



NEWS AND NOTES

ISSUE 7 SPRING 2015

MARTEL PROFESSORSHIP INSTALLATION HELD



Department Chair N. Reed Dunnick, MD, Jonathan Rubin, MD, PhD, Kyung Cho, MD. Dr. Rubin was installed as the William Martel Professor of Radiology on April 30, 2015. Dr. Cho previously held the Professorship.

On April 30, 2015, Jonathan M. Rubin, MD, PhD was installed as the William Martel Collegiate Professor of Radiology.

Dr. Rubin received his medical degree from the University of Chicago in 1974, where he also completed an internship, residency and a PhD in biophysics and theoretical biology. Dr. Rubin served as an assistant professor at the University Chicago before joining the faculty of the University of Michigan in 1984 as an associate professor in the Department of Radiology. He was promoted to professor in 1989.

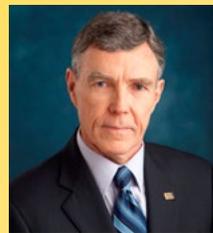
Dr. Rubin's research focuses on ultrasound, specifically elasticity imaging of both quasi-static and shear wave velocity imaging. He was a leading investigator defining the application of power Doppler sonography. He was also a leader in the application of ultrasound speckle tracking of the lung surface.

Dr. Rubin has a long history of external research funding and has received numerous awards. Most recently, he delivered the New Horizons Lecture at the 2014 annual meeting of the Radiological Society of North America. He has published more than 200 peer-reviewed papers and holds 10 patents. Dr. Rubin is an associate editor for *Ultrasound in Medicine and Biology* and an associate editor for the *Journal of Ultrasound in Medicine*.

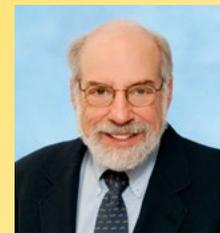
The professorship is named after Dr. William Martel, who joined the faculty in 1957 and led the department to a position of national prominence.

ENDOWED PROFESSORSHIPS

Holding an endowed professorship is one of the highest honors an academic faculty can attain. The Department of Radiology is proud to have 9 endowed professorships, with more on the way.



N. Reed Dunnick, MD
Hodges Professor



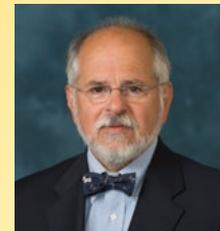
Jonathan Rubin, MD, PhD
Martel Professor



Heang-Ping Chan, PhD
Carson Professor



Brian Ross, PhD
Berg Professor



Mike DiPietro, MD
Holt Professor



Kirk Frey, MD, PhD
Kubl Professor



Isaac Francis, MD
Korobkin Professor



Hero Hussain, MD
Adusumilli Professor



Tom Chenevert, PhD
Basic Radiological Sciences Professor

To learn more about Professorships in the Department of Radiology, please contact Laura Boudette at 734.272.8753 or lauraabo@med.umich.edu

LETTER FROM THE CHAIR

Dear Michigan Radiology Alumni, Friends, and Family:



The pace of change is quickening, and 2014 was no exception. University of Michigan President Mark Schlissel took office, a new Executive Vice President for Medical Affairs (EVPMA), Marschall Runge, was announced and Jim Harbaugh was recruited as head football coach. In medicine, we are working hard to reduce costs at the same time we improve quality.

Nationally, the health care system is experiencing consolidation, as medical centers try to operate more efficiently and achieve economies of scale. The University of Michigan Health System has formal arrangements with medical centers in our state, and discussions with other health systems are on-going in this fluid environment.

Within the medical center, our physician led ambulatory care centers have been very successful, and we opened a new center in Northville this year. This helps bring University of Michigan health care closer to our patients, who also appreciate the surface parking and the shorter walks to the clinics and our imaging facilities. In the hospital, the Regents approved a \$10 million project to add two more MR scanners on B2 which required the relocation of facilities personnel currently occupying that space.

Improvements in travel and especially the continued migration to electronic communication have increased the importance of the medical school's Global Outreach programs. The Department of Radiology is actively participating in several of them. In Africa, Janet Bailey and other faculty and residents from our department helped radiologists in Addis Ababa, Ethiopia establish a radiology residency, and the first class is nearing completion of their first year. Faculty and residents who have visited the hospital in Addis Ababa describe their first year residents

as enthusiastic and knowledgeable, but short on practical experience. (See separate article in this Newsletter.) We have also been actively engaged with our radiology colleagues at the Peking Union Medical College (PUMC) and have had several exchange visits, with another planned for the fall of 2015. Qian Dong, who was raised and trained in China, has been especially helpful. Sending medical students from PUMC to rotate in our department is an especially popular aspect of the program.

