Board of Regents

October 2019

October 11, 2019
11:30 a.m.

Boardroom, McNamara Alumni Center
1. Approval of Minutes - Action
   Minutes - Page 3

2. Report of the President
   Docket Item Summary - Page 18

3. Report of the Chair
   Docket Item Summary - Page 19

4. Receive & File Reports
   Docket Item Summary - Page 20

5. Consent Report - Review/Action
   Docket Item Summary - Page 21
   Gifts - Page 24

6. Systemwide Strategic Plan: Strategic Commitments
   Docket Item Summary - Page 31
   Presentation - Page 32

   Docket Item Summary - Page 41
   MnDRIVE at 5 - Page 46
   Presentation - Page 48

8. Report of the Committees
   Docket Item Summary - Page 65
A meeting of the Mission Fulfillment Committee of the Board of Regents was held on Thursday, September 12, 2019 at 9:00 a.m. in the Boardroom, 600 McNamara Alumni Center.

Regents present: Thomas Anderson presiding; Richard Beeson, Mary Davenport, Kao Ly Ilean Her, Michael Hsu, Mike Kenyanya, Janie Mayeron, Ken Powell, Darrin Rosha, Randy Simonson, and Steve Sviggum. David McMillan participated by phone.

Staff present: President Joan Gabel; Executive Vice President and Provost Karen Hanson; Chancellors Michelle Behr, Lendley Black, Lori Carrell, and Mary Holz-Clause; Senior Vice President Brian Burnett; Vice Presidents Michael Berthelsen, Christopher Cramer, Michael Goh, Bernard Gulachek, and Matt Kramer; General Counsel Douglas Peterson; and Executive Director Brian Steeves.

Student Representatives present: Spencer Basarich and Brandon King.

The docket materials for this meeting are available here.

2019-20 COMMITTEE WORK PLAN

Regent Anderson and Executive Vice President and Provost Karen Hanson reviewed the 2019-20 Committee Work Plan, as detailed in the docket.

The docket materials for this item begin on page 3. The closed captioned video of this item is available here.

ANNUAL REPORT ON ACADEMIC PROGRAM CHANGES

Regent Anderson invited Executive Vice President and Provost Hanson and three UMTC faculty members – Daniel Griffin, Assistant Professor, Department of Geography, Environment and Society, College of Liberal Arts; Joseph Knight, Associate Professor, Department of Forest Resources, College of Food, Agricultural and Natural Resource Sciences; and Donna Whitney, Professor, Department of Earth and Environmental Sciences College of Science and Engineering – to provide the annual report on academic program changes, as detailed in the docket.

The docket materials for this item begin on page 6. The closed captioned video of this item is available here.
ADDRESSING AFFORDABILITY: SUPPORTING STUDENT FINANCING OF EDUCATION

Regent Anderson invited Robert McMaster, Vice Provost and Dean of Undergraduate Education, and Tina Falkner, Director, Office of Student Finance, to discuss affordability and student financing of education, as detailed in the docket.

The docket materials for this item begin on page 39. The closed captioned video of this item is available here.

THE OUTREACH MISSION: BELL MUSEUM AND GLENSHEEN PROGRAMS AND OUTCOMES

Regent Anderson invited Denise Young, Executive Director of the Bell Museum, and Daniel Hartman, Director of Glensheen, to discuss their facilities’ outreach mission outcomes, as detailed in the docket.

The docket materials for this item begin on page 84. The closed caption video of this item is available here.

CONSENT REPORT

A motion was made and seconded, and the committee voted unanimously to recommend approval of the following, as described in the Consent Report:

- **Request for Approval of New Academic Programs**
  - Academic Health Sciences (Twin Cities campus)—Create M.S. degree in Biomedical Laboratory Sciences
  - School of Public Health (Twin Cities campus)—Create post-baccalaureate certificate in American Indian Public Health and Wellness
  - Carlson School of Management (Twin Cities campus)—Create undergraduate minor in Strategic Management

- **Request for Approval of Changed Academic Programs**
  - College of Veterinary Medicine (Twin Cities campus)—Establish formal transfer agreement with South Dakota State University
  - College of Science and Engineering (Twin Cities campus)—Change name of the M.S. degree in Electrical Engineering to Electrical and Computer Engineering
  - School of Public Health (Twin Cities campus)—Deliver the Healthcare Administration M.H.A. degree partially online and discontinue Saudi Partnership
  - School of Public Health (Twin Cities campus)—Deliver the Public Health Administration and Policy M.P.H. degree online

- **Request for Approval of Discontinued Academic Programs**
  - College of Education and Human Service Professions (Duluth campus)—Discontinue Education Administration Specialist degree
• **Request for Conferral of Tenure for Outside Hires**
  
  - Lars Hansen, Associate Professor with tenure, Earth Sciences, College of Science and Engineering
  - Peter Nalin, Professor with tenure, Family Medicine and Biobehavioral Health, Medical School
  - Maxim Pospelov, Professor with tenure, School of Physics and Astronomy, College of Science and Engineering
  - Vera Pospelova, Professor with tenure, Earth Sciences, College of Science and Engineering
  - Stephanie Terezakis, Professor with tenure, Radiation Oncology, Medical School
  - Johan Ubbink, Professor with tenure, Food Science and Nutrition, College of Food, Agricultural, and Natural Resource Sciences
  - Alvin Wee, Professor with tenure, Restorative Sciences, School of Dentistry

The docket materials for this item begin on page 130. The closed captioned video of this item is available here.

**INFORMATION ITEMS**

Executive Vice President and Provost Karen Hanson referred the committee to the information items in the docket.

The docket materials for this item begin on page 136.

The meeting adjourned at 11:53 a.m.

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BRIAN R. STEEVES  
Executive Director and Corporate Secretary
A meeting of the Finance & Operations Committee of the Board of Regents was held on Thursday, September 12, 2019 at 2:00 p.m. in the Boardroom, 600 McNamara Alumni Center.

Regents present: Richard Beeson, presiding; Thomas Anderson, Mary Davenport, Kao Ly Ilean Her, Michael Hsu, Mike Kenyanya, Janie Mayeron, Kendall Powell, Darrin Rosha, Randy Simonson, and Steve Sviggum. David McMillan participated by phone.

Staff present: President Joan Gabel; Chancellors Michelle Behr, Lendley Black, Lori Carrell, and Mary Holz-Clause; Executive Vice President and Provost Karen Hanson; Senior Vice President Brian Burnett; Vice Presidents Michael Berthelsen, Christopher Cramer, Michael Goh, Bernard Gulachek, Matt Kramer, and Jakub Tolar; General Counsel Douglas Peterson; Executive Director Brian Steeves; Associate Vice Presidents Stuart Mason, Julie Tonneson, and Michael Volna; and Interim Associate Vice President Laurie McLaughlin.

Student Representatives present: Eleora DeMuth and Austin Kraft.

The docket materials for this meeting are available here.

**2019-20 COMMITTEE WORK PLAN**

Regent Beeson and Senior Vice President Burnett reviewed the 2019-20 Committee Work Plan, as detailed in the docket.

The docket materials for this item begin on page 4. The closed captioned video of this item is available here.

**PRESIDENT’S RECOMMENDED 2019 SIX-YEAR CAPITAL PLAN AND 2020 STATE CAPITAL REQUEST**

Regent Beeson invited President Gabel, Senior Vice President Burnett, and Vice President Berthelsen to review the President’s recommended 2019 Six-Year Capital Plan and 2020 State Capital Request, as detailed in the docket.

