

## **CASA Dean's MMU (Monday Morning Update)**

### ***A Tradition of Excellence; A Standard of Success***

Monday, May 1, 2017

Dear Colleagues,

This is the week before final examinations, commonly called a “dead week,” a very busy and stressful week for students, because all assignments, projects, and term papers are due, and they have to prepare for all final examinations next week. If possible, an instructor-led review for final exams is a valuable way to help students learn and reduce anxiety related to finals. Some faculty review an old exam, as many questions on the actual exam are modifications of questions asked on old exams. The rationale is that faculty know what is important for students to know, so why not tell them during a review session? Students should not have to guess what’s important to the instructor. Joanne Holladay from the University of Texas shared her interactive review experience as follows: “Plan your test review sessions to be as interactive as possible. Instead of doing the usual ‘Q and A,’ organize the material in a more meaningful way. For example, you could send out an outline of major topics in advance and have students e-mail their questions to you ahead of time. Compile a list of the best questions and ask students to prepare answers prior to the session. Direct these questions to the students in the review before answering them yourself. You should have some ‘experts’ in the audience when it is time to review. If students omitted some important questions, guide them to design questions for remaining topics. The practice in writing their own questions and answering them will be invaluable.”

In a study of student perceptions of teacher misbehaviors, Kearny et al. [1] report that a common complaint by students involved “unfair testing” practices. Students list the following faculty misbehaviors related to tests: *Asks trick questions on tests, exams do not relate to the lectures, tests are too difficult, questions are too ambiguous, and/or teacher does not review for exams* [1]. At this late point in the semester we can help students by reviewing the thought processes behind the types of questions so that students understand how best to reason and solve the questions. This practice will allow students to see that the assessment tool is fair. When students believe that assessment is fair, their anxiety levels decline.

I appreciate your hard work and look forward to a successful “term report” for CASA students through our student success initiative - NEAT. Thank you!

[1] Kearney, et al. (1991), “College teacher misbehaviors: What students don’t like about what teachers say and do,” *Communication Quarterly* 39:4, 309-324.

