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#### BEGIN TRANSCRIPTION

[00:00 - 00:34] Jeff: Okay, in order to keep us moving forward at a good pace, we're going to move into the next segment. I want to introduce H. J. Siegel, who is the Abel Distinguished Professor for Electrical and Computer Engineering here at Colorado State University. He is also the director for the organization that is called ISTE C. And again, we're going to provide an overview of what ISTE C is, the role that it plays here at CSU. Um, as an example of the kinds of collaborative organizations that are helping explore these issues and move them forward. So I will introduce H. J. and let him go forward.

[00:35 - 00:51] H. J. Siegel: Thank you, Jeff. On behalf of ISTE C, I'd like to thank everybody for coming today. It's great to see such a big turnout. And I'd like to also, on behalf of ISTE C, thank Jeff for the great job he did pulling us all together.

[00:52 - 00:53] Jeff: No, thank you.

[00:56 - 02:54] H. J. Siegel: And I don't know how many of you know Alan, but be sure to ask Alan why he's wearing an engineer hat later. So you'll, okay, [laughter] so I'll tell you a little bit about ISTE C. ISTE C is our information science and technology center here at CSU. I'll give you a very brief overview within these 15 minutes here. Talk about some sample activities and our website. Just [istec.colostate.edu](http://istec.colostate.edu). There is a lot more information. Uh, so let's see. ISTE C is a university wide organization and you know that's the key and, and the reason I was asked to speak here is that we we pull people together from all across the university. Uh, and our goal is to try to improve CSU's information science and technology research, education and outreach. And our first, one of our first

problems was how do you define information science and technologies like defining, you know, cyber infrastructure. So we had a steering committee, uh, for a strategic planning committee, excuse me. And so we defined for our purposes at CSU, we defined ISNT to be pertaining to the design and innovative application of computer communication and information systems. We have two main committees that plan and organize our events: a research advisory committee and an education advisory committee. Each committee is now grown to about 20 faculty, and the key is that within that 20 faculty on each committee, we include representatives of all nine colleges within Colorado State University. So all those colleges are represented. Uh, we also have an industrial advisory council that we work with, and we've got over 35, you know, active companies.

[02:54 - 05:06] H. J. Siegel: These are-, we have meetings with them each semester to get advice on our activities. And we get-, we keep people that show up, uh, organizations that don't participate. We let them drop off and try to get companies that will be actively involved. Uh, this is our little snapshot of our web page. Here's our history. It actually started in January of 2000 and just had a basically a minor in information science and technology. Then in 2001, uh, Tony Frank, our president of CSU, was then the vice president for information-, for Research and information technology. And he put together a strategic planning committee to expand the scope and the activities of ISTeC. And then the plan that this group came up with was approved a year later. And then we spent a semester building our research committees and education committees by going and talking to the deans at the different colleges. And so May of 2003 is when we had our first meetings. And again, the key is, ISTeC is across all the colleges. The ISTeC director reports to the CSU vice president for information technology. So we're not-, you're not underneath any dean. We're trying to bring all the faculty and students together from different colleges, from different departments. So we report just to the VP level. And the VP for information technology is also a member of our ISTeC executive committee, which consists of the co-chairs of the Research committee, co-chairs IT Executive Committee, the director and the VP for IT. And we meet twice a month. So we all are up on what we're doing and, and-, and overseeing all of our activities and plans for future activities. And one of the important functions that ISTeC does is where we act as a liaison with the faculty for the VP IT office. So when the vice president needs to get faculty inputs, to get hold faculty forums, collect data from the faculty he comes to us to to help him and work with him.

[05:07 - 05:56] H. J. Siegel: And for as far as, who's a member of ISTeC, anybody who is involved with information science and technology can consider themselves a member of ISTeC. Our keyword is inclusive. Anybody who wants to join our research or education committee is more than welcome. All of our ISTeC activities are open to the entire campus. To give you some ideas of examples of what our education committee does, the kinds of activities they sponsor. We have a minor in

information science and technology for, uh, for the undergraduates. We help develop a human and computing systems concentration, basically human computer interaction, uh, concentration within the CS department.