The new schedule for examinations offered by the American Board of Radiology allows residents to take their Core Examination at the end of their third year and their Certifying Examination 15 months after completing their residency. This has enabled residents to begin to focus their training in their expected areas of practice in their 4th year of residency. The primary residency in Interventional Radiology will allow medical students to complete a clinical year, spend three years in diagnostic radiology and complete their training with two years of interventional radiology. Led by Wael Saad and Minhaj Khaja, the University of Michigan will have one of the first of these recently approved programs. (See related article in this Newsletter.)

Michigan leadership in our professional societies remains strong with Michigan faculty serving on the boards of directors of most major organizations. Janet Bailey serves as President of the Association of Program Directors in Radiology and I completed my term as President of the Radiological Society of North America in December. Peter Strouse is Editor-in-Chief of the journal Pediatric Radiology, Ruth Carlos is the Deputy Editor of the Journal of the American College of Radiology and Mitch Goodsitt serves as Editor of Medical Physics.

GO BLUE!!!

Regards,

W. Reed Jennrich, MD

THE NEW UNIVERSITY OF MICHIGAN NORTHVILLE HEALTH CENTER

In July 2014, the University of Michigan Northville Health Center (NHC) opened its doors to the public bringing primary care, subspecialty medicine and imaging to the I-275 corridor, 25 miles northeast of Ann Arbor. Located at the southwest corner of W. Seven Mile and Haggerty roads, the NHC is a two-story building with approximately 100,000 square feet of space, housing more than 100 physicians and 225 employees. It is open six days per week.

The radiology area has one 1.5 T Philips MR scanner, two ultrasound suites, two general radiology rooms, and one combined fluoroscopy/general radiology suite. Adjacent to the imaging rooms is a reading room consisting of several workstations, where a musculoskeletal radiologist works each day. The presence of a musculoskeletal radiologist is needed given that the NHC is the first physical site of the University of Michigan Comprehensive Musculoskeletal Center (CMC). Within the CMC, orthopaedic surgeons, sports medicine physicians, rheumatologists, physiatrists, anesthesiologists, orthotics specialists, and physical and occupational therapists work side-by-side to provide efficient and seamless patient care, immediately adjacent to radiology. The NHC also has a large state-of-the art physical therapy area so that patients can receive treatment at this site. The on-site musculoskeletal radiologist interprets musculoskeletal ultrasound, MRI and radiographic imaging studies. In addition, MR arthrography, ultrasound, fluoroscopic-guided joint and bursal injections, and novel tendon treatments (fenestration, calcific lavage) are performed.

The NHC is also home to various primary care physicians (general medicine, pediatrics, geriatrics). Adult specialty clinics include allergy, breast care, cardiology, endocrinology, gastroenterology, hematology/oncology, hepatology, nephrology, neurology, obstetrics and gynecology, pulmonary, and social work. Children's and women's subspecialty clinics are similar to the adult clinics, with the addition of pediatric surgery and rheumatology. A medical procedures unit (colonoscopy, endoscopy, spine procedures) and infusion area are also present at NHC.

The number and diversity of physicians working at NHC continues to grow as this site develops, bringing high quality and convenient health care to patients who live east of Ann Arbor.



Jon A. Jacobson, MD
Professor of Radiology
Assistant Medical Director,
Northville Health Center

UPCOMING EVENTS

MONDAY

JULY 13, 6:30 P.M.

Dr. Charles and Susan Mueller are graciously hosting a U-M Radiology dinner at their home in Charlevoix, MI. Area and seasonal Alumni, please join us for a casual barbeque and dinner discussion featuring Dr. Matt Davenport, who will share news about U-M's groundbreaking work in prostate cancer diagnosis and contrast research. Significant others are welcome. Please RSVP to Laura Boudette at 734.736.1404 or lauraabo@med.umich.edu.

FRIDAY

SEPTEMBER 18, 6 P.M.

