

CSU ISteC IAC (Industrial Advisory Council) Fall 2011 Retreat
Thursday, November 3, 2011, 11 a.m. to 4:15 p.m.

Hosted by Intel in Fort Collins (location and check-in details will be sent later)

Retreat Agenda

1. **Retreat Check-in** (11:00 – 11:15 a.m.)
2. **Lunch Distribution** (11:15 – 11:30 a.m.)
3. **Host Welcome** – Don Soltis, Intel (11:30 – 11:35 a.m.)
4. **Introduction of Attendees** – All (11:35 – 11:50 a.m.)
Who you are, what your company does, and what you do for your company.
5. **ISteC High School Day** – Prof. Michael De Miranda, CSU ISteC Education Advisory Committee Member (11:50 - 12:10 p.m.)
The purpose of this annual event held at CSU is to gather about 200 high school students, advisors, and teachers from across Colorado to introduce students to IS&T career paths and educational opportunities at CSU. We do this by providing students with interaction with representatives from Colorado's leading high tech corporations, and IS&T-based demonstrations and contests designed by IAC members and CSU faculty. We will report on this year's event, which was held on October 21. We need IAC feedback on contest efficacy, employee volunteers engaged in contest design, and input for future planning.
(10 minute presentation, 10 minutes for IAC suggestions)
6. **CSU Research Highlight: Embedded Computing Systems** – Prof. Sudeep Pasricha, CSU ISteC Education Advisory Committee Member (12:10 – 12:30 p.m.)
Embedded Computing Systems are at the heart of the post-PC era, driving ubiquitous cyber-physical devices that will usher in ambient intelligence the likes of which we have never seen before. Research in this area involves a foray into computer architecture, CAD and adaptive learning algorithms, and emerging nano-technologies, and impacts a spectrum of computing systems from mobile to warehouse-scale. The talk will: (a) introduce on-going related research at CSU; and (b) seek to identify potential areas of common interest with the IAC companies. Feedback is sought from IAC members on how a more effective and concrete collaboration in this area with industry could be established.
(15 minute presentation, 5 minutes for IAC inputs)
7. **Break and Networking** – 20 minutes (12:30 – 12:50 p.m.)
8. **Host IAC Member Presentation** – Don Soltis, Intel (12:50 – 1:10 p.m.)
Company overview of Intel, focusing on Colorado operations.
(15 minute presentation, 5 minutes for IAC questions)
9. **Front Range Consortium for Computing Research** – Prof. Pat Burns, CSU Vice President for Information Technology (1:10 – 1:25 p.m.)
ISteC represents CSU in the Front Range Consortium for Computing Research (FRCRC) for

sharing high performance computing research and education activities (please see www.frcrc.org). We will report on the “First Annual Front Range High Performance Computing Symposium,” organized by FRCRC and held September 23-24, 2011; discuss plans for our booth at the 2011 Supercomputing Conference; and review other possible future activities. We need to know what the IAC members think such a group should do and how it should be structured, and how IAC companies can participate and benefit.
(5 minute presentation, 10 minutes for IAC inputs)

10. **Joint CSU/Company Projects to Use the ISTEc HPC System** – Prof. H.J. Siegel, CSU ISTEc Director (1:25 – 1:40 p.m.)
ISTeC purchased (with NSF funding) and manages a Cray HPC system with 1,248 cores (please see http://istec.colostate.edu/istec_cray/). We welcome industry collaboration with CSU faculty and students on projects that exploit the computing power provided by this system. Are there collaborative projects involving the HPC system that IAC members would like to explore?
(5 minute presentation, 10 minutes for IAC inputs)
11. **2012 Future Visions Symposium** – Prof. Pete Seel, CSU ISTEc Education Advisory Committee Member (1:40 – 2:00 p.m.)
The biennial ISTEc symposium will be held Thursday, April 12, 2012, at CSU with 26 speakers providing their visions of the future for their respective fields. We will present a list of potential keynote and track session speakers. We request IAC to provide: (a) feedback on the proposed speakers and topics; (b) feedback on the adoption of a TED-like presentation model with 17 minutes allotted for each track speaker; and (c) feedback on CSU student recruiting opportunities for IAC attendees during the speaker’s lunch and the dessert session that will wrap up the symposium.
(10 minute presentation, 10 minutes for IAC inputs)
12. **IAC Member Presentation** – Dave McAllister, IBM (2:00 – 2:20 p.m.)
Company overview of IBM, focusing on Colorado operations.
(15 minute presentation, 5 minutes for IAC questions)
13. **Break and Networking** – 20 minutes (2:20 – 2:40 p.m.)

