

Board of Trustees

Research and Innovation, Legal and Legislative Affairs Committee

May 13, 2021

BOARD OF TRUSTEES OF NORTHERN ILLINOIS UNIVERSITY

Research and Innovation, Legal and Legislative Affairs Committee 10:45 a.m. – Thursday – May 13, 2021

This Committee meeting is being conducted through video conferencing communications and is being conducted pursuant to Section 6 of Executive Order 2020-7 (Suspending OMA requirements of in person attendance by members of a public body).

AGENDA

- 1. Call to Order and Roll Call
- 2. Verification of Quorum and Appropriate Notification of Public Meeting

- 5. Chair's Comments/Announcements
- 6. Public Comment*
- 7. University Reports

a.	State Legislative Report	. Information	5
	Federal Legislative Report	v	
	Sponsored Program Administration Quarterly Report		
	Open Access Presentation		
	Faculty Presentation	v	

- 8. Other Matters
- 9. Next Meeting Date
- 10. Adjournment

*Individuals wishing to make an appearance before the Board should consult the <u>Bylaws of the Board of Trustees of Northern Illinois University</u>, Article II, Section 4 – Appearances before the Board. Appearance request forms can be completed <u>online</u> in advance of the meeting or will be available in the Board Room the day of the meeting. For more information contact Crystal Doyle, ccoppel@niu.edu, Recording Secretary to the Board of Trustees, Altgeld Hall 300, DeKalb, IL 60115, 815-753-1273.

Anyone needing special accommodations to participate in the NIU Board of Trustees meetings should contact Crystal Doyle, ccoppel@niu.edu or (815) 753-1273, as soon as possible.

Minutes of the

Board of Trustees of Northern Illinois University Research and Innovation, Legal and Legislative Affairs Committee Meeting

February 18, 2021

CALL TO ORDER AND ROLL CALL

The meeting was called to order at 9:46 a.m. by Committee Chair Rita Athas. The Committee meeting was conducted through video conferencing communications and was conducted pursuant to Section 6 of Executive Order 2020-7 (Suspending OMA requirements of in person attendance by members of a public body). Recording Secretary Crystal Doyle conducted a roll call of the Trustees.

Trustee John Butler: Absent Trustee Montel Gayles: Present
Trustee Veronica Herrero: Absent Trustee Bob Pritchard: Present
Trustee Aidan Shields: Present Trustee Eric Wasowicz: Present

Board Chair Dennis Barsema: Present Committee Chair Rita Athas: Present

Also present were President Lisa Freeman; Committee Liaison and Vice President for Research and Innovation Partnerships Gerald Blazey; Vice President and General Counsel and Parliamentarian Bryan Perry; Chief of Staff and Liaison to the Board of Trustees Matt Streb; Assistant Vice President for Federal Relations Anna Quider; and Director of Innovation Luke Sebby.

Trustee John Butler joined the meeting at 10:07 a.m.

VERIFICATION OF QUORUM AND APPROPRIATE NOTICE OF PUBLIC MEETING

General Counsel Bryan Perry indicated the appropriate notification of the meeting had been provided pursuant to the Illinois Open Meetings Act. Mr. Perry also advised that a quorum was present.

MEETING AGENDA APPROVAL

Committee Chair Athas asked for a motion to approve the meeting agenda. Trustee Gayles so moved, and Trustee Pritchard seconded. The motion was approved.

Committee Chair Athas asked Ms. Doyle to conduct a roll call vote.

Trustee John Butler: Absent Trustee Montel Gayles: Yes
Trustee Veronica Herrero: Absent Trustee Bob Pritchard: Yes
Trustee Aidan Shields: Yes Trustee Eric Wasowicz: Yes

Board Chair Dennis Barsema: Yes Committee Chair Rita Athas: Yes

The motion was approved.

REVIEW AND APPROVAL OF MINUTES

Committee Chair Athas asked for a motion to approve the minutes of November 12, 2020. Trustee Pritchard so moved, and Trustee Wasowicz seconded. The motion was approved.

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Committee Chair Athas asked Ms. Doyle to conduct a roll call vote.

Trustee John Butler: Absent Trustee Montel Gayles: Yes

Trustee Veronica Herrero: Absent Trustee Bob Pritchard: Yes
Trustee Aidan Shields: Yes Trustee Eric Wasowicz: Yes

Board Chair Dennis Barsema: Yes Committee Chair Rita Athas: Yes

The motion was approved.

CHAIR'S COMMENTS/ANNOUNCEMENTS

Committee Chair Athas reported that the Committee would be receiving a report on the foundation of the Strategic Development Team and its status. Committee Chair Athas noted that NIU's status as a research institution is continually being affirmed through national benchmark rankings. Committee Chair Athas welcomed the members of the University Advisory Committee and requested comments. No comments were submitted.

PUBLIC COMMENT

General Counsel Bryan Perry noted that one public comment was register but was later withdrawn. There were no further public comments.

UNIVERSITY REPORTS

Committee Chair Athas asked Vice President for Research and Innovation Partnerships Dr. Gerald Blazey, to provide an update from the Division of Research and Innovation Partnerships. Dr. Blazey congratulated faculty for continuing to steadily increase their scholarly capacity and the reputation of the university. Dr. Blazey provided an overview of the quarterly SPA report, noting that in the second quarter, NIU handled almost 100 awards totaling \$11 million that were not related to COVID-19 relief. SPA handled an additional \$3.4 million in COVID-19 relief funds. He noted that to the total award activity for the first two quarters totaled \$14.4 million.

