AGENDA

1. Introduction of new dean & department chairs
2. Introduction of new faculty
3. Celebrating last year’s successes
4. Priorities for 2018-19
5. Questions/comments from the floor
From my February 6, 2018 Open Forum...

Leadership philosophy

- No PowerPoint!
Many thanks to Bruce Seely!

2002-2008   Social Sciences Department Chair
2008-2018   CSA Dean

<table>
<thead>
<tr>
<th></th>
<th>2007-08</th>
<th>2017-18</th>
</tr>
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<tbody>
<tr>
<td>Tenure Track Faculty</td>
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<td>165</td>
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<tr>
<td>NTT Faculty</td>
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<td>29</td>
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<td>External Awards</td>
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<tr>
<td>Publications</td>
<td>175</td>
<td>~330</td>
</tr>
</tbody>
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Hired more than 150 faculty!!
Coffee!!

“Warrington House”

Adam at Quincy Mine

Dave and Ginny

CrossFit Kids
Meghan & Ben
New Interim Department Chairs

**John Jaszczak-Chemistry**
John has been on the faculty at Michigan Tech for 27 winters. His interests include nanotechnology education, computer simulation of electron transport in nanoscale devices, and mineralogy. He is Professor of Physics.

**Megan Frost- KIP**
Megan joined the faculty at Michigan Tech in 2007, and is associate professor of biomedical engineering. The focus of her research is applying technology to better understanding biological response to materials and devices in such things as wound healing, implantable sensors, catheters, ECMO circuits and membranes, etc

**Zhenlin Wang- Computer Science**
Zhenlin Wang received his PhD in Computer Science from the University of Massachusetts, Amherst in 2003, and then joined Michigan Tech as an assistant professor in the same year. He was promoted to associate professor in 2009 and full professor in 2015. He served as the graduate director of the Department of Computer Science from 2012 to 2017. His research interests lie broadly in compiler, computer architecture, operating system and cloud computing. He was an NSF Career Award recipient.
Air Force ROTC

Staff Sergeant Vincent E. Boven: Administrator

Staff Sergeant Vincent E. Boven is the Noncommissioned Officer in Charge for AFROTC Administrative Programs, Detachment 400, Michigan Tech University. SSgt Boven controls technical management of Detachment 400 Operations for AFROTC Cadre and Cadet personnel.

Staff Sergeant Boven entered the Air Force in 2009 as an F-16 Avionics Specialist. He has held various positions and duties including COMSEC Responsibility Officer, Flight Line Expeditor, and most notably the Avionics Lead for Air Combat Command’s Heritage Flight Demonstration Team. SSgt Boven has been assigned to installations in the United State, The Republic of South Korea, and deployed in Support of Operation ENDURING FREEDOM. Before assuming his current position, he served as the Noncommissioned Officer in Charge, Air Forces Central Command Headquarters at Shaw Air Force Base, South Carolina.
Lieutenant Colonel Thompson was most recently Commander of the 864th Engineer Battalion and Division Engineer for the 7th Infantry Division. His operational deployments include NATO Kosovo Force, Operation Iraqi Freedom II, Operation Iraqi Freedom 06-08 during Surge Operations in Baghdad, and Operation Enduring Freedom XIII.

He is a Genocide Studies Fellow and lifetime member of the Auschwitz Institute for Peace and Reconciliation. He is also a lifetime member of the Army Engineer Association.

