Annual Capstone Design Conference

April 27, 2018
The Hilton UH Hotel & Conference Center
Houston, Texas

7:30 - 7:55 am  Registration, Waldorf Astoria, Ballroom, Lobby

8:15 - 8:20 am  Opening Remarks by Dr. Steven Pei, Flamingo Room

8:20 - 10:00 am  Technical Program – Oral Session A, Flamingo Room

10:05 - 10:30 am  Welcoming Remarks, Classroom 180
  • Dr. Joe Tedesco, Dean, College of Engineering
  • Dr. Suresh Kathor, Associate Dean, College of Engineering
  • Dr. Badri Roysam, Chairman, Electrical and Computer Engineering

10:30 - 10:45 am  Coffee Break, Waldorf Astoria, Ballroom, Lobby

10:45 - 11:45 am  Technical Program – Oral Session B, Flamingo Room

11:50 - 12:45 pm  Lunch, Conrad, Ballroom

12:30 - 1:15 pm  Keynote Presentation, “Lost in Translation: A Tragedy of our Times”,
  Mauro Ferrari, President & CEO, Houston Methodist Research Institute; Director, Institute for Academic Medicine; Executive Vice
  President, Houston Methodist; Senior Associate Dean and Professor of Medicine, Weill Cornell Medical College, New York

1:15 - 2:15 pm  Technical Program – Oral Session C, Flamingo Room

2:15 - 2:30 pm  Coffee Break, Waldorf Astoria, Ballroom, Lobby

2:30 - 3:30 pm  Technical Program – Oral Session D, Flamingo Room

3:30 - 5:30 pm  Technical Program – Poster Session, Waldorf Astoria, Ballroom

4:55 - 5:30 pm  Break for Team Preparation

5:30 - 6:00 pm  Elevator Talks by CDC students, Shamrock, Ballroom

6:00 - 6:30 pm  Awards Ceremony and Reception, Shamrock, Ballroom
CDC 2018 Technical Program

April 27, 2018

Session A: Oral Presentations
Time: 8:20-10:00 am, Flamingo Room
Faculty Chair: Dr. Steven Pei

8:20 – 8:40 am IEEE ROBOTICS COMPETITION I
Tiffany Ang, Blake Heslep, Viraj Patel, and Michael Van Patten

8:40 – 9:00 am IEEE ROBOTICS COMPETITION II
Bhavik Patel, Mayur Patel, Elliot Rohan, and Jacob Rohan

9:00 – 9:20 am IGNITION LOCK (iLOCK)
Enrico Aberin, Kasim Egal, Melvin Rodriguez Zelaya, and Dat Tran

9:20 – 9:40 am TRANSMISSION LINE DRONE RECONNAISSANCE
Sarah Anderson, Ethan Clark, Affan Imran, and Aldo Vela

9:40 – 10:00 am 3-PHASE INVERTER
Jayraj Bavda, Alejandro Gonzalez-Alcaraz, Eduardo Hernandez, Thuan Pham, and Alexander Regal

10:05 – 10:30 am Welcoming Remarks and Addresses in Classroom 180
- Dr. Joe Tedesco, Dean, College of Engineering
- Dr. Suresh Kathor, Associate Dean, College of Engineering
- Dr. Badri Roysam, Chairman, Electrical and Computer Engineering

10:30 – 10:45 am Coffee Break, Waldorf Astoria, Ballroom, Lobby

Session B: Oral Presentations
Time: 10:45 – 11:45 am, Flamingo Room
Faculty Chair: Dr. Dmitri Litvinov

10:45 – 11:05 am LARVA SONIC BOAT
Toluwaloke Ayannusi, Zulkifl Gire, Duy Le, and Ryan Norwood

11:05 – 11:25 am SMART SHOE I
Michael Pincus, Theodore Rodriguez, Nayam Perez, and Logan Golden
11:25 – 11:45 am  SMART SHOE II
Isaias Amaya, Otoniel Canuz, and Osvaldo Rodriguez-Martinez

11:50 - 12:45 pm  Lunch, Conrad Ballroom

12:30 - 1:15 pm  Keynote Presentation, “Lost in Translation: A Tragedy of our Times”, Mauro Ferrari, President & CEO, Houston Methodist Research Institute; Director, Institute for Academic Medicine; Executive Vice President, Houston Methodist; Senior Associate Dean and Professor of Medicine, Weill Cornell Medical College, New York

Session C: Oral Presentations
Time: 1:15 – 2:15 pm, Flamingo Room
Faculty Chair: Dr. Len Trombetta

1:15 - 1:35 pm  NASA SWARMATHON
Richard Johnson, Michael Lam, Akshay Kumar Mysore Sridhara, and Patrick Obanion

1:35 – 1:55 pm  DEEP SPACE MULTI-CUBESAT TELECOMMUNICATION
Shuaike "Jacob" Chen, Mejean Cline, Rosario Diaz, and Humberto Molero Villamizar

1:55 – 2:15 pm  MARS ROVER
Alamin Ahmed, Aadil Sakhyani, Sikender Shahid, and Aditi Tyagi

2:15 – 2:30 pm  Coffee Break, Waldorf Astoria, Ballroom, Lobby

Session D: Oral Presentation
Time: 2:30 – 3:30 pm, Flamingo Room
Faculty Chair: Dr. Len Trombetta

2:30 – 2:50 pm  FASTR (FACE AND SPEECH TRANSCRIBER WITH RECOGNITION)
Charles Asquith, Jordan Fail, Erich McMillan, and Benjamin Nelson

2:50 – 3:10 pm  EEG MONITORING HEADSET FOR POST-CONCUSSION AND TBI RELATED EVENTS PREVENTION
Fuad Girma Abdella, Isaias Chavez Perez, Elliott Landon, and Bao Nguyen
3:10 – 3:30 pm  VOLLEYBOAST: LONG-RANGE PERSONNEL AND EQUIPMENT TRACKER
Hisham Khalid A Alshmmasi, Brandon Kirksharian, Denwis La, and Arth Saurabh Pachchigar

Session E: POSTER PRESENTATIONS
Time:  3:30 – 5:30 pm
Location: Waldorf Astoria, Ballroom

All posters will match talks presented by the undergraduate students in the oral sessions.

5:30 – 6:00 pm  Elevator Talks by CDC Students, hosted by Len Trombetta, Waldorf Astoria, Ballroom

6:00 – 6:60 pm  Awards Ceremony and Reception, Waldorf Astoria, Ballroom