FUTURE VISIONS 2020

ISTeC
Friday, April 24, 2015
1:00 - 4:30 p.m.
Lory Student Center Theater

Colorado State University
MORGAN LIBRARY

Inspiring Innovators

Intel is a proud supporter of science, technology, engineering and math education and Colorado State University's Information Science & Technology Center.

The Future of Mobility, Intelligence Augmentation, Motion Media, Wearable Computers, Big Data and Climate Change, Transmedia, Gamification, and the Internet of Things

Agenda

1:10-1:20   LSC Theater
Welcome
Dr. Patrick Burns, Vice President for Information Technology and Dean of Libraries

1:20-2:00   **Opening Keynote Session**
Phil McKinney
The Next Exponential Technologies

2:00-2:30   **Session 1**
Amy Prieto
Exploring the Future of Access to Information and the Requirement for Portable Power

2:30-3:00   **Session 2**
Clive Thompson
A conversation on The Future of Human Intelligence Augmentation (via teleconference from New York)

3:00-3:15   Coffee and Stretch Break

3:15-3:45   **Session 3**
Nezette Rydell
The Future of Big Data and Climate Change

3:45-4:15   **Session 4**
Anders Gronstedt
The Future of Transmedia Storytelling, Gamification and Virtual Reality

4:15-4:55   **Closing Keynote Session**
Tara Bunch
The Future of Social Web

4:55-5:00   Closing comments, Dr. Patrick Burns

5:00-5:45   Student-Faculty-Speaker Dessert Reception
Theater lobby

ISTeC   The fifth biennial ISTeC FutureVisions Symposium is an exciting free conference on the near future (2015-2020) of Information and Communication Technology for students, faculty, government officials, and industry professionals.

Speakers

Phil McKinney
President and CEO

The Next Exponential Technologies

Phil McKinney is President and CEO of CableLabs.

In this capacity he heads the research and development organization responsible for charting the cable industry's technology and innovation roadmap.

Prior to joining CableLabs, he was the vice president and chief technology officer of the $40 billion (FY12) Personal Systems Group at HP. He was responsible for long-range strategic planning, research and development (R&D) and product roadmaps for the company's PC product lines, including mobile devices, notebooks, desktops and workstations. In addition, McKinney was founder and leader of HP's Innovation Program Office (IPO). The IPO was chartered to identify, incubate and launch adjacent and fundamentally new technologies, products and services that would become the future growth engines for HP.

Recently (February 2012), Phil released his first book on innovation and personal creativity titled Beyond The Obvious, published by Hyperion. The book is available in hardcover, digital and audio formats. The book will soon be available in Russian, Chinese, Portuguese (Brazil), Korean and Japanese.

His influence on innovation and creativity includes:
- Sharing his expertise in innovation and creativity, free of charge (in an approach he refers to as "paying it forward") through his award winning podcast Killer Innovations™ (available on iTunes). It has been named by CIO Insight as a "must listen" podcast.
- Vanity Fair named him the "The Innovation Guru"
- MSNBC and FOX Business both call him "The Gadget Guy"
- His uncanny ability to predict what's coming next caused him to be dubbed as the "chief seer" by The San Jose Mercury News.
- He was named as one of the "25 Most Influential People in Mobile Tech" by LAPTOP Magazine.
- He is a contributing columnist for Forbes where he writes the column "The Objective" for Forbes.com

McKinney serves on the:
- Advisory Board for Hacking Autism
- Board of Directors for The Computer History Museum
- Executive Board of the Santa Clara County Council for the Boy Scouts of America

Amy Prieto
Associate Professor

Exploring the Future of Access to Information and the Requirement for Portable Power

Dr. Prieto is an Associate Professor in the Department of Chemistry at CSU. In addition to her research in Li-ion batteries, she has active projects developing nanoparticles inks for photovoltaics, light metal nanoparticles for hydrogen storage, and novel nanowire structures. She earned a Ph.D. in Inorganic Chemistry from the University of California, Berkeley, where she was a Cooperative Research Fellow supported by Bell Labs, Lucent Technologies. Her postdoctoral work was performed at Harvard University, where she measured the electronic properties of single molecules and nanoparticles. While at Harvard she was named one of the first L'Oréal USA for Women in Science Fellows. Her academic research has been funded by the American Chemical Society, the Semiconductor Research Corporation, the National Science Foundation (including the NSF CAREER award), the Center for Revolutionary Solar Photoconversion, and the CSU Clean Energy Supercluster.

Prof. Prieto founded Prieto Battery, Inc. in 2009 with the goal of commercializing a novel three dimensional high power density lithium-ion battery made from aqueous based electroplating baths. In 2011 she was named the ExxonMobil Solid State Chemistry Faculty Fellow (and ACS award), a Presidential Early Career Awardee for Scientists and Engineers (PECASE) and won the Excellence in Storage Technology Commercialization Award from the Colorado Cleantech Industry Association. In 2012 she was awarded the Margaret B. Hazaleus Award at Colorado State University in recognition of her mentoring efforts.

