



ETD Business Committee Meeting Minutes 29 June 2022

The Executive Committee meeting of the ETD was called to order at 12:15pm on June 29, 2022 by Christopher LeBlanc, Division Chair of ETD in person in Minneapolis, Minnesota during the ASEE Annual Conference. The following persons were present: (not recorded).

Minutes of the previous meeting were distributed electronically prior to the meeting. The minutes were scrolled through and reviewed by meeting attendees. ETD Business meeting minutes of February 10, 2022 were accepted as presented. The motion passed unanimously.

OFFICER and ETD COMMITTEE REPORTS:

- **Treasurer Report - Wei Zhan not present. (copy attached) Budget was approved as presented**
- **ASEE Conference Report - Vukica Jovanovic (copy attached)**
 - 55-56 submissions 44 accepted for 2022 annual conference
 - 11 sessions, 12 business meetings – ETD & ETC, & social events. Took images from events.
 - 9-17 attendees on average at each session
- **Communications - Jay Porter (copy attached)**
 - Will be moving forward with a Wordpress account for the engtech.org site.
 - Thanks were given to Jay for his service since 2010.
- **ETD Listserve - Walter Buchanan not present (copy attached)**
 - We had 4500 members on the ET List Serve
 - Thanks were given to Walt for his service for 20+ years administering the ETD listserv
 - Looking into migration of the listserv to the new portal
- **Elections and Nominations - Clay Gloster not present (copy attached)**
 - Mohammad Moin Uddin - Vice Chair for Annual Programs
 - Member at large - Michael Johnson
 - Secretary - John Irwin
 - Vice Chair for Communications - Weihang Zhu
- **Other Reports**
 - **2021 Final Chair Report - Chris LeBlanc** - discussed 2021 conference results (copy attached)
 - **CIEC - Marilyn Dyrud (copy attached)**

- New deadline will be July 15 to submit abstracts to ETD contact Marilyn by email. Proceedings will be published from 2022 conference on ASEE webpage (there is a delay). 49 abstracts submitted in 2022
 - Conference will be in Charleston, SC in 2023
 - Goal is to transition CIEC to ASEE Peer
 - **Members at large – Michael Johnson** Membership report
 - Current ETD members 352, which is a downward trend. We need to outreach to colleagues to recruit new members.
 - Michael Johnson will work on the membership report and talk about how to get these data
 - Tim can get us a list of every ASEE member that is affiliated with an ET program
 - **JET Report Jyhwen Wang (copy attached)**
 - Published around 8 papers, currently looking at publishing online.
 - **ET Mini Grants (copy attached)**
 - ETD voted to fully fund to bring the balance up to 15,000. Final report will be published, institutions must match funds. The awards are for 2,500 each. Numerous grants to award.
 - **Accreditation – Scott Danielson not present (ETAC of ABET) (copy attached)**
 - 53 institution visits, forecast 50 institutions with 10 being new.ETC Report
 - **ETLI & ETC Report** – Will report during the ETC General Meeting
 - **New Business** – Chris LeBlanc
 - Engineering Technology Teaching Award – all boards approved to rename to Jeffrey Ray ET Teaching Award.
- A motion was made and accepted and the meeting was adjourned at 12:40 pm

Respectfully submitted,

John Irwin, Secretary, Engineering Technology Division

American Society for Engineering Education
Engineering Technology Division
²Treasurer's Report - ASEE Conf ETD Executive Committee Meeting - Minneapolis, MN
June 24, 2022

ETD ¹BASS Account (3224000)

²Beginning Balance 9/30/2020 \$ 46,876.03

Income

Dues Revenue YTD FY21:	\$	3,150.00
ASEE's Membership Allocation Funds-Oct 2020	\$	432.00
Interest Revenue	\$	59.00
		\$ 3,641.00

Expenses

Final Payment: 2019 ETD Mini-Grant_PI	\$	4,328.91
Initial Payment: 2019 ETD Mini-Grant_PI	\$	1,250.00
Initial Payment:2021 ETD Mini-Grant_PI_Dr. Margaret Phillips	\$	1,250.00
Production of a recruitment video_ETD & ETC	\$	3,162.50
Initial Payment: 2021 ETD Mini-Grant_PI - Dr. Gang Sun	\$	1,250.00
Reimbursement_Purchase of plagues for best papers	\$	1,089.49
ASEE Administrative Fee:	\$	945.00
		\$ (13,275.90)

Ending BASS Balance 9/30/2021 \$ 37,241.13

Outstanding Encumbrances

2021 ETD Mini-Grant for -NKU- Dr. Gang Sun (Final)	\$	1,250.00
2021 ETD Mini-Grant for -Purdue- Dr. Margaret Phillips (Final)	\$	1,250.00
2022 Berger/McGraw Award and dinner (est.)	\$	2,000.00
		\$ (4,500.00)

Projected Balance as of 06/24/2022 \$ 32,741.13

ETD Total

Projected Balance as of 06/24/2022 \$ 32,741.13

Footnotes

¹Bass is the acronym for Banking and Accounting Services System.