The docket materials for this item begin on page 10. The closed captioned video of this item is available here.
OVERVIEW OF FAMILY STUDENT HOUSING ON THE TWIN CITIES CAMPUS

Regent Beeson invited Interim Associate Vice President McLaughlin and Monique MacKenzie, Director of Campus Planning, to provide an overview of family student housing on the Twin Cities campus, as detailed in the docket.

The docket materials for this item begin on page 58. The closed captioned video of this item is available here.

RESOLUTION RELATED TO DINING SERVICES CONTRACT EXTENSION

Regent Beeson invited Vice President Berthelsen and Amy Keran, Director of Contract Administration, to review the resolution related to dining service contract extension for the Twin Cities campus, as detailed in the docket.

The docket materials for this item begin on page 73. The closed captioned video of this item is available here.

Beeson recessed the meeting at 3:42 p.m.

REAL ESTATE TRANSACTION

Regent Beeson reconvened the meeting at 3:52 p.m. and invited Assistant Vice President Leslie Krueger, Vice President Tolar, and Dean Jean Quam, College of Education and Human Development, Twin Cities campus, to review the following real estate transactions, as detailed in the docket.

A. Purchase of 2025 East River Parkway, Minneapolis, Minnesota (Twin Cities campus)
B. Sale of 701 24th Avenue Southeast, Minneapolis, Minnesota (Twin Cities campus)

The docket materials for this item begin on page 88. The closed captioned video of this item is available here.

CONSENT REPORT

Senior Vice President Burnett presented the Consent Report, as detailed in the docket.

The docket materials for this item begin on page 115. The closed captioned video of this item is available here.

General Contingency:

- There were no items requiring approval this period.
Purchase of Goods and Services $1,000,000 and Over:

- To Academic Programs International (API), Academic Studies Abroad (ASA), American Institute for Foreign Studies (AIFS), CEA Study Abroad, Center for International Studies (CISabroad), International Studies Abroad (ISA), and University Studies Abroad Consortium (USAC) and others (see additional list below) for an estimated total of $1,500,000 to provide services to support study abroad programs for UMD International Programs and Services’ Study Abroad office for FY 2020. The program fees cover the costs of the academic program and the administrative costs for the UMD Study Abroad office. See enclosed documentation for basis of supplier selection.

- To Delta Dental for the estimated $1,398,276 for administering a self-funded UPlan dental plan for the University of Minnesota Office of Human Resources, Employee Benefits for the period of January 1, 2020 through December 31, 2021 with optional contract extensions through December 31, 2025 for an additional $2,778,553. Total contract value, if all options are exercised would be $4,167,829. The administrative service fees are funded on an annual basis through the fringe pool. Delta Dental, the current supplier, was selected as a result of a competitive request for proposal (RFP) process conducted by Purchasing Services. Three suppliers responded to the RFP.

- To Minnesota Life Insurance Company for the estimated $9,314,486 for life insurance coverage for the University of Minnesota Office of Human Resources, Total Compensation for the period of January 1, 2020 through December 31, 2021 with optional contract extensions through December 31, 2025 for an additional $18,628,972. Total contract value, if all options are exercised would be $27,943,458. The premium fees are funded on an annual basis through the fringe pool for basic life insurance. All other coverages are funded by employee paid premiums. Minnesota Life Insurance Company, a new supplier relationship, was selected as a result of a competitive request for proposal (RFP) process conducted by Purchasing Services. Five suppliers responded to the RFP.

- To TeamDynamix for an estimated $1,179,381 for an IT Service Management and IT Asset Management solution for the Office of Information Technology (OIT) for the period of September 30, 2019 to September 29, 2024. This requirement is currently budgeted and will be funded utilizing OIT O&M funds. TeamDynamix, a new supplier relationship, was selected as a result of a competitive request for proposal (RFP) process conducted by Purchasing Services. Eight suppliers responded to the RFP.

A motion was made and seconded, and the committee voted unanimously to recommend approval of the Consent Report.

INFORMATION ITEMS

Senior Vice President Burnett referred the committee to the information items in the docket:

- Annual Asset Management Report
- Investment Advisory Committee Update
- Progress Report on Sustainability and Energy Efficiency Targets and Standards
- Quarterly Purchasing Report
The docket materials for this item begin on page 123. The closed captioned video of this item is available here.

The meeting adjourned at 5:02 p.m.

BRIAN R. STEEVES
Executive Director and
Corporate Secretary
A meeting of the Audit & Compliance Committee of the Board of Regents was held on Friday, September 13, 2019 at 9:45 a.m. in the Boardroom, 600 McNamara Alumni Center.

Regents present: Darrin Rosha, presiding; Mary Davenport, Michael Hsu, Mike Kenyanya, Ken Powell, and Steve Sviggum.

Staff present: President Joan Gabel; Executive Vice President and Provost Karen Hanson; Chancellor Mary Holz-Clause; Vice Presidents Christopher Cramer, Michael Goh, and Bernard Gulachek; Executive Director Brian Steeves; Chief Auditor Gail Klatt; and Associate Vice President Michael Volna.

Student Representatives present: Misk Al Zahidy and Rodrigo Togo Garcia.

The docket materials for this meeting are available here.

### 2019-20 COMMITTEE WORK PLAN

Regent Rosha and Chief Auditor Klatt reviewed the 2019-20 Committee Work Plan, as detailed in the docket.

The docket materials for this item begin on page 3. The closed captioned video of this item is available here.

### OVERVIEW OF FINANCIAL STATEMENTS REVIEW

Regent Rosha invited Associate Vice President Michael Volna to discuss the financial statements review, as detailed in the docket.

The docket materials for this item begin on page 8. The closed captioned video of this item is available here.

### UNIVERSITY CYBERSECURITY PROGRAM: OVERVIEW AND WORK PLAN

Regent Rosha invited Bernard Gulachek, Vice President and Chief Information Officer and Brian Dahlin, Chief Information Security Officer to discuss the University's cybersecurity program, as detailed in the docket.

The docket materials for this item begin on page 11. The closed captioned video of this item is available here.
INTERNAL AUDIT CHARTER

Regent Rosha invited Chief Auditor Klatt to discuss the Internal Audit Charter, as detailed in the docket.

The docket materials for this item begin on page 25. The closed captioned video of this item is available here.

INFORMATION ITEMS

Chief Auditor Klatt referred the committee to the information items in the docket:

- Engagements Less Than $100,000 Requiring After-the-Fact Reporting.
- Summary of Recent Audits of Federal Sponsored Awards.

The docket materials for this item begin on page 30. The closed captioned video of this item is available here.

The meeting adjourned at 10:53 a.m.

BRIAN R. STEEVES
Executive Director and Corporate Secretary
A meeting of the Litigation Review Committee of the Board of Regents was held on Friday, September 13, 2019 at 9:45 a.m. in the West Committee Room, 600 McNamara Alumni Center.

Regents present: Richard Beeson, presiding; Thomas Anderson, Kao Ly Ilean Her, Janie Mayeron, and Randy Simonson. David McMillan participated by phone.

Staff present: Senior Vice President Brian Burnett; General Counsel Douglas Peterson; and Executive Director Brian Steeves.

Others present: Jeanett Bazis, Brent Benrud, Carrie Ryan Gallia, Timothy Pramas, Brian Slovut, and Katherine Swenson.

The docket materials for this meeting are available here.