His awards and decorations include three Bronze Star Medals, five Meritorious Service Medals, four Army Commendation Medals, two Army Achievement Army Achievement Medals, the Humanitarian Service Medal, two NATO Medals, the Combat Action Badge, the Gold German Armed Forces Badge for Military Proficiency, and the Bronze Order of the DeFleury Medal. He and his wife, the former Michelle Norris of Lansing, Michigan, have been married for over 25 years and have four children, Melissa, Lauren, Madison, and Noel.
Dr. Paul Goetsch joins the Biological Sciences department as assistant professor of genome editing and bioinformatics. He comes to Michigan Tech from the University of California, Santa Cruz where he spent the last two years as an American Cancer Society’s postdoctoral fellow. Paul received his PhD from University of Wisconsin, Madison in 2015. His research interests are developmental biology and epigenetics, and how they could be applied to the diagnosis and treatment of human diseases like cancer.
Dr. Chunxiu Yu (Traci) joins the Biological Sciences department as a Research Assistant Professor. She works with Deep Brain Stimulation (DBS) and Parkinson’s Disease (PD). Traci came to MTU from Duke University and she has already brought in one NIH grant with her. Traci graduated from the Weizmann Institute of Science, Israel with a doctoral degree in Neurobiology. The long term goal of her work is to understand the circuit mechanisms underlying the therapeutic effects of DBS for PD using a combination of electrophysiology, anatomy, optogenetics and behavior.
Dr. Taylor received her Ph.D. in Cognitive and Instructional Psychology from Grand Canyon University. Kamara joins us following a 1-year visiting position at Finlandia University. Once settled in she will take over advising and internships.
Gorkem Asilioglu: Lecturer (cybersecurity)

Mr. Gorkem Asilioglu joined the Department of Computer Science as a lecturer this fall. He came to Michigan Tech in Fall 2011 as a PhD student and is expected to receive his doctoral degree this semester. Gorkem teaches computer systems-related courses and algorithms.

Shuai Wang: Lecturer (ability to teach across the CS curriculum)

Dr. Shuai Wang joined the Department of Computer Science as a lecturer in the Spring. He received his PhD from New Jersey Institute of Technology in 2010 and was a faculty member of the Department of Computer Science and Technology of Nanjing University before he joined Michigan Tech. His teaching interest lies in computer systems and theoretical foundation of computer science.
Kyle Bolen: Lecturer (kinesiology, sports management, or closely related field)

Kyle Bolen joins the Department of Kinesiology and Integrative Physiology with over 10 years of experience as a strength and conditioning coach and instructor. He has worked with organizations including the Altoona Curve (AA affiliate of Pittsburgh Pirates), Central Michigan University, Beaufort County Community College, North Carolina State University and the University of Northern Colorado. He earned his bachelor’s degree in Public Health and Education Health Promotion and a master’s in Exercise Science both from Central Michigan University.

Carolyn Duncan: Assistant Professor (human biomechanics)

Dr. Carolyn Duncan joins the Department of Kinesiology and Integrative Physiology as an assistant professor focusing on biomechanics. Dr. Duncan earned her bachelor’s degree in Kinesiology and a master’s of Occupational Biomechanics both from the University of New Brunswick. She earned her doctorate in Mechanical Engineering from Memorial University.
Mathematical Sciences

David Hemmer: Professor and Dean (abstract algebra)

Dr. David Hemmer joins MTU as Dean, College of Sciences and Arts, and Professor of Mathematical Sciences. He earned his BA from Dartmouth College in 1996 and PhD in 2001 from the University of Chicago. Most recently he was at the University at Buffalo, SUNY for eleven years, the last six as chair of the mathematics department.

Ray Molzon: Lecturer

Dr. Ray Molzon earned his PhD from Michigan Tech in 2012, writing his dissertation in probability theory. He joins the department as a Lecturer in Statistics and will support the new online master's degree in Applied Statistics. He will also act as a mentor for the new Data Science Enterprise.
Dr. Xi received his bachelor's degree in Geoinformatics (GIS) from Beijing Normal University (2007), and his PhD in Atmospheric Sciences from Georgia Tech (2014). He completed a two year postdoctoral fellowship at NASA Ames Research Center (Mountain View California), and moved to the Center for Satellite Application and Research of NOAA (College Park, Maryland) as a research associate, prior to his appointment at MTU this fall.