Dr. James Thrall is graciously hosting a casual reception at Wolverine State Brewing Co. located at 2019 W Stadium Blvd, Ann Arbor, MI 48103. Faculty, residents, fellows, alumni and their significant others are welcome. RSVP to Carly below.



SATURDAY

SEPTEMBER 26, TIME TBD

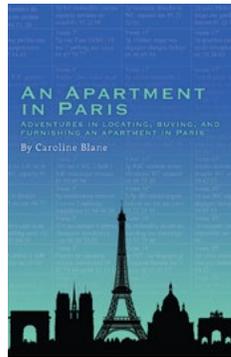
The Department of Radiology is hosting a tailgate before the U-M football game vs. Brigham Young. Join us for pre-game festivities at the North End Zone, at the corner of Main and Pauline. Food and beverages will be provided; children are welcome. RSVP to Carly below by June 1 and indicate if you are interested in game tickets; we are working to secure seats.

For more information or to RSVP, contact Carly Brandreth at cbrandre@med.umich.edu or 734.936.4346.



ALUMNI NOTES

“I have published my first book, *An Apartment in Paris*. While conducting research projects on sabbatical in Paris with our then-5-year-old son, my husband and I managed to locate, buy and furnish a tiny pied-à-terre in the City of Lights. This true story has all the ups and downs that so often make real life much more entertaining than fiction. The book is available at Amazon and Nicola’s Books in Ann Arbor.”



Professor Emeritus Caroline Blane, MD, Faculty 1980-2012

“I keep myself very entertained working full-time at a very busy radiology practice, focusing mainly on breast and body imaging and intervention. I am the medical director of a very successful breast center, which I am very proud of! Our radiology services have increased tremendously during the last few years due to a very large new emergency center built at our hospital. This year, we are hiring two new radiologists. My oldest daughter is in college majoring in motion design, and my two other kids, ages 13 and 16, would like to become doctors!”

Claudia Bundschu, MD, Resident Class of 2001



Mural at the University of Arizona

“Outside of golf twice a week and a men’s book club, I have been active in the University of Arizona’s Galileo Circle, a science

scholarship support group. Last September, I was able to go with 24 others on a trip to Switzerland and France, primarily to visit CERN in Geneva. I have also been asked to be on the advisory board for the university’s Lunar and Planetary Laboratory, which is the primary oversight and development group for the NASA asteroid mission OSIRIS-REx that will launch in 2016.”

Norm Komar, MD, 1961, Resident Class of 1967

“I am currently involved in initiatives to develop high-resolution, 3D CT technology as an important tool in the non-invasive investigation of ancient art and artifacts. Sadly, I still have to hold down a daytime job, where the CT scans I report on are not nearly as aesthetically pleasing.”

Barry Daly, MD, Visiting Faculty 1992

THE NEW INTERVENTIONAL RADIOLOGY (IR) RESIDENCY

The training required to become an interventional radiologist is changing. The IR radiologist performs complex procedures such as transjugular intrahepatic portosystemic shunts (TIPS) for portal hypertension, venous reconstructions, management of complex aortic dissection and aneurysm, treatment of liver cancer, and many other essentially surgical procedures. He or she must be prepared to perform complex procedures, manage patients in a critical care setting and direct their follow-up care.

The American Board of Medical Specialties (ABMS) and the Accreditation Council for Graduate Medical Education (ACGME) have approved a new IR residency. Graduates of the IR residency will be board-certified in both diagnostic and interventional radiology. Residents in IR will train alongside diagnostic radiology (DR) residents for their first three years and in IR for the last two years. The vascular and interventional fellowship will be gradually discontinued. IR residents will also train in non-radiology specialties including vascular surgery, cardiology, hepatology and critical care medicine.

At U-M, we will lead the way by creating an outstanding and innovative training program in IR. The DR and IR residency programs at Michigan will partner in training future leaders in both specialties. DR residents will receive improved training in IR to enable them to practice high-quality radiology and perform image-guided procedures traditionally associated with DR. The IR residents will be well-prepared for the image interpretation skills expected of interventional radiologists in both private and academic practice, in addition to receiving enhanced clinical and procedural training in this new paradigm.

The next few years will be exciting and interesting! We have the opportunity to create a new program that can set the standard for IR training now and into the future. Stay tuned!

Please send updates to Carly Brandreth at cbrandre@med.umich.edu or call 734.936.4346.

