ASEE Industrial Engineering Division Business Meeting
Tuesday 27th June 2023
Baltimore, Maryland
Prepared by Thomas A. Omwando

Welcome/Call to Order

The acting Chair, Raymond Smith called the meeting to order at 9:17am EST in Room Key 11&12 of the Hilton Baltimore Inner Harbor Hotel and welcomed everyone to the Industrial Engineering Division (IED) Business Meeting. Raymond asked the attendees to introduce themselves. The secretary/treasurer, Thomas Omwando took the minutes and passed around a sign-up sheet. The following members were present.

	Name	Affiliation	Email
1	Chell Roberts	University of San Diego	roberts@sandiego.edu
2	Katy Colbry	Michigan State University	colbryka@msu.edu
3	Tish Pohl	Univ. of Arkansas	ipohl@uark.edu
4	Karen Bursic	Univ. of Pittsburgh	kbursic@pitt.edu
5	Megan Hammond	Univ. of Indianapolis	hammondm@uindy.edu
6	Lawrence Whitman	Univ. of Arkansas Little Rock	lewhitman@ualr.edu
7	John Shortle	George Mason University	jshortle@gmu.edu
8	Thomas Omwando	Simpson University	tomwando@simpsonu.edu
9	Raymond Smith	East Carolina University	smithraym17@ecu.edu

Raymond introduced the following officers for the year ending June 2023 and informed the members that the division chair McKenzie Landrum was not able to attend due to unavoidable circumstances.

- Division Chair: Lisa Bosman, absent
- Program Chair: McKenzie Landrum, absent
- Assistant Program Chair: Sima Sabahi*, resigned
- Secretary/Treasurer: Thomas Omwando, present
- Awards/Past Division Chair: Raymond Smith III, present (acting as chair & moderator)
- Directors:
    - Leonardo Bedoya-Valencia (2021-2023), absent
    - Rick Olson (2022-2024), absent
    - Tish Pohl (2022-2024), present
    - Paul Lynch (2021-2023), absent
- Webmaster: Lawrence Whitman, present
- Commission on Diversity, Equity, and Inclusion Delegate: Karen Bursic, present
- P-12 Committee Representative: Justin W. Kile, absent

Approval of 2021 Meeting Minutes

The acting chair and moderator, Raymond Smith led the members through the minutes from the 2022 business meeting for approval. Karen Bursic made a motion to approve the minutes, Megan Hammond seconded the motion. The minutes were approved unanimously.

Professional Interest Council I Chair Report and Discussion

The Professional Interest Council II (PIC II) chair, Chell Roberts presented the following report.

- *Professional Interest Council II (PIC II) membership.*
  - The total membership is 5611 with the Industrial Engineering Division having 213 members registered as of Mid-June 2023. The other division membership under PIC II as of 5/30/2023 is as indicated in the table below.

Division	Membership As of 5/30/23
PIC II Membership	
Educational Research and Methods Division	1492
Engineering Economy Division (PIC II)	488
Engineering Management Division (PIC II)	203
Equity, Culture & Social Justice in Education Constituent Committee (PIC II)	1161
Faculty Development Constituent Committee Division (PIC II)	339
Graduate Studies Division (PIC II)	228
Industrial Engineering Division (PIC II)	211
Manufacturing Division (PIC II)	186
New Engineering Educators Division (PIC II)	240
Student Division (PIC II)	850
Systems Engineering Division (PIC II)	213
Total PIC II Members	5611

- *ASEE conference data*
  - 3885 Registered as of Sunday noon
  - 3246 abstracts submitted.
  - 3053 abstracts accepted.
  - 2200 draft papers submitted.
  - 2000 papers accepted.
  - 1927 papers finalized for presentation.
  - Last year's attendance was about 3042.

- *BASS Accounts*
  - BASS funds were comingled with operating funds and were all spent leading into the economic crisis this past fall.
    - Any positive amount any division had including recent collections are currently unavailable.
    - Policies have been changed due to this crisis.
    - The Board is keeping track of what is owed to the divisions:
    - Striving to begin paying back the BASS accounts starting February 2024 – could take several years after paying off debts.

