Dr. Peterson
Introduction of Professor Martin Hellman: Georgia Cyber Security Summit
9:30 a.m. Wednesday, Nov. 6, 2013

Welcome to Georgia Tech. Every day you can hear about dozens of stories in the news of those finding ways to take advantage of system vulnerabilities and hack their way into government, business and industry systems. While it was well before my time here, I am proud to say that Georgia Tech recognized the importance of the cybersecurity field early on.

For 15 years, the Georgia Tech Information Security Center has been working to develop technologies and security strategies to enable global cybersecurity solutions, today and in the future. With about 15 faculty members, today it is one of the leading centers in the country, as well as globally. In addition, the GTRI Cyber Technology and Information Security Laboratory has 100 researchers. We are leveraging the cybersecurity expertise across the Institute to define and develop research programs in basic and applied cybersecurity research. Georgia Tech researchers are known as leaders in the field. In addition to groundbreaking research, they have contributed greatly to informing public policy debates at the national and international level. Georgia Tech is one of the few universities that has worked with the World Economic Forum on cyber risk and resilience.

Georgia Tech is proud to have played a key role in creating a strong and vibrant community of entrepreneurs, researchers and investors in the cyber security field. The annual summit is a great way for us to engage with this broader community and learn about the latest developments in the field. As with many of the challenges in life, the best solutions come through collaboration. For more than a decade, we have gathered together some of the nation's thought leaders to develop strategies for cyber security networks and explore potential countermeasures for thwarting cyber threats. We can only imagine the dangerous and costly things that never happened just because people like you were working behind the scenes, quietly developing solutions to threats

that will never make the news. We're glad that you've chosen to join us today, and encourage you to stay connected to Georgia Tech, as we work together to combat emerging cyber threats.

And now it is my pleasure to introduce our guest speaker.

Professor Martin Hellman of Stanford University is best known for his invention, with Diffie and Merkle, of public key cryptography. This technology secures literally trillions of dollars a day in financial transactions, ranging from Internet credit card purchases to electronic banking and foreign exchange.

He has a deep interest in the ethics of technological development and coedited a book, *Breakthrough: Emerging New Thinking*, which was published simultaneously in Russian and English in 1987 during the rapid change in Soviet-American relations. His current work in this area focuses on using quantitative risk analysis to assess the level of risk posed by our current nuclear weapons strategy, and to reduce that risk to a more acceptable level.

Professor Hellman played a key role in the computer privacy debate, and his efforts to overcome ethnic tension within the university have been recognized by three awards from minority student organizations.

His work has been recognized by numerous awards including election to the National Academy of Engineering, the Marconi Fellowship, the Electronic Frontier Foundation's Pioneer Award, and the IEEE's Hamming Medal. He has been inducted into the National Inventor's Hall of Fame, the Cyber Security Hall of Fame, and the Silicon Valley Hall of Fame. In 2012, he was named a Stanford Engineering Hero, an honor so far conferred on only 23 Stanford Engineering alumni and faculty.

Please join me in welcoming Professor Martin Hellman.