

GRAND VALLEY STATE UNIVERSITY

# 2014 Annual Health Report

## Transforming Health Care





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Cook-DeVos Center  
for Health Sciences





# LETTER FROM THE VICE PROVOST OF HEALTH

It is my distinct pleasure to introduce Grand Valley State University's first Annual Health Report, a glimpse at how we are "Transforming Healthcare" through the contributions of students, faculty and staff members, alumni, and community partners. In this annual publication, we highlight examples of Grand Valley's health innovations and accomplishments in education, research, practice, and service. The articles document the extraordinary impact of our faculty, staff, students, and alumni on preparing the next generation of health care leaders, leading healthcare systems, providing care to our communities, and developing innovative programming and technologies to improve patient care.

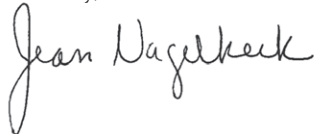
As the major provider of health professionals in West Michigan, Grand Valley is creating innovative programming to ensure an adequate supply of practitioners to provide high quality care in our communities. Our faculty members continuously develop and adapt curricula to prepare the healthcare leaders, innovators, and practitioners needed in emerging healthcare systems.

Grand Valley's student body is over 25,000, with almost a third of students enrolled in health-related academic programs. The university provides talent for our country, state, and region, with 81.4 percent of our graduates employed in Michigan and 71.5 percent employed in West Michigan. Our exceptional pass rates for our health profession graduates on specialty licensure exams far exceed national benchmarks. A vital part of our students' success is our commitment to deliver an outstanding educational experience, attracting and retaining phenomenal faculty, and selectively investing in cutting-edge research.

Through community partnerships, we are fostering interinstitutional opportunities for developing healthcare advancements and innovations. Our collective work in promoting interprofessional education and collaborative practice in the region has attracted national and international recognition. Our shared triumphs nourish Grand Valley's determination to provide students with integrated learning opportunities that foster academic success and successful careers.

I hope you will join us as we continue to advance health in our communities, guided by our commitment to excellence in education, practice, research, and community partnership.

Sincerely,



Jean Nagelkerk, Vice Provost of Health





# REPORTS ON SELECTED HEALTH-RELATED PROGRAMS AT GRAND VALLEY STATE UNIVERSITY

Grand Valley State University is the major provider of health care professionals in the West Michigan area. As we educate the next generation of professionals, we continually strive to offer the most cutting-edge programs and advanced learning opportunities. In 2013–2014, 9,837 students were enrolled in the university's 52 different health-related academic programs. Here are some highlights from just a few of those programs.





## Master of Public Health Program

The Master of Public Health (M.P.H.) program was initiated in Fall 2013. Interest in the new program was strong, with 34 students admitted in the fall semester and an additional 11 the following semester. Ranelle Brew Ph.D., chair and program director, along with full-time faculty members Azizur Molla Ph.D., and Jody Vogelzang Ph.D., head the program, housed in the newly formed Department of Public Health within the College of Health Professions. The program plans to admit a full cohort of 60 students for the 2014–2015 academic year, in addition to hiring two more full-time, tenure track faculty members.

Highlights of the first year include multiple “This is Public Health” campaign projects, collaboration with the Centers for Disease Control’s online CDCologist project in which Grand Valley State University students served as a pilot group to beta-

test the CDC’s crowd sourcing website that was later highlighted in *USA Today*, a Survey Saturday event in collaboration with the University of Michigan with students engaged in community-based participatory research data collection, and a study abroad trip to Kenya where Grand Valley students worked in public schools.

The M.P.H. program consists of 60–63 credits, including 33 credits of core public health coursework and an additional 21 credits in one of three emphasis areas (epidemiology, health promotion, or health administration); a practicum experience; and a research project. The program offers students a comprehensive public health curriculum that prepares graduates for careers in the fields of epidemiology, research, health education, disease prevention, and health promotion.

Growth will continue in the Department of Public Health with a clinical dietetics program proposed for 2015–2016.



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## Bachelor program in American Sign Language Interpreting developed.