- *2024 Annual Conference Paper Schedule*

Abstract Submission Open	10/1/2023
Abstract Submission Deadline	10/31/2023
Abstract Review Deadline	11/14/2023
PC Abstract Accept/Reject	11/21/2023
Draft Paper Submission Deadline	1/31/2024
Reviewer Draft Deadline	2/15/2024
PC Reviewer Feedback Deadline	2/29/2024
Revised Paper Submission Deadline	3/21/2024
Reviewer Revisions Deadline	3/31/2024
PC Paper Accept/Reject	4/15/2024
Finalized Paper Submission Deadline	4/30/2024
Division Best Paper Deadline	5/16/2024
PIC Best Paper Deadline	5/31/2024
Conference Best Paper Deadline	6/7/2024

- *Upcoming Conference Venues*

2024	June 23 - 26	Portland, Oregon
2025	June 22 - 25	Montreal, Quebec, Canada
2026	June 21 - 24	Charlotte, North Carolina
2027	June 20 - 23	Toronto, Ontario, Canada

- *Paper management system*

  - The new paper management system, NEMO is serving us well.

- *ASEE 130th Hall of Fame Call for Nominations*

  - Reported that in ASEE's 130th anniversary year, the association is seeking nominations for the 2023 ASEE Hall of Fame to honor the Engineering and Engineering Technology Education standouts whose work has made a significant impact on engineering education.
  - ASEE is seeking nominees across communities: pre-college, undergraduate, graduate, administrative, and professional settings. Members of academia, government and industry will be equally considered.
  - Ideas for areas of influence,
    - Pedagogy - the method and practice of teaching,
    - Broadening participation - diversity, equity, access, and inclusion
    - Research- engineering education frameworks, methodologies, syntheses, etc.
    - Service or leadership (to a community, profession, country, etc.)
    - Commercialization of technology/invention, entrepreneurship
    - Has made significant contributions to the practice of engineering or engineering technology education.
  - DEADLINE for nomination is July 31, 2023

- *2023 PIC II Best Paper Award*

  - This year's PIC II best paper award was:
    - *Nuestro Impacto: An Insider Look into the Connections between Our Past Experiences and Current Teaching and Mentoring Practices*
    - Authors: Idalis Villanueva Alarcón, Laura Melissa Cruz Castro, John Alexander Mendoza, Edward Latorre-Navarro, Diego Alvarado, and Lilianny Virguez
  - The paper was submitted by the Faculty Development Division

- *2023 Conference Best Paper Award*

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Program Chair Report

Raymond smith presented the following IED conference papers statistics on behalf of McKenzie Landrum.

	2023	2022	2021	2020	2019	2018	2017
Abstracts submitted	34	15	21	21	15	36	19
Abstracts accepted	34	14	19	17	-	-	-
Drafts submitted	28	10	12	10	9	24	-
Drafts rejected	5	1	2	0	0	2	2
Final papers submitted	17	8	10	7	9	21	-
Papers transferred	2	0	0	0	0	0	-
Papers published	17	8	10	7	9	21	9
Diversity related	4	0	0	1	2	7	2
Posters	2	0	0	0	0	2	1
Panels	0	0	0	0	0	0	1
Reviewers pool	180	71	63	41	31	60	63
Reviewers - Active	44	42					
Reviewers - Recused	-	9					
Reviewers – No Response	136	20					
Reviews assigned		120	44	36	17	51	36
Reviews completed	144	87					
No. of reviews completed per paper (average)	Abstract = 2.42 Draft = 2.31	Abstract = 2.6 Draft = 5.9	Abstract = 3.3 Draft = 4.2	Abstract = 3.4 Draft = 4.5			

The report shows that there is increasing activity in the division. There is a need to get enough reviewers. Efforts to be made to reach out to more faculty and encourage them to be reviewers.

Awards Chair Report

The Awards Chair, Raymond smith presented the following awards report.

