



Board of Trustees

ACADEMIC AND STUDENT AFFAIRS COMMITTEE MEETING

June 17, 2019 - 1:00 p.m. - Libbey Hall, Second Floor, Main Dining Room

Jeffrey Cole-Chair, Will Lucas-Vice Chair, Stephen Ciucci, Patrick Kenney-Trustees

Kyle D. Bergen, Hedyeh Elahinia - Student Trustees

Christine E. Brennan, Birdel F. Jackson, III - National Trustees

Timothy Brakel - Faculty Representative, Mary Fedderke - Community Member

Holly Bristoll - ProMedica Partner



Academic and Student Affairs Committee Meeting - June 17, 2019

Agenda

1:00 p.m.

- 1. Call to Order**
- 2. Stakeholder Reports**
 - a) Student Government Report
 - b) Graduate Student Association Report
 - c) Faculty Senate Report
 - d) Graduate Council Report
- 3. Action Items**
 - a) Academic and Student Affairs Committee Meeting Minutes for April 15, 2019
 - Presentation for b) and c)
 - b) Proposed Undergraduate Degree Programs in Data Analytics - Executive Summary
 - c) Combining and Renaming of Departments in the Judith Herb College of Education
- 4. Discussion Items**
 - a) Faculty Scholarship and Research Highlight
 - b) Academic Affiliation Update
- 5. Executive Session, if needed**
- 6. Other Business**
- 7. Adjournment**

Minutes
The University of Toledo Board of Trustees
Academic and Student Affairs Committee Meeting
April 15, 2019

Committee Vice Chair Mr. Will Lucas was present with Committee members Mr. Stephen P. Ciucci, Mr. Birdel F. Jackson, III, Mr. Patrick J. Kenney, and Student Trustees Mr. Kyle D. Bergen and Ms. Hedyeh Elahinia. Committee members Mr. Jeffrey C Cole and Ms. Christine E. Brennan were absent. Other Trustees who attended the meeting included Mr. Alfred A. Baker, Mr. Steven M. Cavanaugh, Mr. Daniel J. Guttman, Ms. Mary Ellen Pisanelli, and Ms. Sharon Speyer. Faculty representative Dr. Timothy Brakel; Community member Ms. Mary Fedderke; and, ProMedica Partner Ms. Holly Bristoll were also present. Other meeting attendees included Mr. Jim Anderson, Dr. Heidi Appel, Dr. Karen Bjorkman, Dr. Frank Calzonetti, Dr. Christopher Cooper, Ms. Meghan Cunningham, Mr. David Cutri, Ms. Wendy Fraley-Davis, Dr. Sharon Gaber, Mr. Rick Gerasimiak, Dr. Cyndee Gruden, Dr. Margaret Hopkins, Ms. Mary Humphrys, Mr. Charles Jake, Ms. Adrienne King, Dr. James Kleshinski, Dr. Ashok Kumar, Ms. Brenda Lee, Mr. Bill McCreary, Mr. Ken McFeggan, Ms. Jean Lovejoy, Ms. Diane Miller, Ms. Alisa Nammavong, Mr. Michael O'Brien, Mr. Peter Papadimos, Dr. Patricia Relue, Dr. Mysoon Rizk, Ms. Sofie Rodriguez, Mr. Matthew Schroeder, Ms. Joan Stasa, Ms. Rebecca Sturges, Dr. Weiqing Sun, Dr. Mike Toole, and Dr. Jerry Van Hoy.

The meeting was called to order at 1:00 p.m. by Committee Vice Chair Lucas in Libbey Hall's Main Dining room. Ms. Joan Stasa, Secretary to the Board, recorded the minutes.

Student Government Vice President Ms. Sofie Rodriguez reported that she had an amazing time participating in these meetings with the Board of Trustees this year and getting a better understanding of operations at the university that she would have otherwise not known about. She stated that speaking before the Board helped improve her confidence and deepen her passion for becoming more involved with higher education while introducing her to new ways she can become more involved. She thanked everyone who shared encouraging glances and words as she spoke at these meetings.

Ms. Rodriguez announced that Student Government officer elections were held the first week of April with 2,004 students voting -- this number surpassed the past three elections. Ms. Rodriguez introduced the upcoming academic year Student Body President Rebecca Sturges. Madison Lawson was elected Student Government Vice President.

Ms. Rodriguez shared parting words from this year's Student Government President Drew Williams – “Go Rockets” – who was not able to attend this meeting.

ATTENDANCE

CALL TO ORDER

**STUDENT
GOVERNMENT**

Trustee Lucas welcomed Ms. Sturges to the Committee and thanked Ms. Rodriguez for her service and reports over the last year. He also extended the Committee's thanks to Student Government President Drew Williams for his year of service.

