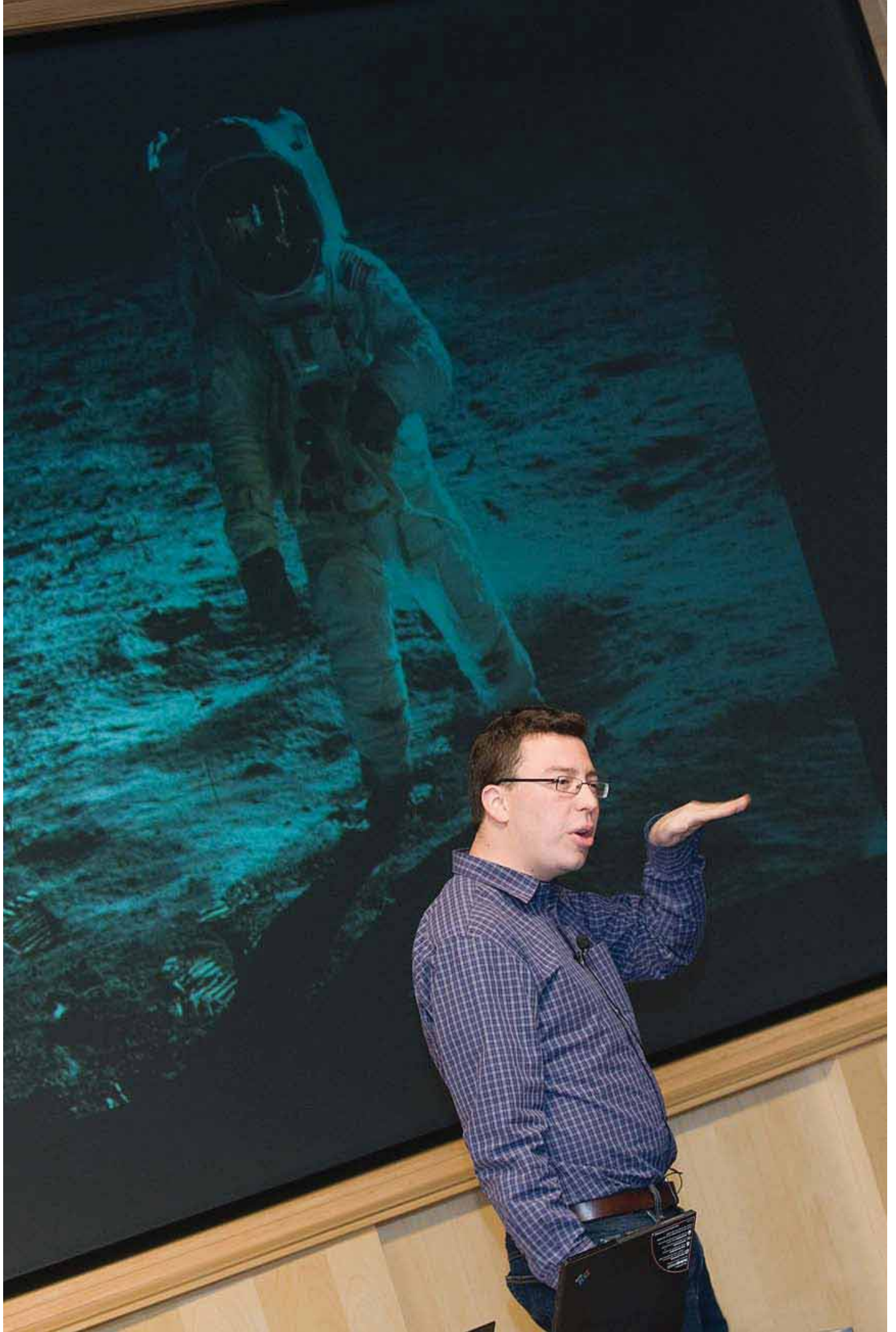


orative
ation
er













Enter both words below, separated by a space. What's that?
Can't read that? Try another.

1700 incapacity

Text in the box

Terms of Use and Privacy Policy

Internet | Protected

Crowdsour
Language
Translatio













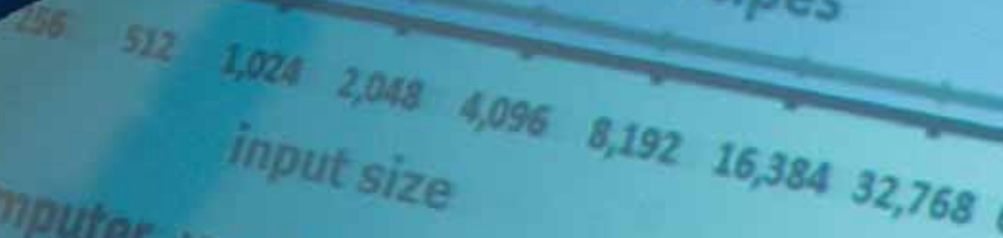








Numerical recipes



top computer, vendor compiler, using optimization
tions have the same operations count $\approx 4n \log_2(n)$
be shown for most numerical problems













raise positive rate
Commercialized by Wombats

I. Fe...
adeh, and A. Tomasic. Learning to...



- Most people don't proactively train materials
 - "Security notice" emails sent to and/or customers tend to be ignored
- ### Solution
- Find a "teachable moment": Phishing
 - Make training fun: Anti-Phishing P



P. Kumaraguru, Y. Rhee,
people from phishing
email system. In CHI
Systems, San Jose, Ca



Andrew Mellon



Here is how con artists
use your
information.