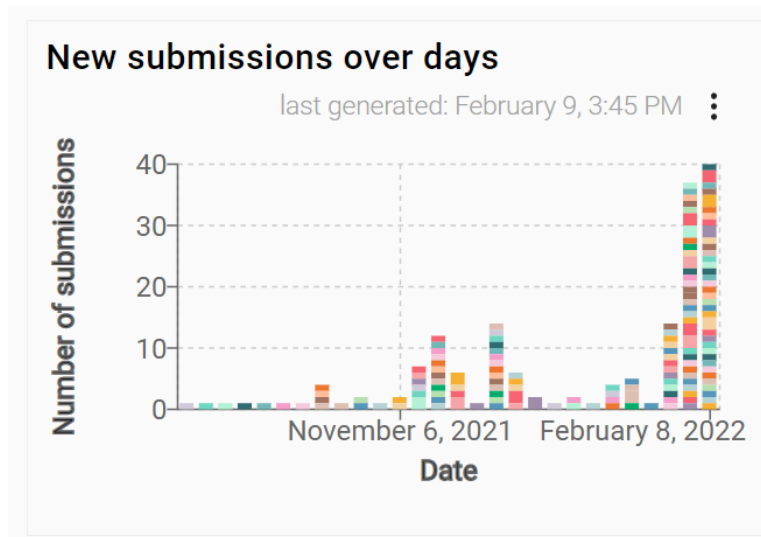
²Based on audited Financial Report dated 9/30/21

ASEE 2022 ETD Program Chair February Report

Prepared by
Vukica Jovanovic
February 9, 2022

Vital Statistics

	<i>2022 Conference</i>	<i>2021 Virtual Conference</i>	<i>2020 Virtual Conference</i>	<i>2019 Conference</i>
Abstracts submitted	65	81	130 (3 transferred from other divisions)	104 (includes 3 transferred from other divisions)
Abstracts rejected	0	6	2	0
Abstracts withdrawn	6	3	3	2
Missed draft deadline	13	20	44	30
Papers withdrawn	N/A	3	24	12
Draft papers submitted	41	58	92	62
Draft papers rejected	N/A	11	5	7
Final drafts published	N/A	47	57	55
Number of reviewers	105	103	81	103



Draft papers as of 2/9/2022

1. Exploring Engineering Technology Students Competencies in an Introductory Computer-Aided Drafting and Design Course: A Follow-on Study
2. Using a Toaster Oven for a Transient Heat Transfer Lab
3. Using EXCEL for numerical analysis of fluid flow in series and parallel piping systems and discussing the limitations of the numerical techniques
4. Using Capstone PBL to Demonstrate Achievement of ABET Outcomes
5. Augmenting undergraduate Engineering Technology education through applied research
6. Choose Ohio First IMProving REtention and Student Success in Computing (COF-IMPRESS-C) Second Year Progress Report
7. The Impact of the Industrial Advisory Board on the Governance of Engineering Technology Programs
8. Impact of COVID-19 on Capstone Projects Outcomes
9. A Study in Learning Styles of Construction Management Students
10. All Together Now - Integrating Horizontal Skills in Career Technical Education Classes with Making and Micro-manufacturing
11. A.S. degree Career Pathway within the Florida State College System that includes a Professional Engineering License
12. USING AIAA COMPETITION MISSIONS AS A SENIOR DESIGN PROJECT
13. A Highly Integrated and Successful Approach to Program Development and Implementation of Accreditation Strategies for an Engineering Technology Program
14. Improving Academic Performance of First-Generation Students: A Case Study of Mentoring Program
15. A Pilot Course as a Step towards New Academic Programs in Renewable Energies
16. Blending the Entrepreneurial Mindset into a Learning Module with a HVAC Design Project: Pilot Implementation
17. Combining Problem-Based Learning with the KEEN's Framework for Entrepreneurially Minded Learning in a Fluid Mechanics Course: Pilot Implementation
18. Innovative University-Based Regional Workforce Development Experience
19. Industrial Distribution and Warehousing in Industry 4.0 era: A survey
20. Expanding Structural Engineering Education through Virtual Reality
21. Student Learning and Confidence in a Technology Management Graduate Statistics Course
22. Teaching AutoCAD in E-learning and Face-to-Face Styles for Undergraduate Engineering Technology Students During and after COVID-19 Pandemic
23. Student and Faculty Perspectives on Undergraduate Cheating Frequency and Severity
24. The Role of Ethical Hacking and Penetration Testing in Cybersecurity Education
25. Workshop Result: Feedback from the 2021 Engineering Research Center Planning Grant Workshop
26. Motivating Students to Learn Basic Electronic Theories by Adopting Them in Different Courses
27. The Impact of COVID19 on Students' Learning Outcomes in a Thermodynamics Course
28. Incorporating a Milestone-Based Project Based Learning Method in a Foundry Course
29. Modular Hydrostatic Vehicle used for Engineering Technology
30. Do They Need What We Teach? A Comparative Study of What Advanced Manufacturing Frameworks Require and What Employers Desire