DEPARTMENT OF RADIOLOGY EMERGING AS A REGIONAL LEADER IN PROSTATE CANCER DIAGNOSIS AND CARE

The historical paradigm of prostate cancer screening and diagnosis has been called into question recently, with prostate-specific antigen (PSA) testing and digital rectal exams (DRE) proving to be suboptimal tests for the detection and risk stratification of patients at risk for prostate cancer.

Evidence is emerging to show the following: many prostate cancers are not associated with an abnormal PSA or DRE; many prostate cancers detected by random biopsy are clinically insignificant; overtreatment of prostate cancer leads to unnecessary complications; and clinically significant prostate cancers are easily missed by blind sextant biopsy.

Innovations in multi-parametric prostate MRI used extensively by experts at the University of Michigan — including anatomic, perfusion and diffusion-weighted imaging — have led to a markedly improved ability to detect higher-risk (high-volume, Gleason 7+) clinically significant prostate cancer, while minimizing detection of lower-risk (low-volume, Gleason ≤ 6) clinically insignificant prostate cancer.

Simultaneous technical advancements in fusion biopsy technology now permit our team to create 3D virtual wire-mesh models of the prostate gland that can be used to perform targeted, in-office MR-ultrasound fusion biopsies of MRI-identifiable cancer. Suspicious masses identified with multi-parametric MRI can now be directly sampled, maximizing the detection of high-risk disease. Currently, the University of Michigan is the only center in the state with this capability. Demand is growing exponentially as patients across Michigan learn of this opportunity.

Our radiologists have formed strong relationships with the Departments of Urology and Pathology, and innovative research

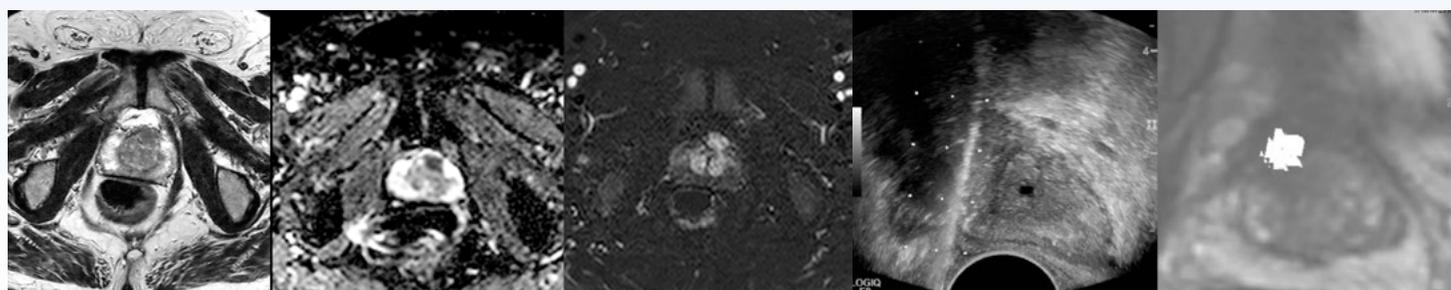
is now underway to better understand the complementary role of urinary, serum and imaging biomarkers in the diagnosis and risk stratification of prostate cancer. Targeted radiotracers — including radiolabeled choline and prostate-specific membrane antigen (PSMA) — are under study in combination with multi-parametric MRI (i.e., PET-MRI) by U-M nuclear medicine and abdominal imaging experts as a way to further optimize the detection of clinically significant prostate cancer.



Matt Davenport, MD
Assistant Professor of Radiology and Assistant Professor of Urology

Our radiology team has left the reading room and is now working actively with the Michigan Urological Surgery Improvement Collaborative (MUSIC) to educate urologists about advanced imaging techniques, to improve statewide reporting of prostate MRI examinations, and to optimize imaging-related data collection. The goal of this effort is to study and optimize the effect of imaging on patient-centered outcomes. In collaboration with the Department of Urology, we will be hosting a regional course on MR-ultrasound fusion biopsy techniques in summer 2015, so that we can bring this important technology to other centers of excellence in the state and beyond. We view these and other cross-disciplinary collaborative efforts as critical to our success.

We are pleased to say that the future is bright and promises optimized prostate cancer detection, fewer unnecessary biopsies, fewer unnecessary complications, less unnecessary treatment, and superior prostate cancer outcomes.