Ms. Alisa Nammavong, Graduate Student Association President, presented the Graduate Student Association report - Attachment 1.

Dr. Jerry Van Hoy, Graduate Council Chair, presented the Graduate Council report - Attachment 2.

Dr. Timothy Brakel, Faculty Senate President, presented the Faculty Senate report - Attachment 3.

Trustee Lucas requested a motion to waive the reading of the minutes from the February 18, 2019 Committee meeting and approve them as written. A motion was received from Trustee Ciucci, seconded by Trustee Kenney, followed by Committee approval.

Dr. Karen Bjorkman, Interim Provost and Executive Vice President Academic Affairs, presented three recommendations for 2019 Distinguished University Professors. She stated that the Academic Honors Committee endorsed these candidates to receive UT's highest permanent honor bestowed upon a faculty member. Each candidate is recognized as an outstanding teacher, researcher, and honored professional.

Dr. Christopher Cooper joined the faculty at The University of Toledo (then the Medical College of Ohio) in 1994 as an assistant professor, rising to Professor in 2002. He currently serves as Dean of the College of Medicine and Life Sciences, Executive Vice President for Clinical Affairs, and Board Chair of University of Toledo Physicians. He received his Bachelor of Arts in Biology from Wittenberg University, and an M.D. from the University of Cincinnati. He completed a post-graduate internship, residency, and fellowship at Brigham and Women's Hospital and Harvard Medical School. Dr. Cooper is an internationally-recognized researcher in reno-vascular hypertension and ischemic renal disease, has secured nearly \$24 million in external funding, and authored or co-authored 96 peer-reviewed articles and nine book chapters. He was elected as a Fellow of the American College of Cardiology, Fellow of the American Heart Association, Fellow of the American College of Physicians, and is the recipient of The University of Toledo's College of Medicine and Life Sciences "Award for Excellence in Clinical Research."

Dr. Ashok Kumar joined The University of Toledo faculty in 1980 as an Assistant Professor, rising to Professor in 1989. He currently serves as Chair of the Department of Civil and Environmental Engineering. Dr. Kumar received a Bachelor of Science in Mechanical Engineering from Allgarh University, India, a Master's degree in Mechanical Engineering from the

**GRADUATE STUDENT
ASSOCIATION**

GRADUATE COUNCIL

FACULTY SENATE

**APPROVAL OF
MINUTES**

**2019 DISTINGUISHED
UNIVERSITY
PROFESOR
RECOMMENDATIONS**

University of Ottawa, Canada, and a Ph.D. in Environmental Fluid Mechanics from the University of Waterloo, Canada. Dr. Kumar is recognized internationally for the development of innovative software and paradigm-shifting methodologies related to air quality and risk-assessment to solve complex environmental problems. He has secured over \$5.5 million in external funding, published more than 200 authored or co-authored articles, and nine co-authored or co-edited books. Dr. Kumar is the recipient of the Civil Engineering Teacher of the Year and Outstanding Research Award by The University of Toledo's College of Engineering, The University of Toledo's President's Award for Outstanding Contributions to University Scholarship and Creative Activity, is the recipient of awards and honors from the Ohio Department of Health, and the Air and Waste Management Association, among other external agencies.

Dr. Celia Williamson joined The University of Toledo faculty in 2000 as an Assistant Professor, rising to Professor in 2009. She served as Chair of the School of Social Justice in the College of Health and Human Services; and currently serves as Executive Director of the Human Trafficking and Social Justice Institute. Dr. Williamson received a Bachelor of Social Work degree from The University of Toledo, a Master of Social Work from Case Western Reserve University, and a Ph.D. in Social Work from Indiana University. She is recognized internationally for her pioneering research on human sex trafficking, the prostitution of women and children globally, and mental health and substance abuse counseling needs for vulnerable populations. She is the founder of the "Second Chance Program," now called RISE, the first anti-trafficking program in Ohio, and is the founder of the International Human Trafficking and Social Justice Conference, the Lucas County Human Trafficking Coalition, the National Research Consortium on Commercial Sexual Exploitation, and the Global Association of Human Trafficking Scholars. Dr. Williamson has secured over \$2 million in external funding and published two co-authored books, two book chapters and 21 peer-reviewed articles. She is also co-founder and managing editor of *The Journal of Human Trafficking*, a top-tier journal in the field. Dr. Williamson is the recipient of numerous awards and honors, including the FBI Community Leadership Award, the Human Rights Award by the United Nations Office, and the Ohio Women's Hall of Fame. She is the recipient of The University of Toledo's Edith Rathbun Outreach and Engagement Excellence Award, and The University of Toledo's Gold T Award. Dr. Williamson was providing training on this date, related to at-risk children in Akron, so was not in attendance.