RESOLUTION TO CONDUCT NON-PUBLIC MEETING OF THE LITIGATION REVIEW COMMITTEE

The meeting convened in public session at 9:46 a.m. A motion was made and seconded that the following resolution be adopted:

WHEREAS, based on advice of the General Counsel, the Board of Regents Litigation Review Committee has balanced the purposes served by the Open Meeting Law and by the attorney-client privilege, and determined that there is a need for absolute confidentiality to discuss litigation strategy in particular matters involving the University of Minnesota.

NOW, THEREFORE, BE IT RESOLVED, that in accordance with Minn. Stat. § 13D.01, Subd. 3 and 13D.05 Subd. 3(b), a non-public meeting of Litigation Review Committee be held on September 13, 2019 at 9:45 a.m. in the West Committee Room, 600 McNamara Alumni Center, for the purpose of discussing attorney-client privileged matters including the following:

I. Patent Litigation

   a. Regents of the University of Minnesota v. Gilead Sciences, Inc.


II.  *Shannon Miller, Jen Banford and Annette Wiles v. The Board of Regents of the University of Minnesota*


IV.  *Paige Du Bois v. The Board of Regents of the University of Minnesota*

The committee voted unanimously to adopt the resolution and the public portion of the meeting ended at 9:48 a.m.

The meeting adjourned at 10:47 a.m.

BRIAN R. STEEVES
Executive Director and Corporate Secretary
A meeting of the Board of Regents of the University of Minnesota was held on Friday, September 13, 2019 at 11:30 a.m. in the Boardroom, 600 McNamara Alumni Center.

Regents present: Kendall Powell, presiding; Thomas Anderson, Richard Beeson, Mary Davenport, Kao Ly Ilean Her, Michael Hsu, Mike Kenyanya, Janie Mayeron, Darrin Rosha, Randy Simonson, and Steve Sviggum. David McMillan participated by phone.

Staff present: President Joan Gabel; Chancellors Michelle Behr, Lendley Black, and Mary Holz-Clause; Executive Vice President and Provost Karen Hanson; Senior Vice President Brian Burnett; Vice Presidents Michael Berthelsen, Christopher Cramer, Matt Kramer, and Jakub Tolar; General Counsel Douglas Peterson; Executive Director Brian Steeves; and Associate Vice President Michael Volna.

The docket materials for this meeting are available here.

RECOGNITIONS

Regents Professors

Regent Powell and President Gabel recognized newly appointed Regents Professors Ned Mohan, David Y.H. Pui, and Marlene Zuk. The docket materials for this item begin on page 3. The closed captioned video of this item is available here.

APPROVAL OF MINUTES

The Board voted unanimously to approve the following minutes as presented in the docket materials:

- Board of Regents – July 11, 2019
- Litigation Review Committee Special Meeting – August 2, 2019

The docket materials for this item begin on page 5. The closed captioned video of this item is available here.

REPORT OF THE PRESIDENT

President Gabel delivered the report of the President. A copy of the Report of the President is on file in the Board Office.
REPORT OF THE CHAIR

Regent Powell delivered the report of the Chair. A copy of the Report of the Chair is on file in the Board Office.

RECEIVE AND FILE REPORTS

Regent Powell noted the receipt and filing of reports, as described in the docket materials, including:

- Quarterly Report of Grant and Contract Activity
- Summary of Expenditures

CONSENT REPORT

Regent Powell presented for review and action the Consent Report as described in the docket materials, including:

- Gifts

A motion was made and seconded, and the Board voted unanimously to approve the Consent Report.

OVERVIEW OF SYSTEMWIDE STRATEGIC PLANNING

Regent Powell invited President Gabel to provide an overview of Systemwide Strategic Planning, as detailed in the docket.

There was a brief disruption, after which President Gabel resumed her remarks.

Regent Anderson left the meeting.

The docket materials for this item begin on page 10. The closed captioned video of this item is available here.

The docket materials for this item begin on page 11. The closed captioned video of this item is available here.

The docket materials for this item begin on page 12. The closed captioned video of this item is available here.

The docket materials for this item begin on page 23. The closed captioned video of this item is available here.

The docket materials for this item begin on page 43. The closed captioned video of this item is available here.
HEALTH SCIENCES STRATEGY: CLINICAL CARE

Regent Powell invited Dean Tolar and James Hereford, President and CEO, Fairview Health Services, to review the clinical care strategy for the University's health sciences.

The docket materials for this item begin on page 50. The closed captioned video of this item is available here.

REPORT ON PRIVATE GIVING & UPDATE ON DRIVEN CAMPAIGN

Regent Powell invited Kathleen Schmidtkofer, UMF President and CEO, and Nancy and John Lindahl, Driven Campaign co-chairs, to present a report on private giving and update on the Driven campaign, as detailed in the docket.

The docket materials for this item begin on page 75. The closed captioned video of this item is available here.

REPORT OF THE MISSION FULFILLMENT COMMITTEE

Regent Davenport, vice chair of the committee, reported that the committee voted to recommend the following items.

The committee docket materials can be found here. The closed captioned video of this item is available here.

1) Approval of the Consent Report for the Mission Fulfillment Committee as presented to the committee and described in the September 12, 2019 committee minutes. The committee docket materials for this item can be found on page 130. A motion was made, and the Board voted unanimously to approve the Consent Report.

REPORT OF THE FINANCE & OPERATIONS COMMITTEE

Regent Beeson, vice chair of the committee, reported that the committee voted to recommend the following items.

The committee docket materials can be found here. The closed captioned video of this item is available here.

1) Approval of the Consent Report for the Finance & Operations Committee as presented to the committee and described in the September 12, 2019 committee minutes. The committee docket materials for this item can be found on page 115. A motion was made, and the Board voted unanimously to approve the Consent Report.

REPORT OF THE AUDIT & COMPLIANCE COMMITTEE

Regent Rosha, chair of the committee, reported that the committee did not take action on any items this month.
The committee docket materials can be found here. The closed captioned video of this item is available here.

REPORT OF THE LITIGATION REVIEW COMMITTEE

Regent Beeson, chair of the committee, reported that pursuant to notice sent by the University, the Litigation Review Committee met on September 13, 2019. At this meeting, a resolution was considered and adopted that authorized the closing of the meeting. In the closed meeting, discussion was held on matters subject to the attorney-client privilege.

The committee docket materials can be found here. The closed captioned video of this item is available here.

The meeting adjourned at 1:59 p.m.

BRIAN R. STEEVES
Executive Director and Corporate Secretary
AGENDA ITEM: Report of the President

☐ Review  ☐ Review + Action  ☐ Action  ☒ Discussion

☐ This is a report required by Board policy.

PRESENTERS: President Joan T.A. Gabel

PURPOSE & KEY POINTS

It is customary for the President to report on items of interest to the University community at each Board meeting.
BOARD OF REGENTS
DOCKET ITEM SUMMARY

Board of Regents

AGENDA ITEM: Report of the Chair

☐ Review  ☐ Review + Action  ☐ Action  ☒ Discussion

☐ This is a report required by Board policy.

PRESENTERS: Regent Kendall J. Powell

PURPOSE & KEY POINTS

It is customary for the Chair to report on items of interest to the University community at each Board meeting.
AGENDA ITEM: Receive & File Reports

☐ Review  ☐ Review + Action  ☐ Action  ☒ Discussion

☒ This is a report required by Board policy.

PRESENTERS: Regent Kendall J. Powell

PURPOSE & KEY POINTS

There are no reports to receive and file this month.
AGENDA ITEM: Consent Report - REVISED

☐ Review  ☒ Review + Action  ☐ Action  ☐ Discussion

☐ This is a report required by Board policy.