Clive Thompson
Writer

A conversation on The Future of Human Intelligence Augmentation (via teleconference from New York)

Clive Thompson is one of the most prominent technology writers in the field today, and is respected for composing deeply-reported, long-form magazine stories that go beyond headlines to harness the insights of science, literature, history, and philosophy. He is a longtime contributing writer for *The New York Times Magazine* and a columnist for *Wired*, for which he specializes in writing not merely on the inventors of technologies, but about how everyday people use them – often quite unpredictably. Thompson is one of the longest-running bloggers, having launched his science-and-tech blog Collision Detection, and is the author of the book *Smarter Than You Think: How Technology is Changing Our Minds for the Better.*

Nezette Rydell
Meteorologist in Charge at National Weather Service

The Future of Big Data and Human-Generated Weather Forecasts

Nezette Rydell is the Meteorologist-in-Charge at the National Weather Service Forecast Office in Boulder, Colorado. She leads the office of 23 meteorologists and support staff serving northeast and north central Colorado as well as the Center Weather Service Unit at the FAA Air Route Traffic Control Center in Longmont.

Nezette holds a Bachelor of Science Degree in Meteorology from Texas A&M University and a Masters in Computer Information Systems from Nova Southeastern University. Nezette is involved with education and mitigation efforts for weather

hazards and works closely with state and county emergency planners and responders in the areas of weather threats, tropical cyclone impacts, fire weather support and multi-cultural messaging in warning and preparedness.

Anders Gronstedt
President

The Future of Transmedia Storytelling, Gamification and Virtual Reality

Anders Gronstedt, Ph.D. [http://en.wikipedia.org/wiki/Anders_Gronstedt] is the president of Colorado-based Gronstedt Group, which helps global companies like Google, Intuit, GE, United Healthcare, Deloitte, Dell, Avaya, American Eagle Outfitters, Microsoft, Kimberly-Clark, and government clients like the Federal Department of Transportation and the City of New York improve performance with innovative learning and communication approaches, including next-generation digital simulations, gaming, transmedia storytelling, and immersive 3D virtual worlds. He is a former faculty member of the CU Boulder School of Journalism and his articles have appeared in the Harvard Business Review.

Tara Bunch
Vice President of AppleCare

The Future of Social Web

Tara Bunch is vice president of AppleCare, Apple's world-class technical support and repair organization. She joined Apple in 2012.

Tara and her team are responsible for delivering the best customer support and repair experiences for customers world wide, and AppleCare consistently leads the industry in customer satisfaction. AppleCare ensures repairs delivered through Apple and through the thousands of authorized service providers around the world meet the highest standards of quality. The technical support delivered through AppleCare advisors and online content reaches billions of customers in over 30 languages, helping ensure an amazing experience with Apple products long after the customer first opens their box.

Before joining Apple Tara was a senior vice president at Hewlett Packard, leading the Global Customer Service and Support Operations. In her 20+ years at HP, Tara worked in various roles that honed both her technical skills and her passion for delighting customers.

Tara graduated from the University of California, Berkeley, where she earned a bachelor's degree in Mechanical Engineering. She later earned an MBA at the University of Santa Clara.

Notes

The FutureVisions 2020 Symposium

Information Science and Technology Center (ISTeC) Executive Committee:

Patrick Burns, Vice President for Information Technology
Edwin Chong, ISTeC Director
Anura Jayasumana, ISTeC Associate Director
Candace Ryder, Education Advisory Committee Co-Chair
Steven Fassnacht, Education Advisory Committee Co-Chair
Dawn Bastian Pascal, Research Advisory Committee Co-Chair
Sudipto Ghosh, Research Advisory Committee Co-Chair

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Steve Weiss, JMC, director of RAM Productions (video recording)

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FutureVisions 2020 Morgan Library support

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Greg Vogl, I.T. and website support
Kate Jeracki, publicity and promotion
Beth Wetzel, logistics

FutureVisions 2020 Lory Student Center support

Bruce Freestone, event coordination
Jason Rogien, audio-visual services
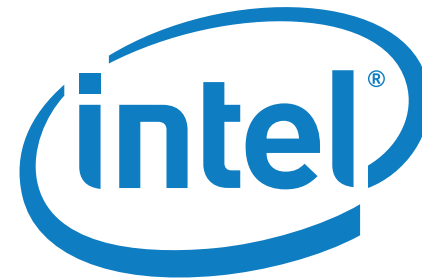Andrew Cundiff, luncheon and session catering

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Congratulations to the Class of 2015, and congratulations to ISTeC on the 5th biennial FutureVisions Symposium!

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"The best way to predict the future is to invent it."

– computer scientist Alan Kay

Congratulations to

Colorado State University's Class of 2015

from the Department of Journalism and Media Communication

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