Worbank
From: service@worbank.com
Dear Jane,
Your account will be suspended if
you do not update your information
[Click Here](#)

How phishers trick you

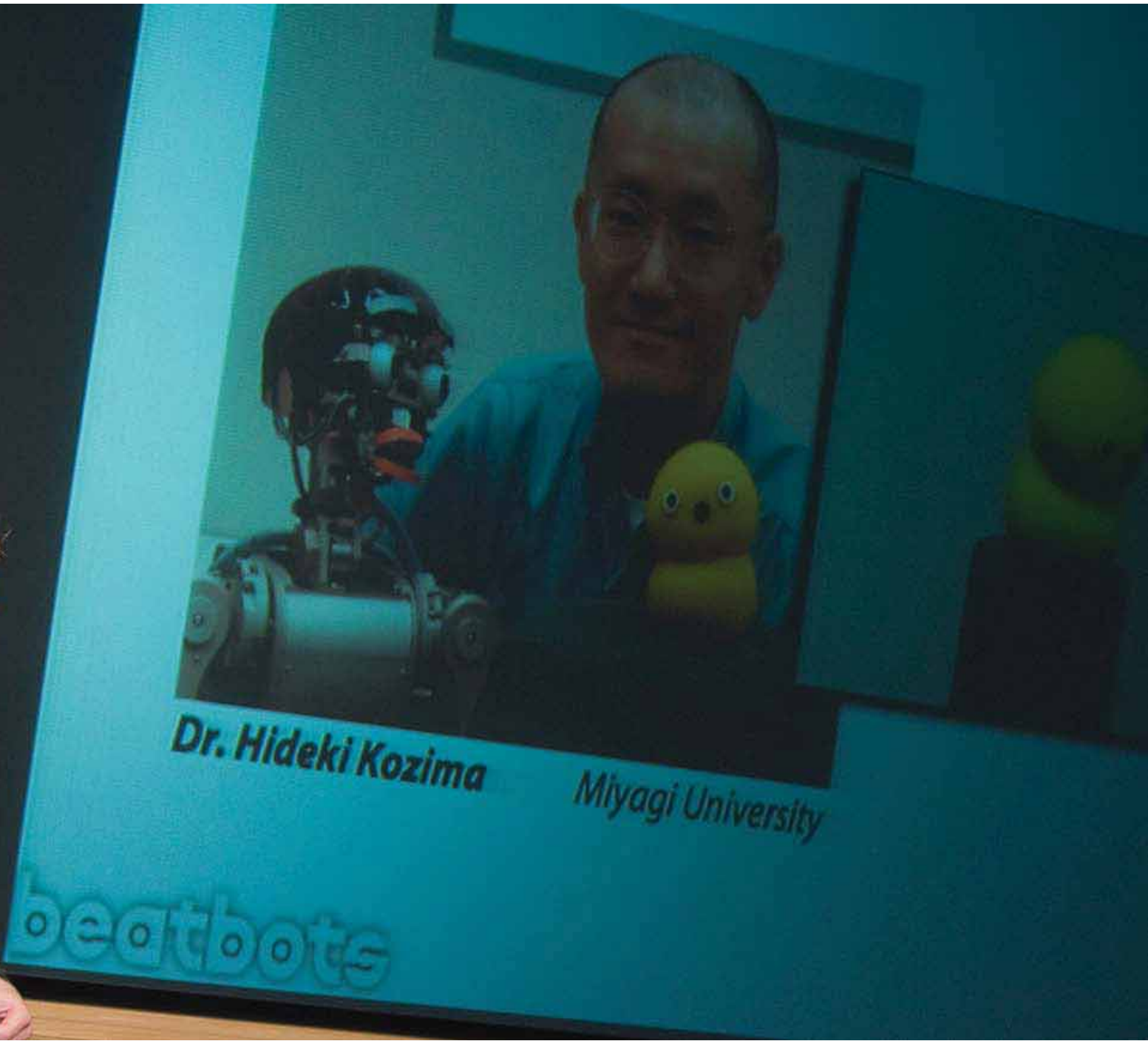
Here is how con artists
to steal your
personal information.



Wombank
From: service@wombank.com
Dear Ann,
Your account will be suspended if
you do not update your information.
[Go here to update your information](#)







Dr. Hideki Kozima

Miyagi University

beatbots









dead













-2.7%

-3%

-4%

- San Diego
- Seattle
- Washington
- Boston
- Columbus
- Baltimore
- Charlotte
- Pittsburgh
- Denver
- New York
- Indianapolis
- Cincinnati
- Las Vegas
- San Jose