IED 2023 Best Paper Award

"Integrating Companies and Higher Education in the Teaching-Learning Process of Lean Thinking Using Challenge-Based Learning"

- Dr. Araceli Zavala, (Tecnologico de Monterrey)
- Jonathan Cuevas-Ortuño, (Tecnologico de Monterrey)
- J. Reyes Angulo Cedeño, (Tecnologico de Monterrey)
- Agustin Perez Araos, (Tecnologico de Monterrey)
- Marco Antonio de Luna

IED Best Paper Award Runner-Up

"Development of Lean Six Sigma Competencies through Guided Learning Sequences"

- Dr. Gibrán Sayeg-Sánchez, (Technologico de Monterrey (ITESM))
- Professor Miguel X. Rodriguez-Paz, (Technologico de Monterrey)

New IE Educator Outstanding Paper Award

"Designing and Innovating Sustainable Products, Services and Systems: Infusing the Entrepreneurial Mindset in Undergraduate and Graduate Industrial Engineering Training"

- Dr. Ana Cram (University of Texas at El Paso)
- Dr. Arunkumar Pennathur, (University of Texas at El Paso)
- Dr. Amirmasoud Momenipour, (Rose-Hulman Institution of Technology)
- Priyadarshini R. Pennathur, (University of Texas at El Paso)

IED Outstanding Student Paper Award

This year we did not have any award in this category because no authors identified themselves as students.

IED Travel Grant Award

This year we did not have any award in this category.
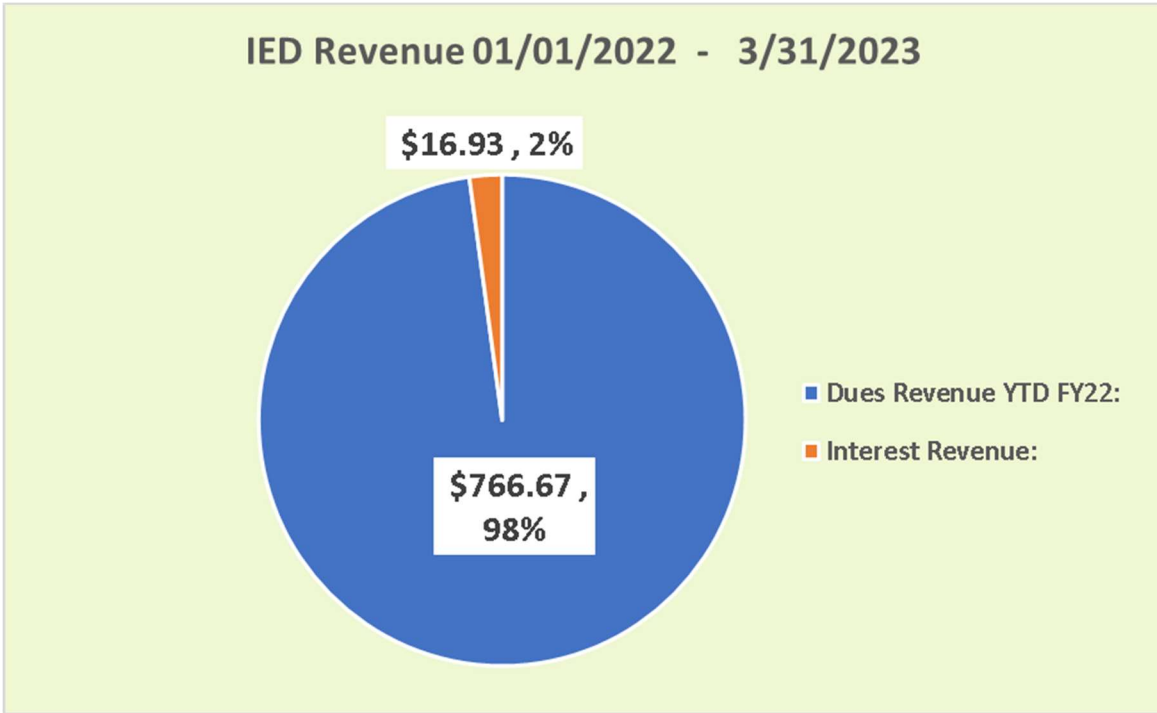
Financial Report