Agenda Item 7.a. State Legislative Report

Chief of Staff and Liaison to the Board of Trustees Dr. Matt Streb, reported that Governor Pritzker recently gave an encouraging budget address that showed a strong commitment to higher education. The governor proposed a flat budget for higher education, which for NIU would mean \$87.8 million in appropriations. The governor's office also put forward a \$28 million investment in the Monetary Award Program (MAP) program as well as reappropriation of all capital projects and deferred maintenance. The governor called for a \$35 million allocation for Aspirational Institutional Match Helping Illinois Grow Higher Education (AIM HIGH). The governor's address also called for a \$1 million appropriation for the implementation of common applications. Dr. Streb noted that the address shows the governor's priorities, but the budget still needs to go through the legislative process. He further noted that the bipartisan NIU caucus met and there is a strong commitment to higher education from the group.

Agenda Item 7.b. – Federal Legislative Report

Assistant Vice President for Federal Relations Dr. Anna Quider reported that Joe Biden has won the presidency, democrats hold a slim 10 vote majority in the U.S. House of Representatives, and democrats control the evenly split U.S. Senate. Dr. Quider noted that committee assignments for the House and Senate are still being finalized. However, new assignments that are related to NIU's portfolio for the Illinois delegation include Senator Durbin as Chair of the Senate Judiciary Committee and Congresswoman Underwood as a member of the House Appropriations Committee. Dr Quider reported that on December 27, 2020 the Coronavirus Response and Relief Supplemental Appropriations Act (CRRSAA) became law. The bipartisan legislation provided \$22.9 billion for higher education and \$1.3 billion for the Governors Education Emergency Relief (GEER) fund. She noted that NIU's CRRSAA allocation is \$23.7 million, broken down into \$7.4

million for aid to students and \$16.3 million for institutional aid. The state of Illinois was allocated \$47.9 million through the GEER fund and the state will decide how to distribute those funds. Dr. Quider reported that President Biden has nominated Dr. Miguel Cardona as Secretary of Education. She noted that Dr. Cardona received overwhelming bipartisan support from the Senate Committee on Health, Education, Labor, and Pension. Dr. Quider reported that during his first week in office President Biden signed several executive actions aimed at revoking the "divisive concepts" Executive Order from the Trump Administration while launching a whole-of-government initiative to advance racial equity.

Agenda Item 7.c. - Sponsored Programs Administration Quarterly Report

The Committee reviewed the sponsored program administration quarterly written report submitted by Assistant Vice President Dara Little. No questions were raised.

Agenda Item 7.d. - Strategic Development Team Report

Director of Innovation Luke Sebby reported that at the beginning of the fiscal year, NIU launched the Strategic Development Team (SDT), an initiative comprised of members of the Divisions of Research and Innovation Partnerships (RIPS), Outreach, Engagement, and Regional Development (OERD), University Advancement (UA) and the NIU Foundation (NIUF). The vision of the SDT is to create a culture of strategic development through new, interdivisional approaches. The team mission is to develop "game-changing" opportunities that crosscut the NIU ecosystem, match donor, investor, and partner interests with NIU priorities, and drive enduring value to the University.

OTHER MATTERS

Committee Chair Athas asked if there were other matters to come before the Committee. The Committee confirmed that there were no other matters to be discussed.

NEXT MEETING DATE

Committee Chair Athas noted that the next meeting will be held on May 13, 2021.

ADJOURNMENT

Committee Chair Athas asked for a motion to adjourn. Trustee Shields so moved, and Trustee Wasowicz seconded. The motion was approved.

Committee Chair Athas asked Ms. Doyle to conduct a roll call vote.

Trustee John Butler: Yes Trustee Montel Gayles: Yes

Trustee Aidan Shields: Yes Trustee Eric Wasowicz: Yes

Board Chair Dennis Barsema: Yes Committee Chair Rita Athas: Yes

The motion was approved.

The meeting was adjourned at 11:35 a.m.

Jessica Cima/Crystal Doyle

Recording Secretary

view upon request. oceedings.	The minutes contained herein repres	ent a true and accurate st	unimary of the board

STATE LEGISLATIVE REPORT

Chief of Staff and Liaison to the Board of Trustees Dr. Matt Streb, will provide a verbal report.

FEDERAL LEGISLATIVE REPORT

This report covers the period of February through April 2021 and encompasses NIU equities across the federal government.

U.S. Congress

Committee assignments are finalized for the 117th Congress. Notably, Congresswoman Lauren Underwood (D-IL-14) now serves on the House Appropriations Committee where she is assigned to the Subcommittee on Agriculture, Rural Development, Food and Drug Administration, and Related Agencies, and the Subcommittee on Homeland Security. First-term member Congresswoman Mary Miller (R-IL-15) serves on the Education and Labor Committee, Subcommittee on Early Childhood, Elementary, and Secondary Education, and Subcommittee on Health, Employment, Labor, and Pensions, and the Agriculture Committee. First-term member Congresswoman Marie Newman (D-IL-3) serves on the Small Business Committee, and Transportation and Infrastructure Committee.

