MEETING AGENDA FOR:

_____Technology Systems Advisory Board Meeting _____

Date: Tuesday, October 17 12:00 PM - 2:00 PM

Location: USU Brigham City

Meeting Lead: Steve Williams and Andrew Deceuster

Attendees: USU Steve Williams, Chenese Boyle, Kari Lamoreaux, Michael Bailey, Nathan Kramar, Trevor Robinson, Chad Painter, Scott Greenhalgh, Brian Warnick, Austin Welch, Andrew Deceuster

Peter Rathjen (Autoliv), Ivan Banov (BTECH), Dru Taylor (Cache Valley Bank), Kyle Christian (Lifetime Products), Brent Stephens (Lifetime Products), Greg Crosby (HHI Corp), Tyson Bair (Autoliv), Wade Dummer (Fresenius Medical Care), Leisa Banks (Autoliv), Jay Johnson (Schreiber Foods), Michael Jensen (Holy Cross Hospital), Mike Tryon (Intermountain Electronics)

Items & Discussion

1. Welcome and Networking (12:00 PM - 12:15 PM)

- Welcome Remarks & Lunch
- Introduction of the Advisory Board and Faculty

2. Introduction to Technology Systems Program (12:15 PM - 12:45 PM)

- Overview of the Technology Systems Program
    - Stackable Program (33 credits stacks on technical college certificate)
    - Seven emphasis areas
    - New Degree next year (Engineering Tech)
    - Review Core Requirements and general education requirements
    - Review emphasis requirement courses
- Academic Achievements and Milestones
    - Review Enrollment
- Next Meeting (Spring Awards Banquet Details to come)
- Campus Visits
- Thanking the Advisory Board Members for Their Participation
- Main Goal
    - Make sure our curriculum reflects what you see the need for in your industry
    - Get in the nitty gritty in the breakouts, what do we need to do in the next five years
- Faculty talk about their emphasis area courses/Industry Feedback
    - Use of AI in communication
    - Business Principles vs Small Business Management
        - Industry recommends Business Principles, which is a general education course

        - Developing Human Capital -human skills, soft skills, a little insight into project management, 75-hour project, weekly check-ins, presentation
        - Project Management class development-Yes, does it need to be in the core? Yes
            - Students can take Business Communications in ENGL Depart. That frees up a space for us
    - Internship and Senior Project
        - Put together all of the skills they learned throughout the program
        - Senior Project-10 hours a week and shadow someone at work. What role would they like to evolve into?
            - Hour-based classes, 150 hours per semester, 10 hours per week
        - Electronic Systems Programming
            - QI fulfils general education requirements.
            - Arduino-micro controller. Do 1-2 labs a week.
            - End with final project
                - Do students need Intro to Electronics or do some of you not need it and it doesn't need to be a core course?
                    - Maybe not required for all, but an option. Industry recommends a deeper math course.
                    - Look into it more to see what kind of math would work for certain emphasis areas instead of it being required for the core
        - Science, Technology, & Modern Society
            - How sciences affect technology, gene editing, history of technology (printing press to birth controls, robots)
        - Technology Systems Seminar
            - Career Readiness
            - Industry guest speakers

3. Break (12:45 PM - 1:00 PM)

4. Emphasis Area Breakout Sessions (1:00 PM - 2:30 PM)

Emphasis Area 1: Advanced Manufacturing and Product Development

Room: C113

- Presentation by Scott Greenhalgh, Alex Thompson, and Austin Welch on the Emphasis Areas
- Curriculum Overview (Upper-level emphasis courses)
    - Documentation and communication
        - Email, presentations, excel, PowerPoint, welding documents
- Industry Alignment Discussion and Q&A

Emphasis Area 2: Cybersecurity and Information and Computer Technology

Room: C114

- Presentation by Michael Bailey and Chad Painter on the Emphasis Area
- Curriculum Overview
- Industry Alignment Discussion and Q&A

Emphasis Area 3: Quality and Reliability

Room: C115

Concerns/Questions:

1. **Not getting enough exposure for the non-degreed CE quality certificate**
   Discussion on ways to integrate industry members with the quality students
   a. Discussion included the potential for creating competition in the quality courses so the top students in each class can "present" their final projects to select industry members for exposure and connection opportunities
   b. The goal would be to help:
      i. Students with post-graduate pathways into their fields
      ii. USU Quality & Reliability emphasis by getting the word out to industry about the good work going on (with the proof being the best students presentations
      iii. Industry to put more skin in the game by having a better understanding of what is being offered at USU regarding quality
         1. This could potentially help traditional and non-traditional students
2. **How well are regulatory systems taught or addressed in our quality curriculum?**
   a. General systems including but not limited to ISO 9001, AS9100, FDA, etc.
   b. General overview such as what some of them are, why we have them, why they are important, etc.
   c. They admitted that it may not be interesting enough or necessary to have a dedicated course for it, but maybe to ensure it is addressed in some course(s)
3. **Is design control (i.e. user requirements, tolerances, functionality, material properties and selections, etc.) being taught?**
4. **Teaching online solely (asynchronous) has presented certain difficulties that they are working through, but they are waiting to see feedback for the semester before officially becoming concerned**
5. **What can be done to keep adjunct educators connected to their Canvas courses throughout the year in order for them to make incremental changes all year as opposed to getting locked out until just before Fall semester?**

Emphasis Area 4: Technical Management

Room: C224

- Presentation by Kari Lamoreaux on the Emphasis Area
- Curriculum Overview
- Industry Alignment Discussion and Q&A

Emphasis Area 5: Robotics, Automation, and Controls

Room: C225

- Presentation by Trevor Robinson on the Emphasis Area
- Curriculum Overview
- Industry Alignment Discussion and Q&A

4th Item: Final Resolution & Conclusion

Meet as TESY faculty and discuss what core classes need to be changed later this month per feedback received from industry partners.