The secretary/Treasurer, Thomas Omwando presented the following BASS summary for 2022.
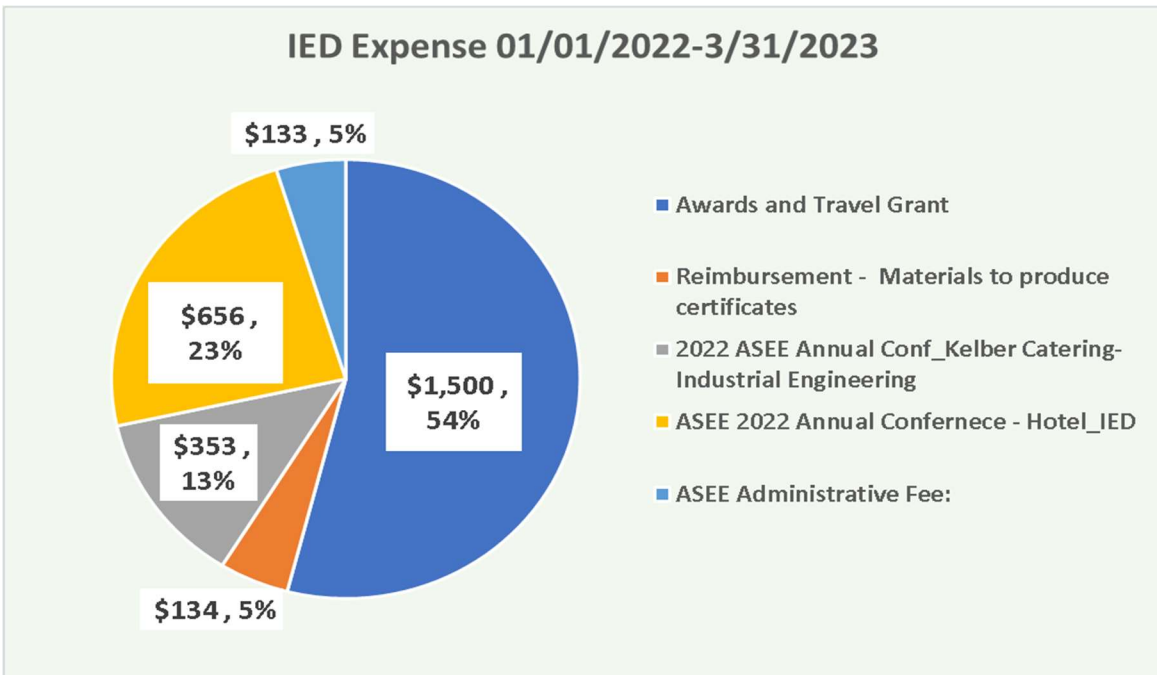
Financial Summary (YTD F23, 12/31/2022)

	2021	2022	2023
Starting Balance	$17,066.70 (10/1/2020)	$16,695.04 (10/1/2021)	$17,048.73 (1/01/2022)
Revenue	$587.42	$410.09	$783.60
Expense	$103.20	$56.40	$2,776.31
Ending Balance	$17,048.73 (12/31/2021)	$17,048.73 (12/31/2021)	$15,056.02 (3/31/2023)