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## Master of Science in Speech-Language Pathology Program

The Master of Science in speech-language pathology (SLP) program is housed in the new Department of Communication Sciences and Disorders in the College of Health Professions and matriculated its first 30 students in Fall 2013 and an additional 28 students in Winter 2014. The program was awarded its candidacy accreditation status from the Council of Academic Accreditation (CAA) from the American Speech-Language-Hearing Association in early August 2013. More than 125 applications were received for the program's initial cohort for Fall 2013 and more than 250 applications were received for the Winter 2014 cohort. Interest in the speech-language pathology program at Grand Valley State University has been strong as evidenced by the doubling of applications from Fall 2013 to Winter 2014 as well as a 50 percent increase in the number of students admitted to the undergraduate speech-language pathology emphasis.

The M.S. in SLP program consists of 60 credits over four semesters. Students are

enrolled in academic coursework as well as a clinical practicum for the first three semesters with the fourth and final semester being a full-time clinical internship. The clinical placements are in community settings within two hours of Grand Rapids, while the internship placements can be located anywhere in the country. At this time, more than 70 community placements have signed affiliation agreements with Grand Valley with many more in process. The M.S. in SLP program was highlighted at the American Speech-Language-Hearing Association's convention in November 2013 as being one of the top three model graduate programs in the country that provides students with inter-professional education.

Future plans for the Department of Communication Sciences and Disorders include developing a clinical doctorate in audiology (Au.D.) and the development of advanced teaching and training laboratories for student education and community service beginning in the fall of 2014. The department, in conjunction with the Department of Allied Health Sciences, also developed a bachelor's level degree program in American Sign Language interpreting.







## Seidman Partners with Spectrum Health for Executive M.B.A.

One of Grand Valley's founding fathers, L. William Seidman, envisioned a great university that would serve the needs of West Michigan. Fifty years after the founding of the university, the Seidman College of Business took the charge of Bill Seidman to a new level. The Seidman College of Business and Spectrum Health will collaborate to develop and teach an executive-format M.B.A. This new health executive M.B.A. program is a reflection of Grand Valley's commitment to flexibility and responsiveness to community needs.

The Seidman College of Business's segue to an executive-format program will focus on Spectrum Health's goal of national leadership. Those in management and leadership roles need to understand the relationships among all functions within the organization. This will require innovative approaches as the health care industry enters an era of unprecedented change. "Spectrum Health must explore

and create opportunities that will provide a smooth transition throughout this decade," said Richard C. Breon, president and CEO of Spectrum Health. He continued, "We are very pleased that Grand Valley State University has been willing to develop an M.B.A. program specifically designed for our integrated health system during a very challenging time in the industry." Participants in the 22-month executive M.B.A. program will be clinical and administrative employees who have been identified as high-performing, high-potential leaders within Spectrum Health.

The executive M.B.A. curriculum development will be a collaboration between the Seidman College of Business faculty and Spectrum Health administrators. The curriculum will apply core M.B.A. principles to relevant health care challenges faced by integrated health systems. Seidman College of Business faculty members will shadow Spectrum experts in their respective disciplines, and Spectrum content experts will share their perspectives and insights in the classroom. Classes will be conducted in a multifaceted approach with a combination of classroom, virtual, and applied learning sessions.

"Grand Valley State University applauds Spectrum Health's recognition for ongoing learning and executive development," Grand Valley President Thomas J. Haas said. "All sectors of the economy face fast-changing circumstances that require innovation. Grand Valley's agility and commitment to quality are essential components of our key community partnerships. We embrace this opportunity that will enhance Spectrum Health, Grand Valley and ultimately the larger region both institutions serve."

## Health Information and Reimbursement Program

Beginning in August 2014, Grand Valley State University is offering a new program called health information and reimbursement (HIR), an emphasis under

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**"We are very pleased that Grand Valley State University has been willing to develop an M.B.A. program specifically designed for our integrated health system during a very challenging time in the industry."**

**— Richard C. Breon,  
president and CEO**

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According to the U.S. Bureau of Labor Statistics there are approximately **12,000 to 50,000** new, health information-related jobs anticipated by 2017.