PRESENTERS: Regent Kendall J. Powell

PURPOSE & KEY POINTS

A. Gifts

The President recommends approval of the Summary Report of Gifts to the University of Minnesota through August 31, 2019.

B. Ex-Officio Appointment to Fairview Health Services Board of Directors

The President recommends approval of the appointment of Dr. Melissa Geller as an ex officio member of the Fairview Health Services Board of Directors. Geller is an associate professor in the Department of Obstetrics, Gynecology and Women’s Health and is the Director for the Division of Gynecologic Oncology. She received her M.D. from Finch University of Health Sciences/Chicago Medical School. She obtained her Obstetrics and Gynecology residency training, her fellowship in Gynecologic Oncology, and her MS in Public Health at the University of Minnesota. Geller is an accomplished clinical trialist, active in research addressing new therapies for women with recurrent ovarian cancer.

This approval is sought in compliance with Board of Regents Policy: Appointments to Organizations and Boards.

C. Nominations to the University of Minnesota Foundation Board of Trustees

As outlined in Board of Regents Policy: Appointments to Organizations and Boards, the Board Chair, in consultation with the President, recommends nominees for Board-appointed seats on the University of Minnesota Foundation Board of Trustees. The Chair recommends appointment of the following individuals:

- Shari L. Ballard, Vice Chair (completing 4th term as a Regent-nominated trustee; eligible for 5th term) – Shari Ballard is a seasoned executive with more than 25 years of retail experience. She most recently was the president of multichannel retail for Best Buy Co. Inc, where she was responsible for all U.S. Best Buy stores, e-commerce, Best Buy Mexico, and the company’s real estate strategy until August of 2018. She continued to serve as an advisor until April of 2019. After graduating with a bachelor’s degree from
the University of Michigan - Flint, Ballard was hired in 1993 to work in a local Best Buy store, beginning as an assistant store manager, and rising to general manager. After a variety of retail leadership roles, she was promoted to executive vice president of human resources and legal. In 2007, Ballard assumed responsibility for Best Buy stores in the United States, focusing her energies on deepening customer relationships and better utilizing the full range of talent and resources that reside within the company's stores to drive growth. She was promoted to president of Americas, U.S., and Mexico in 2010, and two years later, she was appointed president of international, overseeing business and the transformation efforts in Canada, China, Europe, and Mexico. In 2014, Ballard assumed the role of president of U.S. retail, and eventually began a dual role to include chief human resources officer. In 2017, she added e-commerce to her responsibilities. Ballard serves on the board of directors for Ecolab Inc., the global leader in water, hygiene, and energy technologies and services.

- Regent Richard B. Beeson, Jr. (completing 2nd term as a Regent-nominated trustee; eligible for 3rd term) – Richard Beeson is a member and former Chair of the University's Board of Regents, serving his second term from the Fourth Congressional District. He is executive vice president for corporate development and government relations at Sunrise Banks, following 20 years as president and CEO of Sunrise-owned Park Midway Bank in Saint Paul. Previously, he was employed with the city of Saint Paul Department of Planning and Economic Development as senior project manager. Beeson received a Bachelor of Arts degree from the University of Minnesota in political science and an MBA from the University of Saint Thomas. He has served on the board of Women Venture, the Saint Paul Conservatory for Performing Artists, and numerous others, including as chair of the Saint Paul Area Chamber of Commerce, the Central Corridor Partnership, and as treasurer of the Saint Paul RiverCentre Authority.

- Rebecca A. Crooks-Stratton (eligible for 1st term as a Regent-nominated trustee) – Shakopee Mdewakanton Sioux Community member Rebecca Crooks-Stratton is serving her first term as the secretary/treasurer of the Shakopee Mdewakanton Sioux Community (SMSC), a federally recognized, sovereign Native American tribe located southwest of Minneapolis/St. Paul, Minnesota. Crooks-Stratton previously served one term on the SMSC Gaming Enterprise Board of Directors and chaired its Audit Committee. She also served two terms on the SMSC Gaming Commission and worked for the tribal government in administration roles from 2007-2016. She has led projects such as the Minnesota Tribal Nations Plaza at TCF Bank Stadium in Minneapolis and helped launch a Montessori classroom as part of the SMSC’s daycare program. Throughout her career, Crooks-Stratton has been an active member of the broader community. She is the Midwest Area Vice President Alternate of the National Congress of American Indians, where she represents tribes in the Midwest. She also serves on the Board of Directors of Indian Country Today, a nonprofit news organization. Recently she served as program director at the Native Governance Center, a nonprofit that provides leadership development and governance resources to tribal nations in Minnesota and the Dakotas. She currently serves on the Minnesota Zoo Board of Trustees and is the Vice Chair of the Prior Lake Indian Education Parent Advisory Committee. Crooks-Stratton previously served on the Metropolitan Council’s Equity Advisory Committee, SMSC Scholarship Selection Committee at the University of Minnesota, and on the Community Education Services Advisory Council for Prior Lake-Savage Area Schools. In 2017, she received a Native American 40 Under 40 award from the National Center for American Indian Enterprise Development. She also participated in the Young American Leaders Program at Harvard Business School. Crooks-Stratton has a master’s degree in tribal administration and governance from the University of Minnesota Duluth. Her
bachelor's degree is in American Indian studies and political science from the University of Arizona. She and her husband have three young children.

- **Margaret E. (Peggy) Lucas (completing 4th term as a Regent-nominated trustee; eligible for 5th term)** – Peggy Lucas is founder and partner at Brighton Development, a housing development company known for its small, inner-city infill projects and historic preservation. She previously served on the University's Board of Regents from the Fifth Congressional District. She is a two-time graduate of the University of Minnesota, receiving both a BA and an MSW. Lucas and her husband served for two years in the Peace Corps in Iran. She is an active community volunteer serving for 18 years on the Metropolitan Sports Facilities Commission and currently serving on the board of ArtSpace. Her previous University service includes the Humphrey School Dean's Advisory Council and the Women's Intercollegiate Athletics Advisory Council.

- **The Honorable David J. McMillan (eligible for 2nd term as a Regent-nominated trustee)** – David McMillan is a member and former Chair of the University of Minnesota Board of Regents, serving his second term from the Eighth Congressional District. McMillan is a former executive at Minnesota Power, where he served in a variety of roles from 1989 to 2018. He received a Bachelor of Arts degree in economics and history from the University of Minnesota Duluth and a law degree from the University of Minnesota. McMillan currently serves as chair of the Saint Lawrence Seaway Development Corporation Advisory Board and previously served as the board chair of the Minnesota Chamber of Commerce, the Natural Resources Research Institute, the Area Partnership for Economic Expansion, and Goodwill Industrial Vocational Enterprises. Active in his community, he is a past member of the Duluth Entertainment Convention Center's Board of Directors and the Board of Directors of St. Luke's Hospital.

**D. Installation of Siebert Statue**

The President recommends the installation of a statue of former Gopher Baseball Coach Dick Siebert at Siebert Baseball Field on the Twin Cities campus. The statue was purchased by Intercollegiate Athletics using donor funds, and with the President's permission, was temporarily installed at Siebert Field during an alumni event on September 27, 2019.

The process for installing a statue on University property is governed by Board of Regents Policy: *Campus Public Art*, which requires an Administrative policy that establishes processes regarding campus public art. No such Administrative policy exists. The Office of the Executive Vice President and Provost and University Services will create and publish such a policy in FY 2020 to fulfill this requirement.