Workers
Not
Retiring

Workers
Not
Retiring

Month 2





Workers
Not
Retiring

Month 1













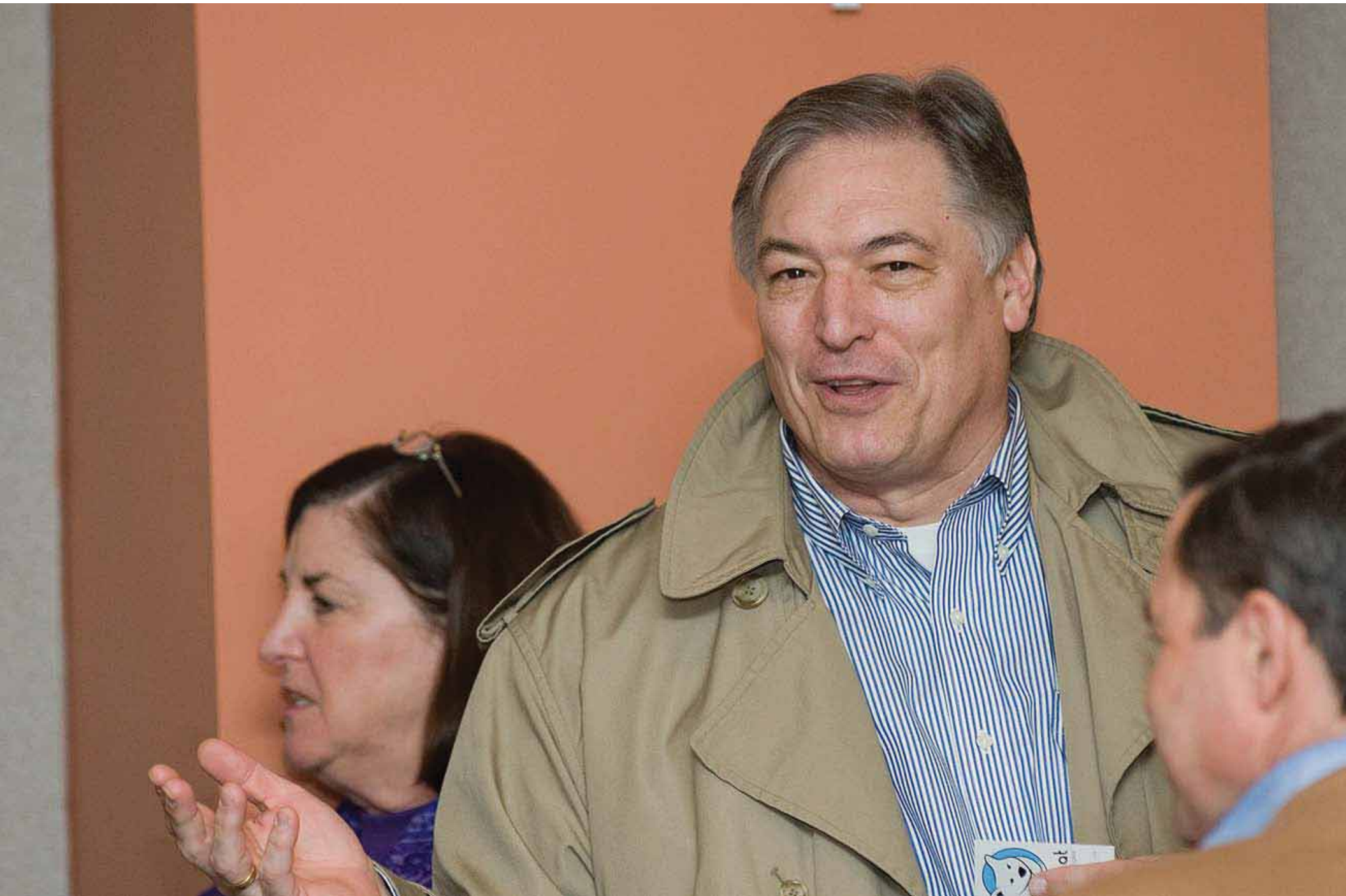
