21st Century Library Report and Collaborative Efforts between Google and CSU Libraries:
This session will have three presentations, followed by an industry panel. This panel discussion will be an opportunity for IAC feedback and recommendations. The Google Liquid Galaxy Display System will be available for demos before the meeting starts, during the two breaks, and after the meeting ends – there will be no hands on demo during the brief presentation.

14. **21st Century Library Report** – David Ramsay, CSU Libraries (2:40 – 2:55 p.m.)
At the same time the CSU Morgan Library is going through a massive physical remodeling, it is also going through a philosophy remodel. The libraries are the “information hub” for the university and the region, and the amount of information is expanding at an unprecedented rate. This philosophy remodeling includes the changing, storing, discovery, accessing, retrieving, collaborating, and consuming of this massive amount of information. We explain some ways the CSU Libraries address these challenges.
(10 minute presentation, 5 minutes for IAC questions)

15. **Collaborative Efforts between Google and CSU Libraries** – Tom Wyman, Google, and David Ramsay, CSU Libraries (2:55 – 3:15 p.m.)
Google and the CSU Libraries are focusing on a truly "Win/ Win/ Win relationship." Google and the CSU Libraries are interested in adding value to each other. This partnership is born out of the fact that both Google and the CSU Libraries have the same parallel goals: organizing information and making it accessible and more useful to our audiences.
(15 minute presentation, 5 minutes for IAC questions)
16. **Google Liquid Galaxy Display System** – Prof. Melinda Laituri, CSU ITeC Research Advisory Committee Member, and Dan Hamp, CSU Academic Computing and Network Services (3:15 – 3:35 p.m.)
Developed by Google's volunteer engineers, Google Liquid Galaxy provides an immersive Google Earth experience. Step inside a chamber of monitors around you, and fly anywhere in the world in seconds. Mountains, buildings, valleys, the ocean floor, even the Moon and Mars fill your peripheral vision. Google has partnered with the CSU Libraries and other groups at CSU to incorporate spatial data like you have never experienced it before.
(15 minute presentation, 5 minutes for IAC questions)
17. **Industry Panel: 21st Century Libraries and Models for CSU/IAC Collaboration**
(3:35 – 4:05 p.m.)
Panelists: Esther Worker, ESRI; Su Hawk, Colorado Technology Association; Don Dulchinos, CableLabs
Panel Questions:
- From the IAC's perspective, what technologies should the CSU Libraries be investigating and what groups and organizations should the CSU Libraries be connecting with to help meet this "information hub" challenge?
 - What other spatial data applications and groups could benefit from Google Earth and Google Liquid Galaxy and who should CSU and Google engage with at those groups?
 - How could other members of the IAC collaborate with Google and the CSU Libraries to make this relationship even more beneficial to all?
 - What has made this Google and CSU relationship work well and how could other groups at CSU and IAC learn from this relation?
 - What are other areas and ways for IAC/CSU Libraries collaboration?
 - What are other areas and ways for IAC/CSU collaboration in general?
- (5 minutes for each of three panelists, 15 minutes for general IAC discussion)
18. **Ideas/Suggestions from IAC about New IAC Member Companies** – Prof. H. J. Siegel, CSU ITeC Director (4:05 – 4:10 p.m.)
We would like IAC suggestions for companies we may want to add to the IAC.
(5 minutes for IAC suggestions)
19. **Spring 2012 IAC Retreat Agenda Ideas** – Prof. H. J. Siegel, CSU ITeC Director (4:10 – 4:15 p.m.)
Suggestions for agenda items for our next ITeC IAC retreat.
(5 minutes for IAC suggestions)