**PRESIDENT’S RECOMMENDATION**

The President recommends approval of the Consent Report.
### October 2019 Regents Meeting

<table>
<thead>
<tr>
<th>U of M Gift Receiving</th>
<th>August 2019</th>
<th>August 2018</th>
<th>Year-to-Date 2019 07/01/19</th>
<th>Year-to-Date 2018 07/01/18</th>
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<td>$ 152,524</td>
<td>$ 41,531</td>
<td>$ 165,892</td>
<td>$ 49,407</td>
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<td>Arboretum Foundation</td>
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<td>Univ of MN Foundation</td>
<td>15,592,842</td>
<td>40,689,246</td>
<td>29,776,180</td>
<td>67,003,970</td>
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<td>Total Gift Activity</td>
<td><strong>$ 18,180,102</strong></td>
<td><strong>$ 41,431,700</strong></td>
<td><strong>$ 33,004,843</strong></td>
<td><strong>$ 68,013,186</strong></td>
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</table>

*Detail on gifts of $5,000 and over is attached.

Pledges are recorded when they are received. To avoid double reporting, any receipts which are payments on pledges are excluded from the report amount.
<table>
<thead>
<tr>
<th>Donor</th>
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Covestro
Covestro
Gift
College of Science and Engineering

Craig E and Ms Janet F Swan
Gift
Weisman Art Museum

David E Pace and Valerie Halverson Pace
Gift
University of Minnesota Extension, University of Minnesota Rochester

Donetta C Wickstrom
Gift
University of Minnesota Duluth

Doris K Pang
Gift
College of Science and Engineering

Erwin L Weber Trust
Gift
Scholarships

Evolve Additive Solutions Inc
Gift
College of Science and Engineering

Gust Family Charitable Fund-Fidelity Char
Gift
College of Science and Engineering

Harvey A and Janet G Bartz
Gift
Academic Clinical Affairs

Health 20 Advocates
Gift
Academic Clinical Affairs

Heidi Roy Hubbard
Gift
Academic Clinical Affairs

Hildegard J Virnig Estate
Gift
Medical School

Honghoa T Le
Gift
Academic Clinical Affairs

Iowa Corn Growers Assn
Gift
College of Food, Agricultural and Natural Resource Sciences

Istituto Italiano Di Cultura
Gift
College of Liberal Arts

James and Miriam Stake of Ayco Char Fdn
Gift
Minnesota Landscape Arboretum

James F and Janet M May
Gift
School of Dentistry

James R Hoppie
Gift
University of Minnesota Morris

Jay N Cohn
Gift
Medical School

John J Goldfine
Gift
University of Minnesota Duluth

John McNally
Gift
Academic Clinical Affairs

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Gift
Medical School

Karen Wyckoff Rein in Sarcoma Fdn
Gift
Medical School

Kathleen W Bryant and Jonathan K Lindfors
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Academic Clinical Affairs

Kathy T Goldstein
Gift
College of Pharmacy

Keith P Chisholm
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Kenneth A Epstein
Gift
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Kerry Ingredients and Flavours
Gift
School of Public Health

Land O'Lakes Inc
Gift
Intercollegiate Athletics, School of Public Health

Larry A Zavadil
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Intercollegiate Athletics

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Leo R Luskey
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Medical School

Leonberger Health Fdn
Gift
College of Veterinary Medicine

Louise E Fester
Gift
Academic Clinical Affairs

Mc Kinsey and Co Inc
Gift
Carlson School of Management

McHugh Char Contribution Fnd-Fidelity Char
Gift
Intercollegiate Athletics

Meola Fund-Renaissance Charitable Fdn
Gift
Intercollegiate Athletics

Metro Sales Inc
Gift
University of Minnesota Duluth

Motiva Enterprises LLC Fund-Houston Comm Fdn
Pledge
College of Science and Engineering

Narinder K Dhir Estate
Gift
College of Food, Agricultural and Natural Resource Sciences

Northeast Bank
Gift
Medical School

Optum Services Inc
Gift
Carlson School of Management

Peter H Bachman and Janet Rice Fund-Mpls Fdn
Gift
College of Liberal Arts

PJFRTB LLC
Gift
Academic Clinical Affairs

Prof David Weissbrodt and M Patricia Schaffer
Gift
Law School
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<th>Amount</th>
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<th>Type</th>
<th>Fund/Department</th>
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<td>Renata R Winsor</td>
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<td>Gift</td>
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<td>Richard J Kleber</td>
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<td>Richard L Brennan</td>
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<td>Ronald P Wolk</td>
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<td>Rosemary H and David F Good</td>
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<td>Syngenta Crop Protection LLC</td>
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<td>Terry S Coleman</td>
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<td>The Ronald D and Regina C McNeil Fdn Inc</td>
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<td>United Way of Fairmont Inc</td>
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<td>Xcel Energy Fdn</td>
<td>Gift</td>
<td>College of Veterinary Medicine</td>
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AGENDA ITEM:       Systemwide Strategic Plan: Strategic Commitments

☐ Review   ☐ Review + Action   ☐ Action   ☒ Discussion

☐ This is a report required by Board policy.

PRESENTERS:    President Joan T.A. Gabel

PURPOSE & KEY POINTS

The purpose of this item is to update and seek guidance from the Board on the next steps for the University of Minnesota Systemwide Strategic Plan. The Board will hear an update on University System Commitments and the strategic planning process, including the consultation plan.

At the September 2019 meeting, the Board discussed the earlier phases of systemwide strategic planning and an overview of the third and final phase of the planning process, including the estimated timeline and consultation plan.

BACKGROUND INFORMATION

In the fall of 2016, the University launched a strategic planning process to guide the five-campus system. The Board of Regents adopted a Systemwide Strategic Framework in June 2017 that was intended to better align institutional resources and leverage the University’s strengths as a system, including distinct campus areas of strength. This marked the end of the first phase of planning.

The second phase determined system priorities in focus areas that aligned with the University’s mission and the framework:

- Teaching & Learning
- Research & Discovery
- Outreach & Public Service
- Medicine & Health
- Supporting the Mission

The Board discussed each area in 2017-18. At the September 2018 meeting, the Board discussed systemwide strategic priorities for 2018-19 in light of the 2019 presidential transition.
Update on Systemwide Strategic Planning: Phase 3

President Joan T.A. Gabel
Board of Regents Meeting
October 11, 2019
Systemwide Strategic Plan

Phase 1:
2016-17
Led by Vice Provost Rebecca Ropers and then-Chancellor Stephen Lehmkuhle

Phase 2:
2017-18
The Board of Regents identified five areas of Systemwide Strategic Plan:
Teaching & Learning
Research & Discovery
Outreach & Public Service
Medicine & Health
Supporting the Mission

Phase 3:
Fall 2019-Spring 2020
Consultation with senior leaders, faculty, staff, and student governance bodies, and key stakeholders

Phase 3 consultations begin with senior leaders, chancellors, faculty, staff, and student leadership

Board of Regents
Discussed Systemwide Strategic Priorities for 2018-19

Crookston campus consultation: Nov 6-7

President provides update to the Board of Regents, including ongoing consultations and feedback

Campus consultations: Oct 1-2: Duluth
Oct 24: Rochester

President presents strategic commitment to the Board of Regents in December

President charges each campus to develop plans that align with system strategic commitments

President provides the Board of Regents updates in February and March

Board of Regents Retreat: Campuses present plans that align with system strategic commitments

President provides the Board of Regents updates in March
Our Commitments

Student Success
- Meeting all students where they are and maximizing their skills, potential, and well-being in a rapidly changing world.

Discovery, Innovation, & Impact
- Channeling curiosity and investing in discovery to cultivate possibility, innovate solutions, and elevate Minnesota and society as a whole.