Provost Bjorkman invited Dr. Cooper and Dr. Kumar to stand so they could be recognized for their achievements. She then requested Board approval for the conferral of the permanent honor of Distinguished University Professor for the three candidates.

Trustee Lucas requested a motion for approval of the three 2019 Distinguished University Professor candidates and to forward them to the

Consent Agenda at the next Board meeting. A motion was received from Trustee Kenney, seconded by Trustee Ciucci, followed by Committee approval.

Dr. Bjorkman presented recommendations for the 2019-2020 Tenure and Promotion candidates. The 44 candidates included 12 candidates for tenure and promotion to Associate Professor, 22 candidates for promotion to Professor and, 10 candidates for promotion to Associate Professor.

**2019-2020 APPLICANTS
FOR TENURE AND
PROMOTION**

Dr. Bjorkman stated that the University continues to have high caliber faculty advancing through our tenure and promotion process -- and this year's cohort of faculty members all have very impressive achievements. The University's strategic plan established the goal of increasing the percentage of full professors in the pool of full-time faculty over the next five years. To achieve our strategic plan goal, the Office of the Provost is providing support to faculty who have reached the level of academic excellence required for the rank of full professor. Over the last two years, workshops and mentoring programs have been created to assist faculty with the development of materials that they are required to submit for consideration of promotion to full professor. Because of these efforts, and the quality of the teaching, research, and service of this year's candidates, we have 22 faculty who we recommend for promotion to full professor. At this time, we are requesting Board approval for the tenure and/or promotion of the 44 candidates identified in the materials provided.

Trustee Lucas requested a motion for approval of all 44 tenure and/or promotion candidates and to forward them to the Consent Agenda at the next Board meeting. A motion for approval was received by Trustee Ciucci, seconded by Trustee Kenney, and approved by the Committee.

Dr. Bjorkman stated that the Ohio Revised Code requires that every state institution of higher education adopt a veterans' support and assistance policy approved by the Board of Trustees. The University of Toledo is committed to providing support and assistance to veterans and service members, and effective January 1, 2015, the Board approved Policy 3364-71-18, "*Veteran and Service Members' Support and Assistance.*" Because of the University's three-year policy review schedule, minor revisions have been made to this policy to reflect a name change for the state agency that is responsible for higher education oversight. The policy was revised to indicate that we work with the Ohio Department of Higher Education to develop and promote a veteran-friendly environment at our University. Dr. Bjorkman requested Board approval of the minor revisions to the University policy on Veteran and Service Members' Support and Assistance.

POLICY CHANGE

Trustee Lucas requested a motion for approval of the changes to Policy 3364-71-18 and to forward the policy to the Consent Agenda at the next

Board meeting. A motion for approval was received from Trustee Kenney, seconded by Trustee Ciucci, and approved by the Committee.

College of Engineering Dean, Mike Toole, introduced Dr. Weiqing Sun, Associate Professor Computer Science and Engineering Technology, to present the Committee with information about the new program proposal in the College of Engineering for a Masters Degree in Cyber Security (MSCY). Dr. Sun explained the rationale and focus for the creation of this program. There is a critical shortage of cyber security professionals and the proposed program will help to fill the gap in supply and demand. Letters of endorsement from business and organizations for this type of skill were shared with the Committee. Dr. Sun displayed a map, which showed the proximity of related programs in the State of Ohio and the southeastern Michigan area and stated that this new program is positioned to be a unique program in the northwest Ohio region. The degree program and its features were provided by Dr. Sun, and a discussion of prospective enrollment was presented. In summary, Dr. Sun stated that this new MSCY will address a great need in cyber security education in our region and nationally, it will enhance research and innovation in cyber security areas, and the investment in this program will lead to positive financial outcomes.

Trustee Lucas requested a motion for approval of the new Masters Degree Program in Cyber Security and to forward it to the Consent Agenda at the next Board meeting. The motion was received from Trustee Ciucci, seconded by Trustee Kenney, and approved by the Committee.

Dr. James Kleshinski, Senior Associate Dean for Clinical Affiliation, highlighted the following items with the Committee regarding the UToledo College of Medicine and Life Sciences 2019 Match Overview.

- 2019 brought the best UToledo College of Medicine and Life Sciences match in 20 years.
- UToledo exceeded the national average of 98.8% of students matching in 2019.
- UToledo students matched into 26 specialties at top programs around the country.
- 23 UToledo students will return as residents and begin their medical career in our community.

Dr. Kleshinski shared with the Committee the names of 12 institutions where graduating UToledo students matched into prominent programs. A history of the UToledo student-to-resident retention was provided: 2015 – 9, 2016 – 9, 2017 – 30, 2018 – 20, and 2019 – 23. Dr. Kleshinski also shared with the Committee the names of 11 U.S. Medical schools where UToledo 2019 residents were entering. He stated that he was proud of these results and hopes to continue working to not only keep UT graduating students in our residency programs, but also to continue to attract students from other universities to UTMC.