The treasurer explained that the large amount of expenditure reflected in the period ending 3/31/2023 is attributed to expenditures for the 2021-2022 period that had not been paid by 12/31/2021 but were paid in earlier 2022 and therefore are reflected in the 2022-2023 expenses.
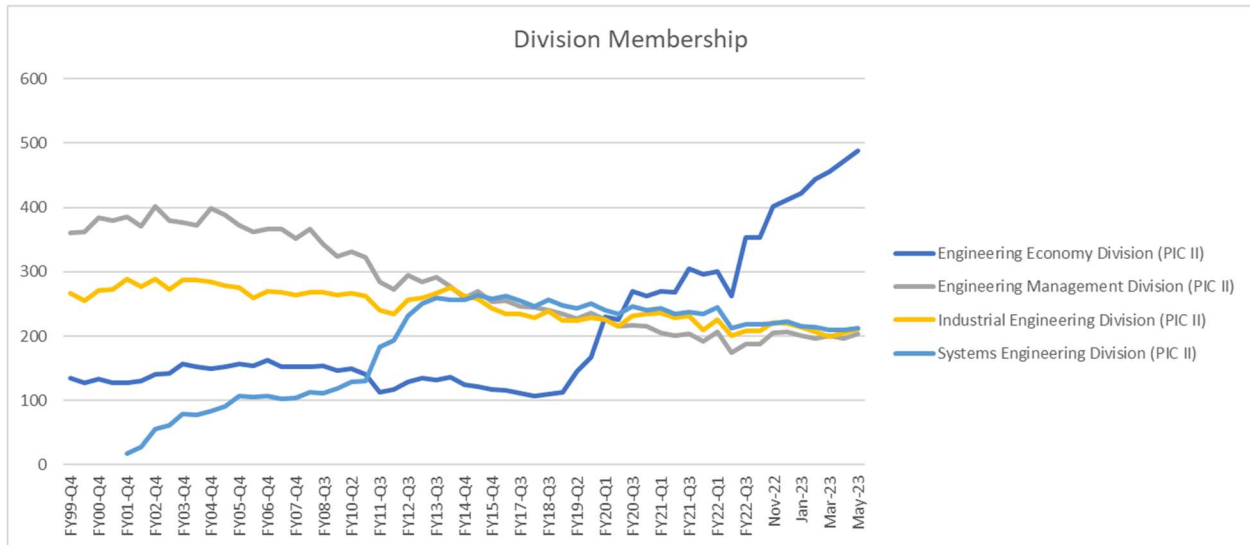
Total Revenue FY 2022

IED Revenue 01/01/2022 - 3/31/2023

$16.93 , 2%

$766.67 , 98%

■ Dues Revenue YTD FY22:
■ Interest Revenue:

Total Expense FY 22 (Break down)

IED Expense 01/01/2022-3/31/2023

$133 , 5%

$656 , 23%

$1,500 , 54%

$353 , 13%

$134 , 5%

■ Awards and Travel Grant

■ Reimbursement - Materials to produce certificates

■ 2022 ASEE Annual Conf_Kelber Catering-Industrial Engineering

■ ASEE 2022 Annual Confernece - Hotel_IED

■ ASEE Administrative Fee:

Membership Report

Raymond Smith presented the following membership trends on behalf of the division chair Lisa Bosman.

- IED membership is stabilizing at around 200 members.
- It was observed that Engineering Economy Division membership is increasing. This was attributed to the fact that they changed their membership from paid to free membership.

Commission on Diversity, Equity, and Inclusion (CDEI) Update

Karen Bursic, the IED Delegate to the Commission on Diversity, Equity, and Inclusion gave the following update from the commission.

- The 2022 Best DEI Paper Winner presented today at the Annual Conference in the morning (Tuesday 8:00am plenary). The paper is titled, *"Integrating Grace Gender and Indigenous Knowledge in Introductory Physics Curriculum"*

- The 2023 DEI Paper Award Finalist will be announced and present in tomorrow afternoon's session (Wednesday 1:30pm in BCC 315).

- There were 3 Safe Ally Trainings in this year's conference.

- There were 8 onsite workshops, that were well attended.

- The updated mission, vision, values and priorities statements of CDEI are in the ASEE website, CDEI page.

- The commission partners with other stakeholders, models, and empower to grow the engineering community in the DEI knowledge, capabilities and effectiveness.

2024 Call for Papers (IED Division)

The acting chair and moderator, Raymond Smith presented on behalf of the program chair the call for 2024 papers IED Division.

The **Industrial Engineering Division (IED)** of the American Society of Engineering Education (ASEE) seeks papers for presentation at the 131st ASEE Annual conference and exposition in Portland, Oregon June 23 to 26, 2024.

