ISAT GOALS of 2016-2017 ACADEMIC YEAR
3S: Making ISAT Stable, Sustainable, and Successful
1) Make ISAT Stable – Stable Enrollment
2) Make ISAT Sustainable – Sustainable Curriculum
3) Make ISAT Successful – Successful Research & Creative Activities

Due to EST Off-campus and IST curriculum improvement, ISAT Director’s TMU has been delayed. Since all proposals of curriculum improvement were submitted on October 3, 2016, this TMU will be continued. All ISAT faculty supported the curriculum improvement through one EST Program Description and five IST Reasonable and Moderate Extensions (RMEs).

ANNOUNCEMENT
• ASA Multidisciplinary Research Symposium
  o URL: http://research.asa.siu.edu/symposium/index.php
  o When: Friday, October 14 10:00 AM – Saturday 15, 2016 4:00PM
  o Where: SIU Transportation Education Center (TEC)

  All of you are invited. ISAT faculty and students have been involved in this symposium through panel, presentation, and poster.

• Electronic Systems Technologies (EST) Off-Campus Curriculum Update:
  Cyber Security & Management Toward the Internet of Things (IoT)
  EST off-campus Electronic Management (ELM) Specialization now provide the students with Cyber Security electives. The electronic devices are being transformed to smart objects with embedded sensors, onboard data processing capability, and a means of communication especially equipped with the Internet. This rapidly evolving field called the Internet of Things (IoT) needs understanding of Cyber Security and Management of modern electronic systems. Congratulations!

  o EST Core Requirements (12 credit hours)
    EST 340, 341, 451, and ISAT 366
  o Management Requirements (15 credit hours)
    EST 365, 385, 387, 388, and IST 404
  o Cyber Security Requirements (15 credit hours)
    EST 342, 404, ISAT 316, 335, 360 or 415
• **Information Systems Technologies (IST) Curriculum Updates**
  All ISAT tenure-track/tenured faculty **unanimously** supported the approvals of **five** Reasonable and Moderate Extensions (RMEs) for the future of Information Technology (IT) and Information Systems (IS) degrees. Congratulations!

  - Proposed Degree Name Change of BS in Information Systems Technologies (IST) to **Information Technology (INTE) and Information Systems (INSY)**
  - Proposed Minors in Information Technology (INTE) and Information Systems (INSY)
  - Proposed **Two Specializations** in Cyber Security and Web & Mobile App Development
  - Proposed Addition of **Online Post-Baccalaureate Certificate** in Cyber Security
  - Proposed Addition of **Online Post-Baccalaureate Certificate** in Applied Data Analytics

**EVENTS**

• **Information Systems Technologies (IST) Advisory Committee Meeting**
  The IST degree program has the annual IST Advisor Committee meeting (Chair - Ms. Belle Woodward, Associate Professor of IST) on **Wednesday, October 5, 2016**, which is the day after the SIU STEM Career Fair, from 8:30 AM to 3:30 PM in ASA C09D. Total eight advisory committee members attended the meeting. In the morning session, the advisory committee members served the panel discussion of the future professional careers of IST students. After that panel, all students had a group meeting with each advisory committee member. In the afternoon session, the advisory committee members met IST faculty and student representatives of student organizations to share their views of technology trends that may affect IST curriculum. Also, the future plans of IT and IS degrees, IT and IS minors, two specializations in Cyber Security and Applied Data Analytics, and two online –post-baccalaureate certificates in Cyber Security and Applied Data Analytics, and ABET CAC accreditation preps were shared with 10% enrollment growth in AY 2015 and 8.5% in AY 2016. The advisory board members below attended and helped IST program:

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
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</thead>
<tbody>
<tr>
<td>Dan Davis</td>
<td>Trustwave</td>
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<tr>
<td>Alden Hutchison</td>
<td>IBM</td>
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<tr>
<td>Camelle Logan</td>
<td>Teaming Solution</td>
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<td>John Morgan</td>
<td>Sentinel Technologies</td>
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<td>Alex Glasnovich</td>
<td>Boeing</td>
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<td>Josh Backfield</td>
<td>SPARC</td>
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<tr>
<td>Benjamin Yablonka</td>
<td>Boeing</td>
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<tr>
<td>Scott Bridges</td>
<td>SIU CIO</td>
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Introducing IST Advisory Committee Members

One-on-one meeting with the IST Advisory Committee Members after the Panel Presentation

Dr. Wang, CASA Dean, welcomes the IST Committee Members

Opening Discussion with IST Advisory Committee Members

• **The Boeing talk on Monday October 3, 2016**
  Mr. Jim Sissom, IST Associate Professor, invited IST alumni who are working at Boeing to his classroom on Monday, October 3, 2016. Two IST alumni, Alex Glasnovich and Benjamin Yablonka, shared their experiences at Boeing. Ms. Paris Forest, Senior Manager, introduced many opportunities at Boeing.

Prof. Jim Sissom (left), Alex Glasnovich (left), Benjamin Yablonka (center), and Paris Forest (Senior Manager, not shown)
• **Study Abroad on Monday, September 19, 2016**
Ms. Belle Woodward, IST Associate Professor, and Dr. Sam Chung, ISAT Director, met Dr. Andreas Grzemba, Vice President Research and Knowledge Transfer at Deggendorf Institute of Technology to discuss Study Abroad on Monday, September 19, 2016.

![Prof. Belle Woodward (left), Prof. Dr. Andreas Grzemba (center), Dr. Sam Chung (right)](image)

• **SIU Family Day on Saturday, September 17, 2016**
ISAT participated in the SIU Family Day event from 1:30 PM to 10:00 PM on SIU campus. From 1:30 PM to 3:00 PM, Dr. Sam Chung, ISAT Director, supported the meeting with Southern Illinois Prospective students. Then, Dr. Chung joined the SIU Family day event near the SIU Football Stadium. CASA Dean, Associate Dean, Chief Academic Advisor, and Directors/Chairs supported the event.