MNtersections (Health, Food, & Environment)
- Improving the health of people and places at the intersection of our system strengths and opportunities inspired by Minnesota and impact the world.

Community & Belonging
- Fostering a welcoming community that values belonging, equity, diversity, and dignity in people and ideas.

Fiscal Stewardship
- Stewarding resources that promote access, efficiency, transparency, and collaboration through meaningful partnerships with the state, students, families, and partners.
Systemness

- Crookston
- Duluth
- Morris
- Rochester
- Twin Cities

Student Success
Discovery, Innovation & Impact
MNtersections
Community & Belonging
Fiscal Stewardship
PACT 2025

IS/WILL BE

• Specific & Measurable
• Clear w/distinct goals and action items
• A guidepost for what kind of institution we want to be

ISN’T

• Detailed playbook that provides an answer to every potential decision
Consultation
Questions?
AGENDA ITEM: Research Strategy: Incentivizing Research Across the System

☐ Review  ☐ Review + Action  ☐ Action  ☒ Discussion

☐ This is a report required by Board policy.

PRESENTERS: Christopher J. Cramer, Vice President for Research

PURPOSE & KEY POINTS

The purpose of this item is to provide the Board with an in depth overview and discussion opportunity related to research strategy at the University, and the role played by incentivization. This presentation is the first of three responding to the Board’s 2019-20 priority “Develop strategies to grow the University’s impact as a top 10 research institution while further incentivizing and promoting the impact of research that addresses the challenges and opportunities facing Minnesota.”

This item is intended to engage the Board in a conversation about the future of the University's research enterprise, exploring possible research goals that are ambitious, measurable, and developed with the particular needs of the state of Minnesota in mind. Those goals should be fully consistent with the tightly coupled natures of the research, teaching, and public service missions of the institution, so that they also enhance the student experience and benefit the community at large, whether through direct engagement or economic development.

The October discussion will cover these broad areas:

- Incentivizing basic research is fundamentally important

  Research universities are where new ideas are born. Ideas so new that they are impossible to foresee and thus, paradoxically, difficult to target. The best strategy for making fundamentally new discoveries is to provide a fertile environment where individuals and groups of researchers can exercise their creativity and explore their ideas armed with all the resources they need, either to succeed ... or to fail quickly (because failure is an inevitable part of research, and indeed the part that most effectively teaches how to proceed to success). The University recognizes the importance of seed funding and investment in infrastructure resources to foster basic research, and has a variety of mechanisms to make these available systemwide, as described next.
• Diverse financial incentives/resources are deployed at system, campus, and unit levels.

The University of Minnesota oversees a number of programs and initiatives designed to support and nurture a diverse research portfolio with investments aimed at both growth and innovation. These programs provide a broad range of resource opportunities designed to meet the needs of a diverse population of researchers. From smaller awards provided to jump-start new ideas to very large awards designed to incentivize collaborations across disciplines that address strategic needs — the latter usually inspired by Minnesota, but also typically having global impact — these awards seed research that has the potential to attract sustaining external support. Additional programs exist to leverage external support for which internal matching funds are required, to acquire critical infrastructure having the potential to accelerate the progress of multiple researchers, and to help translate the products of basic research closer to the marketplace when such translation has the potential to accelerate the transfer of knowledge for the public good. In addition to resources at the system level, individual campuses and colleges, and various specialized centers (e.g., the Clinical and Translational Science Institute), may also deploy resources in an analogous fashion to foster innovation within their more limited scopes.

• Critical infrastructure supports the research ecosystem.

A state-of-the-art research infrastructure helps attract top talent to the University and provides an incentive for faculty, staff and students to exploit that infrastructure in order to pursue research questions at the cutting edge of knowledge. To support groups across the system, the University invests in state-of-the-art core facilities (e.g., high-performance computing, genomics, flow cytometry, and research animal care), a robust pre- and post-award operation for the administration and oversight of sponsored projects, and necessary compliance functions to ensure the integrity of the research endeavor. The University’s research infrastructure is vast, spanning not only five campuses but including 10 research and outreach centers and other specialized facilities (e.g., the Hormel Institute and the Cedar Creek Ecosystem Science Reserve) statewide. In addition to providing routine research services, which can generate revenue through an external sales model, most of the University of Minnesota’s strong core facilities include researchers dedicated to innovation within the context of the facilities themselves, i.e., advancing the underlying science and technologies to deliver new levels and categories of services to their customer researchers.

• Transdisciplinary units convene and catalyze research across the system.

Through support to transdisciplinary units (often called centers or institutes) the University incentivizes focused research across the disciplines, marshaling internal resources to deliver a whole that is greater than the sum of its parts in a given area. Such units regularly form as it becomes apparent that emerging fields will benefit from the managed approach that a center/institute can provide, and they also sometimes dissolve when their topic of original focus either fails to grow as a research priority, or it becomes sufficiently “routine” that it is simply absorbed into a discipline broadly, and no longer needs center-like oversight. Many centers and institutes at the University of Minnesota specifically address critical needs of the State and society, bringing together policy makers, technologists, physical and social scientists, design thinkers, and/or artists to tackle grand challenge problems. In such instances, governance and advisory bodies ensure that key stakeholders are able to help guide the research, as well as profit from its discoveries.
• MnDrive at 5: A focused research partnership with the State has been enormously successful.

Minnesota’s Discovery, Research, and InnoVation Economy (MnDRIVE) was initiated as a partnership between the University of Minnesota and the State of Minnesota. The program continues to incentivize University researchers to build on existing University strengths with an eye to Minnesota’s key and emerging industries and its economy. Thus, in 2013 the State of Minnesota authorized an $18 million recurring annual investment in four research areas: Robotics, Sensors, and Advanced Manufacturing; Global Food Ventures; Advancing Industry Conserving Our Environment; and Discoveries and Treatments for Brain Conditions. Subsequently, in 2017, the state appropriated an additional $4 million per year for a fifth research area, statewide Cancer Clinical Trials.

MnDRIVE began as and continues to be a unique, collaborative research model engaging transdisciplinary teams of researchers across the University to address the MnDRIVE topic areas in partnership with industry and other community stakeholders. To maximize relevance and impact, each of the MnDRIVE areas has committees and advisory boards that provide guidance on research objectives. The Office of the Vice President for Research (OVPR) tracks accountability measures for the initiative and helps communicate the success of the program at the state capitol. Success metrics are tracked across all 5 research areas to assess impact on education, industry relationships, economic development, and quality of life for Minnesotans. Some select MnDRIVE successes after its first five years include:

- 1,200 researchers engaged
- 400+ individual projects launched
- 150 departments and three campuses involved
- 750 personnel hired (UMN faculty, staff, & students)
- $360 Million in leveraged external funding (from $97 Million state funding)
- 303 invention disclosures by MnDRIVE researchers
- 35,000+ members of the public engaged through outreach efforts

• Research is teaching!