31. An Analysis of Student Retention Efforts in Engineering Technology Programs
32. Improving Academic Performance of First-Generation Students: A Case Study of Mentoring Program
33. Students' Lived Experiences with the Integrated STEM Activities
34. Virtual Problem-Based-Learning Instruction in the Era of the COVID-19 Pandemic - What Could Possibly Go Wrong & What Can One Do About It?
35. 5S Program Implementation in Homeowner's Garage: A Case Study
36. Automated Door System with Thermal Scan
37. Shall We Keep Using Zoom etc. after the Pandemic?
38. Using Shaking Table Experiments for Material Characterization and Vibration Analysis (WIP)
39. Lessons Learned from Teaching Engineering Classes Online during COVID-19
40. A 3D Printed, Stored Energy, 4D Single-Pass Project
41. Acquiring Testing of Materials Experience Through 3D Printing (WIP)

I look forward to seeing the entire ASEE and ETD community in person for this year's conference in Minnesota.

Vukica
/Vukitsa/

June 28, 2022

Report from Vice-Chair Communications

Jay Porter

- The Engineering Technology Division page is still operational and can be found at <http://www.engtech.org>.
- The ETD site requires continued maintenance and I am asking the officers from the represented groups (ETD, ETC, and ECETDHA) to continue monitoring the website and sending updates to the new Vice-Chair Communications. Please remember to send your updates so that edits and changes can be made in a timely manner.
- With the change-over in website administration to the new Vice-Chair, Communications (VCC), the following changes will need to be made to the ETD website:
 - Move the webpage to a new site. One possibility would be for ETD to independently own and operate a WordPress website. Another possibility would be to host the website through ASEE. A third would be for the new VCC to host the page at their institution.
 - Assume control of the domain name. It is currently licensed to Texas A&M through GKG and expires in 2023. TAMU can transfer the name to either another institution, to the new VCC or to ASEE depending on how the new website will be hosted.
 - Work with JET to determine how the JET website will continue to be maintained. One alternative would be for JET to independently contract for a web presence or try to host through ASEE. I will try to meet with JET at the conference and let them know.
- As the transition of website control occurs, I am happy to support the new webmaster. I can be contacted at jporter@tamu.edu. It is important that we move on the changes above quickly to ensure that the ETD website continues to be maintained, updated, and functional.

Dear Colleagues:

> We now have about 4500 members on the ET Listserv.

>

> Here is useful info for it:

Remember that the listserv doesn't take attachments.

> * LISTSERV Host Name: LISTSERV.TAMU.EDU

>

> * List Archives: <http://listserv.tamu.edu/cgi-bin/wa?A0=ETD-L>

>

> * List Subscription Page:

> <http://listserv.tamu.edu/cgi-bin/wa?SUBED1=ETD-L>

>

> The following email addresses are also available:

>

> * List Address: ETD-L@LISTSERV.TAMU.EDU

>

> * List Owner: ETD-L-request@LISTSERV.TAMU.EDU

>

> * Unsubscribe: ETD-L-signoff-request@LISTSERV.TAMU.EDU

>

> If you don't already have a password for the LISTSERV.TAMU.EDU server, we recommend that you create one now. A LISTSERV password is linked to your email address and can be used to access the web interface and all the lists to which you are subscribed on the LISTSERV.TAMU.EDU server.