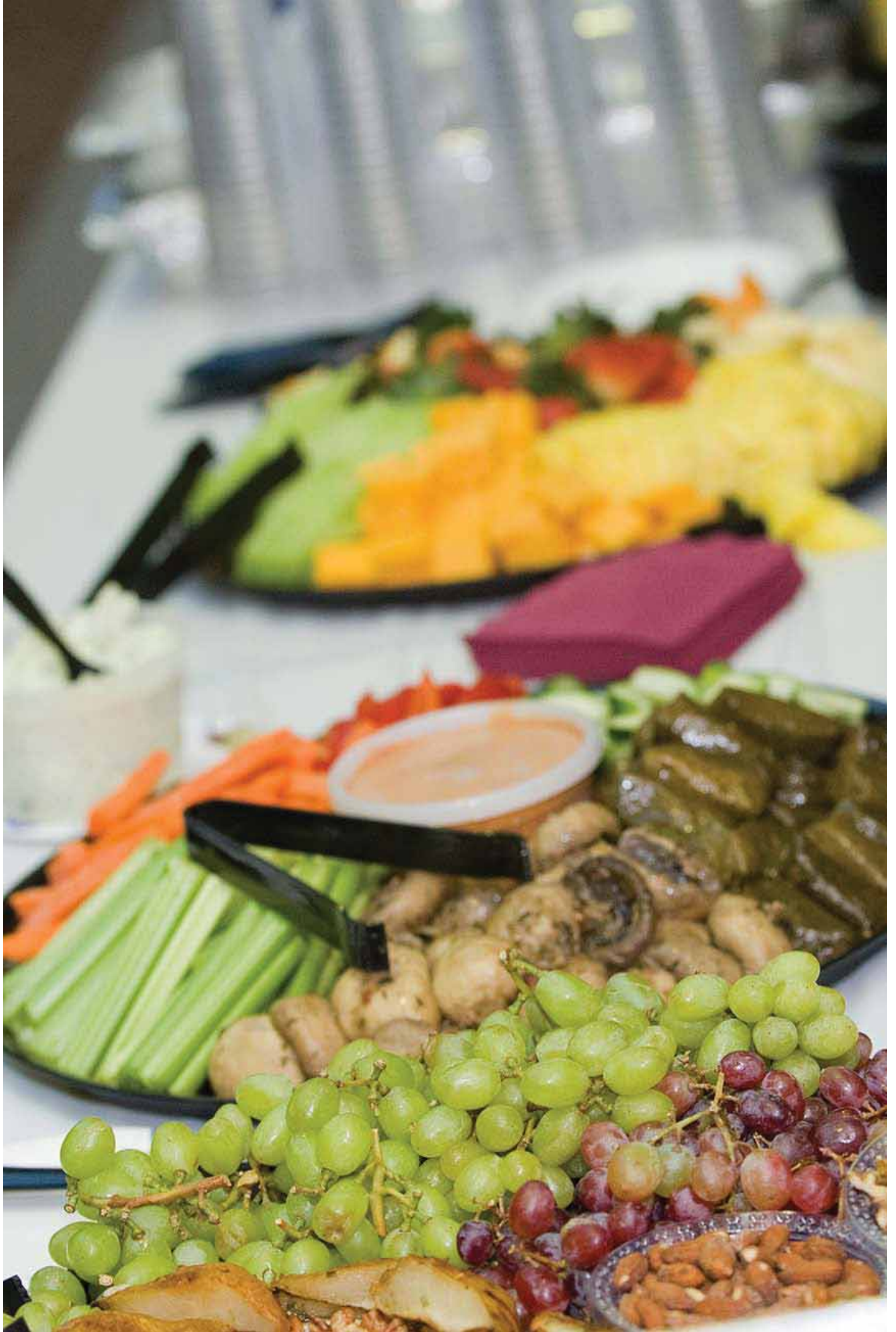




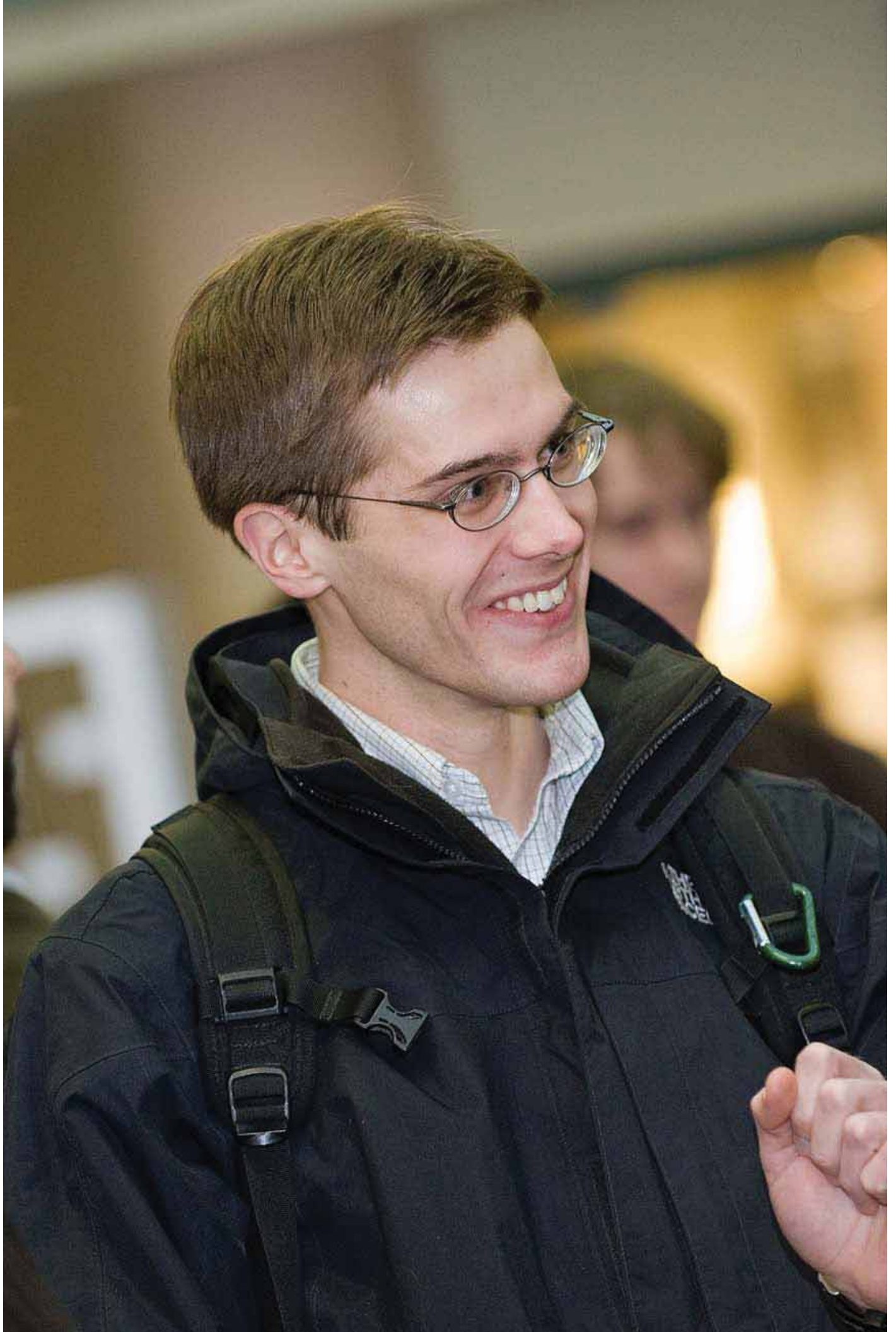