At NASA and NOAA, he worked on a number of projects by developing new atmospheric model tools to study the sources and sinks of trace gases from airborne observations, and to improve the satellite monitoring of global sea surface temperatures. His broad research interest is the synergistic application of atmospheric models and remote sensing data to study the life cycle of atmospheric gases and aerosols, and their impact on the climate, ecosystems and air quality. His recent research activity is to use satellite data for predicting particulate matter exposure of urban populations.
Shan Zhou: Assistant Professor of Environmental and Energy Policy

Dr. Zhou's research examines the impacts of policies on the development of a smart grid and on the dissemination of renewable energy technologies. In her teaching, she will be contributing to the department's Environmental and Energy Policy graduate program and the Sustainability Science and Society undergraduate program. Dr. Zhou received her PhD in Public Policy, with a concentration in environmental and energy policy, from Georgia Tech.

Laura Rouleau: Lecturer in History.

Dr. Rouleau, who was a visiting assistant professor last year, joins the department this year as a lecturer. In addition to teaching courses such as "The Automobile in America" and "The History of Privacy," she will be contributing to an assessment of the historic resources associated with the Pullman National Monument in Chicago. Dr. Rouleau’s PhD is from the University of Delaware, where she examined how the use and perception of private spaces (such as bathrooms) has changed over time in association with technological and other cultural changes.
CSA Department Accomplishments

Air Force ROTC

• 72 cadets (up ~30% from last Fall term)

• Filled all 12 room & board scholarship slots very quickly this year plus 6 additional high school scholarship program (HSSP) recipients who decided to come.

• Drill team took 2nd place out of 14 teams with the smallest team of 9 at the National Drill Competition, something we haven't competed in in many years.

• Drove 26+ hours round trip to Wright-Patterson AFB to do a base tour and saw many of the upcoming technological advancements in the USAF and research our students will be involved in within the next decade.

• Retention has increased (at 90%+) from previous year.

• Highest percentage (36%) of Distinguished Graduates/top 5% of the class per capita at field training (our summer boot camp) in the region.

• 95% of our summer professional development applicants get selected to attend optional training (ie-learning new language, seeing operational base, jumping out of planes, etc.)
Army ROTC

- Eight cadets in the Cultural Understanding and Leadership Program (CULP) over the summer. They took a basic language course, and partnered with host nation militaries for one month of training.

- Two cadets completed Army internships, one with the US Army Corps of Engineers and one with the Army Testing and Evaluation Command (ATEC).

- Fifteen cadets completed their required summer advanced camp at Ft. Knox, KY. Events include a 12-mile road march, physical fitness test, obstacle course, land navigation training, communications training, medical training, rifle qualification, and rappelling from a 40-foot tower. Cadet Eychaner was one of only 16 out over 6,000 nationwide to achieve the highest award for summer camp, called the Recondo Award.

- Two cadets conducted training with active duty Army units for one month.

- One cadet completed the Army Air Assault School where he learned how to rappel from helicopters, prepare equipment to be sling loaded by Army aviation, and create landing zones for aviation. He is now authorized to wear the Army Air Assault wings.

- We are on track to commission six cadets as 2nd Lieutenants in December.
Biological Sciences

• Brigitte Morin won a University-wide Teaching Excellence award; Marcarelli, Techtmann and Tumban were nominated (Four for the first-time)

• The Medical Laboratory Sciences program had a successful NAACLS accreditation visit in April 2018; Final approval coming in Fall 2018

• Faculty achieved a record-high funding of $12 million in last five years as PIs or Co-PIs; ~86% faculty have external grants.

• New funding of ~$1.4 million: **HUD**, $492,633 (Rupali Datta); **NIH**, $465,864 (John Durocher), **NSF**, $397,019, Thomas Werner

Promotions:

Rupali Datta  Professor
Thomas Werner  Associate Professor with Tenure.
Chemistry

• New Chem Stores facilities is completed and operational, now under the office of Compliance, Integrity and Safety

• Welcomed fourteen new graduate students this fall.

Cognitive and Learning Sciences

• CLS is undergoing some transformation this year, which unfortunately includes the shelving of teacher ed certification programs.

• Redirecting our efforts toward Human Factors program with multiple hires over next couple years.