COLLEGE OF ENGINEERING NEW DEGREE PROGRAM

ACADEMIC AFFILIATION UPDATE

Dr. Bjorkman introduced Dr. Heidi Appel who joined The University of Toledo in 2016 as Dean of the Jesup Scott Honors College and Professor of Environmental Sciences in the College of Natural Sciences and Mathematics. Dr. Appel came to UT from the University of Missouri, where she served as a Senior Research Scientist and Senior Associate Director of the Honors College. Prior to these positions, she held research and teaching positions at The Pennsylvania State University. Dr. Appel's research focuses on the chemical ecology of interactions between insects and plants. She was named a Fellow of the American Association for the Advancement of Science in 2017 in recognition of her contributions to the field of chemical ecology - and for her research, which has been widely cited. Dr. Appel has received more than \$2.5 million in external research funding and authored more than 45 publications. She earned a Master of Science and Ph.D. in Biology at the University of Michigan and a Bachelor of General Studies at Oakland University - where she combined her interests in ancient history, music, and science.

Dr. Appel presented an overview of The University of Toledo's "*Visual Literacy Initiative*" developed in partnership with the Toledo Museum of Art. This initiative was made possible, in part, with financial support from Judith and Marvin Herb, generous longtime supporters of both institutions. Dr. Appel stated that visual literacy is the ability to read, comprehend and write visual language. UToledo faculty and TMA staff together developed visual literacy curriculum modules. The initiative began with an elective for medical students called *Art and Medicine: Using Visual Literacy to Improve Diagnostic Skills*. A pilot honors seminar course co-taught by UT and museum educators included students across eight majors. Dr. Appel shared with the Committee positive student input about the class and outlined next steps for the initiative. She concluded her presentation by stating that visual literacy is not just about art appreciation, it *is* about professional skills and student engagement for all majors.

With no further topics before the Committee for action or discussion, Trustee Lucas adjourned the meeting at 1:55 p.m.

**FACULTY
SCHOLARSHIP AND
RESEARCH
HIGHLIGHT**

ADJOURNMENT

Attachment 1

Graduate Student Association April 15, 2019

Thank you to the Board of Trustees and its members for inviting the Graduate Student Association (GSA) to share its updates. We continue to make progress with advocating for our graduate students and supporting them in their successes. We are beginning the phases of reviewing our year as an Executive Board and will be providing this information in June.

This year, the GSA was contacted by a group of graduate student leaders in Ohio that are seeking to improve communications amongst Ohio universities, such as Miami University, Ohio University, and Kent State University, and its graduate student bodies. This network continues to demonstrate the importance of graduate students being united in their concerns. Recently, our discussions have included Title IX policy review, student health insurance, and the importance of recognizing graduate student needs and contributions. One of the great stories that has come from this network is in the case of Ohio University's Graduate Student Senate as they continue their discussions with their university to change policies to define graduate and undergraduate population differences and to separate from their Student Senate. We will continue to explore the possibility of a central organization that would house Constitution and By-Laws to maintain roles and relations in our network.

On April 6, the GSA held its 10th Midwest Graduate Research Symposium. Attached in the GSA Report is a list of the award winners. This year we had 103 seminar and poster presenters, 53 judges, 44 volunteers, and about 20 general attendees for a total of about 220 attendees throughout the day. We had attendees from University of Findlay, Kent State University, UT, Cleveland State University, and others. Attendees enjoyed workshops during lunch from Board of Trustee's member Will Lucas about finding a unique road to success, Certified Analyst of the Predictive Index and Emotional Intelligence Assessment Administrator Sara Best to help attendees find a path to fulfillment, and Three-Minute Thesis with Teri Green of the College of Graduate Studies. We ended our day with Charlene Gilbert, MFA and Dean of the College of Arts and Letters, presenting her keynote on how our failures can lead to our successes. One of my personal highlights from the event was being able to share stories of GSA's past and future with Dr. Michael Bechill, former GSA President from 2010-2012 and UT Alumni, who traveled with his wife from California to visit UT and attend our event! It was a pleasure to meet so many students and faculty from across the Midwest, and we look forward to reviewing feedback in order to improve next year's event! Please look for photos of our event online at attached link: <https://graduatestudentassociationblog.wordpress.com/2019-photos/>

Currently, the GSA 2019-20 Executive Board elections are in the voting process. We are excited to see the possibilities and new ideas that will come with a new Executive Board. This year, nominations and elections were conducted by the College of Graduate Studies. We will announce upon receiving results!

