



STATE ENGINEERING TECHNOLOGY INDUSTRY ADVISORY BOARD (SETIAB)
Board of Directors Meeting Summary
Virtual meeting
November 21, 2024, 3:00 P.M.

Voting Members

| Name | Company | Present | Not Present |
|---------------------|------------------------------------|----------------|--------------------|
| Dean Bartles | Manu Tech Deployment Grp (MTDG) | X | |
| Michael Emigh | Target | X | |
| Way Campos | Naval Support Activity Panama City | | X |
| Abraham Alangadan | Advanced Manufacturing Tech | X | |
| Paul McAllister | Aqua Comfort Water Group | | X |
| Joe Corley | Fidelity Manufacturing | | X |
| Robert Blevins | Florida Dept of Education | | X |
| Maria Alfano | Florida Makes | X | |
| Chris Nelson | Machine Technology | X | X |
| Michael Ennis | Michael C. Ennis Consulting | | X |
| Josette B. Twait | Polk County Public Schools | | |
| Peter Cirak | Seal Dynamics | | X |
| Kon Champavannarath | UFP Packaging | | X |
| James Gillard | Vac-Con | | X |
| Jayne Fifer | Volusia Manufacturer's Assoc | | X |

Non-Voting Members

| | | | |
|-----------------|--------------------------------|---|---|
| Marilyn Barger | FLATE | X | |
| Ernie Friend | FLATE | X | |
| Mori Toosi | Polk State College | X | |
| Sam Ajlani | College of Central Florida | | X |
| Ron Eaglin | Daytona State College | X | |
| Meer Almeer | Eastern Florida State College | X | |
| Patrick Land | Florida State College at Jax | | X |
| Shirley Dobbins | Hillsborough Community College | X | |
| Shera Gill | NW Florida State College | X | |
| Phil Centonze | POS-Impact | X | |
| Garrett Lee | South Florida State College | | X |
| Susan Frandsen | St. Johns River State College | | X |
| Sid Martin | St. Petersburg College | X | |

Guests

| | | | |
|----------------------|-------|---|--|
| Danielly Orozco-Cole | FLATE | X | |
| Teresa Potter | FLATE | X | |

CALL TO ORDER AND OPENING REMARKS

Dr. Dean Bartles, SETIAB Chair, welcomed SETIAB members. A motion of no quorum status was made by Dr. Dean Bartles and seconded by Mori Tossi.

- **FLATE Updates:** Ernie Friend, FLATE Executive Director, informed that two grants have been awarded to FLATE. The Blue Forge/MEP workforce “What is so Cool about Manufacturing” grant and a grant to

strengthen FL's Semiconductor manufacturing industry with the University of Florida acting as a central hub. The MEP grant is designed to showcase the modern and exciting aspects of manufacturing careers to students through video competitions, often involving visits to local manufacturing companies to film their processes and create videos highlighting the industry's positive aspects.

In collaboration the University of Florida (UF), FLATE will help support the growth of Florida's semiconductor student's pipeline by supporting paid student's internship program. More details will be provided during the next meeting.

Special award recognition to Dr Bartles: Mori used this opportunity to congratulate Dr. Dean Bartles on receiving The Association of Technology, Management, and Applied Engineering (ATMAE) Industry Innovation Award.

- **BOARD OF DIRECTORS NEW MEMBER Additions**

- Mori Tossi introduced two new members:
- Jessica Lovatt, President & CEO, VMA Inc affiliated with Daytona State College
- Vincent Harmon, senior operation manager from Coca-Cola, affiliated with college Polk State College

Due to a lack of quorum, a motion was made by Dr. Dean Bartles and seconded by Mori Tossi to postpone the approval of the new members for next meeting. The new members will be introduced during the next meeting.

- **Open for comments from all voting members**

- FloridaMakes-NISP MEP award: Maria Alfano, Chief Operating Officer for FloridaMakes, announced that FloridaMakes (FMs) has been selected to serve as MEP's Florida affiliate for the next 10 years. FMs will receive a 5-year award that can be renewed non-competitively for another 5 years if it continues performing up to national standards. In addition, Maria shared the news of her retirement from FMs starting January 2025. Most probably Kevin or someone from FMs will be selected to replace Maria on the SETIAB board.
- NSF ET Grant: Marilyn reported that technically the grant will end in March 2025 with some funds left for a no cost extension into the summer. More information provided in the ET Grant updates section.
- Target-Michael Emigh reported that Target is moving forward with some great innovation and technology projects.
- Manufacturing Technology Deployment Group, Inc.-Dr. Dean Bartles commented that his company runs "America Makes" focused on additive manufacturing, digital manufacturing and design. The Department of Commerce announced the creation of two new institutes, one with focus on digital twins for chips, his organization was not selected as a recipient for the artificial intelligence for resilience manufacturing. Dean commented that his company was not selected on the Artificial Intelligence for resilient manufacturing proposal. His company may consider joining one of the teams preselected to submit a full proposal.