• New grant “Motor Learning as a Sensitive Behavioral Marker of Mild Cognitive Impairment and Early Alzheimer's Disease” awarded to Asst. Prof Kevin Trewartha (PI) from NIH ($456,000)

• Department research funds from active projects last year = $1.5 million
Computer Science

- **Dr. Keith Vertanen** received an NSF Career Award

- 32% increase in first-year enrollment (from 141 to 186); 541 undergrads (all time high)

- 7 publications in the most selective and most prestigious computer science conferences per csrankings.org
  - **Bo Chen**: 2017 ACM Conference on Computer and Communications Security (CCS)
  - **Bo Chen**: 2018 AAAI Conference on Artificial Intelligence (AAAI)
  - **Soner Onder**: 2018 International Conference on Supercomputing (ICS)
  - **Soner Onder**: 2018 International Symposium on Computer Architecture (ISCA)
  - **Keith Vertanen**: 2018 SIGCHI Conference on Human Factors in Computing Systems (CHI)
  - **Zhenlin Wang**: 2018 International Symposium on Computer Architecture (ISCA)
  - **Zhenlin Wang**: 2018 European Conference on Computer Systems (EuroSys)
Books published and forthcoming by HU faculty 2017-2018

Carlos Amador, *Ethics and Literature*

Dana Van Kooy, *Shelley’s Radical Stages*

Stephanie Carpenter, *Missing Persons*

Beatrice Smith, *Culture and Technology*

Syd Johnson, *Chimpanzee Rights*

Syd Johnson, *Handbook of Neuro-ethics*

Marcelino Viera Ramos, *Exposing Paraguay*

Diane Shoss, *Domestic Violence in Hollywood Film*

Forthcoming soon:

Syd Johnson, *Neuroethics and Nonhuman Animals*

Marcelino Viera, *Modernidad Sublimada*

Ramon Fonkoue, *Nation without Narration*

Sue Collins, *Calling All Stars*
Kinesiology and Integrative Physiology

- 5 active NIH awards in the department, including Professor Jason Carter’s $1.8M NIH R01 “Alcohol and Neurovascular Control in Humans”
- PhD program is in its second year and has grown to 6 students
- First external review in program history takes place Sept 30-Oct 2

Mathematical Sciences

- Vladimir Tonchev has been named one of the inaugural Distinguished Professors at Michigan Tech.
- The fourth Kliakhandler Conference, on Graph Decompositions, was held August 9--11. 35 mathematicians from the United States and several other countries participated.
- Nick Trefethen from Oxford will deliver the fourth annual Kliakhandler Lectures on October 4 and 5. The first lecture, "The Mathematics of the Faraday Cage", will be aimed at a general audience, so please plan to attend if possible.
Physics

- Yoke Yap received the 2018 MTU research award.
- Physics graduate students (Brisbois (Huentemeyer), Waters (Pandey) and Capek (Mazzoleni) received DOE graduate fellowships.
Social Sciences

- New Undergraduate Program **Sustainability Science and Society**
- Dr. Richelle Winkler won the Distinguished Teacher Award
- Dr. Nancy Langston was in the inaugural class of Distinguished Professors
- Dr. Roman Sidortsov won the Jackson CTL Award for Large Class Teaching
- Examples of successful community engagement projects led by faculty
  - **L'Anse "community solar" feasibility study** (class project)
  - **Autonomous vehicle in rural areas: survey of concerns** (class project)
  - **GRACE project** *(Geographic Information Systems Resources and Applications for Career Education)* (funded project to engage high school students in using GIS)
Visual and Performing Arts

$15,000 Michigan College for the Arts and Cultural Affairs grant for Rosza Presenting Series

**Visual Art:** Art installations at the University of Iowa Department of Psychological and Brain Sciences (Anne Beffel), City of Shoreline (Anne Beffel), Soo Visual Arts Center, Minneapolis (Lisa Gordillo), Centro Cultural Efrain Recinos, Quetzaltenango, Guatemala (Lisa Gordillo).

