2015 Advisory Board
Computer Science Department

March 27, 2015
Agenda

• 8:30 a.m.    Continental Breakfast
• 9:00 a.m.    College of Engineering Update
• 10:00 a.m.   Department Update
• 11:00 a.m.   ABET Outcomes and Objectives
• Noon        Lunch with CS Majors
• 1:00 p.m.    Lunch Feedback
• 1:30 p.m.    School of Computing
• 2:00 p.m.    NCWIT Brainstorming
• 2:30 p.m.    Software Factory plus tour
• 3:00 p.m.    Closing Discussion

• 7:30 p.m.    Dutch-Treat Social at Plonk (Optional)
Department Update

- 10:00 a.m.
Student Snapshot

- 303 B.S. (159 in 2009, 324 in 2000)
- 18 post-bacc (3 in 2009, 31 in 2000)
- 24 M.S. (24 in ‘09, 38 in ‘00)
- 26 Ph.D. (18 in ‘09, 0 in ‘00)

Student Snapshot

• AY 2013-2014 Graduation Numbers
  – 42 B.S. / 8 M.S. / 2 Ph.D.

• AY 2012-2013
  – 20 B.S. / 9 M.S. / 0 Ph.D.
Faculty and Staff Snapshot

- 8 tenure-track faculty (Rocky retiring)
- 2 non-tenure track faculty (Hunter, Patrick)
- 1 part-time researcher (Rick)
- 1 administrative associate (Kathy)
- 1 system administrator (Scott)
- 1 demand coordinator / advisor (Sharlyn)
- 1 part-time accountant (Shelley)
Funded Research

$1000s

FY 07  FY 08  FY 09  FY 10  FY 11  FY 12  FY 13  FY 14

$1000s
Gianforte Foundation $1M Gift

• $500,000 to support start-up packages for new faculty
  – Leverage provides CS with 1 new faculty line

• $500,000 to support the Asbjornson Innovation Center
  – Additional space for CS when NAIC opens
New Faculty

- Upulee Kanewala
- Ph.D. from Colorado State University
- Software Testing
- Fall 2015 start
New Faculty

- Brittany Fasy
- Ph.D. from Duke University
- Tulane post-doc
- Computational Topology, Statistics
- Fall 2015 start
New Faculty

- Dave Millman
- Ph.D. from University of North Carolina
- ProductionPro in NYC
- Scientific Computing, Computational Geometry, Systems
- Fall 2016 start
Demand Generation Update
Robotics Outreach

- Presenter: Hunter Lloyd
- Support: Sharlyn Gunderson-Izurieta
- Presentations: 52
- Students reached: 6543
Bozeman High Course

- Instructor: John Paxton
- Co-Instructor: Kerri Cobb
- Students: 25 (16 for dual enrollment)
- Title: Joy and Beauty of Computing
2014 MSSE Course

- Instructor: Hunter Lloyd
- Participants: 13 (10 from Montana)

- Title: Computer Science in the Classroom: Computational Thinking for Teachers
2014-2015 JBC Growth

- Anaconda High: 17 students
- Belgrade High: 60 students
- Big Sky High: 5 students
- Bozeman High: 97 students
- Montana Digital Academy: 48 students
Student Trips

• Motivation
  – Build community
  – Attract, retain and graduate more students
2014 Study Abroad

• Hochschule Ravensburg-Weingarten
• 13 MSU students, 10 HRW students
• May/June
2015 ACM Tech Road Trip

- Spring Break
- Boise and Bay Area
- 6 CS majors
- Micron, Cradlepoint
- Lyft, Dropbox
- Sega, Mesosphere
- Google, SmartThings, YouTube
2014 Grace Hopper

- Phoenix in October
- 13 female CS students
- 1 male CS student
- Jessi Smith and John Paxton
- Bronze Level Sponsor
2015 Grace Hopper

- Houston in October
- Goal: Send all second year CS women
- Goal: Gold level academic sponsor
- Interest: 17 students

- Student Sponsorship: $1050 to sponsor flight, shared room and registration
Outcomes and Objectives

• 11:00 a.m. - noon
Lunch with CS Majors

- Ashley Bertrand, Sophomore
- Tabetha Boushey, Senior
- Connor Danelson, Senior
- Courtney Linder, First Year
- MacKenzie O’Bleness, Sophomore
- Kelsey O’Keefe, Senior
- Kincade Pavich, First Year
- Miles Sorlie, Junior
Lunch Feedback

• 1:00 p.m.
School of Computing

• 1:30 p.m.
BOR Arguments

• Name change for CS
• Promotes interdisciplinary research
  – More computational collaborators
• Enables future interdisciplinary degrees
  – E.g. B.A. in Computer Science
  – E.g. Big Data certificate
  – E.g. better promote CS minor
BOR Arguments

- Attracts more students
- Serves industry
- Assists with economic development
- What else?

- Need 3-4 letters of support from industry.
  - Montana High Tech Business Alliance, Oracle, Workiva and Zoot?
NCWIT Brainstorming

• 2:00 p.m.
Culture Change Initiatives

- NCWIT mini-grant for 2015-2016
- Room remodels: 254, 259, 344
- Faculty composition
- Student trips (such as Grace Hopper)
- Proactive advising
- High school outreach
Culture Change Ideas

- Curricular initiatives?
- Faculty/student events?
- Student mentor/mentee program?
- First year student groups?
Software Factory

- 2:30 p.m.
Closing Discussion

• 3:00 p.m.
Social at Plonk

- 7:30 p.m.