A key goal of the University is to incentivize students to participate in research opportunities that are broadly available to them. As Minnesota’s only major research university, the University prepares students to be the innovators of tomorrow by training them in the practices of research and discovery. And the training is doing: it is the students themselves who create new knowledge from their work, present their findings to national and international audiences, and contribute to the scholarly record in profound and meaningful ways. Major programs supporting student research experiences include:

- Undergraduate Research Opportunities Program (UROP)
- Research Experience for Undergraduates (REU)
- Interdisciplinary Doctoral Fellowships (Graduate School)
- Undergraduate major requirements
- Grand Challenges initiatives of the Twin Cities campus

All were designed to tightly couple curricular offerings with ongoing research in order quickly to translate results from the field/lab/clinic to the classroom, thereby equipping students with the knowledge and expertise most in demand in the marketplace.
Strategic Directions for the Next Five Years – An Opening Discussion

To continue to attract the best researchers as teacher-scholars to the University, it is critical that the University maintain, and better still advance, its national ranking in terms of research awards and expenditures. Over the last 10 years, the University has seen an average growth in sponsored funding of 3.5% per year, suggesting that a goal of 5% is ambitious and that a stretch goal of 7% may be achievable with optimal leverage of certain key resources, e.g., the new University of Minnesota/Fairview Health Services joint enterprise.

In addition to growing sponsored awards overall, it is critical that the University grow the portion of awards that come from industry. Working with industrial partners offers unique opportunities for possible technology commercialization, professional development for participating students, and in many instances advances the interests of companies having significant activity in the state of Minnesota.

One way to accelerate progress towards the above goals is to facilitate researchers’ ability to target “big” awards. Such awards are often multi-institutional, involve strategic industrial or national laboratory partners, and carry with them not only substantial funding but also significant reputational capital. The recently constituted Strategic Partnerships and Research Collaborative (SPARC) in OVPR is designed to offer the relevant facilitation and other means to grow the portfolio of such awards merit implementation.

With respect to research grand challenges, Minnesota itself presents many opportunities for researchers to work locally and have impact globally. Many of these challenges can be most effectively addressed by harnessing research capabilities across the University of Minnesota system as a whole. Of particular note – and offering particular opportunity to collaborate with key industrial and/or governmental partners – are topics associated with environmental stewardship, evolution of medical devices and care strategies, and sustainable food and agricultural practices. Developing appropriate metrics and seeking to grow the “systemness” of research effort 50% in the next 5 years is a worthwhile goal around which to rally.

Technology commercialization is one key mechanism used by the University to accelerate the transfer of knowledge for the public good, and thus growing outputs associated with technology transfer is an important strategic direction. However, as a recent external review (spring 2019) emphasized, “…investments made by the UMN are long term investments, that any return on investment is a bonus, that licensing revenues cannot be expected to occur annually or at all, are often derived from single commercialized patents, and that the work of [Tech Comm] must be considered as ‘impact over revenue’, to include the impact of startups, jobs, economic development and other measures”, so it will be important to select a set of output metrics that do not inappropriately incentivize behavior that is in fact counterproductive (e.g., a focus on growing the number of patent applications per year might prompt reduced critical judgment on the likelihood of positive returns on investment associated with specific inventions). Once appropriate measures are adopted, however, achieving 40% growth in 5 years seems a solid target for which to shoot.

Finally, the University should never forget that offering opportunities for undergraduate students to engage in this institution’s cutting-edge research enterprise is what makes the University of Minnesota so special in the state’s higher educational spectrum. The University already provides many ways in which undergraduates can pursue a research experience, but in only some programs is it a requirement that they do so in order to graduate (one notable example in this latter category

* Boldface from original Tech Comm external review report.
being the Rochester campus). It seems appropriate to discuss whether such a requirement is indeed appropriate systemwide, how a research experience should be precisely defined, and what resources would be needed to make such experiences meaningful within each major and program's specific context.

As systemwide strategic planning progresses, it is anticipated that input from the Board on these possible strategic directions will help to align with institutional priorities, noting that further consultation will also continue across the system to ensure seamless integration in the final plan.
MnDRIVE (Minnesota's Discovery, Research, and Innovation Economy) is a unique, collaborative research partnership between the University of Minnesota and the State of Minnesota that aligns areas of research strength with the state’s key and emerging industries, as well as some of its most important challenges.

In 2013, a little more than five years ago, the State of Minnesota began an annual investment in the following interdisciplinary research areas:

- Robotics, Sensors, and Advanced Manufacturing
- Global Food Ventures
- Advancing Industry, Conserving our Environment
- Discoveries and Treatments for Brain Conditions
- Minnesota Cancer Clinical Trials Network*

*A launched in 2018.

<table>
<thead>
<tr>
<th><strong>$22M</strong></th>
<th>MN Legislature’s annual investment joining UMN research with key and emerging state industries</th>
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<tr>
<td><strong>1,200</strong></td>
<td>UMN researchers involved with MnDRIVE projects</td>
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<tr>
<td><strong>150</strong></td>
<td>UMN departments across three campuses</td>
</tr>
<tr>
<td><strong>750</strong></td>
<td>UMN faculty, students, and staff hired</td>
</tr>
<tr>
<td><strong>$360M</strong></td>
<td>External funding leveraged by MnDRIVE supported researchers</td>
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A recent survey of MnDRIVE-supported researchers reported a willingness to take risks for greater societal impacts (versus following more traditional funding paths), increased connections with the public and industry, and a greater sense of belonging and pride in Minnesota.

Partnering with industry to discover solutions to our greatest challenges.

mndrive.umn.edu

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<table>
<thead>
<tr>
<th>MnDRIVE</th>
<th>Robotics, Sensors, and Advanced Manufacturing</th>
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<tbody>
<tr>
<td><strong>10,000</strong></td>
<td>Children reached by outreach programs</td>
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<tr>
<td><strong>40</strong></td>
<td>Degrees/yr. expected, new Robotics Institute</td>
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<td><strong>5TH</strong></td>
<td>UMTC national rank, robotics research</td>
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<tr>
<td><strong>$10M</strong></td>
<td>Private funds for new Gemini-Huntley Robotics Lab leveraged from $2M MnDRIVE investment</td>
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<tr>
<td><strong>Talking Robots Detect Early Signs of Autism</strong></td>
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<tr>
<td>Professor Maria Gini’s team is using talking robots to collect data on how children interact with their surroundings and to help diagnose autism in children 2 to 4 years old. Earlier detection increases the opportunities health professionals have to step in and begin treatment when children’s brains still have plasticity and are more responsive.</td>
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<tr>
<th>MnDRIVE</th>
<th>Global Food Ventures</th>
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<tr>
<td><strong>41</strong></td>
<td>Global food graduate students supported</td>
</tr>
<tr>
<td><strong>18</strong></td>
<td>Universities in oat research consortium led by UMN</td>
</tr>
<tr>
<td><strong>5</strong></td>
<td>Deep winter greenhouse pilot sites in Greater MN</td>
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<tr>
<td><strong>Food Safety Research Leads to New Clean Water Tech</strong></td>
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<tr>
<td>Claros Technologies, a UMN startup company, is a water filtration system that safely removes toxins, such as mercury and phosphorus, from our lakes, rivers, and waste streams. According to a 2014 report, 44 percent of Minnesota’s waters are impaired. The technology stems from an earlier invention to rapidly detect contamination in food.</td>
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<tr>
<th>MnDRIVE</th>
<th>Advancing Industry, Conserving our Environment</th>
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<tbody>
<tr>
<td><strong>$60B</strong></td>
<td>Global market, anti-biocorrosion coatings</td>
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<tr>
<td><strong>11</strong></td>
<td>Inventions disclosed, FY2019</td>
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<tr>
<td><strong>$1.74M</strong></td>
<td>Invested in 6 field-scale bioremediation demonstration projects</td>
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<tr>
<td><strong>New Solutions for Biocorrosion</strong></td>
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<tr>
<td>Duluth’s shipping industry is vital to Minnesota, but its port infrastructure is at risk from biocorrosion. UMTC &amp; UMD researchers have identified an anti-biocorrosion enzyme as an alternative to widely used toxic copper oxide paints. Field scale testing has been promising, and researchers are currently exploring commercialization opportunities in partnership with Ecolab.</td>
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<tr>
<th>MnDRIVE</th>
<th>Discoveries and Treatments for Brain Conditions</th>
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<tr>
<td><strong>62</strong></td>
<td>Neuromodulation fellows trained</td>
</tr>
<tr>
<td><strong>9</strong></td>
<td>Inventions disclosed, FY2019</td>
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<tr>
<td><strong>3</strong></td>
<td>Core facilities for neuromodulation research created</td>
</tr>
<tr>
<td><strong>1</strong></td>
<td>Major NIH center brought to UMN</td>
</tr>
<tr>
<td><strong>National Leader in Parkinson’s Research</strong></td>
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<td>In 2017, the University of Minnesota was designated a Udall Center of Excellence for Parkinson’s Disease Research by NIH (one of eight) to advance clinical, multidisciplinary, translational, and basic research into Parkinson’s. Udall Center researchers are leading the development of new treatments for the disease using deep brain stimulation (DBS).</td>
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<tr>
<th>MnDRIVE</th>
<th>Minnesota Cancer Clinical Trials Network</th>
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<tr>
<td><strong>15</strong></td>
<td>New locations open for enrollment across MN</td>
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<tr>
<td><strong>227</strong></td>
<td>Minnesotans enrolled in cancer clinical trials</td>
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<tr>
<td><strong>3</strong></td>
<td>Trials enrolling, with 5 in the pipeline</td>
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<tr>
<td><strong>3</strong></td>
<td>Additional sites enrolling soon</td>
</tr>
<tr>
<td><strong>Expanding Access to Cancer Clinical Trials (est. 2018)</strong></td>
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<tr>
<td>Cancer is the leading cause of death in Minnesota, where nearly half of all people will be diagnosed with some type of cancer in their lifetimes. The MN Cancer Clinical Trials Network removes barriers for clinics that have not had the resources to establish the infrastructure to conduct clinical trials, allowing providers in the metro area and Greater Minnesota to offer clinical research opportunities to their patients.</td>
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Without blue sky [basic] research, you only invent what you already know, and the big gains come from the revolutions.