**Music:** Performance of “Leaves of Grass” with Fred Hersch Ensemble at Jazz at Lincoln Center, NYC (Mike Christianson), Performances (Europe, Canada, and NYC) and recording with John Hollenbeck Large Ensemble (Mike Christianson), World Premiere of “Lakescape” as a part of the NEA-funded *Listening to Parks* (Libby Meyer, composer / Joel Neves, conductor), Composer in Residence, Visby, Sweden (Libby Meyer), Conducted the Orquesta Sinfonica de Entre Rios, Argentina (Joel Neves)

**Theatre:** Sound Designs for Ohio Light Opera (Christopher Plummer), Assistant Production Manager for National Order of the Arrow Conference (Kent Cyr), Pine Mountain Music Festival production of *Carmen* (Joel Neves, artistic director, Kent Cyr, technical director and stage designs, Mary Cyr, costume design), beginning of new puppetry initiative in department (Patricia Helsel)
Visual and Performing Arts ctd...

Sound: *Listening to Parks*, NEA-supported multi-media installation commemorating the 100th anniversary of the National Parks Service. (Christopher Plummer, Kent Cyr, Libby Meyer), *Keweenaw Culture Project*, phase 1 audio/video interviews with varied residents of the Keweenaw Peninsula, forthcoming new theatrical work and production based on the phase 1 interviews (Josh Loar).

Rozsa Center: Total of 163 events hosted in our public venues. 46 ticketed events, 4 public lectures, 8 art exhibitions, other student, university, rental events. VPA/Rozsa event attendance: 12,291. Total attendance/participation (all hosted events) 47,351.
Dave’s Priorities 2018-19

1. Recruitment and Retention, Enrollment
2. Development
3. External Funding
4. Promotion and Tenure- 20 cases.
5. New hiring and faculty retention.
6. Flexible budget model
7. Begin strategic planning, formulate vision for CSA
Recruitment & Retention

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<tr>
<td><strong>FIRST TIME FRESHMAN</strong></td>
<td>324</td>
<td>403</td>
<td>286</td>
<td>280</td>
<td>262</td>
<td>276</td>
<td>250</td>
<td>217</td>
<td>261</td>
<td>308</td>
<td>273</td>
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<tr>
<td><strong>FIRST TO SECOND YEAR STANDARD RETENTION</strong></td>
<td>80.5</td>
<td>76.9</td>
<td>76.9</td>
<td>73.4</td>
<td>81.4</td>
<td>79.0</td>
<td>78.6</td>
<td>80.0</td>
<td>80.2</td>
<td>79.3</td>
<td>76.0</td>
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- New Retention and Success Task Force
- Given our academic profile, 90% retention should be the target.
- Admissions will buy far more names.
- Target departments with low yield rate.
- Need to grow every year just to cover fixed costs.
$ Development $

• Annual fund giving rate only about 7%.

• President plans “centralized-decentralized” model.

• Endowment is far too small, around $100 million.

• Need help from all faculty and chairs meeting with alumni.

• Pass exciting development opportunities on to chairs and the dean.

• Many successful international alums have been neglected.
### Fall 2018 Enrollment Updates (9/10/2018)

#### Fall Headcount

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<tr>
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<th>Total</th>
<th>Change</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Total</td>
<td>7,194</td>
<td>-118</td>
<td>1.63%</td>
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<td>No College</td>
<td>109</td>
<td>+12</td>
<td>12%</td>
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<tr>
<td>SBE</td>
<td>393</td>
<td>-2</td>
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<td>CoE</td>
<td>4,491</td>
<td>-192</td>
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<tr>
<td>SFRES</td>
<td>236</td>
<td>+10</td>
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<tr>
<td>CSA</td>
<td>1592</td>
<td>+57</td>
<td>4%</td>
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<tr>
<td>SOT</td>
<td>373</td>
<td>-3</td>
<td>1%</td>
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#### New Freshmen:

|            | 1246  | -77    | 6%         |

#### Graduate Students

<p>| | | |</p>
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<tr>
<td>New Master’s Applicants</td>
<td>3278</td>
<td>-716</td>
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<tr>
<td>New Master’s Registered</td>
<td>290</td>
<td>-58</td>
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<tr>
<td>New Doctoral Applicants</td>
<td>1294</td>
<td>-147</td>
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<tr>
<td>New Doctoral Registered</td>
<td>112</td>
<td>+33</td>
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</table>

#### First to Second Year Undergraduate Retention

83.4% (+.3%)
• New awards in CSA have been trending down for several years.

