

# The Cross-Boundary Nature of Control, Its Beauty and Power

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### **Special Session for Students**

**Open to all participants of ISIC-MED Conference**

**4:30–8:00 pm, Monday, June 27, 2005**

**Hawaii Grand Hotel & Resort, Limassol, Cyprus**

**Organizer:** IEEE CSS Committee on Control Education  
**Chair:** Bozenna Pasik-Duncan, University of Kansas  
**Co-Chair:** Charalambos D. Charalambous, University of Cyprus

**4:30 p.m.** Welcome

- Bozenna Pasik-Duncan, Chair of the TC on Control Education

**4:40** **Theodore Djaferis** (University of Massachusetts), “The Power of Feedback”

**5:00** **Christos Cassandras** (Boston University), “When Computers Control: Joys and Perils of Automation”

**5:20** **Panos Antsaklis** (University of Notre Dame), “The Quest for Autonomy: From Water Clocks to Autonomous Vehicles”

**5:40** **John Baras**, (University of Maryland) “Teaching System-Level Thinking at the Undergraduate Level: A Proposal for Fundamental Changes in Systems, Control, Communication and Computing Instruction”

**6:00** **Bozenna Pasik-Duncan** (University of Kansas), “Random Walk Around Some Stochastic Control Problems in Telecommunication, Finance and Medicine” (with Dominique Duncan, Ian Lewis and Yannis Zachariou)

**6:20** **Ivan Osorio** (Kansas University Medical Center) and **Mark Frei** (President, Flint Hills Scientific, L.L.C.), “Control of Epileptic Seizures using Brain Stimulation”

**6:40** **Shane Haas** (AlphaSimplex Group, L.L.C., Cambridge, MA) “How to Turn a Single Dollar into Billions”

**7:00** Panel Discussion: Is control international? Do we teach and learn control and its applications the same way in Cyprus as in the US?

Moderator: Bozenna Pasik-Duncan, University of Kansas

Panelists: Session speakers together with students from the US and Cyprus.

**7:40** Farewell

The purpose of the session is to promote an increased awareness among students and teachers of the importance and cross-boundary nature of control and systems technology.