FACULTY AWARDS + RECOGNITION

Janet Bailey, MD, received the American Medical Women's Association Gender Equity Award from the University of Michigan medical students

Nicolaas Bohnen, MD, PhD, was inducted into the League of Research Excellence and received a NIH P50 Grant

Richard Brown, MD, had an article featured on the cover of the May issue of RadioGraphics and received the Dean's Outstanding Clinician Award

Ruth Carlos, MD, was appointed editor for the JACR December 2014 Quality Improvement Issue

Heang-Ping Chan, PhD, was inducted into the League of Research Excellence

Neeraj Chaudhary, MBBS, was pictured in the M-Line article about treating children with transcatheter therapies

Tom Chenevert, PhD, received a Distinguished Investigator Award from the Academy of Radiology Research

Matt Davenport, MD, received the Editor's Recognition Award with Special Distinction from Radiology, the journal of the RSNA

Jonathan Dillman, MD, received the John Caffey Award for Best Basic Research/Education Paper from the Society of Pediatric Radiology

N. Reed Dunnick, MD, received a Gold Medal from the American College of Radiology and a Radiological Merit

Award from the Mexican Federation of Radiology and Imaging

Bradley Foerster, MD, was awarded a NIH R01 Grant

Kirk Frey, MD, PhD, received a DOE/NIBIB Award

Craig Galban, PhD, was awarded a NIH UO1 Grant

Joseph Gemmete, MD, was pictured in the M-Line article about treating children with transcatheter therapies and was appointed associate editor for the Journal of Vascular and Interventional Radiology

Gandikota Girish, MBBS, received the Patrick T. Liu Innovation in Research Award from the Society of Skeletal Radiology

Mitch Goodsitt, PhD, was appointed imaging physics editor of Medical Physics, the AAPM's journal

Lubomir Hadjiyski, MSc, PhD, Received a NIH U01 Award

Ellen Higgins, MS, PA-C & Team, was a finalist for the President's Innovation Award

Ella Kazerooni, MD, received the Inspiration Award for Outstanding Leadership in Radiology from the Society of Thoracic Radiology, a Gold Medal from the American Roentgen Ray Society, and an Honored Educator Award from the RSNA

Aine Kelly, MB, BCh, BAO, received a Leonard Berlin Scholarship

in Medical Professionalism from the ARRS

Michael Kilbourn, PhD, received the Michael J. Welch Award from the Society of Nuclear Medicine and Molecular Imaging, in recognition of outstanding contributions to the field of radiopharmaceutical chemistry

Theo Marentis, MD, PhD (resident) & Team, received the SPIE Poster 1st Prize, (assisted by Sarah Abate)

Kate Maturen, MD, received an Honored Educator Award from RSNA, as well as a Cum Laude Educational Exhibit Award from RSNA

Ben Mervak, MD (resident), received the Hounsfield Award from the Society of Computed Body Tomography and Magnetic Resonance (mentored by Matt Davenport, MD)

Venkat Murthy, MD, was awarded the Mitzi and William Blahd, MD Pilot Research Grant from the Society of Nuclear Medicine and Molecular Imaging and was recognized for Best Clinical Paper in the Journal of Nuclear Cardiology

Brian Ross, PhD, received the ISMRM 2014 Outstanding Teacher Award and a NIH UO1 Award

Jonathan Rubin, MD, PhD, received Grand Challenge Sepsis Funding and presented the 2014 New Horizons Lecture at RSNA

Markus Schwaiger, MD, was recognized as a 2014 RSNA Honorary Member

ALUMNI INFORMATION UPDATE

Please go to medicine.umich.edu/dept/radiology/alumni-information-update to update your contact information (i.e. mailing address, e-mail, etc.). You can also send your updates directly to Carly Brandreth at cbrandre@med.umich.edu or by calling 734.936.4346.