COVID-19 Relief

On March 11, 2021, the American Rescue Plan Act became law. The \$1.9 trillion bill passed both chambers on party-line votes, which required using the budget reconciliation process in the Senate. The bill provides \$39.58 billion for higher education. As with previous COVID-19 relief bills, these funds are distributed through a Higher Education Emergency Relief Fund (HEERF) structure. The bill does not include more funding specifically for the Governors Education Emergency Relief (GEER) fund. Table 1 summarizes the allocations for NIU and Illinois from the three COVID-19 relief bills. The U.S. Department of Education has not released the allocation for NIU so estimates from the American Council on Education (ACE) and Association of Public and Land-grant Universities (APLU) are shown.

The bill does include \$350 billion in direct aid to state and local governments. It also includes \$600 million for the National Science Foundation for grant extensions, scholarships, fellowships, and related expenses, and it makes public universities eligible for federal payroll tax credits for paid sick and family leave related to COVID-19.

Legislation	Date enacted	NIU allocation: HEERF student aid	NIU allocation: HEERF institution aid	Illinois allocation: GEER Fund
CARES Act	March 27, 2020	\$7.4 million	\$7.4 million	\$108.49 million
CRRSAA	December 27, 2020	\$7.4 million	\$16.3 million	\$47.9 million
American Rescue Plan Act	March 11, 2021	\$20.76 million (ACE Estimate) \$21.34 million (APLU Estimate)	\$20.76 million (ACE Estimate) \$21.1 million (APLU Estimate)	N/A
TOTAL		\$35.56 to 36.14 million	\$44.46 to 44.8 million	\$156.39 million

Table 1. NIU and Illinois allocations from recent COVID-19 relief legislation.

The COVID-19 related conversation among policymakers now focuses on post-pandemic recovery. President Biden has released the outlines of a \$2 trillion infrastructure plan called the American Jobs Plan. Among the many proposed investment areas is \$50 billion for the National Science Foundation. The Biden Administration has said they will release another recovery proposal that includes more of a focus on education in the near future. While Senate Democrats have a path for using budget reconciliation again this year to advance pandemic recovery legislation, it is anticipated to be a heavy lift to get these proposals through both chambers.

Appropriations

The Fiscal Year 2022 (FY22) appropriations process is underway. President Biden has released a \$1.52 trillion budget blueprint. It provides a 16% year-on-year increase for nondefense agencies and a 1.7% year-on-year increase for defense. The request includes raising the maximum Pell grant award by \$400 while noting it is part of a plan to double Pell. The budget contains significant boosts to federal research agencies, including \$51 billion for the National Institute of Health (+\$9 billion) and \$10.2 billion for the National Science Foundation (+\$1.7 billion). The proposal invests heavily in climate science research and development across multiple federal science agencies. More details will be available when the full President's Budget Request is released in the coming weeks.

Congress has begun working on FY22 appropriations as well. Congress has not determined the top-line spending levels for FY22. The House of Representatives has agreed to reinstate congressionally directed spending, formerly known as earmarks, in a limited capacity. Community Project Funding (CPF) is limited to specific agencies and programs, includes a number of transparency and ethics guardrails, and each congressional office can submit only ten CPF requests. NIU has submitted three CPF proposals to members of the Illinois congressional delegation. As of this writing, the Senate has not reached an agreement on the return of congressionally directed spending.

The Administration

Dr. Miguel Cardona was confirmed as Secretary of Education. His experience is primarily in K-12 education and his most recent position was Connecticut's state commissioner of education.

Federal Engagement with NIU

On March 16, 2021, Professor Beth Gaillard virtually hosted Congresswoman Lauren Underwood and local high school students as part of the Congresswoman's STEM Academy. Professor Gaillard discussed her research and personal experience as a scientist.

Congressman Adam Kinzinger was the third virtual speaker in the CLAS Rebuilding Democracy Lecture Series on March 30, 2021. It was a wide-ranging conversation covering his work on Capitol Hill and his thoughts on democracy at home and abroad.

SPONSORED PROGRAM ADMINISTRATION QUARTERLY REPORT

This report covers sponsored funding data for the first three quarters of fiscal year 2021 (FY21). As of March 31, 2021, NIU received 139 awards totaling \$45.2 million (Figure 1). This represents an 87% funding increase over this time last year. While COVID-19 relief funds account for a significant share of this increase, faculty and staff continue to remain competitive for sponsored awards despite the ongoing impacts of the pandemic.

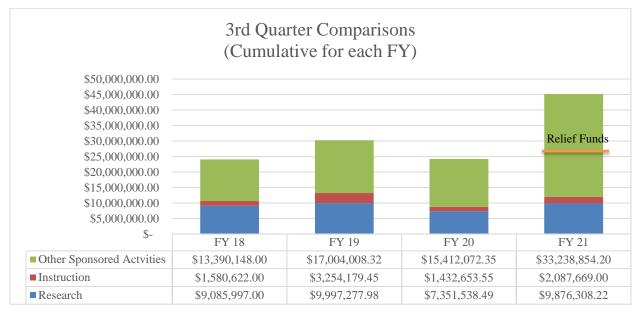


Figure 1

Funding from the U.S. Department of Education (USED) accounted for 64% of all funding for Other Sponsored Activities. See Figure 2. This includes Coronavirus Response and Relief Supplemental **Appropriations** Act (CRRSAA) funding and the Governor's **Emergency Education** Relief (GEER) grants awarded to NIU from the Illinois Board of

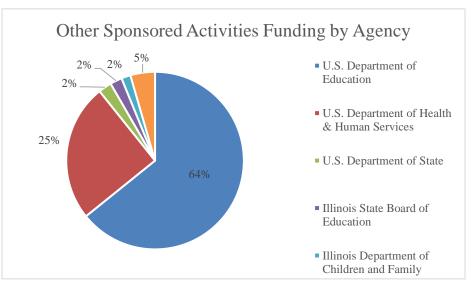
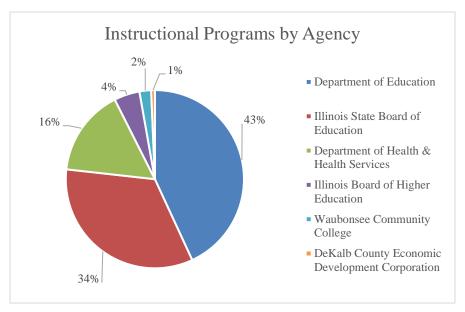


Figure 2 – Other Sponsored Activities includes public service and all other activities other than instruction and research.