--Brian Schmidt
Astrophysicist & Vice Chancellor,
Australian National University
• **Research Advancement (OVPR)**
  • Grant-in-Aid
  • Minnesota Futures
  • Research Infrastructure
  • Matching Funds
  • U of M Informatics Institute
  • FREF funds
• Research Advancement (OVPR)
  • Grant-in-Aid
  • Minnesota Futures
  • Research Infrastructure
  • Matching Funds
  • U of M Informatics Institute
  • FREF funds

• Health sciences (OACA, incl. CTSI and Masonic Cancer Center)
  • Minnesota Partnership for Biotechnology and Medical Genomics (joint with Mayo)
  • Faculty Research Development Grant Program

• Child Health Collaborative Grant Award
• Translational Product Development Fund
• Translational Grant Program
• Minnesota Cancer Centers Partnership Award
- Research Advancement (OVPR)
  - Grant-in-Aid
  - Minnesota Futures
  - Research Infrastructure
  - Matching Funds
  - U of M Informatics Institute
  - FREF funds

- Health sciences (OACA, CTSI, and Masonic Cancer Center)
  - Minnesota Partnership for Biotechnology and Medical Genomics (joint with Mayo)
  - Faculty Research Development

- Grant Program
  - Child Health Collaborative Grant Award
  - Translational Product Development Fund
  - Translational Grant Program
  - Minnesota Cancer Centers Partnership Award

- Executive VP and Provost
  - Grand Challenges
  - Multicultural Research Awards
RESEARCH INFRASTRUCTURE

- Core facilities
  - Center for Mass Spectrometry and Proteomics
  - Center for Magnetic Resonance Research
  - Characterization Facility
  - Flow Cytometry Facility
  - MN Nano Center
  - University Imaging Center
  - UMN Genomics Center
  - Research Animal Resources
  - Research Computing

- Compliance Support
  - Human Research Protection Program/Institutional Review Board
  - Institutional Animal Care and Use Committee
  - Office of Biotechnology Activities Oversight
  - Research Compliance Office

- Ten Research & Outreach Centers
TRANSDISCIPLINARY CENTERS

- Center for Animal Health and Food Safety
- Center for Drug Design
- Center for Infectious Disease Research and Policy (CIDRAP)
- Center for Small Towns
- Center for Transportation Studies
• Center for Urban and Regional Affairs
• Clinical and Translational Science Institute
• Consortium on Law and Values in Health, Environment & the Life Sciences
• Hormel Institute
• Institute for Advanced Study
• Institute for Social Research and Data Innovation
TRANSDISCIPLINARY CENTERS

• Institute of Child Development
• Institute on the Environment
• Large Lakes Observatory
• Masonic Cancer Center
• Minnesota Aquatic Invasive Species Research Center
• Natural Resources Research Institute (NRRI)
• Minnesota Sea Grant
• St. Anthony Falls Laboratory
$22M annual state investment
1,200 researchers
400+ projects
150 departments, three campuses
750 hired (UMN faculty, staff & students)
$360 Million external funding leveraged ($97 Million state funding)
303 invention disclosures by MnDRIVE researchers
35,000+ members of the public engaged through outreach (Robotics & Brain)
• Undergraduate Research Opportunities Program (UROP)

• Research Experience for Undergraduates

• Interdisciplinary Doctoral Fellowship (Graduate School)

• Undergraduate major requirements

• Grand Challenges courses
Gemini-Huntley Robotics Lab: $2M MnDRIVE investment leveraged by $10M in private donations to create new, 20,000-square-foot state-of-the-art lab
• Grow sponsored awards 5% per year (stretch 7%)
• Grow industrial research awards 6% per year
  Incentivize targeting of “big” awards, especially with industry/national lab partners
• Grow “systemness” of research expenditures by 50%*
  Incentivize key Minnesota targets, especially Environment, Medical Technology/Care, and Food/Agriculture
• Grow impact of technology commercialization by 40%*
• Engage every undergraduate in a research experience

* best metrics to be determined
DATA SOURCES

PHOTOS
University of Minnesota
iStock
MnDOT (Snowplow)
Chris Cramer

VIDEO
Australian Broadcasting Corporation
AGENDA ITEM: Report of the Committees

☐ Review  ☐ Review + Action  ☐ Action  X Discussion

This is a report required by Board policy.

PRESENTERS: Regent Kendall J. Powell

PURPOSE & KEY POINTS

Pursuant to Board of Regents Policy: Board Operations and Agenda Guidelines, “The Board conducts business through meetings of the Board and its committees.... [and] Committees provide recommendations for action by the Board. Typically, standing committees have the following responsibilities:

- Recommend action on matters where the Board has reserved authority to itself as outlined in Board of Regents Policy: Reservation and Delegation of Authority and other Board policies;
- Provide governance oversight on topics within the committee's purview;
- Review and make recommendations on relevant new and existing Board policies;
- Receive reports on policy-related issues affecting University departments and units;
- Receive information items (e.g., status reports on current issues of concern and administrative searches); and
- Review other items placed on the agenda by the Board chair in consultation with the president and Board vice chair.”

BACKGROUND INFORMATION

Current committee chairs:

- Audit & Compliance Committee – D. Rosha
- Finance & Operations Committee – D. McMillan
- Governance & Policy Committee – J. Mayeron
- Litigation Review Committee – R. Beeson
- Mission Fulfillment Committee – T. Anderson