>

> To create a password, visit:

>

> <http://listserv.tamu.edu/cgi-bin/wa?GETPW1>

>

> Once you have created a password, you can log in and view or change your subscription settings at:

>

> <http://listserv.tamu.edu/cgi-bin/wa?SUBED1=ETD-L>

>

> Note: This list is confidential. You should not publicly mention its existence or forward copies of information that you have obtained from it to third parties.

>

> More information about the options available for subscribers can be found in the official LISTSERV documentation at:

>

> [https://urldefense.com/v3/http://www.lsoft.com/resources/manuals.asp;!!KwNVnqRv!SnXn8KwAG9vYLQAv278x3sjP_7oFi3v5xtwMI3UbdEGRje0azy2PuwPt_ytC--Pi\\$](https://urldefense.com/v3/http://www.lsoft.com/resources/manuals.asp;!!KwNVnqRv!SnXn8KwAG9vYLQAv278x3sjP_7oFi3v5xtwMI3UbdEGRje0azy2PuwPt_ytC--Pi$)

Best regards,

Walt

Walter W. Buchanan, Ph.D., J.D., P.E

Professor Emeritus, F.ASEE, F.NSPE, F.ABET, F.IEEE

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<https://engineering.tamu.edu/etid/>

Please congratulate our new Engineering Technology Division Officers. Their term will begin immediately following the ASEE meeting held June 26-29, 2022.

Assistant Vice Chair for ASEE Annual Programs – Mohammad Moin Uddin

Member at Large – Michael D. Johnson

Secretary – John L. Irwin

Vice Chair for Communications – Weihang Zhu

Sincerely,

Clay Gloster, Jr.

ETD Past Chair

ETD Program Chair Final Report

Prepared by
Christopher D. LeBlanc
June 21st, 2021

Vital Statistics

	2021 Virtual Conference	2020 Virtual Conference	2019 Conference
Abstracts submitted	81	130 (3 transferred from other divisions)	104 (includes 3 transferred from other divisions)
Abstracts rejected	6	2	0
Abstracts withdrawn	3	3	2
Missed draft deadline	20	44	30
Papers withdrawn	3	24	12
Draft papers submitted	58	92	62
Draft papers rejected	11	5	7
Final drafts published	47	57	55
Number of reviewers	103	81	103

Result Summary of 2021 Conference: Of the abstracts submitted, 58% resulted in published papers. This is slightly lower than the past ASEE average (60% in 2019). Only two papers were nominated for Best Paper. Marilyn Dyrud shared the process for nominating ETD papers for Best Paper consideration following the guidelines and working with the co-chair Vukica Jovanovic one paper was nominated to the PIC Maureen Barcic. Vukica volunteered to participate in the Best Paper review committee.

ETD Business Meetings Schedule

The ETD program includes the Business Meetings shown below:

Business Meetings		
Tuesday	11:30 AM	ET Business meeting and Awards Luncheon
Tuesday	1:45 PM	ETD Executive Board
Tuesday	3:30 PM	Focus on ETAC Accreditation
Wednesday	7:00 AM	JET Board Meeting
Wednesday	7:00 AM	Engineering Technology National Forum
Wednesday	8:00 AM	ECET Dept. Heads Meeting
Wednesday	1:45 PM	Tau Alpha Pi Meeting
Wednesday	7:00 PM	McGraw/Berger Award Dinner
Thursday	11:30 AM	MET department heads
Thursday	11:30 AM	ETLI

Canceled: Engineering Technology National Forum

Canceled: McGraw/Berger Award Dinner

Canceled: Focus on ETAC Accreditation
Canceled: ET business Meeting and luncheon
Canceled: ETD Executive Board

ETD Technical Session Schedule

The ETD program consists of 9 technical sessions as shown below:

Technical Sessions		
Monday	1:15 PM	ET Pedegogy II
Monday	3:00 PM	ET Curriculum
Tuesday	1:45 PM	STEM Issues
Tuesday	3:30 PM	Engineering Technology Potpourri
Wednesday	8:00 AM	Engineering Technology Capstone Proj.
Wednesday	9:45 AM	ETD Poster session
Wednesday	1:45 PM	Remote Instruct5ion/COVID 19 strategies
Wednesday	3:30 PM	Focus on ETAC issues
Thursday	8:00 AM	ET Pedagogy I
Thursday	11:30 AM	New Directions for ET

Information Regarding this years Virtual Format:

June 1st Q&A with Patti Greenawalt

<https://www.youtube.com/watch?v=CKwWfTH-bDc>

Additional Instructions and Training Videos will be provided in Early July for both Authors and Moderators. I will distribute that information as soon as I get it from ASEE.

