

LSSU EAB Notes, 4-24-17:

Members present: Bob Andersen, Tim Bennett, Fred Berg, Paul Duesing, Lynnette Eding, Todd Fewins, Allan Frappier, Karl Hansen, Jeff Johnston, Andrew Jones, Steve Kars, Jim Keighley, James Kucher, David Leach, Adam Lyon, Jerry Timm

Faculty: Eric Becks, Dave Leach, Andrew Jones, Laura Bofinger, Jim Devaprasad, Dave Baumann, David Finley, Paul Weber

8:00 – 8:30 am **Informal Discussion – All Welcome**

8:30 – 8:35 am **Meeting Call to Order** – Steven Kars

8:35 – 8:45 am **Action Item Review / Minutes Approval** – Lynnette Eding

Fred motion to approve meeting minutes. Tim 2<sup>nd</sup>. All approved.

8:45 – 9:30 am **Chairman's Report:** Steven Kars

**Continental and Precision Edge donated money to the LSSU group.**

**Report on follow up letter & meeting with President & Provost:**

- Try in the fall to connect to the kids, better
- Create endowed chair or endowed Dean to create the Dean position. Have 2-4 company's work toward this.
- How do we really help the school of engineering at this level?
- Esys – hired 5 robotics students this year.
- Further discussions on this to come – follow up with issues
- Have conversation with chairs and coordinators to get full details.
- Bottom line: No Dean of Eng unless it is endowed. LSSU is committed to implementing 2 dean model.



LSSU IAB Letter  
2017.pdf

**Chairman Election – Secretary Election:**

- Moved/seconded/voted: All approved. Lynette Eding new Chairman, James Keighley new Secretary.

**New Business:**

- Emeritus Status - retired for professional job and retired from board – Faculty has Emeritus status – a lifetime recognition – so this award would recommend for the lifetime of the past members. This would be awarded to true “A” players of the board. Chris Conklin approved as first IAB Emeritus.
- New Committee Member approved: Karl Hansen, Engineer for International Bridge Administration – MDOT. Welcome Karl!

9:30 – 9:35 am **Recruitment Subcommittee Report** – Steven Kars

- Just getting organized. Committee needs 2 more members from IAB.

9:35 – 9:50 am            **Break – Informal Discussion**

## **Lake Superior State University Updates**

9:50 – 11:30 am            **School Updates, Curriculum Review & PDC Update – Dr. Baumann & Eng. Staff**

- Per ABET expectation – one department reviewed with IAB at each meeting. Input from IAB expected.
- Mfg ET reviewed this time:
  - ABET Student outcomes A, B, C, D, E, F, G, H, J meeting standards generally but some below standards, no causes for concern
  - Outcome I – bringing in philosophy professor to teach ethics portion of ENGR495
  - Outcome K – changing EGNR310 instructions to be made clearer to address low scores for quality, timeliness and continuous improvement.
- Strong support expressed from IAB for adding Robotics Engineering Degree ASAP. This is what Industry needs and students want.
- PDC update –
  - 3D printer in operation and serving the senior projects well. Many of them have printed parts. Ask Eric send B for updates.
  - Small company internship award – matching 15% for internship for the summer.
  - Business engagement center has a Business Acceleration Group –

11:30 – 11:55 am            **Senior Projects Evaluations/Updates – Paul Weber**

11:55 – 12:00 pm            **Closing Remarks / Next Meeting LSSU Campus, Fall 2017 TBD.**

12:00 – 1:00 pm            **Lunch @ Cisler Center – Anchor Room**

## **Presentations:**



2017 spring IAB  
meeting presentation.



IAB 2017-05 Meeting  
(AJ Slides).pdf



IAB 2017-05 Meeting  
(SET Slides).pdf

## **Student Interaction**

1:00 – 4:30 pm            **Senior Project Presentations – CAS 212**

### Action Register (open/complete):

1. Lynnette will volunteer for chair, but someone will need to take over the Secretary position done - Jim K
2. Change the role statement of the board to add management and educational to the list of responsibilities. – Lynnette – done by Steve
3. Steve will create a certificate and send to Jeanne for all her dedication and hard work. – Steve Kars
4. Need to decide who will create the plaque for the Emeritus members of the IAB. Dr. Finley handling it.
5. Create NEW subcommittee - will start out with Bob, Paul, Steve - to connect to Business IAB. Nothing done yet
6. Steve to summarize letter to provost on outcome of above notes and included information on Engineering funds. Done
7. Need to create an Action item to understand interest in Civil Engineering. Create Poll on website? - Unassigned no action
8. As a result of ABET concerns, we decided to review one Engineering group each meeting. Doing Mfg at this meeting
9. Another agenda topic for IAB to think about can be Future of Academics: Finley handling – not IAB issue
  - Civil Eng
  - Engineering Masters
  - MBA proposal – working in earnest to make that happen
10. Is there is a list of materials the club needs, we can get that out to the IAB and see if there is any donations that members can help with. – Robert Hildebrand to provide – donation letter sent out. Continental and Precision Edge donated.
11. Steve to solicit input from IAB members on next steps wrt to IAB request to Dean of Eng. And then discuss potential next steps with sub-committee.
12. Recruiting subcommittee needs two more members. Seeking volunteers from IAB.
13. Next IAB meeting – review of ABET student outcomes should include more background on what the criteria means.
14. Figure out how to get LSSU to show up better on Google search for Robotics – Eric Becks to connect Dave with LSSU Computer marketing
15. Check with WPI on why they have their own school of Robotics and what enrollment growth trend for this is for input to letter supporting Robotics Engineering program by Steve – Jim Keighley. They did this because Robotics is in high demand and because robotics draws on a wide range of the classic Engineering disciplines versus being solely or mostly tied to one. Their growth trend is up on par with aeronautical (drones) relative to mechanical and electrical.
16. Todd Ewin/David Leach to do #15 for MTU.
17. Jeff Johnston to get industry data on need/growth for robotics systems in mfg.
18. (Item held for re-discussion following the death of Dr. Pleger) Steve Kars (in his final act as Chair of IAB 😊) to write letter to David Finley expressing strong IAB support for the proposal to create a Robotics Engineering and make sure it is marketed well wrt search engine terms. This will take some resource investment outside the teaching of current classes to do the work (not just lead) required to get this implemented but the investment is necessary not optional for LSSU's Eng Program to keep pace with industry & student demands and the wave of on-shoring ahead of us. Enrollment & excitement is increasing for emerging disciplines like this and declining for classic CE/ME/EE. This leverages natural adjacencies – requires adding one course.