Higher Education. Funding from the U.S. Department of Health and Human Services (DHHS) includes contractual programs with State of Illinois agencies to support state and regional public service programs ranging from domestic violence intervention to child protective services.

Awards from the USED accounted for almost half of all funding Instructional programs. See Figure 3. These USED awards are for student training programs. They do not include any federal COVID-19 relief support. One program is led by faculty in the Department of Psychology to train educators to manage bullying behaviors in K-12 settings. Faculty in the **Special** and Early Department Figure 3 Education oversee graduate programs



to prepare teachers to work with youth who are blind or visually impaired. Grants from the DeKalb County Economic Development Corporation and Waubonsee Community College provide essential funding for student internships.

Funding from the National Science Foundation (NSF) and Department of Energy (DOE) continue

to account for half of NIU's research funding. See Figure 4. Agreements with Argonne National Laboratory and Fermilab for research and joint appointments remain the dominant source of DOE funds. Other sponsors for include research University of Illinois for support of NIU's projects through the Illinois Innovation Network (IIN). IIN projects include STEM education to train Illinois' K-12 teachers and environmental sustainability efforts to

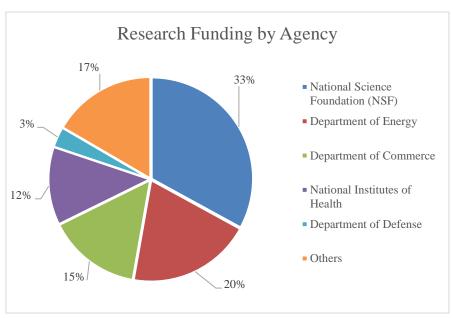


Figure 4

protect our water supply. Faculty in the College of Engineering and Engineering Technology are also partnering with the University of Illinois on research and STEM education projects as part of their partnership with the Illinois Space Grant Consortium (ISGC).

COVID-19

Table 1 provides the status of COVID-19 funding actions through SPA from March 1, 2020 through March 31, 2021. Awards reported in this table include funding received in both FY20 and FY21. The institutional portion of funding through the American Rescue Plan (ARP), estimated at \$20.7 million, is currently pending receipt from the USED. The student aid portion of relief funds are not included in this report.

Table 1: Total COVID-19 Relief Funding

COVID-19 Related Projects (as of March 31	1, 2021)	
Status	Total	# of Projects
Awarded	\$27,657,374.35	10
CARES*	\$23,803,408.00	3
GEER	\$3,402,142.09	2
ARP**	\$0.00	1
Other	\$451,824.26	4
Pending	\$22,265,920.16	9
CARES*	\$0	0
GEER	\$7,025.20	1
CRRSAA*	\$0	1
ARP**	\$20,700,000	1
Other	\$1,558,894.96	6
Declined	\$2,003,427.13	11
Withdrawn	\$3,839,859.00	2
Total Funding Actions	\$55,766,580.64	32

^{*} Figures do not include student aid portion of the CARES or CRRSAA funding. As noted in the August 2020 SPA report, financial aid will report these amounts.

SPA has recorded \$8.9 million in COVID-19 related expenses to grants with most of these expenses allocated to CARES and GEER awards. SPA has not been made aware of any significant disruptions or impacts on existing grants due to COVID-19.

Table 2 shows the distribution of funds across colleges and university units. Other university units hold a large share of funding due to the Division of Finance and Administration's management of COVID-19 relief funding. In the College of Engineering and Engineering Technology, grants from the Illinois Space Grant Consortium, Fermilab, and private industry partners contribute to the large percentage increase.

Table 2: Funding distribution across colleges and units.

College/Division	Research	Inst.	Other	FY21	FY20	Change
Business	\$-	\$-	\$ -	\$-	\$ -	0%
Education	\$28,126	\$650,000	\$45,000	\$723,127	\$674,952	7%
Engineering and Engineering Technology	\$1,103,207	\$ -	\$ -	\$1,103,207	\$295,620	273%
Health and Human Sciences	\$816,536	\$1,032,619	\$421,473	\$2,270,628	\$1,427,606	59%
Law	\$ -	\$ -	\$ -	\$ -	\$ -	0%
Liberal Arts and Sciences	\$6,361,424	\$263,905	\$9,439,124	\$16,054,453	\$13,631,674	18%

^{**} Estimated institutional share through the American Rescue Plan (ARP).

Visual and Performing Arts	\$ -	\$ -	\$7,800	\$7,800	\$68,400	-89%
Outreach and Engagement	\$ -	\$ -	\$3,265,515	\$3,265,515	\$5,639,143	-42%
Other Academic Units	\$1,567,014	\$141,145	\$666,234	\$2,374,393	\$2,458,869	-3%
Other University Units	\$ -	\$ -	\$19,393,707	\$19,393,708	\$ -	N/A
Total	\$9,876,308	\$2,087,669	\$33,239,854	\$45,202,831	\$24,196,264	87%

A detailed listing of awards follows.