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the Allied Health Sciences major, offered by the College of Health Professions. Health information is a growing field and shortages will occur due to the implementation of the new International Classification of Disease coding system, ICD-10, and the aging of baby boomers. On October 1, 2015 all physician offices, hospitals, and insurance companies will implement ICD-10. According to the U.S. Bureau of Labor Statistics there are approximately 12,000 to 50,000 new, health information-related jobs anticipated by 2017. Grand Valley's new health information and reimbursement program will educate students for a wide range of career opportunities such as coder for inpatient and outpatient services, manager of coding, director of health information management, HIPAA compliance officer, and clinical documentation specialist. Health information and reimbursement professionals will make important contributions to the delivery of health care by maintaining, collecting, and analyzing health and financial information.

HIR professionals collaborate interprofessionally with physicians, insurance providers, clinical departments, and patients for the delivery of health care. Once students complete the program, they will sit for a national exam to obtain a credential called the Registered Health Information Administrator (RHIA). The RHIA credential is recognized throughout the country.

## Master of Business Administration with Health Sector Management Emphasis

Grand Valley State University's Seidman College of Business is partnering with the College of Community and Public Service's School of Public, Nonprofit, and Health Administration to offer M.B.A. students the opportunity to earn an emphasis in health sector management. As one of three primary industries in West Michigan, health care offers technical, managerial, and leadership employment opportunities for graduate business students.

Faculty members from the Seidman College of Business and the School of Public, Nonprofit, and Health Administration collaborated to design the emphasis in health management to complement the traditional M.B.A. curriculum. Students complete the comprehensive M.B.A. core, ensuring that the degree includes mastery of all content expected of M.B.A. graduates. Four specific health administration courses complete the elective portion of the M.B.A., one each in health administration, U.S. health policy, health law, and health economics. M.B.A. students benefit from the expertise of health administration faculty members for three of the emphasis courses. Students in the program also benefit from the partnership between the two graduate programs by a crosslisted course in health economics, which is regularly taught by a Seidman College of Business Department of Economics faculty member whose research and scholarship focus on health economics.

The health sector management emphasis is especially attractive to M.B.A. students with experience in a functional area of business that is in demand in the health industry such as finance, accounting, or operations. Familiarization with the culture of health care leverages students' credentials for positions in this dynamic industry.



## The Interprofessional Summer Institute for Polarity Thinking in Health Care

Relevancy and return-on-investment in program development are consistent goals for the Kirkhof College of Nursing. The Interprofessional Summer Institute for Polarity Thinking in Health Care is one such example of relevant programming. The program is being implemented by the Bonnie Wesorick Center for Health Care Transformation, located in the Kirkhof College of Nursing at Grand Valley State University. The institute brings the skill of polarity thinking, a system of thought and management that promotes crossdisciplinary practices and communication to interprofessional health care leaders and practitioners in academia, research, and practice.

The major issues haunting health care today are a combination of problems that need solving and polarities (i.e., paradoxes or dilemmas) that require managing. When leaders are not clear about how to differentiate between problems and polarities, there is wasted time, money, and energy.



Participants who attended the Interprofessional Summer Institute for Polarity Thinking in Health Care walk along a polarity rope that provides a visual and kinesthetic experience of what happens when a person tends to over focus on one pole and ignore the other pole of a polarity pair.

The Interprofessional Summer Institute for Polarity Thinking in Health Care is consistent with the innovative philosophy and mission of the Wesorick Center. Bonnie Wesorick, M.S.N., R.N., D.P.N.A.P., F.A.A.N. and Laurie Levknecht, R.N., B.S.N. are both master's certified teachers for polarity thinking and educate participants in fundamental and advanced polarity principles that collectively prepare learners for a mastery polarity thinking course. This learning moves from theory to daily realities and focuses on simple to complex application for interprofessional clinicians, managers, executives, consultants, educators, and researchers involved in health care.





## Health Communication Major

With the rapid expansion of the health care industry in the United States, the health communication profession began to emerge in the 1970s and 1980s in response to a growing national need for various communication functions to be applied consistently, effectively, and with increasing frequency. These included public relations, advertising, research, writing, and related functions.