2024 Theme: STEAM and Industrial Engineering Education

Arts integration in STEM, or STEAM means learning about fine arts such as visual, theatrical, dance, and music arts, alongside the learning of other core STEM content. Arts integration can support STEM discipline learning by making learning more relevant to students [1], capturing student interests, activating and reifying neural networks [2] to call in multiple intelligences, and constructing a deeper understanding of both the arts and core content [3]. The National Coalition of Core Arts Standards [4] provides guidance for art instruction which can be included as learning objectives within other courses to create an integrated lesson, assignment, or assessment. Valuing STEAM perspective has the capacity to encourage broader participation and retention among persons traditionally underrepresented in engineering due to being more service oriented and interested in improving the human condition [5].

[1]. *M. Yang. "Making interdisciplinary subjects relevant to students: and in the disciplinary approach an interdisciplinary approach," Teaching in Higher Education, Vol. 14 no. 6, pp 597-606, 2009.*

[2]. *Gay, D. Bransford, A. L. Brown, and R.R. Cocking, How People Learn. Washington, DC: National Academy Press, 2000.*

[3]. *L. Silverstein and S. Layne, Defining Arts Integration". The John F Kennedy Center for Performing Arts 2010*

[4]. *National Coalition for Core Standards, National Core Art Standards." 2014.*

[5]. *M.A Kanny, L.J. Sax, and T. A. Riggers-Piehl. Investigating forty years of STEM research: How explanations for the gender gap have evolved over time, "Journal of Women and Minorities in Science and Engineering, vol. 20, no 2, 2014.*

Relevant submissions are welcome from all engineering disciplines. Considerations for acceptance include the level of innovation, technical merit, demonstrated outcomes and the relevance to industrial engineering education. Authors are encouraged to submit work that could be useful to other IE faculty, including strategies for implementation. The IED strongly encourages submission of diversity, equity, and inclusion related papers. Purely technical **papers that have no educational component** or papers describing courses that will or have not been taught will **most likely not be accepted**.

Topics of interest include but are not limited to:
- Novel IE curricula
- Methods for developing and assessing industrial engineering competency.
- IE laboratory development
- Application of innovative approaches to IE education (e.g., flipped classes, problem-based learning, and the use of emerging technologies)
- Educational resources such as case studies, web-based courses modules, and lab materials for teaching IE topics
- IE Design throughout the curriculum
- Outstanding IE outreach programs
- Successful internship and/or co-op programs
- Involving undergraduates in IE related research
- Success with adapting to new IE ABET outcomes.
- Diversity equity and inclusion in IE

The IED is a publish-to-present division. At least one author for each paper must register for and present at the conference. All accepted abstracts will be invited to submit full length papers for peer review. Papers addressing "work in progress" will be considered. The submission and review process are blind. Do not include the names of institutions or authors anywhere in the abstract or draft paper. All abstracts and papers must be uploaded electronically through the ASEE paper management system. **Abstracts submitted for the 2024 conference should be extended abstracts providing sufficient detail on the proposed work for reviewers to evaluate.** Additional information including the author's kits with deadlines and formatting instructions can be downloaded from the ASEE website. In addition to the ASEE "Publish-to-Present" requirements, IED requires the support of its authors in "Review to Publish" at both the abstract and manuscript stages.

IED also supports workshops in the areas listed for paper submission. Persons wishing to have IED promote a workshop for the 2024 annual conference should submit their response to the ASEE workshop form to the program chair to be reviewed for appropriate content.

IED Paper Awards and Travel Grant:

- All accepted papers will be considered for the ***IED Best Paper Award***. The award includes a plaque of recognition for first place and a letter of recognition for second place (runner-up), when appropriate. There is an honorarium monetary award of $250 for the first author of the winning paper.

- Qualified authors will be considered for the ***New IE Educator Outstanding Paper Award***. New IE educators with fewer than seven years of full-time teaching experience are eligible for this award. The recipient will be awarded $250 per author up to $500 per paper. Senior faculty are eligible for the award as scholars but not for the monetary award. The award also includes a plaque of recognition.