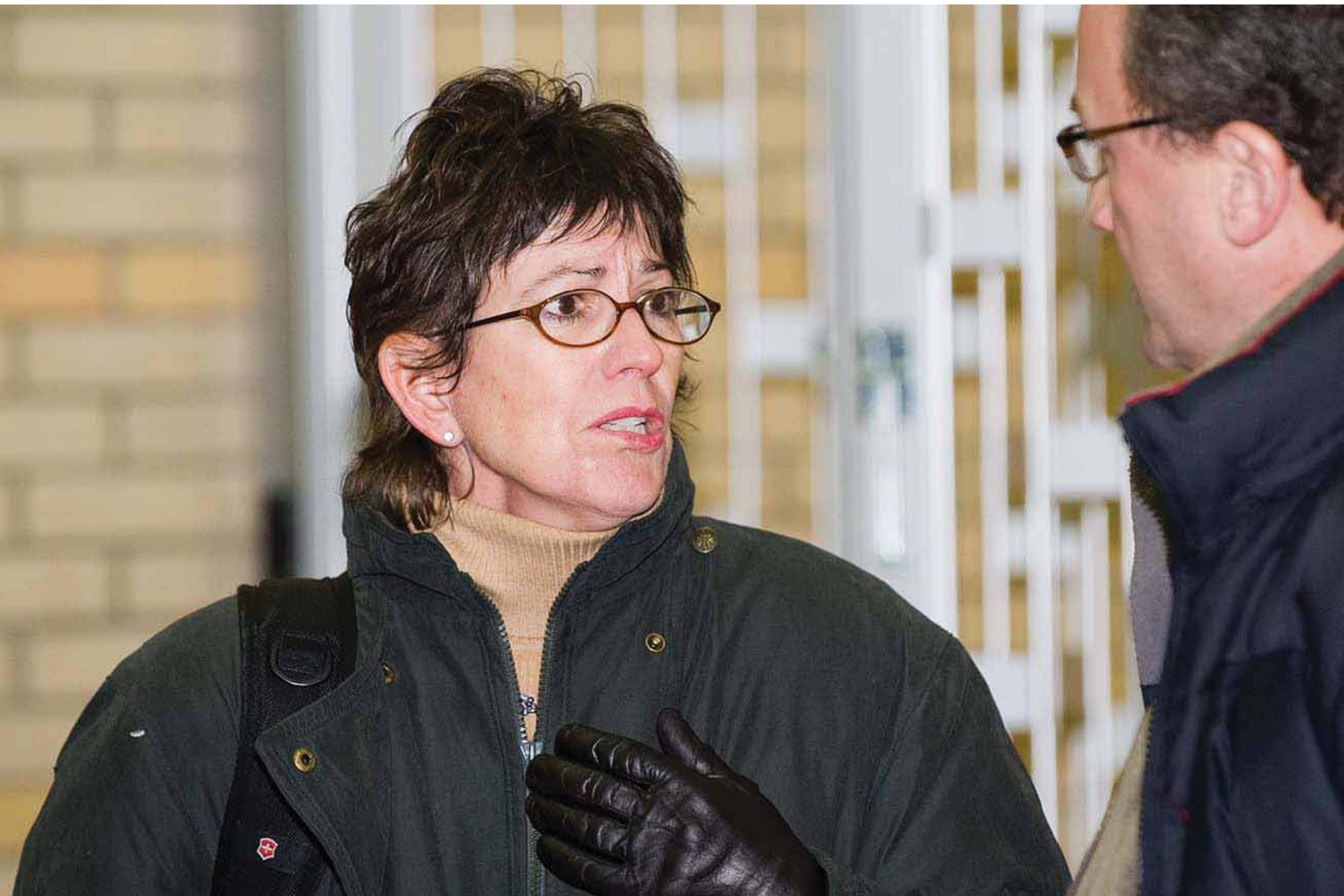






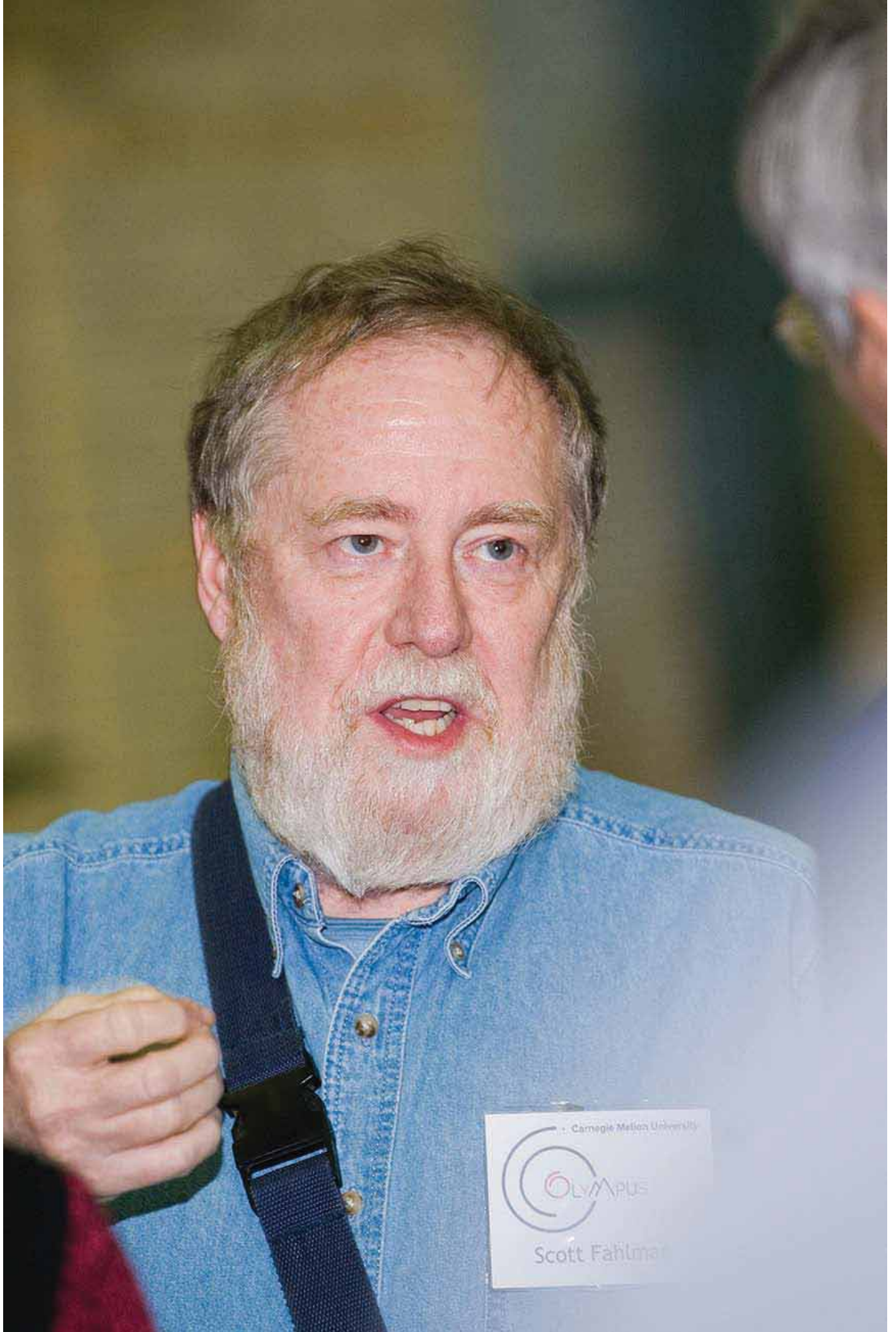


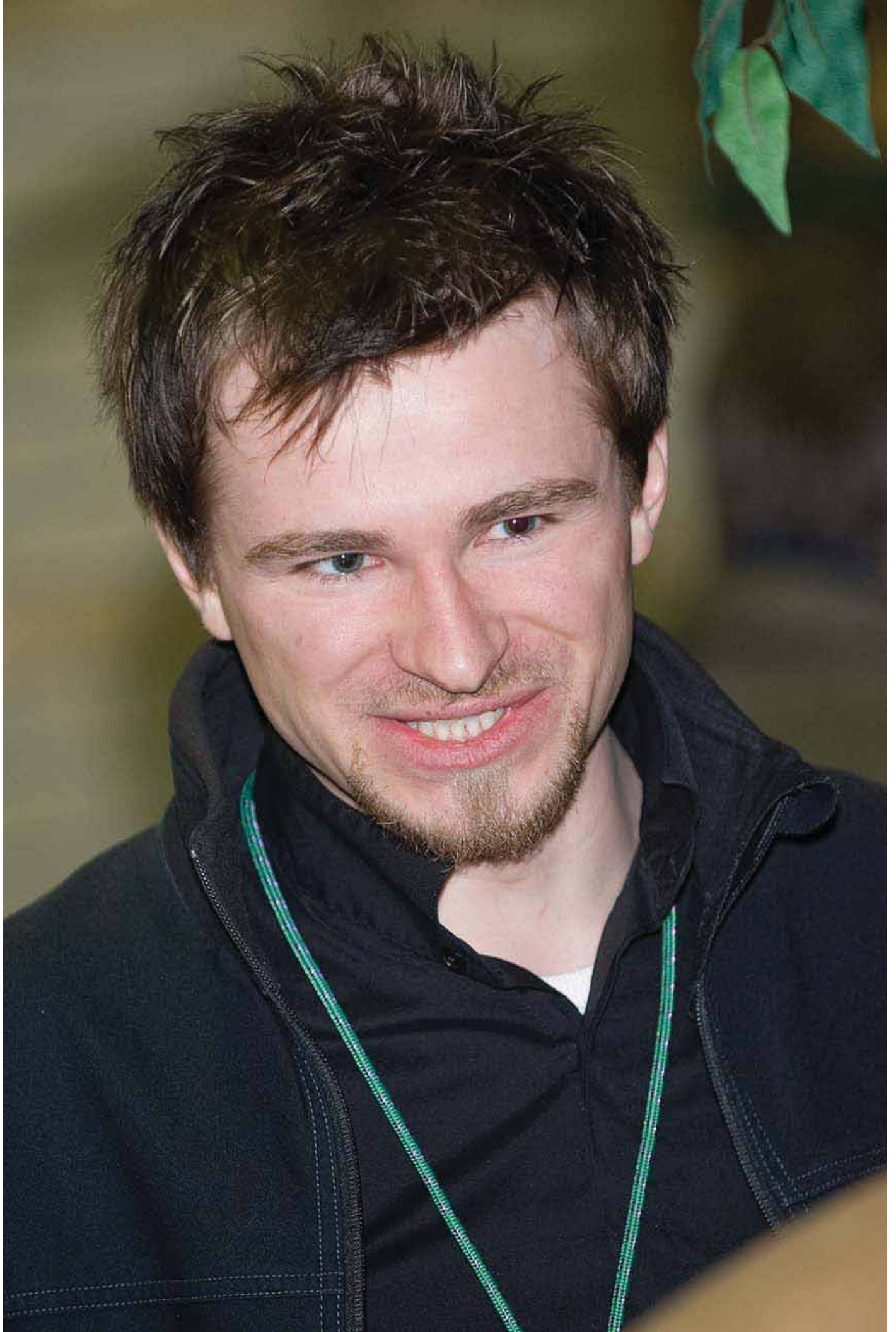