Lastly, our final General Assembly meeting will take place April 16 on Main Campus in the Student Union Ingman room from 6-8pm. Dr. Christine Fox will be present to share the recent proposal to change student course evaluations in order to receive feedback from graduate students. The Professional Development Committee will be discussing organizing an open event for graduate and undergraduate students to hear updates from Mr. Brian Pack, Director of Benefits & Wellness/HR,

and continue the discussion of student health insurance. Our last meeting will be a busy one, but we look forward to see what discussion will come!

The Graduate Student Association looks forward to reviewing the year, sharing our progress, and welcoming a new Executive Board! Thank you to the College of Graduate Studies, the Office of Student Affairs, the Provost Office, President Gaber, and the Board of Trustees for the continued support of graduate student well-being.

Respectfully,

Alisa Nammavong BA, MSN-RN
University of Toledo, Graduate Student Association President



Award Recipients for the 10th MGRS

- **Association of Women in Science (AWIS) Northwest Ohio Chapter:** This award honors the top female researchers in the STEM field presenting at the conference. One poster and one seminar presentation will be selected for this award with a monetary prize up to \$150 that can be redeemed for professional membership or travel to a professional meeting.
 - **Poster Winner: Hallie Dolin**
 - University of Toledo, Medical Microbiology and Immunology
 - “Retinoic acid-induce upregulation of native anti-inflammatory pathways is a potential novel sepsis treatment”
 - **Seminar Winner: La’Nese Lovings**
 - University of Toledo, Chemistry
 - “Synthesis and characterization of Alxsc2-Xmo3O12 using non-hydrolytic sol-gel methods”

- **University of Toledo, College of Arts and Letters:** Each award for the best presentation in the respective specialty topics includes a \$100 monetary award.
 - **Winner for Humanities: Nicholas Langenberg**
 - Grand Valley State University, English
 - “Being a Good Victim: The Effect of Heteronormative Ideology on the New York Times' Portraits of Grief”
 - **Winner for Social Sciences: Keith Edmonds**
 - University of Toledo, Psychology
 - “U There? Online Rejection Elicits Negative Thoughts and Feelings Among Those Who Compare”
 - **Winner for Arts: Kyle Flemings**
 - Miami Ohio University, English-Creative Writing
 - “The Token Project”

- **University of Toledo, College of Engineering:** This award honors the most outstanding poster and seminar presentations focusing on engineering and each includes a \$100 monetary award.
 - **Best Engineering Poster: Dinesha Agosthinghage Dona**
 - University of Toledo, Bioengineering
 - “Development of Alginate-PVA Composite Scaffold for Cartilage Tissue Engineering Applications”
 - **Best Engineering Seminar: Behrouz Mohammadian**
 - University of Toledo, Mechanical, Industrial and Manufacturing Engineering
 - “Experimental and Theoretical Studies of Wet Snow Accumulation on Inclined Cylindrical Surfaces”

- **University of Toledo, College of Health and Human Services:** This award goes to the best poster and seminar presentations in the health and human services fields and includes a \$100 monetary award.
 - **Best HHS Poster: John Matkovic**
 - University of Toledo, Health Education
 - “Is Self-Efficacy to Succeed at Work a Predictor of Self-Reported Health Status among Low Income Adults?”
 - **Best HHS Seminar: Ryan Martin**
 - University of Toledo, School of Exercise and Rehabilitation Sciences
 - “The Impact of Intercellular Adhesion Molecule - 1 in Skeletal Muscle Regeneration”

- **University of Toledo, College of Medicine and Life Sciences Award:** This award and \$500 monetary prize are for the best presentation in the subject of biomedical research.
 - **Best Biomedical: Pranav Patel**
 - University of Toledo, Pharmacy Practice
 - “US Healthcare System: Identifying Interventions that Fix the System”

- **University of Toledo, College of Natural Sciences and Mathematics Award:** One poster and one seminar presentation will be selected for this award and monetary prizes honoring the best research in math or natural sciences.
 - **Poster Winner: Jennifer Greco**
 - University of Toledo, Physics and Astronomy
 - “A High Resolution H and K Band Spectroscopic Sequence of Ultracool Dwarf Stars”
 - **Seminar Winner: Muhammad Hussain**
 - University of Toledo, Chemistry and Biochemistry
 - “Engineering of A Critical Enzyme in Fatal Brain Disease”

- **University of Toledo, Department of Environmental Sciences Award:** Awarded to the student with the best presentation focusing on environmental sciences and includes a \$100 monetary prize.
 - **Environmental Winner: Michaela Margida**
 - University Toledo, Environmental Sciences
 - “Modeling the Onset of Lignin Decay as a Function of Plant Cell Wall Chemistry”

- **University of Toledo, Judith Herb College of Education:** JHCOE Dean’s Award honors outstanding research for the best research presentation in the education field and includes a \$100 monetary award.
 - **JHCOE Dean’s Award: Chris Wojciechowski**
 - University of Toledo, Research and Measurement
 - “Experiences of Voters in Deciding to Vote in a Local Election”