3. Officers Reports

Mori announced the unofficial resignation of Way Campos as Secretary. The board will be recruiting volunteers for this position via email.

4. NSF ET Grant Updates – Dr. Marilyn Barger

Marilyn provided an overview of the ET AS Degree and a summary of the progress of the grant.

- Curriculum framework: The main goal of the grant is to update the curriculum frameworks for the advanced manufacturing specialization offered under the Engineering Technology (ET) AS degree to include emerging skills that address Florida manufacturer-identified Industry 4.0 skills gap in its technical workforce. As part of the grant's goals, the creation of an ET AS Advanced Automation College Credit Certificate (CCC) was designed and approved by the board.

- Update/replace the current Advanced Manufacturing Specialization:

Bob Blevins, State Supervisor for Engineering & Technology Education with the Florida Department of Education, suggested to update/replace the current Advanced Manufacturing Specialization instead of adding a new specialization.

The proposed update includes a name change to Advanced Automation Specialization and modification to the curriculum frameworks standards 12-18. The ET core standards 1-11 will remain the same.

- A survey evaluating the feasibility of making the transition and implementing these changes, among the colleges currently offering the Advanced Manufacturing Specialization, has been distributed. The goal is to evaluate if colleges can make the transition and determine which colleges feel they do not have the right equipment or skills to implement it. Once the overall implementation assessment is done the proposed Advanced Automation Specialization will be submitted to FDOE.
- Professional Development: As part of this grant, professional development is being offered to support preparing faculty teaching in the ET AS programs at participating State Colleges to facilitate the upcoming changes in standards and benchmarks.
- Outreach-promotional video: the grant is in the process of creating a video to promote the ET AS Degree program in Florida. Sid Martin, coordinating the execution of this task, reported that faculty and students from colleges and some manufacturers involved in the grant have been interviewed. Currently the video is in the editing process. The video has been narrowed down to four hours (originally 18 hours). The goal is to have about 6 minutes per participating college promoting their programs.
- Dr. Bartles' interview will be scheduled and will be included in the video.

5. Review of new BS Industrial Engineering Technology (BSIET)

Ron Eagling commented that this fall is the first active semester of the new program at Daytona State College (DSC). The new BS IET program includes operation research, manufacturing process engineering, programming for engineers, and probability and statistics. Even though the program has not graduated yet, students working in similar areas are earning an average of \$80,000 which implies that there is significant demand.

In addition, Ron is working on adding three AI classes (fundamentals of AI, data analysis, and maintaining, managing, and integrating AI systems into existing business processes).

6. Curriculum Flowchart

Mori introduced the updated curriculum flowchart and provided an example of how to use it. The process can be reviewed one more time during the next meeting before the final approval.

7. Comments

Student internships: Abe Alangadan commented that there are a lot of needs in IOT and AI areas in the industry and asked how industry can connect to some of these students for internships. Ron & Ernie will get together to search further on this topic and report during the next meeting.

8. Sterling Manufacturing Business Excellence Awards (SMAB)

Updates from Phil included SMAB's goal, eligibility, and management frameworks. The SMBE Awards and recognition are given annually to regional manufacturers who achieve high levels of performance in several categories, including leadership, strategy, customer and market focus, measurement, analysis, knowledge management, workforce, and operations.

Eligibility criteria: All manufacturers with production facilities in Florida and Georgia are eligible to participate. Anyone may nominate. All nominees receive a value-added evaluation feedback session with company strengths and opportunities for improvement.

Phil shared the assessment guide of the program via email.

9. New Business: Open Floor Suggestions

SETIAB meetings: Mori suggested meeting face-to-face two times a year, keep communications via email and continue exploring ideas, particularly with focus on skill gaps and requirements for local industry members.

AS-BS career path to Professional Engineering (PE) licensure: Ron commented that depending on the state there is an option for statewide articulation to obtain a PE via ASET- BSET. It seems that more states are now allowing ET graduates to pursue their PE licensure. In Florida, students who graduate from an ABET accredited institution, proceed to take the Fundamental Engineering (FE) exam, followed by 6 year-internship programs are eligible to take the PE exam.

10. Next Meeting

The next Board of Directors' meeting will be at Pasco Hernando State College, New Port Richey Campus on Thursday, April 3, 2025. The meeting will include a tour (5:00 pm) and a working dinner starting at 5:30 pm.

11. Adjourn

On a motion duly made, it was resolved to adjourn the meeting. Motion carried. (Motion to adjourn was made by Dr. Deam Bartles and seconded by Michael Emigh.) All approved. The meeting recordings are available on YouTube:

DISCLAIMER

The above minutes should be used as a summary of the issues discussed at the meeting. This document shall not be considered a verbatim copy of every word spoken at the meeting.