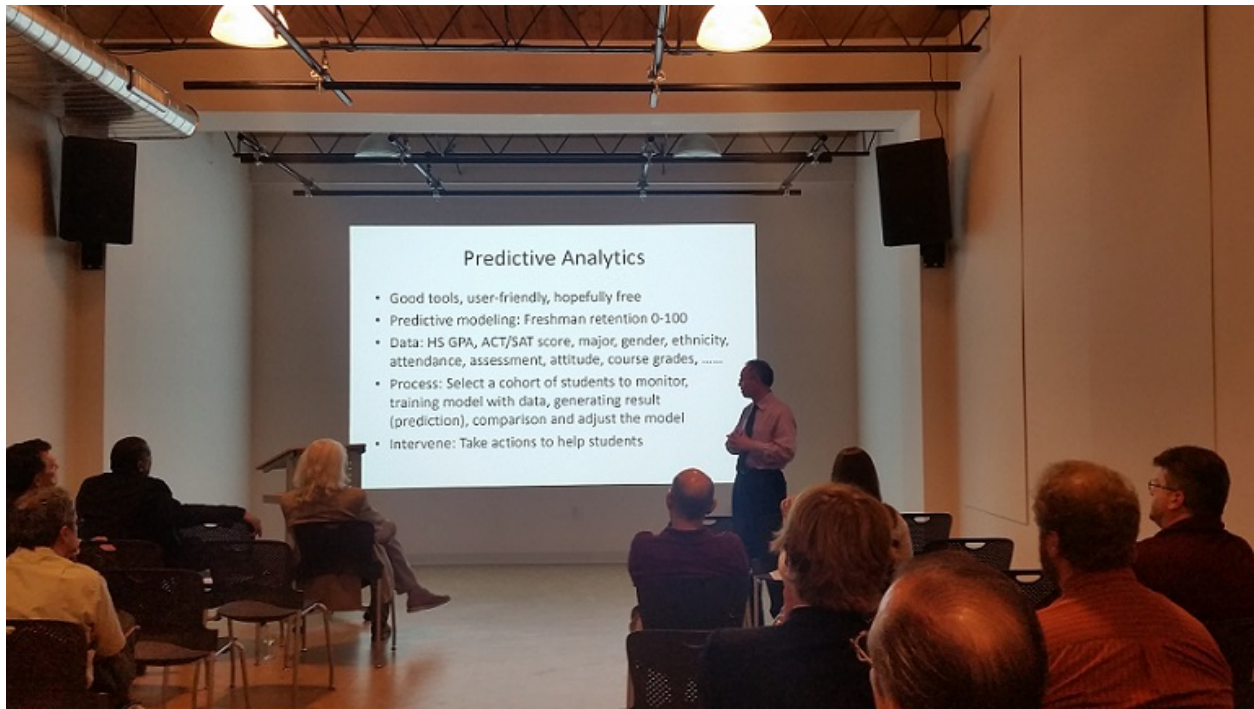
## **RESEARCH FLASH TALK**

The first CASA Research Flash Talk event took place last Friday, April 28, 2017, at the Carbondale Community Arts Center (CCA) at 304 West Walnut Street. Approximately 30 people attended the inaugural event presenting and discussing more than 20 ongoing research projects in the College of Applied Sciences and Arts.









**Predictive Analytics**

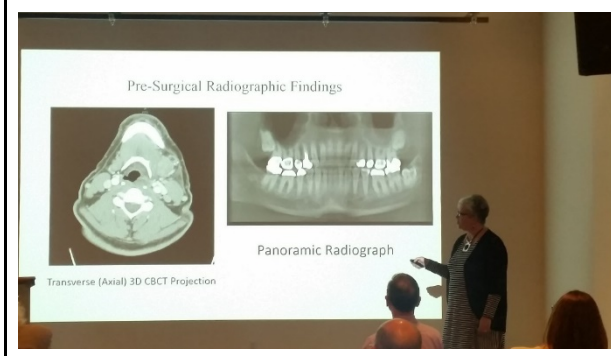
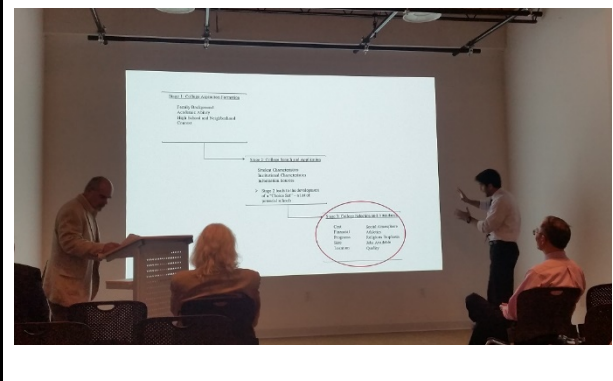
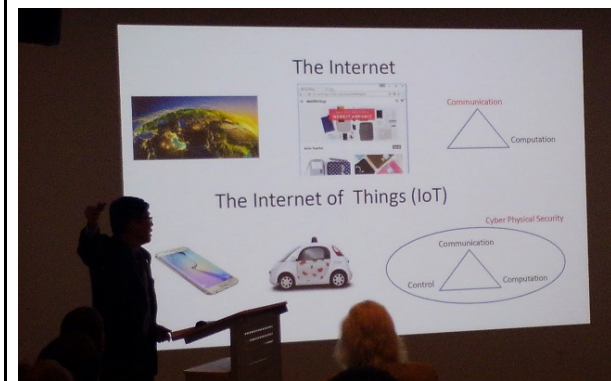
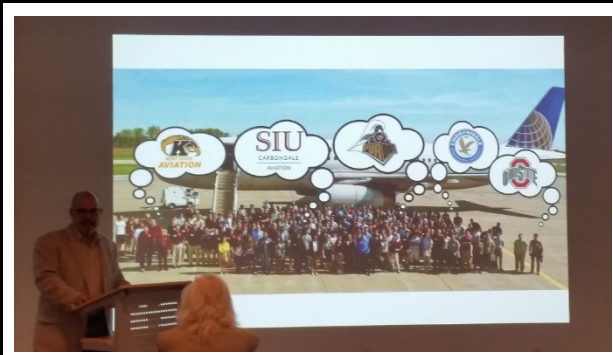
- Good tools, user-friendly, hopefully free
- Predictive modeling: Freshman retention 0-100
- Data: HS GPA, ACT/SAT score, major, gender, ethnicity, attendance, assessment, attitude, course grades, .....
- Process: Select a cohort of students to monitor, training model with data, generating result (prediction), comparison and adjust the model
- Intervene: Take actions to help students