- Student authored papers are eligible for ***IED Outstanding Student Prepared Word***. The recipient will be awarded $250 per author, up to $500 per paper. Faculty are eligible for the award as co-authors but not for monetary awards. The award also includes a certificate of recognition.

- IED members who have not attended an annual conference may be eligible for the $500 *IE Travel Grant for New Attendees*. Recipients must present their papers in IED session and can collaborate with other faculty who are active in ASEE. Email the division chair at landrum@ise.ufl.edu if you are interested in applying for the travel grant.

Members were asked to forward this message to people that may be interested in presenting their work, hosting a workshop or formulating a panel at the 2024 conference.

The chair also requested those who are not members of the industrial engineering division (IED), to **add the IED to your ASEE** membership renewal. Those with any questions to contact the program chair.

Thomas Omwando
Program chair, ASEE industrial engineering division
Assistant professor and Coordinator of Engineering Program
Simpson University
tomwando@simpsonu.edu

Abstract submission opens early September; the deadline for submitting abstracts is mid-October. Workshop, Panel and Distinguished Lecture requests also open early September.

Election and Installation of New Officers

The acting chair and moderator, Raymond Smith conducted the election and installation. Because the bylaws provide for orderly transition of officers, only a new secretary/treasurer was needed to be elected. However, given that the assistant program chair, Sima Sabahi, resigned from her position, there was need to fill two positions. The current secretary/treasurer, Thomas Omwando indicated that he was willing to take the program chair position.

Tish Pohl made a motion to approve the nomination of Thomas Omwando from Simpson University for the position of program chair, Karen Bursic seconded the motion. Thomas was elected program chair by acclamation.

The acting chair and moderator indicated that Megan Hammond from the University of Indianapolis had expressed interest in serving as a secretary/treasurer for the division. Lawrence Whiteman made a motion to approve the nomination, Tish Pohl seconded the motion. Megan was elected secretary/treasurer by acclamation.

There was concern on the seriousness of the office bearers and it was emphasized that officers need to take their roles seriously. It was emphasized that attendance of board members in the business meeting is important to provide leadership.

It was reported that the outgoing chair had reached out to some members and there were some who had expressed interest in serving in officer roles. The Byelaws provide that a division chair can nominate and fill a position that falls vacant in between elections.

Board of directors: To serve as a board of directors, one needs to have been in a leadership role prior. Raymond expressed interest in serving as a director and was nominated by Karen Bursic. The motion was seconded by Tish Pohl and Raymond was elected a member of the board of directors by acclamation.

The membership accepted the slate of directors as indicated below. The IED officers for the coming year will now be:

	2023 - 2024	2022 - 2023
Past Division Chair (Awards Chair)	Lisa Bosman	Raymond Smith III
Division Chair	McKenzie Landrum	Lisa Bosman
Program Chair	Thomas Omwando	McKenzie Landrum
Assistant Program Chair	TBD	Sima Sabahi
Secretary/Treasurer	Megan Hammond	Thomas Omwando
Board of Directors (2-year term)	Raymond Smith ('25)	Leonardo Bedoya-Valencia ('23)
	Tish Pohl ('24)	Tish Pohl ('24)
	Rick Olson ('24)	Rick Olson ('24)
	Paul Lynch ('25)	Paul Lynch ('23)
Commission on Diversity, Equity, and Inclusion Delegate	Karen Bursic	Karen Bursic
P12 Committee Representative	Justin Kile	Justin Kile
Webmaster	Lawrence Whitman	Lawrence Whitman

It was also noted that the website needs to be updated. Lawrence, the division webmaster said that the leadership needs to send him information in time so that he can update the website.

Adjournment

Lawrence Whiteman made a motion to adjourn. Tish Pohl seconded the motion. All were in favor of adjourning. Raymond Smith adjourned the meeting at 10:37 am EST.

Approved 2023 Business Meeting Minutes