• Pleased to welcome GSE to Georgia Tech.

• Natural to build a partnership between GT and GSE.
  o Georgia Tech a pioneer, leader in computer visualization, modeling, simulation.
    ▪ 1980s: GTSTRUDL = computer simulation for civil engineers and architects to test the specs of buildings against the forces of nature. Early research with Emory Medical School – 3-D simulation of heart that drew on large database of medical cases to depict the impact of disease, stress.
    ▪ Graphics, Visualization, Usability Center – celebrating 15th anniversary next month. Areas of research = home and health, arts and entertainment (music, gaming), network security, enabling collaborative work, educational technology
    ▪ Today: widespread use of computer modeling across many disciplines: engineering, sciences, nanoscience and nanomedicine, Imagine Lab in College of Architecture, digital media.
  ▪ GT educational technology
    • All students have computers; curriculum systematically enhanced with technology (e.g., small groups meet in online chatrooms, providing a record of their work.)
    • E-classroom – integrated technology not only enhances presentation of material, but captures the classroom experience for students to access online later. Allows them to engage the subject material rather than focusing on being stenographers who record everything.
    • Global Learning Center – interactive connections to the world.

• GSE Systems also focused on educational technology:
  o Specifically real-time simulation and training programs for energy and chemical processing industries.
  o Goal = better, safer, faster, more cost effective training and education for employees.

• Partnership will benefit both GT and GSE
  o GT has technology that can enrich GSE’s learning environment:
    ▪ Wearable computer with heads-up display and wireless networking to allow instructors to move freely about the classroom
    ▪ Augmented reality, simulation and visualization that enable students to better understand the complexity and interactions of power generation facilities.
  o GT has an opportunity to enhance its own educational experience from partnership with GSE:
- GSE simulation of power generation facility can help mechanical engineering students understand applications of principles of fluid mechanics, thermodynamics, heat transfer.
- GSE will offer co-op assignments, internships to GT students.

- GT – GSE partnership pioneers new model of industry-university collaboration that combines both research and education.

- Pleased to join with you in celebrating launch of GSE Systems Simulation Education and Training Center. Look forward to a successful, productive partnership.