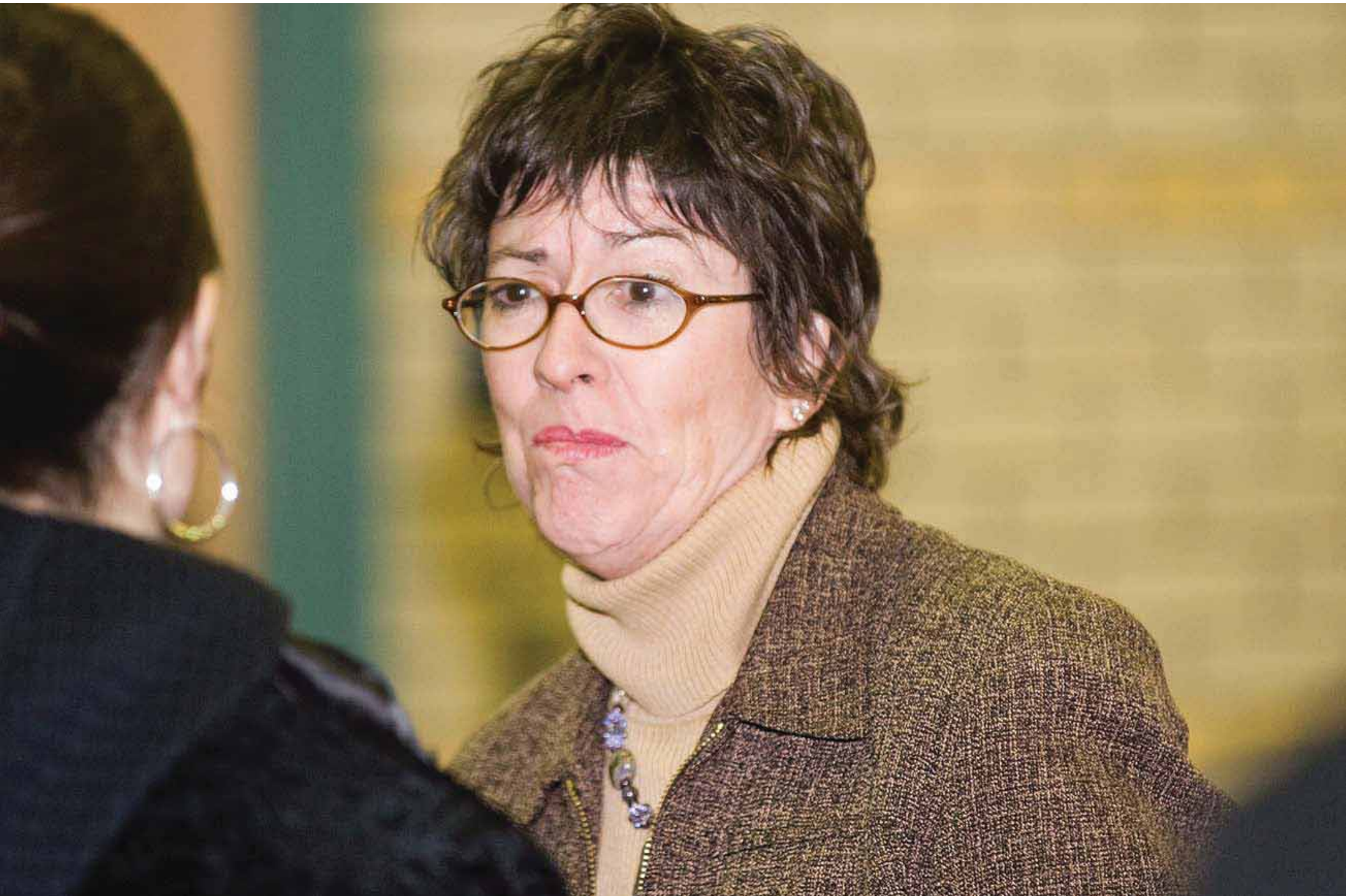




















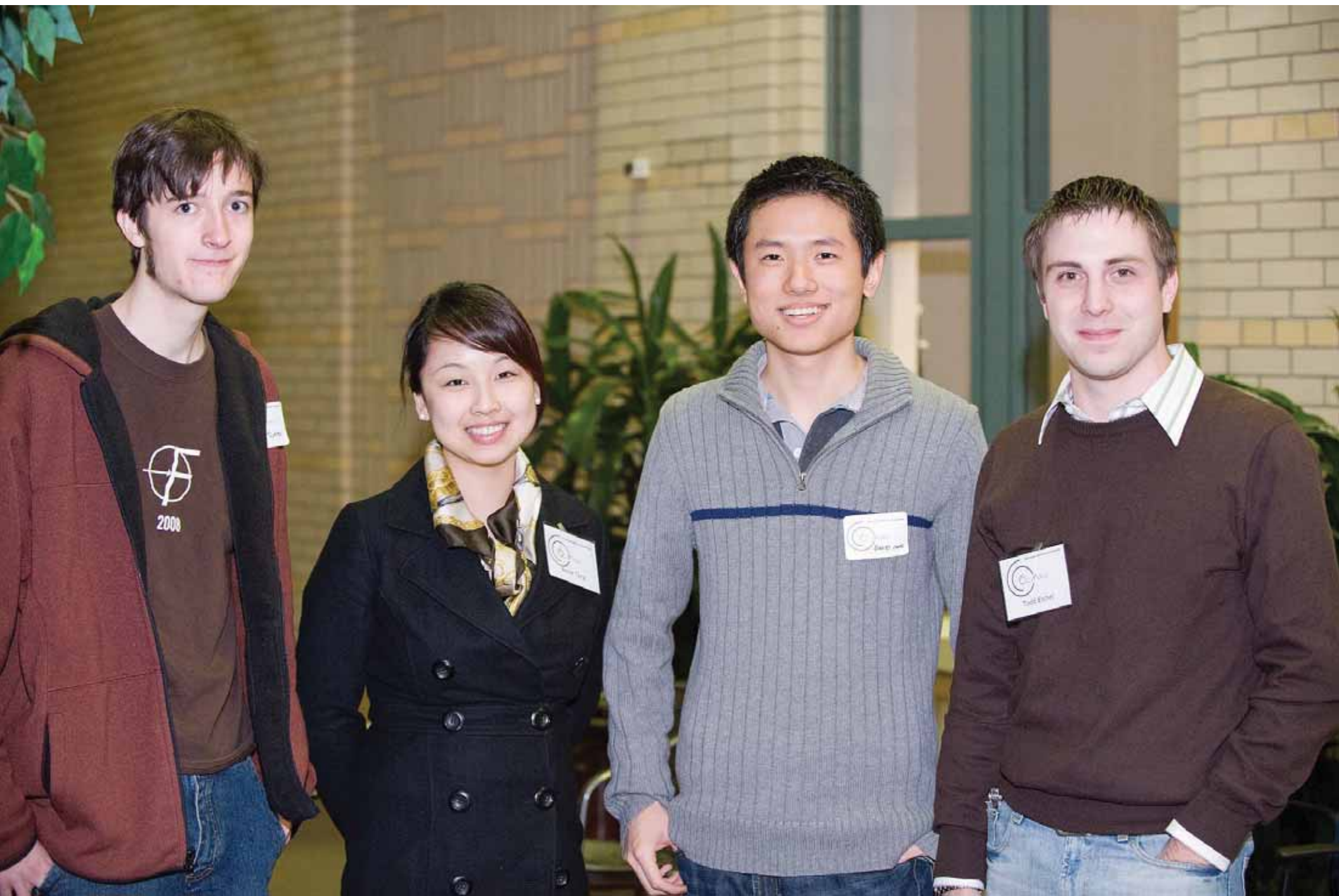