- **University of Toledo, Office of the Provost:** The Provost Awards of excellence honors the best overall poster presentation and seminar presentation, and each includes a \$200 monetary award.
 - **Poster Winner: Tina Back**
 - Lindsey Wilson College, Counselor Education and Supervision
 - “Effective diagnosis and treatment for dissociative disorders”
 - **Seminar Winner: Sara Lamar**
 - Grand Valley State University, Annis Water Resource Institute
 - “Comparing Germination Success and Differential Gene Expression of Invasive Baby’s Breath (*Gypsophila paniculata*) found in Distinct Ecoregions”

- **University of Toledo, Office of Research:** This award honors the best overall presentation funded by outside sources and includes a \$100 monetary award.
 - **Office of Research Winner: Cameron Marcus**
 - University of Toledo, Emergency Medicine
 - “Developing “Herd Immunity” in a Civilian Community Through Incorporation of Just-In-Time Tourniquet Application Training”

- **University of Toledo, Office of Student Affairs:** This award honors outstanding poster and seminar awards and includes a \$50 monetary award.
 - **Poster Winner: Shawn Oliai**
 - Grand Valley State University, Health Informatics and Bioinformatics
 - “An Efficient Method for Indexing Temporal Gene Expression Datasets”
 - **Seminar Winner: Jared Vanasdale**
 - Youngstown State University, Mechanical Engineering
 - “Correlation Between Epidermal Strain and Sternal Stress Post Sternotomy”

- **First Solar Award:** This award will be given to the best presentation in the subject of solar and renewable energy.
 - **Solar/Renewable Winner: Kamala Khanal Subedi**
 - University of Toledo, Physics and Astronomy
 - “Novel p-type Barium Copper Sulfide as a Hole Transport Layer for Bifacial and OpqueCadmium Telluride Solar Cells”

- **Kappa Delta Pi Education Research Award:** Awarded to a student focusing on excellence in educational research and includes \$50 for best poster and research presentation in education.
 - **Poster Winner: Regina Rotshtein**
 - University of Toledo, Educational Foundations and Leadership
 - “Cross-cultural Exploration of Children’s Epistemic Climates in School and Home Contexts”
 - **Seminar Winner: Shujuan Wang**
 - University of Toledo, Educational Foundations and Leadership

- ~~“International Students’ Challenges with Engagement in Class”~~
- **Lake Erie Center Science Award:** This award honors students studying research in aquatic science or a closely related field to aquatic ecology.
 - **Best Aquatic Science: Dustin Dehm**
 - University of Toledo, Environmental Sciences
 - “A Small Unmanned Aerial System (sUAS) Based Method for Monitoring Wetland Inundation & Vegetation”
- **GSA Sponsored Poster Presentation Award:** One 1st place, one 2nd place, and one 3rd place winner each receives a plaque, certificate, and monetary award.
 - **Poster 1st Place: Emily Roemhild**
 - University of Toledo, Psychology
 - “The Role of Anxiety Control and Mindfulness In Sports Anxiety”
 - **Poster 2nd Place: Kelsey Murphy**
 - University of Toledo, Neurosciences
 - “Mini-Gagr, an Intranasally Applied Polysaccharide, Activates the Neuronal Nrf2-Mediated Antioxidant Defense System”
 - **Poster 3rd Place: Jidnyasa Mantri**
 - Grand Valley State University, BioInformatics
 - “A Critical Success Factor Model to Assess Quality Initiatives in Healthcare”
- **GSA Sponsored Seminar Presentation Award:** One 1st place, one 2nd place, and one 3rd place winner each receives a plaque, certificate, and monetary award.
 - **Seminar 1st Place: Evan Clarkson**
 - University of Toledo, Psychology
 - “Inter-hemispheric Differences in Moral Decision-making”
 - **Seminar 2nd Place: Nicole Smith**
 - Lourdes University, Nursing Education
 - “Should Medical Marijuana Be Integrated In To Pre-Licensure Nursing Programs”
 - **Seminar 3rd Place: Dilepa Jayawardena**
 - University of Toledo, Environmental Sciences
 - “Elevated Co2 Plus Chronic Warming Causes Severe Leaf Hyponasty in Tomato, Which Correlates with Reduced Growth and Nitrogen -Uptake And -Assimilation”

Attachment 2

Graduate Council Report to Board of Trustees Academic and Student Affairs Committee April 15, 2019

This report includes the activities of Graduate Council (GC) since our last report on February 18, 2019. GC has been busy with several initiatives, and a lot of curriculum, in the second half of the spring semester.

