

**CSU ISTeC IAC (Industrial Advisory Council) Spring 2011 Retreat**  
**Wednesday, April 27, 2011, 11 a.m. to 4:15 p.m.**  
Hosted by Level3 in Broomfield (location and check-in details will be sent later)

## **Retreat Agenda**

1. **Retreat Check-in** (11:00 – 11:10 a.m.)
2. **Lunch Distribution** (11:10 – 11:25 a.m.)
3. **Host Welcome** – Mike Dalke, Level3 (11:25 – 11:30 a.m.)
4. **Introduction of Attendees** – All (11:30 – 11:45 a.m.)  
Who you are, what your company does, and what you do for your company.
5. **CSU Research Highlight: Smart Grid** – Prof. Sid Suryanarayanan, ISTeC RAC Member (11:45 – 12:05 p.m.)  
The Smart Grid represents an interface of the electricity grid with information exchange and cognizance-based actions. Aspects of computer science, controls, and communication are inherent to the evolution of this concept. The talk will: (a) introduce such on-going related research at CSU; and (b) seek to identify potential areas of common interest with the IAC companies.  
(15 minute presentation, 5 minutes for IAC inputs)
6. **IAC Speakers at CSU Classes** – Prof. Steven Fassnacht, ISTeC EAC Co-Chair (12:05 – 12:20 p.m.)  
To further build the linkage between the IAC and CSU, we want to give interested IAC company members the opportunity to speak at specific classes at CSU to bring the IAC into the classroom for a guest lecture. We are developing a list of classes and topics that will be presented. During today's retreat, interested IAC members are asked to speak with Steven to find a topic that they would like to come to CSU to speak about in a class.  
(10 minute presentation, 5 minutes for IAC inputs)
7. **Undergraduate Scholarship** – Prof. David Gilkey, ISTeC EAC Member (12:20 – 12:35 p.m.)  
CSIA and ISTeC started the "Inspire to Innovate" undergraduate scholarship for Colorado freshmen to encourage outstanding students to come to CSU in IS&T programs. If this is going to continue, we need to make this an ISTeC IAC endowment fund. We have received \$4,000 and are seeking IAC advice on the best way to raise matching funds.  
(10 minute presentation, 5 minutes for IAC inputs)
8. **Break and Networking** – 20 minutes (12:35 – 12:55 p.m.)
9. **Host IAC Member Presentation** – Mike Dalke, Level3 (12:55 – 1:15 p.m.)  
Company overview of Level3, focusing on Colorado operations.  
(15 minute presentation, 5 minutes for IAC questions)

10. **2012 FutureVisions Symposium** – Prof. Pete Seel, ISTE C EAC Member (1:15 – 1:35)  
The objective of this biennial ISTE C symposium, to be held April 6, 2012, at CSU, is to provide a look into the future (2012-2017) of computing and communications to give CSU students and other conference attendees a better understanding of cutting-edge and high growth areas. We will present a list of potential track topics and keynote speakers with feedback from a student survey. Request to IAC for: (a) suggestions for speakers from their companies, (b) ideas for topics, (c) volunteers to serve on symposium organizing committee.  
(10 minute presentation, 10 minutes for IAC inputs)
11. **ISTeC Information Science and Technology Undergraduate Course** - Prof. Steven Fassnacht, ISTE C EAC Co-Chair, and Prof. Ross Beveridge, ISTE C EAC Member (1:35 – 1:55 p.m.)  
We will present our study of the offerings and commonality among three existing freshman level “Introduction to Computing” courses. We feel strongly that such a course be required by all CSU students. We are soliciting feedback from the IAC about the topics and the necessity to have all CSU students have proficiency in these topics. We are seeking industry endorsement that such a requirement is necessary.  
(10 minute presentation, 10 minutes for IAC inputs)
12. **High School Day** – Prof. Michael De Miranda, CSU (1:55 – 2:15 p.m.)  
A brief report on the 2010 Information Science and Technology High School Day will be discussed including recommendations and future planning. 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 by providing students with interaction with representatives from Colorado’s leading high tech corporations, and IS&T-based demonstrations and contests devised by CSU faculty. We need IAC input on how to improve the event and how to best get the involvement of their companies for attracting the best students to the IS&T Colorado workforce.  
(10 minute presentation, 10 minutes for IAC suggestions)
13. **Break and Networking** – 20 minutes (2:15 – 2:35 p.m.)
14. **IAC Member Presentation** – Steve Narciso, Agilent (2:35 – 2:50 p.m.)  
Company overview of Agilent, focusing on Colorado operations.  
(15 minute presentation, 5 minutes for IAC questions)
15. **Front Range Computing Research Consortium** – Prof. Pat Burns, CSU Vice President for Information Technology (2:50 – 3:10 p.m.)  
ISTeC is part of this multi-institution consortium for the use of high performance computing, which focuses on advanced HPC architectures, algorithms, and applications. We will describe our current activities, including a multi-institution summer symposium and student research poster contest, and a booth at the 2011 Supercomputing Conference. 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.  
(10 minute presentation, 10 minutes for IAC inputs)

**IS&T Education and Career YouTube Video Project: Industry & CSU Partnering to Broaden Participation in IS&T Careers.** Internet media tools provide a readily accessible set of resources to reach a broad “connected” audience. During our fall IAC retreat, we agreed to produce a set of brief videos that highlight educational and career opportunities in IS&T by bringing the field to life for the next generation of IS&T professionals. This session will present our status, followed by an industry panel. This panel discussion will highlight how industry volunteers can contribute to the video content and production. Topics and contexts of the future videos will be discussed along with IAC feedback and recommendations.

16. **Pilot Video** – Prof. Michael De Miranda, ISTeC EAC Member (3:10 – 3:20 p.m.)  
We will show our brief pilot video on GPS-GIS. It includes two IAC members, two faculty members, and a recent CSU graduate. This is part of the input for our industry panel to follow. (5 minute presentation, 5 minutes for IAC questions)
17. **Production of the ISTeC Videos** – Prof. Pete Seel, ISTeC EAC Member (3:20 – 3:30)  
We will explain the methodology and structure used to produce the ISTeC videos with a student production crew. This is additional input for the panel to follow. (5 minute presentation, 5 minutes for IAC questions)
18. **Industry Panel: ISTeC and Industry YouTube Videos – Collaboration and Strategic Volunteering to Impact the Future** (3:30 – 4:00 p.m.)  
**Panelists:** Jay Smith, DigitalGlobe (Moderator); Esther Worker, ESRI; Brad Fross, Xilinx.  
**Panel Questions:**  
What is your feedback on the content, length, and structure of the videos: too long, too short, just right? What are the ideal ages and grades to pitch these to? How do we capture what we do in computing and communications? What topics do we need to consider? What industry sites should we shoot at your workplace in action? How can we capture the “wow” part of our industry? What ideas do you have to make these inventive videos go viral on the Web? How do we get industry participation in the videos?  
(5 minutes for each of three panelists, 15 minutes for general IAC discussion)
19. **Ideas/Suggestions from IAC about New IAC member Companies** – Prof. H. J. Siegel, ISTeC Director (4:00 – 4:10 p.m.)  
We would like IAC suggestions for companies we may want to add to the IAC. (10 minutes for IAC suggestions)
20. **Fall 2011 IAC Retreat Agenda Ideas** – Prof. H. J. Siegel, ISTeC Director (4:10 – 4:15 p.m.)  
Suggestions for agenda items for our next ISTeC IAC retreat. (5 minutes for IAC suggestions)