• VPR wants MTU involved in more large collaborative proposals.

• Departments should look for larger opportunities to fund their graduate programs.

• VPR also talking about “centralized-decentralized” model and evaluating REF program for ROI.

• Latest federal budget NIH +8.7%, NSF +4%, NASA +8%.
Promotion and Tenure

• Plan to implement guidelines of CAPTR recommendation to University Senate.

• Try for at least five external letters.

• ~20 cases in CSA this year.

• Should the process be more transparent?
2018-19 CSA Faculty Searches

1. **Biology**: Comparative Animal Physiology
2. **Chemistry**: Open Chair Search
3. **CLS**: Human Factors (multiple positions)
4. **Computer Science**: Faculty Position TBA, Chair Search on hold.
5. **Humanities**: Open Chair Search
6. **Kinesiology**: Open Chair Search
7. **Physics**: Astrophysics
8. **Social Sciences**: Anthropology or Geography
9. **VPA**: Jazz Studies

Interdisciplinary? SFHI replacement for Philart Jeon. Additional Hire pending budget?
# CSA Budget for 2018-19

<table>
<thead>
<tr>
<th></th>
<th>Salary &amp; Wages</th>
<th>SS&amp;E</th>
<th>GTAs (Grad School)</th>
<th># of GTAs</th>
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<td>BL</td>
<td>$1,902,863</td>
<td>$50,767</td>
<td>$322,098</td>
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<tr>
<td>*CH</td>
<td>$1,834,638</td>
<td>$128,178</td>
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<td>*CLS</td>
<td>$885,233</td>
<td>$213,330</td>
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<td>*CS</td>
<td>$2,184,757</td>
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<td>HU</td>
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<td>MATH</td>
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<td>$36,127</td>
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<td>Dean</td>
<td>$497,250</td>
<td>$84,137</td>
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<td>ROTC</td>
<td>$76,323</td>
<td>$6,575</td>
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<td><strong>TOTALS 2018-19</strong></td>
<td><strong>$19,478,171</strong></td>
<td><strong>$854,767</strong></td>
<td><strong>$4,560,319</strong></td>
<td><strong>126.5</strong></td>
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<td>TOTALS 2017-18</td>
<td>$19,306,654</td>
<td>$667,752</td>
<td>$4,363,468</td>
<td>126.5</td>
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<td>TOTALS 2016-17</td>
<td>$18,923,867</td>
<td>$475,287</td>
<td>$4,193,419</td>
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<td>TOTALS 2015-16</td>
<td>$18,482,307</td>
<td>$490,287</td>
<td>$4,025,657</td>
<td>127.5</td>
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<td>TOTALS 2014-15</td>
<td>$17,641,673</td>
<td>$601,504</td>
<td>$3,844,744</td>
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* Reflects salary dollars set aside for faculty start-up - returns to salary FY20

**AY2017-18:** budget reduced by 1% ($169,995 in salary; $28,373 SS&E)
Received funding for 1 Faculty & 1 Staff + 72K SS&E for Space Buyback.

**AY18-19:** Received funding for 2 lecturer positions; Shifted CH Stores Staff to VPR & portion of Intramural Staff to Athletics; Received SS&E for MLS Hospital Cost-Share.
Strategic Planning and Vision

• CSA strategic plan last updated in 2010.

• University wide discussions happening this Fall, should precede CSA planning.

• What is our vision of the role of CSA in the “fourth industrial revolution?”
Questions or comments?