ART MUSEUM

Illinois Arts Council for "Art Museum Support." Josephine E Burke.

Award: \$7,800.00.

October 16, 2020 - August 31, 2021. (Other Sponsored Activities) Public Service.

This award will support ongoing exhibits and operating costs for the NIU Art Museum.

BIOLOGICAL SCIENCES

Bureau of Land Management/Department of the Interior for ''Impacts of Historical Disturbance Regimes on Avian Conservation in Eastern Tallgrass Prairies.'' Holly Jones.

Award: \$16,824.00.

August 1, 2020 - December 31, 2021. (Organized Research) Applied Research.

We aim to understand the impacts of bison reintroduction on bird communities in the three tallgrass prairies to which bison have been reintroduced in Illinois.

Friends of Nachusa Grasslands for 'Longitudinal Characterizing of Intestinal Microbial Ecology of Bison.' Pallavi Singh.

Award: \$2,000.00.

February 1, 2021 - January 31, 2022. (Organized Research) Applied Research.

To perform a longitudinal study to assess the intestinal microbial population of the bison and its variation due to external factors including season, diet, water, and soil.

Illinois Department of Natural Resources for "Illinois Blanding's Turtle Recovery Planning and Implementation." Richard B King.

Award: \$259,047.60.

April 1, 2021 - March 31, 2024. (Organized Research) Applied Research.

To facilitate implementation of recovery actions by developing criteria by which Blanding's turtle recovery can be assessed, conducting research to further evaluate management strategies, and updating status assessments of less well-known populations.

CENTER FOR THE STUDY OF FAMILY VIOLENCE AND SEXUAL ASSAULT

Kansas State University for "Collection of Intimate Partner Violence Incident Data." Joel S Milner, Joe Ammar, Julie L Crouch.

Award: \$75,000.00.

May 13, 2020 - September 30, 2021. (Organized Research) Applied Research.

This project will use an Automated Telephone Data Collection (ATDC) system collected from study participants to determine the extent to which new incidents of intimate partner violence (IPV) occur following an alleged incident of IPV.

Illinois Department of Children and Family Services for 'Domestic Violence Intervention Program FY21.'' Julie L Crouch, Matthew E Skarbek.

Award: \$556,554.00.

July 1, 2020 - June 30, 2021. (Other Sponsored Activities) Public Service.

NIU will coordinate and administer the Domestic Violence Intervention Program in conjunction with the DCFS Administrator of the program.

Futures Without Violence for 'Illinois Domestic Violence Co-Location Program - Program Assistant Contract.' Julie L Crouch.

Award: \$40,000.00. Cumulative \$88,736.42.

October 1, 2020 - September 29, 2021. (Other Sponsored Activities) Public Service.

This contract is to add a Program Assistant to the Illinois Domestic Violence Co-Location Program (DVCLP). The purpose of the DVCLP is to improve child welfare interventions provided to families experiencing domestic violence.

Cherokee Nation Businesses for "Subcontract Relating to Air Force Family Advocacy Programs." Julie L Crouch, Joe A Ammar, Joel S Milner, Wendy J Travis.

Award: \$417,000.33.

September 30, 2020 - September 29, 2021. (Other Sponsored Activities) Public Service.

NIU will assist with the evaluation and enhancement of the Air Force Family Advocacy Program and New Parent Support Program.

CHEMISTRY AND BIOCHEMISTRY

ChemNova Technologies, Inc. for ''Nanocoatings for Multifunctional Applications.'' Chhiu-Tsu Lin.

Award: \$10,000.00. Cumulative \$110,000.00.

January 1, 2021 - June 30, 2021. (Organized Research) Applied Research.

The purpose of this project is to develop thermal conductive and cooling nanocomposites, NIR shielding and reflecting nanocomposites, and processes for large scale production of graphene.

Argonne National Laboratory for ''Investigating the Nano-catalyst with X-ray Technique.'' Tao Li.

Award: \$22,918.14.

February 16, 2021 - September 30, 2021. (Organized Research) Applied Research.

The objectives of this joint research activity include fundamental understanding of the relationship of the property and size and composition of the nano-catalyst and quantitative measurement of the size and composition of the catalysts.

CHILD DEVELOPMENT AND FAMILY CENTER

Illinois Network of Child Care Resource & Referral Agencies for "Child Care Restoration Grant." Amy S Lofthouse.

Award: \$115,984.00. Cumulative \$259,915.00.

November 16, 2020 - December 31, 2020. (Other Sponsored Activities) Public Service.

These funds will provide supplemental revenue to assist the Child Development and Family Center, which has reduced capacity due to COVID-19 regulations.

COMPUTER SCIENCE

ProtonVDA Inc for "A Proton Tomography System for Optimization of Proton Therapy." Nicholas T Karonis, George B Coutrakon, Kirk L Duffin, John R Winans.

Award: \$226,439.06. Cumulative \$475,044.06.

April 1, 2021 - March 31, 2022. (Organized Research) Applied Research.

NIU is part of a collaborative team with ProtonVDA and other institutions in joint research to produce and test a fully functional prototype of a proton tomography system with all required clinical features.