The presentations were from 6:00pm to 8:00pm in the Conference Room of the Carbondale Community Arts Center. Each faculty presenter gave a five-minute PowerPoint “lightning” talk on her or his ongoing research project. Each faculty answered three questions about their research: “What is it?” “Why is it of interest?” and “How might the community be further involved?” Below are some of the pictures taken during the Flash Talk presentation:







A complete list of presentations and presenters is available at <http://research.asa.siu.edu/CASA%20Faculty%20Flash%20Talks/index.php>.





The College's mission places great value on conducting and communicating scholarly research. This Flash Talk event was a great opportunity to promote collaboration among faculty from different disciplines and to connect faculty with the campus and Carbondale community. The Carbondale Community Arts Center is a good place to host such an event to cultivate, nurture, and celebrate the research and creativity of our College with colleagues around campus and the community. Many thanks to the Research Committee and Dean's office staff members for organizing this event.

## CONGRATULATIONS

- Mr. **Blaine M. Heisner**, Assistant Professor of Automotive Technology, has received a Green Grant from the SIU Sustainability Council for his research proposal titled "*Repurposing SIUC*"



*Generated Waste Motor Oil (WMO) into Diesel Fuel*” in the amount of \$4,904.00. Congratulations!

This research project will increase the sustainability of the University by repurposing a waste product, used motor oil, into a useable commodity, diesel fuel. SIUC generates thousands of gallons of used motor oil each year, with each gallon incurring a disposal cost. We will now be able to reconstruct this waste into a useable fuel for our vehicles, saving the University a substantial amount of both disposal fees and fuel costs. Students will be involved with the collection, processing, and testing phases of this project. Through the Green Fund program, we can now capitalize on this unique opportunity to promote responsible and sustainable waste energy recovery to our students. We expect this project to self-sustain and continue to create financial, environmental, and social benefits for years to come.

This project will be completed April 22, 2018. Congratulations!

- Dr. **David W. Gilbert**, Associate Professor of Automotive Technology, was invited last week to present at NASA’s Goddard Space Flight Center (GSFC) in Greenbelt, Maryland as a part of their 2017 Safety Awareness Campaign. The Goddard Engineering Colloquium campaign theme for this section, “Dissenting Opinions, Speak Up: All Opinions Matter”, emphasized the importance of expressing safety concerns. Following hearings in 2010, NASA provided a report titled “Technical Support to the National Highway Traffic Safety Administration on the Reported Toyota Motor Corporation Unintended Acceleration Investigation.” Gilbert’s host was a senior member of the GSFC Metal Whisker Team that investigated Toyota accelerator pedal sensors and published ominous findings in the 2011 NASA Engineering & Safety Center Technical Assessment Report. Congratulations!

Goddard Space Flight Center, Greenbelt, Maryland 20771

**ENGINEERING COLLOQUIUM**  
Monday, April 24, 2017 / 3:30 PM, Building 8 Auditorium

**David W. Gilbert**  
**"Safety Awareness Campaign: The Toyota Acceleration Question"**

**ABSTRACT** – With the growing complexity and interaction of numerous electronic and computerized systems on today's vehicles, special attention to testing methods and details can be extremely important for safety and reliability concerns. The most elusive type of electrical problem is one that is intermittent, appearing and vanishing without any readily identifiable or traceable cause. This unfortunate scenario can be costly to repair and can compromise vehicle safety in some circumstances. It was these uncertainties that encouraged my initial research of news media reports regarding unintended acceleration of a number of Toyota vehicles.