[05:58 - 08:09] H. J. Siegel: Oh, sorry. We try to examine how well the students are doing in learning. Uh, information technology fluency. And then from doing surveys and studies, try to suggest ways to incorporate that knowledge into courses as needed. The-, the education committee runs an annual high school day. Uh, this is a big event for us. We bus in 2 to 300 high school kids and counselors from all over the state to try to get them interested in education and careers in information science and technology. We have contests and demos sponsored by all the different colleges in the university, highlighting the types of ISNT activities they do. We ask our Industrial Advisory Council to co-sponsor this event and have them at these different contests and demos so the kids can hear graduate students saying, hey, you know, here's what we do with these fun robots and how I ended up here, and then have a company person say, and here's the kinds of activities we do at our company. And the students can ask questions. Usually, usually the first two questions they ask the people from the companies are: What kind of car do you drive and how much money do you make? [Audience laughs] Uh, we-, every other year we hold a Future Vision symposium. It's a one day conference where we bring in speakers from industry and academia to talk about what they envision as maybe the next five years of ISNT, what's coming down the road. And it's aimed at our undergraduates to see what world we'll be going into. But it's widely attended by our undergraduates, grads and faculty. Typically, at some of the big keynotes, we'd have like as many as 500 people. We're working with the local school district in our bridges program to get collaborations between K through 12 teachers and CSU faculty in developing ISNT related curriculum. We've done this very successfully already for the sixth grade, and we're working on other grades in middle school.

[08:09 - 08:55] H. J. Siegel: We also trying to build a scholarship fund for undergraduates in ISNT areas. Our research committee activities include: We have a distinguished lecture series. We have five speakers each semester. And we get, you know, top people in the field, very distinguished people that give two lectures, one that's intellectually accessible to a broad range of people from all different areas, and another that is, uh, you can be more specific. And we usually get very good, you know, attendance at these, you know, 80, 90 people showing up to these seminars. I just realized I forgot to start my timer. So, we'll start my timer now. How am I doing? How much time do I have?

[08:56 - 08:56] Jeff: Four minutes.

[08:56 - 10:13] H. J. Siegel: Four minutes? Thank you. Um, we hold research retreats where we bring together people in, uh, some, we call it application areas and people that are-, that are computing people to try to build synergies for our research activities, for both intellectual stimulation and to enhance the scholarship at the university, as well as to go after external funding. For example: We've brought people together to study the idea of how do you form teams in the future of people, animals and robots to work together in areas like search and rescue. We've met with bioinformatics people. So these-, so these are open meetings where the idea is to build teams and build synergies. Uh, and the nice thing about all-, this aspect in particular, and really all aspects of ISTeC, is people who could have been here at CSU their entire careers, and never met each other, are getting to meet each other. Okay, because they're in different departments, different colleges, and they would never have gotten together. And I really enjoyed it. I've gotten to meet a great group of people, and so these research retreats and our other activities really do a lot to bring people together who otherwise would have never met and never had a chance to stimulate each other and work together.

[10:14 - 12:24] H. J. Siegel: Uh, research workshops are more focused where we have a particular group that's interested in an area and they want to get some additional collaborators. We have a seminar series that we advertise to our Industrial Advisory Council, and invite them to have our people come and speak at their companies, and that's helped get consulting, research, collaborations, etc... With the companies we're studying how faculty work together by looking at data from our contracts office and seeing what the connections are. Uh, we've done a high performance computing study of people's needs and what's available on campus, and we use that to go ahead and ISTeC submitted a proposal to National Science Foundation that got funded. And we're in the process of procuring a high performance computing system that will be available for use for the entire campus. Um, we're-, we are teaching courses about how to use high performance computing system and even trying to bring together students, graduate students in the computing field and graduate students in different applications on projects for those courses. And we just started a PhD scholars program that can help encourage students in the PhD program, where you give them a small monetary reward and get them involved with ISTeC. A new computer science building opened up about a year and a half ago. ISTeC has 10% of the space there, where the, uh, we have a video conferencing rooms, nice study lounge and offices for display researchers, visitors and adjunct faculty. And the administrative offices for ISTeC. Our industrial advisory council we meet with, uh, twice a year to get their impact. I'm sorry, get their, um, input on our activities and to try to build relationships with those companies and our CSU faculty. We invite them to come and hold industry days on campus, because they won't be just meeting with CSP students or just ECE students, but all students from all departments and all colleges who may be interested.

[12:24 - 13:24] H. J. Siegel: So ITeC tries to be sort of one stop shopping for ISNT for the entire campus. We help organize these industry days. I mentioned the coffee with CSU seminar program. We invite those industry folks to come to our distinguished lectures, and we ask them to help donate to support our Future Visions bi annual symposium on our high school day. And they are welcome to use our headquarters facilities. So to conclude, I mentioned some sample activities. We've got active faculty from all nine colleges across the campus who really care about research, education, and outreach in ISNT at CSU. So we've or we've really built an an inter college people infrastructure for So we're not that much a physical infrastructure but much more of a people infrastructure. We work hard to enhance the intellectual environment, reputation and funding at CSU, uh, and help all colleges. And we try to act as a liaison to the faculty for the VP IT office.

[13:25 - 13:25] H. J. Siegel: Thank you.

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