CONTROLLER

Office of Postsecondary Education/Department of Education for "Northern Illinois University CARES Act Institutional Emergency Assistance Fund." Sarah E Chinniah, Shyree M Sanan.

Award: \$16,315,819.00. Cumulative \$23,728,408.00.

May 11, 2020 – May 10, 2021. (Other Sponsored Activities) Other.

CARES Act funding issued via Department of Education to provide emergency assistance funding for institutional costs related to COVID-19.

COUNSELING AND HIGHER EDUCATION

NASPA - Student Affairs Administrators in Higher Education for ''Flourishing in the Time of COVID-19: How Institutional Responses to COVID-19 Shape Students Well-Being.'' Gudrun Nyunt.

Award: \$1,000.00.

September 17, 2020 - August 1, 2021. (Organized Research) Applied Research.

The purpose of the study is to explore students' well-being during the fall 2020 semester, focusing particularly on the ways institutional responses to the Coronavirus pandemic are shaping students' well-being.

ELECTRICAL ENGINEERING

Hiwin Corporation for "Mechatronic System Sizing and Selection Tool." Hasan Ferdowsi. Award: \$34,999.17.

March 1, 2021 - January 15, 2022. (Organized Research) Applied Research.

This project will produce a web-interfaceable software platform for the sizing and selection of direct drive servos used in high performance motion control systems.

FAMILY AND CONSUMER SCIENCES

Office of Postsecondary Education/Department of Education for "CCAMPIS 2018." Thomas W Pavkov.

Award: \$116,559.00. Cumulative \$800,180.00.

October 1, 2020 - September 30, 2021. (Other Sponsored Activities) Public Service.

This project allows the Child Development and Family Center to provide low-income student families with high-quality, campus-based childcare to allow the parents to seek higher education.

Illinois Network of Child Care Resource & Referral Agencies for 'Gateways Early Childhood Education Credential Module Pilot.' Melissa Cluca Walter, Florensia F Surjadi.

Award: \$330,000.00.

February 1, 2021 - January 31, 2022. (Instructional Programs) Instructional Programs.

NIU will pilot online Gateways ECE modules within existing courses during the Spring and Fall 2021 semesters and to non-degree seeking professionals who are looking to advance their ECE credential level.

GEOGRAPHIC AND ATMOSPHERIC SCIENCES

National Science Foundation/NSF for "Collaborative Research: Advancing our Understanding of Intraseasonal U.S. Severe Convective Storm Variability." Victor Gensini.

Award: \$474,682.00.

April 1, 2021 - March 31, 2024. (Organized Research) Applied Research.

The core focus of our proposed work is to advance our community understanding of the physical mechanisms that drive intraseasonal variability in severe convective storms.

GEOLOGY AND ENVIRONMENTAL GEOSCIENCES

University of Illinois System for "Forever Chemicals: PFAS Detection, Fate, and Transport in Illinois." Melissa E Lenczewski, Kevin Tucker.

Award: \$30,000.00.

January 21, 2021 - January 20, 2022. (Organized Research) Applied Research.

To increase the capabilities for detection of these compounds in soil and water at both institutions while examining fate and transport of PFAS in sediments found throughout the state of Illinois using laboratory experiments.

National Science Foundation/NSF for ''Collaborative Research: REU Site: Water Resources and Quality in the Riviera Maya, Mexico.'' Melissa E Lenczewski.

Award: \$135,299.40. Cumulative \$414,283.00.

August 3, 2020 - August 31, 2022. (Organized Research) Applied Research.

To provide an opportunity for STEM undergraduate students interested in water sciences to carry out laboratory and field research under the supervision of faculty mentors from NIU, Northeastern Illinois University, and CICY.

University of Illinois System for 'Building a Sustainable Geo-STEM Learning Ecosystem for Illinois Teachers.' Nicole D LaDue.

Award: \$29,993.20.

June 1, 2021 - May 31, 2022. (Organized Research) Applied Research.

This capacity-building project will establish collaborations between Illinois universities, science agencies, and teacher agencies to seed a state-wide GeoSTEM learning ecosystem.

GRADUATE SCHOOL

National Science Foundation/NSF for "NSF GRFP Del Valle." Bradley G Bond, Holly Jones. Award: \$46,000.00.

July 22, 2020 - June 30, 2023. (Organized Research) Basic Research.

To determine the impacts that reintroduced bison have on grassland breeding birds at varying spatial scales throughout the three preserves that support wild bison in eastern tallgrass prairies.

National Science Foundation/NSF for 'GRFP Holthuijzen, Wieteke Aste.' Bradley G Bond, Holly Jones.

Award: \$46,000.00. Cumulative \$138,000.00.

July 1, 2020 - June 30, 2021. (Organized Research) Applied Research.

To determine the ecological impacts of invasive mice on MANWAR through measures of seed predation, seed preference, and plant and arthropod community composition both before and after

mouse eradication and on islands with and without mice.

Waubonsee Community College for 'Graduate Student Placements at Waubonsee Community College.' Bradley G Bond.

Award: \$13,365.00. Cumulative \$93,603.60.

September 8, 2020 - May 15, 2021. (Instructional Programs) Instructional Programs.

This project provides three Graduate Assistants to Waubonsee Community College to work under the Dean of Students in the areas of Student Affairs (two students), and the under the Athletics Manager to work with the Athletics Trainer (1 student).

INDUSTRIAL AND SYSTEMS ENGINEERING

Swenson Spreader LLC for "Process Improvements for Swenson Spreader LLC." Niechen Chen.

Award: \$31,174.92.