Innocent curiosity was only the beginning of a most notable and extraordinary life experience. Prompted by my primary authoring of an electronic engine controls paper investigating Toyota electronic throttle control diagnostics, I was invited to provide expert testimony before the United States House of Representatives Committee on Energy and Commerce in February of 2010. This congressional hearing was instrumental in furthering a NASA investigation into the electronics of Toyota electronic throttle controlled vehicles. One of the key findings shown in the NASA report, was the important discovery of multiple tin whiskers found inside certain Toyota accelerator pedal sensors.

What I intend to share in this talk, is my unexpected journey surrounding what was a seemingly simple statement of fact. My presentation highlights the numerous rewards and challenges that were encountered during the prominent Toyota electronic throttle controls investigation.

**SPEAKER** – Dr. David W. Gilbert is an associate professor in the Automotive Technology Department at Southern Illinois University Carbondale (SIUC). Born and raised in Oklahoma, he received his Ph.D. from SIUC, M.S. and B.S. degrees from Oklahoma State University, and an A.S. degree from Northern Oklahoma College. As a college level educator for over 35 years, Dr. Gilbert has taught a number of automotive subject areas and has graduates employed at some of the highest levels of the industry. Engine electrical diagnostics research and performance courses have been at the specialized core of his academic success at SIUC for the past 20 years. Additional achievements include numerous technical publications, consulting, and presentations at the regional, national, and international levels.

Colloquium Committee Sponsor: Brent Warner, NASA-GSFC, 301/296-8568  
Next Week: "X-Ray Communications and Navigation", KJason Mitchell, NASA-GSFC  
Engineering Colloquium home page: <https://ecolloq.gsfc.nasa.gov>

- Professor **Norman L. Lach** of the School of Architecture arranged having the AIA (American Institute of Architects) Spring Masonry Conference on campus on Thursday, April 27, 2017. Speakers presented a number of seminars on topics in masonry to students and architects alike. Shown in the picture below is Mr. Scott Conwell of the International Masonry Institute presenting “3D Modeling in SketchUp.” Other topics included “Concrete Masonry Walls for



Mold and Moisture Prevention” and “Thermal Characteristics of Masonry Buildings.” The International Masonry Institute provided box lunches from Jimmy John’s for all in attendance. American Institute of Architects (AIA) members could earn AIA learning units and registered architects could earn continuing education units at the event. All sessions were held in the gallery in Quigley Hall. Congratulations on a great conference!



- The School of Information Systems and Applied Technologies (ISAT) hosted an ISAT Open House at John A. Logan College (JALC) on Tuesday, April 25, 2017. Fifteen (15) students and two (2) faculty members from JALC attended this event. Dr. **Sam Chung**, Professor and Director of ISAT, had a "TED Talk" presentation on the future of computing and IT (Information Technology) career paths. Some ISAT student-oriented research activities were demonstrated, along with an IST (Information Systems Technologies) senior student, Mr. Hong Jung, a member of the Minority in Computing student organization.

Karandeep Bedi, President of the student cybersecurity club at JALC Center for Information Assurance, *Logan Defenders*, invited Dr. Sam Chung to their club meeting on April 25, 2017. Two advisors of the club, Mr. Mark Rogers, Assistant Professor, and Ms. Kylee Williams, Instructor of Computer Information Systems (CIS), attended Dr. Chung’s presentation titled “*Your Promising Future with Advanced BS Degrees at SIU ISAT.*” Congratulations on a successful recruiting and outreach event!



Presenting the future of IT – the Internet, IoT, & IoE – at SIU ISAT



Discussion with JAL faculty - Mr. Mark Rogers, Assistant Professor, & Ms. Kylee Williams, Instructor

- I am pleased to communicate that **Bryan Harrison**, Associate Professor of Aviation Management and Flight, was approved for his sabbatical leave from August 17, 2017 - December 31, 2017. The Board of Trustees ratified his application on April 6, 2017. Congratulations!
- Please join me in congratulating **Gary Kistner** on establishing a distance education code for the Public Safety Management (PSM) program within the School of Architecture to be offered at Kankakee, IL effective Summer 2017. The establishment of the code enables distance education programs and courses to be aligned with the SIU Board of Trustees tuition and fee approval of Item Z at their December 9, 2010 meeting. Congratulations!
- **Tiva Amariel**, a Masters student in the Medical Dosimetry program, presented at the Chicago Area Radiation Therapists (CART) meeting during the weekend of April 24, 2017. The annual conference provides today's cancer fighting professionals with continuing education and trains tomorrow's leaders. Congratulations!