There are two types of virtual formats for the sessions, Webinars and Meetings. Each technical session is a Webinar with a moderator, both the chair and the moderator will have control of the meeting. Moderators will give the presenter control of the session during the talk, which will follow the typical in-person format of a 15-minute presentation and 5-minute Q&A. The moderator will also control the questions through the chat feature. The Meetings do not have moderators, chairs have the authority to initiate a meeting, I have delegated that authority to the individuals who requested the meeting.

Summary,

I would like to thank the Co-Chair Vukica Jovanovic for her work assigning reviewers. I have been away most of May and June and she has stepped in and addressed many questions from Authors regarding the review process, glitches uploading drafts, etc. Vukica will be more than

ready to step of to the Chair position for next year's conference in Minnesota. As always Patti Greenawalt from ASEE has been extremely helpful, her normal turn-around time for the many questions I have had was about 15 minutes. Of course, I would also like to thank Marilyn Dyrud who provided me with valuable historical documentation regarding paper review rubrics, and best paper selection.

I look forward to seeing the entire ASEE and ETD community in person for next year's conference in Minnesota.

-Chris

CIEC Program Chair Report
Minneapolis, MN
June 2022

Prepared by Marilyn A. Dyrud

2022

Of the 49 abstracts submitted, 43 authors submitted papers, with 5 withdrawn and 1 rejected. Two others were removed from the proceedings due to no-shows.

For the first time, CIEC ETD papers underwent a regular peer review. The process will be revised for 2023 and aim for more equitable distribution.

ETD attendees accounted for about 30% of total registrations.

2023

The conference is scheduled for Charleston, South Carolina, on February 8-10, 2023, with ETD responsible for general conference organization and implementation. The management team conducted a site visit on May 2 (although I was unable to attend).

We are currently collecting abstracts for approved sessions:

Creative Approaches to Teaching Ethics

Marilyn Dyrud
marilyn.dyrud@oit.edu

Innovation and Design through Industry Partnership

Niaz Latif
nlatif@pnw.edu

Developing Workforce for the Blue Economy: Marine Engineering Technology Programs in ET

Alok K. Verma
averma@tamug.edu

Metaverse

Kim Gaines
kgaines@augustatech.edu

OER in ET Programs

Moin Uddin
UDDINM@mail.etsu.edu

How to Prepare Students to the “New Industry”: Challenges, Methods, and Implementation

Maurizio Manzo

Maurizio.Manzo@unt.edu

Process Automation, Safety, and Cybersecurity

Vassilios Tzouanas
tzouanasv@uhd.edu

What Industry Offers to Academia

Gajanan Sabnis
gms@sabnis.com

What Academia Needs to Offer to Industry

Gajanan Sabnis
gms@sabnis.com

America's Cutting Edge (ACE) CNC Machining Training Program

Tony L. Schmitz
tony.schmitz@utk.edu

Integrating Industry 4.0 into Engineering Technology Curriculum

Reza Abrishambaf
abrishr@miamioh.edu
Mert Bal
balm@miamioh.edu

Innovative High Impact Practices (HIP) Experiences in Engineering Technology

Hemphill, William K.
HEMPHILL@mail.etsu.edu

Applications of Terrestrial Three-Dimensional Laser Scanning

Jared D. Wilson
wilsonjd@etsu.edu

Industry Informed Curricular Development in Engineering Technology

Angie Hill Price
price@tamu.edu

Unprecedented Times: Impact on Student Recruitment, Retention and Employment in Engineering Technology Programs

Susan Scachitti
Scachitt@pnw.edu

Partnering up with Industry to Enhance Experiential Learning in Engineering Technology

Afshin Zahraee
azahraee@pnw.edu

ETD Mini-Grants Report
Minneapolis, MN
June 2022

Prepared by Marilyn A. Dyrud

2018-2020

All projects have been completed, reports submitted and available on the engineering tech website, and funds disbursed. Three recipients will present at the 2023 CIEC conference, as the session for 2022 was cancelled (2 had funding withdrawn and 1 came down with Covid).

