

Meeting Place: HLC 2405
Meeting Time: 10:00 am, December 1, 2017
Participants: Jim Heath, Lala Guerra, Joe Brinkley, Chris Cavalli, John Underwood, Jeff Bechtold, Saad Eways, John Cise, Paul Williams, Gabe Arellano, James Friedrichsen, June Mullin, Karl Trappe, Richard Mauldin, Mostafa Pirnia, Chris Haluska, Leo Mariana, Julienne LeMond, Qurrat Thakur, Wolfgang Frey.

- 1.) **Approval of Agenda:** Agenda approved
- 2.) **Approval of Minutes:** November minutes approved.

3.) Information item:

- a.) **Engineering Week 2018, February 18 -24** – Paul Williams shared information about the events for Engineer Week on February 18 -24, 2018 at ACC. On Monday, Feb. 19, 2018 there will be a kick off with a speaker event. On Tuesday, Wednesday and Thursday, Feb. 20, 21, 22, 2018 there will be different contests each day. Examples: spaghetti bridge contest, high tower contest etc... Judges will be needed for the contests. On Friday, Feb. 23, 2018 during the day, there will be a “So you want to be Engineer” event. And on Friday evening there will be a Family Fun Night. Paul announced that he will need help with the events. If anyone interested in helping, contact Paul Williams. Professional Development hours will be given.
- b.) **PHYS 1401 Research Project** – Julienne LeMond shared information on a research grant that she was chosen to take part in by ACC for a homework and learning system for the college. Julienne requested material and any ideas from faculty to help develop the homework and learning system. Some faculty shared their experience with the homework system they use. Julienne was asked to give a professional developmental presentation to demonstrate her current homework system sometime in January.
- c.) **New Lab Equipment** – Henry Henze and Richard Mauldin showed everyone the Stress and Strain Sensor they had put together. A demonstration was done to show everyone how it worked.
- d.) **Arturo Dominguez update** – John Underwood informed everyone that Arturo Dominguez, former hourly was available Tuesday, December 12, 2017 to give a talk on Plasma and Fusion. The talk will be at 10:30am and room TBA.
- e.) **Announcement - Qurrat Thakur** – Qurrat Thakur announced that her last day as a lab tech for the ACC Physics department CYP would be January 15, 2018.

4.) **Safety Officer Report** – All safety contracts have been turned in.

5.) **Website and Technology Update** – Nothing to report. There were some complaints that certain software was not functioning right. Everyone was informed that if there are any problems, to contact June Mullin.

6.) Committee Chair Reports

- a.) **Assessment** –Just a reminder that all courses in the core curriculum except PHYS 1410 and Engineering courses will do a problem solving assessment problem on the final exam for Gen Ed assessment. . PHYS 2425 and 2426 will do the Program Assessment on communication.
- b.) **Budget** – There were some issues with the sharing budget sheet but it has been fixed. James Friedrichsen went over budget summery. Each campuses received 5800.00 for spending.
- c.) **Curriculum** – Not much to report. Topics for PHYS 1401 and 1402 for OpenStax need to be posted in website. The ACGM has posted their topics but there were some changes. PHYS 2425 is not listed as a required topic but might be a typo. Will wait till next year to make any changes.
- d.) **Evaluations** – Not much has changed from our last meeting. Portfolios are slowly coming in. Portfolios are due December 17, 2017. FIFs are being submitted. Evaluation committee will meet in February 2018.

- e.) **Engineering Steering** – The Engineering Steering committee will be SWOT meeting today at 1:30pm in room 2405 at HLC.
- f.) **Long Range Planning** – John Underwood informed everyone that he has not received any requests from anyone in the department for Emergency funds to send to the Tech Committee
- g.) **Professional Development** – Engineering week will be February 18-24, 2018. There will be an ACChaoS event in Leander today, December 1, 2017. There will be other ACChaoS events for the next 2 Fridays in Pflugerville/Round Rock. There is need for volunteers for the events. Faculty and staff that volunteer in any of this events will receive professional developmental hours. The AAPT meeting will be January 4-6, 2018 in San Diego.
- h.) **Scheduling** - A Scheduling Committee meeting has been scheduled for December 8, 2017 from 10:00am to 12:00pm at HLC. Because of low enrollment in PHYS 1401 and higher interest in Engineering courses, there will be switching of classes for the spring 2018 schedule.

7.) Discussion Items

- a.) **AP and IB Credit for our Physics classes** - Jim Heath shared information on AP and IB Test Credit in Physics from our largest transfer universities, which are UT Austin, Texas State, and Texas A&M. After sharing questions, suggestions and discussing of the item, it was decided that the department would go with UT Austin's test credits for Physics. A small change will be made and will be brought back to our February department meeting and give a formal department approval.
- b.) **New Engineering degrees** – The Higher Education Coordinating Board has come up with their field of study curricula for Engineering. Therefore, the Engineering degrees have changed once again. There are now 4 field of studies for Engineering. So we now have 4 degrees. Jim Heath and faculty went over the 4 new degrees. These degrees will be offered in Fall 2018. Everyone shared their question, suggestions and concerns.
- c.) **Process for selecting EP text** – There was a discussion about whether a textbook or an electronic delivery system was better to use for our EP courses. There was also a suggestion to have different textbooks to choose from. The faculty preferred 1 textbook and having the choice of choosing their own homework system. Faculty shared their suggestions and concerns.
- d.) **Labs for EPI/EPII** – Joe Brinkley passed out a list of labs for PHYS 2425 and PHYS 2426. Starting spring 2018 for each week, Joe will send a couple of labs to faculty and get feedback and discuss the labs at every department meeting till we decide what labs will be used in PHYS 2425 and PHYS 2426 classes. Once everyone agrees on list of labs, the labs will be used in every campus. Everyone shared their suggestions and concerns. If this process works, then next year labs for PHYS 1401 and 1402 can be worked on the same.
- e.) **OER courses in degree plan** - ACC would like for us to do OER class. It was suggested that we add a couple of OER classes in PHYS 2425 and 2426 every semester. There were questions, suggestions and concerns shared. There was also a talk about homework systems for OER classes too.

8.) Action Items

- a.) **Vote on New New Engineering degrees** – By a unanimous vote, the new Engineering degrees were approved.

9.) New Business