- The School of Architecture hosted an exciting and successful event last Thursday, April 27, 2017, in the SIU Student Center: 2017 Fashion Design & Merchandising Student Showcase and Runway Fashion Show. Congratulations to all faculty, staff, and students involved in this big show with huge success!

From 6:00pm to 7:00pm, student projects were displayed in the J.W. Corker Lounge and Ballroom C.



Many thanks to the following faculty and staff for helping students in the Brand Collaboration Project: Dr. **Laura Kidd**, Ms. **Shelby Adkinson**, Dr. **Siwon Cho**, Ms. **Judy Huyck**, Dr. **Seung-Hee Lee**, Mr. **John Dobbins**, and Ms. **Nadine Wojnarowski**.







Mr. Jeffrey Scott Wright, owner/designer of Jeffrey Scott Tights Guy, was the guest speaker, and Ms. **Judy Huyck** was the commentator of the Runway Fashion Show.









## **AD STAFF MEETING**

The Administrative (AD) Staff will meet on Wednesday, May 3, 2017, 9:00am - 11:30am in the Dean's Conference Room. The tentative agenda of the meeting is below:

1. Welcome, Open Forum, and Dean's Update
2. Implementation Plan for the New Permanent Budget Reduction
3. Enrollment for Summer and Fall 2017
4. Workload Assignment and Summer Teaching
5. Recruitment and Retention Discussion
6. Round Table Discussion
7. Critical Deadlines and Other Business

If you have any specific items that you feel the Administrative Staff should consider at the meeting, please send me your suggestions before 1:00pm Tuesday, 5/2/2017. All faculty and staff are invited to the open forum section of the Administrative Staff meeting from 9:00am - 9:30am.

## **BIGDOG DATA ANALYTICS**

How to assemble DNA using SIU's BigDog supercomputer? A public workshop is on Tuesday, May 2, 2017, in Morris Library Room 174 from 9am to 11am. Dr. Chet Langin of OIT Research Computing and Dr. Matt Geisler of Plant Biology will make a joint presentation. Langin will lead a workshop at 9am on the technical aspects of submitting DNA assembly jobs to BigDog. Training accounts will be available for attendees to submit their own sample jobs. While the jobs are running, at 10am Geisler will make a presentation on how the MaSuRCA program is doing the assembly and on how to set the parameters for a biologically correct job. Most of the jobs should be finished by 11am at which time we will conclude the workshop. As an XSEDE Campus Champion, Langin uses methods that facilitate migration to the best research supercomputers in the United States. The public is invited. Join some or all of the presentation; participate in the hands-on part or just watch.

## **ON THIS WEEK'S CALENDAR**

- Monday, May 1, 2017: 11:30am - 1:00pm, Seminar Talk: "What Do Investors Want and Why?" Dunn-Richmond Economic Development Center.
- Tuesday, May 2, 2017: 10:00am - 12:30pm, Deans Council Meeting, Anthony Hall Balcony Conference Room.
- Wednesday, May 3, 2017: 9:00am - 11:30am, CASA Ad Staff Meeting, Dean's Conference Room.
- Thursday, May 4, 2017: 1:00pm - 3:00pm, Ft Leonard Wood/Army Engineers School Tele-Conference, Dean's Conference Room.
- Friday, May 5, 2017: 5:00pm - 9:00pm, Celebration of SIU Foundation 75th Anniversary, presentation of the first Foundation Awards.

## **AND FINALLY ...**

If you see something in this update that you want to comment on, please send an email to [awang@siu.edu](mailto:awang@siu.edu); or call me at 618-536-6682. Also, if you know of anyone interested in receiving the CASA Dean's MMU, please ask them to send me an email and we will gladly add them to our mailing list. If you prefer not to receive the CASA Dean's MMU, please let me know, as well. Thank you.

Andy Ju An Wang, Ph.D.  
Dean, College of Applied Sciences and Arts