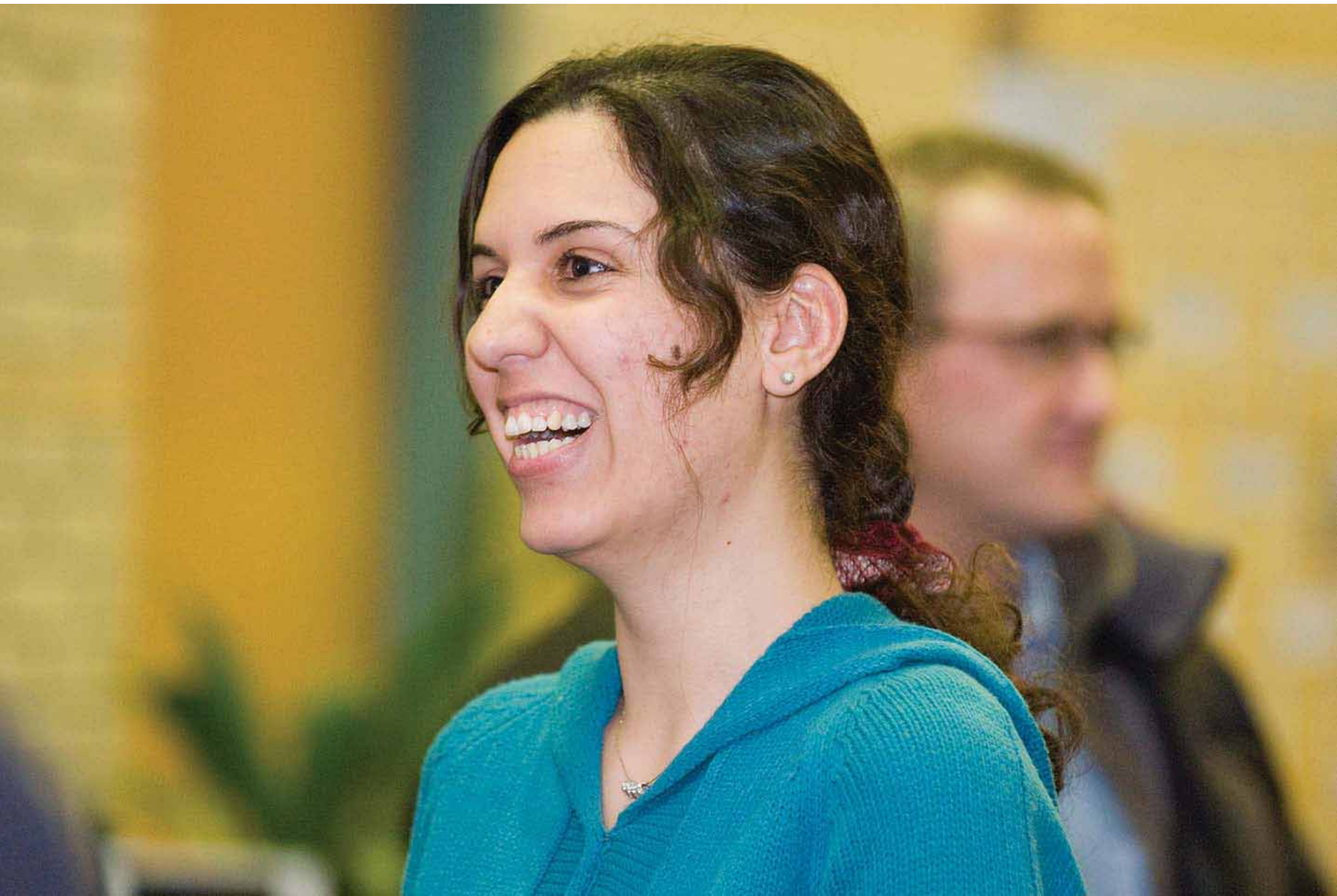




























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OLYMPUS is a **HUB**

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

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