March 15, 2021 - March 14, 2022. (Organized Research) Applied Research.

The main objective of this project is to implement solutions that will enhance Swenson Spreader's capability to continuously deliver high-quality products and keep up with the growing demand.

Triangle Package Machinery Company for 'Process Improvement at Triangle Packaging Machinery Company.'' Purushothaman Damodaran.

Award: \$86,999.00.

February 15, 2021 - February 14, 2022. (Organized Research) Applied Research.

The project objective is to identify improvement opportunities and implement solutions in the areas of machine shop, stockroom and assembly. By improving the production of each area Triangle Packaging will be able to keep up with customer demand.

MECHANICAL ENGINEERING

Fermi National Accelerator Laboratory for 'Dark Matter Searches Employing Quantum Metrology.' Iman Salehinia.

Award: \$9,639.00. Cumulative \$51,578.00.

January 1, 2021 - December 31, 2021. (Organized Research) Applied Research.

Professor Iman Salehinia will mentor a graduate student in the design and analysis of components for dark matter searches employing quantum metrology.

University of Illinois at Urbana-Champaign for "Expanding the Pipeline and Enhancing Education of Students Pursuing Careers in Space." John T Shelton.

Award: \$141,297.70.

September 15, 2020 - September 14, 2021. (Organized Research) Applied Research.

The overall goal of this project is to increase the number of students and enhance the education of students pursuing careers in space.

NORTHERN PUBLIC RADIO

Illinois State Library for 'Northern Illinois Radio Information Service (NIRIS) FY21.'' Staci Hoste.

Award: \$28,273.00.

July 1, 2020 - June 30, 2021. (Other Sponsored Activities) Other.

Funds are used to provide informational services for persons who cannot read conventional print due to visual or physical disability, and because individual libraries cannot provide such services.

PHYSICS

Argonne National Laboratory for "NIU to Argonne Joint Appointment: Dr. Andreas Glatz. FY21." Andreas Glatz.

Award: \$2,781.86. Cumulative \$98,065.58.

August 16, 2020 - May 15, 2021. (Organized Research) IPA or Joint Appointment.

Funds are being used to support a joint appointment between NIU and Argonne National Laboratory for Dr. Andreas Glatz.

Office of Science/Department of Energy for ''Detector R&D: 5-D Dual-Readout Calorimetry for the Next Generation of HEP Experiments.'' Corrado Gatto, Jerry Blazey, Michael Syphers, Vishnu V Zutshi.

Award: \$100,000.00. Cumulative \$200,000.00.

May 1, 2020 - March 31, 2021. (Organized Research) Applied Research.

The purpose of this proposal is the development of a novel 5-D calorimetric that will allow significant improvements in particle identification and tractability of high-density particle environments.

Fermi National Accelerator Laboratory for "Development of the MU2E Preliminary Design." David R Hedin.

Award: \$122,075.10. Cumulative \$263,899.00.

January 1, 2021 - December 31, 2021. (Organized Research) Applied Research.

The purpose of this project is to support NIU's role in developing the Muon Beamstop, SiPM Characterization, and design of the Upstream Extinction Monitor.

National Science Foundation/NSF for 'Searches for New Phenomena at the Energy Frontier.' Dhiman Chakraborty, Jahred A Adelman.

Award: \$350,000.00. Cumulative \$900,000.00.

August 1, 2020 - July 31, 2021. (Organized Research) Applied Research.

Funds are requested to search for physics beyond the Standard Model using the ATLAS detector at the Large Hadron Collider.

State University of New York at Stony Brook for "US ATLAS Operations." Dhiman Chakraborty.

Award: \$72,516.57. Cumulative \$1,076,566.00.

February 1, 2020 - January 31, 2022. (Organized Research) Applied Research.

Funds are requested to develop and maintain the ATLAS calibration database and related software.

State University of New York at Stony Brook for "US ATLAS Operations." Dhiman Chakraborty.

Award: \$139,115.34. Cumulative \$1,076,566.00.

February 1, 2021 - January 31, 2022. (Organized Research) Applied Research.

Funds are requested to develop and maintain the ATLAS calibration database and related software.

Argonne National Laboratory for 'Synthesis and Characterization of Superconducting Pnictide Materials." Omar H Chmaissem.

Award: \$54,520.20. Cumulative \$119,274.00.

January 1, 2021 - December 31, 2021. (Organized Research) Applied Research.

Diffuse scattering studies will be performed at the Advanced Photon Source at Argonne National Laboratory and utilizing the novel diffuse scattering instrument Corelli at the Spallation Neutron

Source at Oak Ridge National Laboratory.

Argonne National Laboratory for "Structural Investigations of Advanced Functional Materials using Neutron and X-ray Scattering." Omar H Chmaissem.

Award: \$43,659.00. Cumulative \$246,609.16.

April 1, 2021 - March 31, 2022. (Organized Research) Applied Research.

This project supports the research and supervision activities of NIU's Professor Omar Chmaissem within the Neutron and X-ray Scattering (NXRS) Group of the Materials Science Division at Argonne National Laboratory.

Department of Energy for "High-Current Electron Sources for Superconducting Radiofrequency Injectors." Philippe Piot, Venumadhav R Korampally, Iman Salehinia.

Award: \$59,999.94. Cumulative \$332,001.00.

September 25, 2020 - September 24, 2021. (Organized Research) Applied Research.

Funds are requested to explore the coupling of a high-current electron source to a superconducting accelerator with ultimate goal of forming electron beams with Mega-Watt average power.