2021-2023

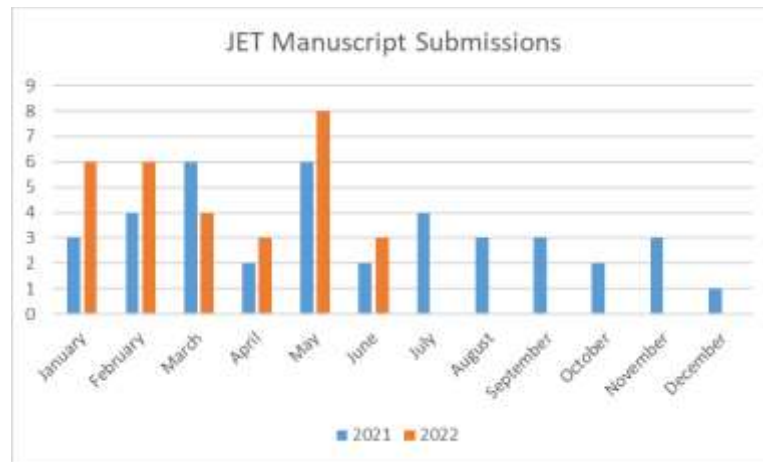
The two recipients are currently still working on their project; one will be completed in August and one in February. Both will present at the 2023 CIEC, and 1 plans to submit a paper to the *Journal of Engineering Technology*.

Future Plans

The program coordinator respectfully requests that ETD fund another mini-grants cycle. In the past, this has amounted to \$15,000. If approved, the coordinator will announce the new cycle in September, to allow for a December 31 deadline and to recruit 3 board members to serve as proposal evaluators.

Journal of Engineering Technology®
Editor-In-Chief Report: Submitted by Jyhwen Wang
ASEE ETD Executive Committee Meeting at 2022 ASEE Conference

1. Manuscript statistics



Year	Total	Inactive	Under Review	Accepted	Acceptance Rate
2020	51	46	0	5	9.8%
2021	39	32	2	5	12.8%
2022*	30	22	5	3	-

* as of June 25, 2022

2. Manuscript status for Fall 2022 issue
 - a. ASEE ETD Best Paper (1)
 - b. Accepted (1)
 - c. Revision submitted for revision and decision (2)
 - d. Under revision (0)
 - e. Under review (3)

3. ASEE Committee on Scholarly Publications (co-chaired by Cindy Finelli, Nadia Kellam and Donna Riley)
 - a. Drafting Bylaws; documenting and comparing policies and process for each of the ASEE journals to identify ways to streamline work and address challenges; advocating for centralized ASEE staff support and developing list of related tasks.
 - b. Booth #921 at 2022 ASEE Annual Conference. Please visit the booth to meet with other Editors/Associate Editors and authors.

4. JET Editorial Board discussions
 - a. JET Website updates – managed by ETD.
 - b. JET online publication
 - c. Write an article on how to conduct a good review for JET

Date: June 18, 2022

TO: Engineering Technology Division Executive Board
FROM: Scott Danielson, Past Chair of the ETAC for 2021-2022
RE: ETAC Update

Highlights of ETAC activities are below.

ACCREDITATION REVIEWS

In the 2022 cycle (being completed in July 2022), the Engineering Technology Accreditation Commission evaluated programs at 53 institutions. All programs were evaluated via a “virtual” modality. Final accreditation actions will be decided in July during the summer commission meetings.

The forecast for the 2023 cycle is for 50 institutions, with seven institutions and a total of 10 programs as initial accreditation reviews.

CRITERIA CHANGES

Mechatronics: The comment period for the draft program criteria has ended. The draft criteria are expected to be brought before the commission in July for approval and forwarding to the ETAD for final approval and implementation in fall 2023.

ETAC Communications with Institutions

A split Instructional Representative workshop model continued. Part I was conducted virtually in February/March and focused on self-study preparation and interactions with the AMS and the team chair/team approval process. Part II will be conducted in late July or early August and focus on evaluation preparations. Also a separate Instructional Representative workshop was conducted for those programs undergoing an interim review and focused on the preparation of the progress report submitted in June.

OTHER ETAC ACTIVITIES

Diversity remains an issue for ETAC, for instance few women serve as commissioners. Ultimately, this rests with the member societies to nominate a diverse slate of commissioners. The ETAC nomination committee has been active in pushing societies to provide more diversity—gender, race and perspective.

The ETAC is need of a new public member. The nominating committee was unable to find a willing and qualified nominee. If anyone has a suggestion, please forward it to me as soon as possible. The public member cannot be a member of any ABET member society or otherwise affiliated with specific professions, by either training or practice, accredited by ABET. See <https://www.abet.org/etac-the-value-of-a-public-member/> for more information.

Respectfully Submitted,



Scott Danielson, ETAC Past Chair 2021-22
Polytechnic School of the Ira A. Fulton Schools of Engineering
Arizona State University