At the February 19 GC meeting, Dr. Frank Calzonetti, Vice President for Research, gave a presentation about the research areas of excellence. Dr. Calzonetti explained that UT recognizes four general categories of research excellence. These include recognized areas of research excellence, spotlight areas of unique distinction, areas of emerging research excellence and areas of future opportunity. The presentation highlighted the cutting-edge work of faculty and graduate students from across the university, particularly interdisciplinary research in a number of areas. The presentation led to a productive discussion about how to better promote new research opportunities and the obstacles that must be overcome to be a recognized area of research excellence.

At our March 19 GC meeting, we introduced the Graduate Student Association (GSA) Research Award recipients and Jim Anderson, Vice President for Enrollment Management, spoke about making UT a more student-centered campus. (The GSA Research Award recipients are Sarah Carter, MS Ecology, College of Natural Sciences and Mathematics; Cara DeAngelis, PhD Biomedical Sciences, College of Medicine and Life Sciences; Austin Hulbert, MS Biology with Ecology Track, College of Natural Sciences and Medicine; Srimathi Kasturirangan, PhD Molecular Biology, College of Natural Sciences and Mathematics; and Prabaha Sikder, PhD Mechanical Engineering, College of Engineering.)

On April 2, Dr. Jonathan Bossenbroek, Director of the Office of Undergraduate Research discussed opportunities for graduate programs to work with undergraduate students who are interested in obtaining research experience. He also discussed his new role in helping faculty and students to apply for competitive scholarships, such as Fulbright scholarships and MacArthur Fellows. Also on April 2, Heather Huntley, Director of University Accreditation and Program Review, presented the University Academic Program Review Committee 2017-18 final report to Graduate Council. The presentation highlighted areas of strength and weakness across graduate programs. Among graduate program strengths it was noted that external reviewers found current and relevant curricular offerings with innovation noted in some areas; numerous programs met or exceeded criteria for accreditation or approval; faculty were found to have national recognition for research and dedication to their fields; and students were noted to have good opportunities for job or graduate school placement. Weaknesses included infrastructure issues and lack of staff and facility resources; issues with workload such as faculty teaching in overload and committees and other activities not being considered part of their workload; and, the need for marketing in several areas.

It should also be noted that since the March 12 deadline for submitting curricular changes, the GC Curriculum Committee has reviewed over 100 proposals for new or modified courses and programs. We are very appreciative of the time and effort our faculty representatives have given to carefully considering each proposal.

Finally, the Graduate Council Executive Committee is working on the following initiatives with Dean Gruden and Provost Bjorkman. We would like to bring to campus software that helps students

and faculty identify plagiarism issues (such as Turnitin). We believe that UT students should be able to take on campus the GRE and other standardized tests required for applications to graduate programs. We need better support services for new and nontraditional graduate students.

Graduate Council looks forward to continuing our partnerships with the College of Graduate Studies, the Provost's office, the Research office, the Graduate Student Association, and UT faculty, staff and students in supporting our graduate and professional programs.

Respectfully,

Jerry Van Hoy, Ph.D.
University of Toledo, Graduate Council Chair

Attachment 3

Faculty Senate Report to the Board of Trustees Academic and Student Affairs Committee April 15, 2019

The Faculty Senate has continued its work in a variety of ways during the Spring Semester. Thus far, we have approved 59 new courses, 110 course modifications, modified 12 programs and added 10 new programs. We had a presentation on the new curriculum tracking system and look forward to its implementation later this calendar year. We also passed an approval process for the designation of service learning courses.

The revision of the Faculty Senate Constitution continues to progress. We met with, discussed and received information from first Interim Provost, Karen Bjorkman and Kevin West, and then Board of Trustee Trusteeship and Governance Committee Chair Mr. Steve Cavanaugh. This information has been forwarded to the Faculty Senate and its Constitution Committee for consideration in the revised constitution. This work will continue into the 2019-2020 Academic Year.

We are nearing the close of the Dean survey, which closes on April 17. This survey is for Dean's who have been in their positions for two years.

We continue to have positive communications and good working relationships with the University of Toledo administration. Throughout the year, Faculty Senate has heard regular reports from first Provost Hsu and now Interim Provost Bjorkman. The Faculty Senate Executive Committee has had regular meetings with President Gaber, President Chief of Staff Matt Schroder and now Diane Miller, and the Provosts. Faculty Senate has had presentations from Vice President for Enrollment Jim Anderson regarding enrollment issues. We have worked with Associate Vice President Denise Bartell on piloting a new model of First Year Experience (FYE) courses in orientation is embedded in content courses. We have also heard reports from new Deans Anne Balazs and Raymond Witte. We continue to dialogue with the administration concerning liability insurance for student organizations and I along with several other UT representatives will be attending the IUC's Risk Management and Insurance Consortium's Third Annual Risk Control Symposium regarding Student Organizations and Club Sports on April 24.