Argonne National Laboratory for 'Application of Machine Learning to Particle-Accelerator Control.' Philippe Piot.

Award: \$38,000.34.

January 15, 2021 - January 14, 2022. (Organized Research) Applied Research.

Funding is requested for GRA to work on the Application of Machine Learning to Particle-Accelerator Control.

Department of Energy for 'Beam Dynamics Performances of a Superconducting Reentrant-Cavity Photoinjector with Applications to Free-Electron Lasers and Relativistic Ultra-fast Electron Nanoprobes.' Philippe Piot.

Award: \$65,000.48. Cumulative \$130,000.00.

May 1, 2021 - April 30, 2022. (Organized Research) Applied Research.

Funds are requested to develop a high-repetition-rate source of bright electrons.

Argonne National Laboratory for ''Xiao Joint Appointment NIU-ANL FY 21.'' Zhili Xiao.

Award: \$117.02. Cumulative \$121,899.80.

August 16, 2020 - May 15, 2021. (Organized Research) IPA or Joint Appointment.

Funds are being used to support a joint appointment between NIU and Argonne National Laboratory for Dr. Zhili Xiao.

PRECOLLEGIATE-UPWARD BOUND

Office of Postsecondary Education/Department of Education for "Upward Bound Program." Felicia R Bohanon.

Award: \$564,041.00. Cumulative \$2,245,323.00.

June 1, 2020 - May 31, 2021. (Other Sponsored Activities) Public Service.

Funds will be used to identify, select and serve 120 low-income, potential first-generation college students who lack the adequate preparation to successfully pursue a postsecondary education and need academic support.

PSYCHOLOGY

University of Michigan for "Teacher Learning to Facilitate Communication and Reasoning Through Inquiry with History and Social Science Sources." Anne Britt, Amanda M Durik. Award: \$14,303.00. Cumulative \$160,120.00.

January 1, 2021 - December 31, 2021. (Organized Research) Basic Research.

This project will develop measures and devise scoring procedures to assess teachers' beliefs, conduct case studies, analyze, summarize, and interpret data relevant to teachers' beliefs.

Illinois Department of Children and Family Services for 'Integrated Assessment Program FY21.'' Laura D Pittman, Matthew E Skarbek.

Award: \$6,817,267.00.

July 1, 2020 - June 30, 2021. (Other Sponsored Activities) Public Service.

Funds support the Integrated Assessment (IA) Program, which provides clinical screening and assessment services to children under the care of DCFS in the northern, central, and southern IA Program regions.

National Institute of Mental Health/NIH/DHHS for "Mitigating Risk from Macroeconomic Stress on Child Mental Health (Re-submission)." Liz Shelleby.

Award: \$197,094.18.

January 1, 2021 - December 31, 2021. (Organized Research) Applied Research.

This project will examine the potential for ParentCorps, a school-based preventive intervention found to promote positive parenting and child mental health, to buffer the effects of macroeconomic shock on children's mental health and family adjustment.

Office of Special Education and Rehabilitative Services/Department of Education for ''Project Prevent and Address Bullying Behavior at All Tiers (PPABB).'' Michelle Demaray.

Award: \$250,000.00.

October 1, 2020 - September 30, 2021. (Instructional Programs) Instructional Programs.

This project will recruit, train, and graduate 12 school psychology and 12 special educator scholars with specialized interdisciplinary training in addressing bullying with expertise in applied behavior analysis.

SCHOOL OF INTERDISCIPLINARY HEALTH PROFESSIONS

Illinois Department of Public Health for "County Wide BRFSS." Kathryn D Mazurek.

Award: \$315,000.00. Cumulative \$2,981,000.00.

January 1, 2020 - December 31, 2022. (Organized Research) Applied Research.

The purpose of this project is for data collection, data management, reporting and technical support on the Illinois County Behavioral Risk Factor Surveys.

SCHOOL OF HEALTH STUDIES

University of Illinois System for "Development and Identification of Predictors of a Novel Cancer Mortality Index in Illinois: Discovering Opportunities for Public Health Intervention." Courtney Hughes, Mahdi Vaezi.

Award: \$30,000.00.

May 16, 2021 - May 15, 2022. (Organized Research) Applied Research.

This study will develop a novel cancer mortality index based on the four common cancers in IL and investigate associations between the mortality index and cancer predictors.

University of Illinois System for ''Sustainable Water Supply System in Illinois using Innovative Electrochemical Treatment Technology.'' Tomoyuki Shibata, Kyu Taek Cho.

Award: \$19.769.00.

February 15, 2021 - February 14, 2022. (Organized Research) Applied Research.

This project will investigate innovative improvements to the conventional centralized public water

system in Illinois.

VICE PRESIDENT FOR RESEARCH AND INNOVATION PARTNERSHIPS

Illinois Manufacturing Excellence Center for ''IMEC Five Year Master Agreement.'' Jerry Blazey.

Award: \$1,475,014.00.

October 1, 2020 - September 30, 2021. (Organized Research) Applied Research.

The purpose of the five-year project is to perform research services directed toward increasing the productivity and global competitive advantage of regionally-based manufacturing and technology-related firms.

OPEN ACCESS PRESENTATION

Dean of University Libraries, Fred Barnhart, will provide a verbal presentation.

FACULTY PRESENTATION

Professor of Meteorology, Climatology, Hazards, and GIS, Dr. Walker Ashley, will provide a verbal presentation.