Peter Scott, PhD, received a New Investigator Research Grant from the Alzheimer's Association, a DOE/NIBIB Award, and the Governor's Award from the Michigan Green Chemistry and Engineering Conference

Jim Shields, MD, received Leadership with Radiology Quality Appreciation

Ashok Srinivasan, MBBS, received the Best Scientific Paper Award

from the American Society of Spine Radiology, was appointed the ARRS Global Partner Society International Speaker, and was recognized as a Distinguished Reviewer for Journal of Magnetic Resonance Imaging

Jadranka Stojanovska, MD, received the Melvin M. Figley Fellowship from ARRS

Pia Sundgren, MD, PhD received the MICHR Distinguished Clinical and Translational Research Mentor Award

Robert Welsh, PhD, was awarded a NIH R01 Grant

Guan Xu, PhD, was awarded a Michigan Institute for Clinical and Health Research Pilot Grant

SOCIETY OFFICERS

Janet Bailey, MD, was elected as AUR treasurer, a member of the AUR Board of Directors and as president of APDR

Ruth Carlos, MD, was appointed to the ARRS Executive Council, the AUR Board of Directors and the Academy of Radiology Research Board of Directors

Paul Cronin, MB, BCh, BAO, was appointed to the Boards of Directors for the Alliance of Clinical-Educators in Radiology and the AUR, and he was elected as president-elect for Radiology Alliance for Health Services Research

N. Reed Dunnick, MD, was elected as RSNA president and was selected for the Board of Trustees for the RSNA Research & Education Foundation, the AUR Board of Directors, and the Academy of Radiology Research Board of Directors

Brian Fowlkes, PhD, was elected as secretary of AIUM, secretary for

the International Contrast Ultrasound Society, general secretary for the International Society of Therapeutic Ultrasound, and treasurer of WFUMB

Kirk Frey, MD, PhD, was appointed to the ABMS Board of Directors

Mark Helvie, MD, was appointed to the Society of Breast Imaging Board of Directors and became vice chair of NCCN Breast Cancer Screening and Diagnosis

Jon Jacobson, MD, became chair of the Scientific Program Committee for the RSNA

Ella Kazerooni, MD, was appointed ABR Trustee for Cardiothoracic Radiology and to the Academy for Radiology Research Executive Committee

Aine Kelly, MB, BCh, BAO, was elected as secretary of the Alliance of

Clinical-Educators in Radiology and to the AUR Board of Directors

Kate Klein, MD, was appointed to the Alliance of Clinical Educators in Radiology's Board of Directors

Brett Mollard, MD (resident), became the A³CR² secretary

Venkat Murthy, MD, was appointed to the SNM Cardiovascular Council

Morand Piert, MD, was appointed to the SNM Central Chapter Board of Directors

Gaurang Shah, MD, became president of the American Association of Radiologists of Indian Origin

Peter Strouse, MD, became the SPR second vice president and SPR Research & Education Foundation president, and he was appointed to SPR Board of Directors and the SCORCH Executive Committee





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THE MICHIGAN DIFFERENCE

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GIVING BACK...

The Department of Radiology at the University of Michigan is most grateful to our family of alumni who have supported our programs in education, training and research. A century's worth of excellence has been enhanced through your support. We hope you will continue being a part of this legacy by considering a gift to the following priorities:



TRYGVE O. GABRIELSEN COLLEGIATE PROFESSORSHIP

Establishment of the \$500,000 endowment
victors.us/gabrielsenprof



TERRY M. SILVER COLLEGIATE PROFESSORSHIP

Establishment of the \$500,000 endowment
victors.us/silverprof



KYUNG J. CHO COLLEGIATE PROFESSORSHIP

Establishment of the \$500,000 endowment
victors.us/choprof



RESIDENT EDUCATION FUND

Establishment of a \$1 million fund to support the education, training and enrichment of residents.
victors.us/radiologyresident

To make a gift by check, please make the check payable to the "University of Michigan" and write the fund name in the memo space. Mail to:

The University of Michigan Office of Medical Development
Attention: Laura Boudette
1000 Oakbrook Suite 100
Ann Arbor, MI 48104

If you have questions about these funds or establishing a gift to support the work of the Department of Radiology, please call Laura Boudette at lauraabo@med.umich.edu or 734.763.1404.

Executive Officers of the University of Michigan Health System: Marschall S. Runge, M.D., Ph.D., Executive Vice President for Medical Affairs; James O. Woolliscroft, M.D., Dean, U-M Medical School; T. Anthony Denton, J.D., MHA, Acting Chief Executive Officer, U-M Hospitals and Health Centers; Kathleen Potempa, Ph.D., Dean, School of Nursing.

The Regents of the University of Michigan: Michael J. Behm, Mark J. Bernstein, Laurence B. Deitch, Shauna Ryder Diggs, Denise Ilitch, Andrea Fischer Newman, Andrew C. Richner, Katherine E. White, Mark S. Schlissel, *ex officio*.

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