![Southern IL Prospective Students](image) ![CASA Administration Team](image)

• **SIU Movie Night on September 16 (Fri.) and 23 (Fri.), 2016**
Mr. Martin Hebel, EST/IST Associate Professor, and Mr. Andrew Green, EST Senior, volunteered to support SIU Movie Night (Finding Dory) on September 16 and September 23 from around 6:15 to 6:45. A robot called DawgZooka was demonstrated to shoot a T-shirt to participants. Many kids enjoyed playing with the DawgZooka robot.
Mr. Martin Hebel (EST, Associate Professor) and Mr. Andrew Green (EST Senior) helped the kids to play with DawgZooka in order to shoot a t-shirt.

- **DuQuoin State Fair on Sunday, August 28, 2016**
  ISAT participated in the SIU event at the DuQuoin State Fair, DuQuoin, IL on Sunday, August 28, 2016 from 1:30 PM to 5:30 PM. Dr. Sam Chung, ISAT Director, Ms. Shannon Gwaltney, ISAT Academic Advisor, and Mr. Alan Park, IST Senior, supported the event to introduce ISAT programs to all attendees. The tent was opened at 2 pm with a Welcome from President Dunn and Interim Chancellor Colwell. At that time, the Chancellor introduced Vice Chancellors, Deans and Directors. The day continued with a variety of activities and speakers throughout the day to highlight many of SIU’s amazing programs!

- **Cerner’s University Summit on June 22-23, 2016**
  Dr. Sam Chung, ISAT Director, was invited to attend the Cerner University Summit from June 22 (Wed.) – 23 (Thurs.) in Kansas City, MO. The Cerner event introduced many professional career opportunities in Health Information Technology (HIT) for the IST degree program.
CONGRATULATIONS

• The Technical Resource Management (TRM) program in the School of Information Systems and Applied Technologies (ISAT) is offering TRM 332-900 Labor Management Relations on John A. Logan College’s (JALC) campus in Carterville. As of Friday, September 2, 2016, the enrollment of this course is eleven (11 students). Considering this is the first offering with short time planning and marketing, this is a successful start. Congratulations to Dr. John Legier, Dr. Sam Chung, Ms. Shannon Gwaltney, and other ISAT faculty and staff on this successful launch of another off-campus program!

• Mr. Martin Hebel, Associate Professor of EST, attended Sensors Midwest Expo 2016 and Industrial Internet of Things (IIoT) training from September 27-28 at the Donald E. Stephens Convention Center in Rosemont, IL.

• Mr. Martin Hebel, Associate Professor of Electronic Systems Technologies, has a patent as a co-inventor accepted and approved by the US Patent and Trademark Office recently. This is the first patent in CASA within the last four years to be formally approved by the US Patent Office.

• Jonathon Farmer (IST Student) and Hallie Martin (IST student) received $1,000 SI3C NSA Scholarship Program awards. Over thirty students registered to participate in this round of the program and nine will receive awards. The recipients successfully completed the required cyber security exercises and were judged to have the top essays by a panel of thirteen information technology professionals from academia, private industry, and law enforcement.

• The Undergraduate Assistantship (UGA) applications for the 2016-2017 academic year have been completed and awards have been issued.
  o Mr. Tom Imboden, Associate Professor of IST: one position, 10 hours, Fall 2016 and Spring 2017
  o Dr. Sam Chung, Professor and Director of ISAT: one position, 20 hours, Fall 2016 and Spring 2017


• Dr. Andrey Soares, Associate Professors of Information Systems Technologies (IST), received an NLM/NIH postdoctoral fellowship in the Computational Bioscience (CompBio) Program in the School of Medicine at the University of Colorado Denver, and he will take an educational leave from August 1, 2016 to August 15, 2017 at Anschutz Medical Campus, Aurora, CO to gain research and hands-on experience in the development of decision support systems to support predictions and treatment recommendations in the area of health/medical informatics, and that explore data science and analytics techniques.

• Dr. Sam Chung, Professor of Information Systems Technology (IST) and Director of the School of Information Systems & Applied Technologies (ISAT), has a conference publication (6 pages) forthcoming at the 5th Annual Conference Research in Information Technology (RIIT) 2016 in Boston, MA (September 28 – October 1, 2016). This conference has been sponsored by a prestigious ACM Special Interest Group of Information Technology Education (SIGITE). The title of the paper is “Architecture-Driven Penetration Testing against an Identity Access Management (IAM) System.” Co-authors are Sky Moon and Barbara Endicott-Popovsky.

• Dr. Sam Chung, Professor of Information Systems Technology (IST) and Director of the School of Information Systems & Applied Technologies (ISAT), has a conference publication (6 pages) forthcoming at the Annual Consortium for Computing Sciences in Colleges (CCSC) Northwestern Conference 2016 in Portland, OR (October 7-8, 2016). This conference has been sponsored by the CCSC National. The title of the paper is “Identifying Knowledge, Skills, and Abilities (KSA) for DevOps-Aware Server Side Web Application with the Grounded Theory.” Co-authors is Soon Bang.

AND FINALLY …
If you see something in this update that you want to comment on, please send me an email at my SIU email SamChung@siu.edu. Also, if you know of somebody who might be interested in receiving the ISAT Director’s TMU, please ask them to send me an email and we will gladly add them to our mailing list. On the other hand, if you prefer not to receive the ISAT Director’s TMU, please let me know as well. Thank you.