Last October, we received from the administration a proposed optional syllabus statement on freedom of expression. That statement was supported by the Faculty Senate. This spring, we continued to have robust discussion on freedom of expression.

Faculty Senate elections are nearing their completion. At its upcoming meeting on April 23, the Faculty Senate will be voting on its representatives to the 2019-2020 Faculty Senate Executive Committee at which time I will remove the elect portion of my title as President. I look forward to continuing the work of Faculty Senate and working closely with the University of Toledo Administration on our goals of Fueling Tomorrows. This concludes the Faculty Senate report.

Respectfully submitted,

Timothy D. Brakel, D.M.E.
University of Toledo, Faculty Senate President

Executive Summary

Proposed Undergraduate Degree Programs in Data Analytics

Bachelor of Arts in Data Analytics:
College of Arts and Letters

Bachelor of Science in Data Science:
College of Natural Sciences and Mathematics

Introduction

We are in the midst of a revolution in our ability to collect massive amounts of detailed data across all areas of human interest and endeavor. Data Analysts and Data Scientists are the professionals who interrogate and transform this data into forms that can be effectively applied to solving problems in a wide variety of settings, including commercial firms, government, and industry. The Bureau of Labor Statistics predicts a strong market for these jobs, forecasting a 19% growth rate between 2016 and 2026. Recent job postings for Data Analysts and Data Scientists revealed 1,776 active full-time job ads within 100 miles of Toledo, of which 330 were entry level with starting salaries up to \$60,000. Employers ranged from large medical institutions to marketing firms to small businesses. To meet the need for these positions, many institutions are developing programs of study related to data. We believe successful Data Analysts and Data Scientists will need skills that span a wide range of expertise. These degrees leverage the existing strength and diversity of the University of Toledo's faculty expertise to build a core of student experiences that will better prepare our students to meet the realities of 21st century careers in data analytics and data science. Uniquely, these degree programs incorporate courses in data ethics (philosophy), data visualization (art), and substantial experiential learning in application disciplines beyond mathematics or computer programming. The two degree programs together provide a unique breadth of opportunities for students to match their career goals, coupled with application-specific training uncharacteristic of other narrowly conceived data analytics and data science programs.

BA in Data Analytics

- Prepares students for careers that focus on interpreting and applying structured data for clients.
- Provides training with an emphasis on social sciences and includes an area of concentration in one of the Social Sciences disciplines (e.g. economics, political science, psychology, geography and planning) and experiential learning working with big data in the discipline.

BS in Data Science

- Prepares students for careers that focus on the development and implementation of computational and statistical tools that extract meaningful structured data from large data sets for specific applications.
- Provides training in programming and mathematics/statistics skills and includes a concentration of courses in a specific STEM discipline (e.g. environmental science, astrophysics, or public health) and a capstone experience working with big data in the discipline.

Conclusion

The proposed programs will attract and serve students interested in entering the broad fields of data analytics and data science. The breadth of the programs will appeal to a more diverse group of students than the typically narrower traditional data science programs that are housed as concentrations in mathematics or computer science.

Upon Board approval, we will proceed with the Ohio Department of Higher Education approvals with a target date of enrolling students in both the BA and BS degree programs in Fall 2020. We will begin marketing the programs as soon as state approval is obtained. Based on initial growth in data analytics and data science programs at other institutions, we expect a combined enrollment in our programs of 50+ students by the Fall of 2021.



Date: May 29, 2019

To: UT Board of Trustees

Through: Sharon L. Gaber, Ph.D.
President *Sharon L. Gaber*

From: Karen S. Bjorkman, Ph.D. *Karen Bjorkman*
Interim Provost and Executive Vice President of Academic Affairs

Re: Combining and Renaming of Departments in the Judith Herb College of Education

The Judith Herb College of Education has submitted a formal proposal to combine and rename their current departments.

1. The Department of Curriculum & Instruction and the Department of Early Childhood, Higher Education and Special Education will be combined and renamed to the “Department of Teacher Education;” and
2. The Department of Educational Foundations and Leadership and the faculty in the Higher Education and Education Technology Programs will be combined and renamed the “Department of Educational Studies”.

The renamed “Department of Teacher Education” combines all programs related to teacher licensure, including general and special education programs; and thus sends an important message of inclusion to our students, fellow institutions, and the general public.

The renamed “Department of Educational Studies” will better connect faculty in the Higher Education program, as well as the Educational Technology faculty, with their Educational Foundation peers. This combination and renaming will enable both departments to better serve our students.

This new configuration of the college was endorsed by: 1) the Departments, 2) the College Council, 3) the Dean, and 4) the Faculty Senate Executive Committee.

The President and I both support the suggested combining and renaming of departments and recommend approval by the UT Board of Trustees.