Attendees:

|  |  |  |  |
| --- | --- | --- | --- |
| **Industrial Advisory Board Members (ECE Dept)** | | | |
| **First** | **Last** | **Company** | **Position** |
| Hans | Fernlund | AMD | Orlando Division |
| Herb | Gingold | RV Intelligence | Owner |
| Richard | Hull | United Technology | United Technology Fellow |
| W. Joel D. | Johnson | Harris Corporation | Advanced Technology Manager |
| Jose | Nunez | NASA | Strategic Alliances Manager |
| Jim | Vinson | Intersil | Intersil Fellow |
| Alireza | Shahnami | ACD Telecom | VP |
| John | Hart | US Army, RDECOM |  |
| Lou | Glaros | Retired from Lockheed Martin MFC | LM Senior Fellow |

|  |  |  |
| --- | --- | --- |
| **UCF Representatives** | |  |
| **First Name** | **Last Name** | **Position** |
| Michael | Georgiopoulos | Dean of CECS |
| Zhihua | Qu | Chair of ECE |
| Parveen | Wahid | Associate Chair, Undergraduate Program Coordinator, EE and CpE |
| Kalpathy | Sundaram | Graduate Program Coordinator |

Zhihua Qu, the chair of ECE, welcomed everyone. Herb Gingold, Chair of ECE IAB, introduced himself and called the meeting to order as the chair of IAB at 4:23pm. All attendees introduced themselves.

A video and slideshow presentation from Dr. Qu with department updates and Dr. Georgiopoulos with college updates was distributed prior to this meeting for the board to review. Dr. Qu stated he and Dr. Georgiopoulos are here to answer any questions the board may have. Dr. Georgiopoulos, the dean, thanked everyone for the service.

Herb opened the meeting with question: Opening labs was the main topic of concern for the board.

* Dr. Qu reported that in the Spring/Summer semesters GTA’s were recording themselves conducting the experiments and then distributing them to the students.
* Dr. Qu also reported that in the Fall, all of the labs will be available through the same format with two additional components:
  + For every lab, there is one physical experiment that he/she would conduct in person. The labs will be laid out so social distancing will be put in place.
    - With this option, the professor will pick one critical experiment to be conducted by all the students who are on campus.
  + For critical courses such as Senior and Junior Design, the department purchased miniature boards that were sent out to the students so they could conduct the experiments from their home.
* For specialized courses a lab will be opened and available for students to conduct their experiments. This room will be disinfected and social distancing policies will be put in place. This option is a bit more difficult to implement the social distancing policy and will need more time to determine a process.
* Some of the Fall labs will still need to be videotaped by the GTA’s and be distributed to the students.

IAB members commented on the needs of supporting hands-on labs. Joel and Hurt requested a list of tools and personal kits that can be used by students to do the labs by themselves and at home, and Dr. Qu prepared the list for both. The list is available upon request for others as well.

In curriculum developed, Dr. Qu briefed the board about the 3 new graduate certificate programs that are in the process of getting implemented in Fall 2020:

* SUSTAINABLE AND RESILIENT ENERGY SYSTEMS
* SECURE COMPUTING AND CYBER PHYSICAL SYSTEMS
* TECHNOLOGIES FOR SMART COMMUNITIES

The earlier recommendation from the board about developing a joint MS/PhD program on Navigation, Guidance and Control has been implemented. The program is expected to formally started in Spring 2021.

Board members had a constructive discussion on additional (certificate) programs they wanted to be implemented for workforce development.

* Space electronics design as either an UG track or graduate certificate was discussed. Such design issues as communication, I/O, FPGA, telemetry, and onboard processing with low-cost hardware from neo to geo orbits are of importance to the space industry.
* Modeling and Model-Based Simulation certificate was also suggested.

The board members wanted to discuss further during a meeting in Fall 2020.

The meeting ended at 5:15pm.