The Grand Valley health communication major was developed in collaboration with

consultants from Butterworth Hospital in Grand Rapids (now Spectrum Health) and Hackley Hospital in Muskegon (now Mercy Health). Communications Professor Alex Nesterenko Ph.D., notes that, “Although the School of Communications faculty and I believed we understood the requirements for a health communication major, we wanted to have professional input to check our thinking and to make sure that the program was focused on the right intellectual and professional issues and values. Our vision of health communication was basically in agreement with the National Cancer Institute and CDC’s current stand on health communication: ‘The study and use of communication strategies to inform and influence individual decisions that enhance health’.”

Grand Valley’s health communication major provides a strong foundation in health science and in the principles and techniques of human communication. In addition, students take courses in public relations, advertising, writing, strategic communication, and research. The program has grown quickly, and currently has 132 students in the major. Over the years, graduates have found work in Michigan and throughout the United States in both health and human services fields.





## Grand Valley State University Students in Specific Health-related Programs

These numbers highlight the diversity and variety of health-related programs at Grand Valley State University from 2013-2014. They demonstrate the potential positive effect of future Grand Valley alumni on the health care industry in Michigan, across the country, and around the world.

Allied Health Sciences (Bacc.)	1,075
Athletic Training (Bacc.)	299
Biology — Genetics and Cell/Molecular Biology (Bacc.)	22
Biology — Physical Therapy (Bacc.)	19
Biology — Predental (Bacc.)	19
Biology — Premedical (Bacc.)	52
Biology — Preosteopathic (Bacc.)	1
Biomedical Informatics (PBCER)	2
Biomedical Sciences (Bacc.)	1,466
Biomedical Sciences (M.H.S.)	17
Biopsychology (Bacc.)	77
Biostatistics (M.S.)	38
Business General — Health Sector Management (M.B.A.)	3
Cell and Molecular Biology (Bacc.)	105
Cell and Molecular Biology (M.S.)	38
Chemistry — Biochemistry and Biotechnology (Bacc.)	92
Clinical Laboratory Sciences (Bacc.)	16
Clinical Research Trials Management (PBCER)	10
Diagnostic Medical Sonography (Bacc.)	350
Engineering — Biomedical Engineering (M.S.E.)	4
Exercise Science (Bacc.)	1,211
Health Administration (M.H.A.)	83
Health Communication (Bacc.)	132
Health Professions (Bacc.)	135
Health Science (Bacc.)	1
Medical and Bioinformatics (M.S.)	13
Medical Laboratory Science (Bacc.)	78
Nursing (Bacc.)	1,216
Nursing (D.N.P.)	83
Nursing (M.S.N.)	16
Occupational Safety/Health Management (Bacc.)	85
Occupational Therapy (M.S.)	154
Physical Education — Health Fitness Instruction (Bacc.)	1
Physical Therapy (D.P.T.)	191
Physician Assistant Studies (M.P.A.S.)	137
Preclinical Laboratory Sciences (Bacc.)	10
Prehealth Science (Bacc.)	5
Premedical Image/Radiation Science (Bacc.)	355
Premedical Technology (Bacc.)	657
Premedical Laboratory Science (Bacc.)	13
Prenursing (Bacc.)	2
Psychology (Bacc.)	1,362
Public Administration — Community Health (Bacc.)	1
Public Administration — Health Administration (M.P.A.)	50
Public Health (M.P.H.)	46
Public and Nonprofit Administration — Community Health (Bacc.)	90
Radiation Therapy (Bacc.)	37
Radiologic and Imaging Sciences (Bacc.)	23
Social Work (Bacc.)	615
Social Work (M.S.W.)	496
Speech-Language Pathology (M.S.)	58
Therapeutic Recreation (Bacc.)	196
<b>Unduplicated Count</b>	<b>9,837</b>

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GVSU offers  
**52** health-related  
programs

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## INNOVATIONS IN TEACHING

First-rate faculty and experiential learning — particularly student/faculty member collaboration and research — have always been foundations of a Grand Valley education. That entrepreneurial and innovative spirit is especially evident in health professions programs where faculty members work hand-in-hand with students and other community resources to find real, practical solutions to health-related issues facing local and global communities.





## A Day at the Grand Valley State University Simulation Center

Two patients who were thrown from their vehicles a week ago lie in intensive care unit (ICU) beds attached to ventilators with multiple IV lines in place. The bedside monitors display the patients' heart rates as well as arterial pressure, oxygen saturation of their blood, and intracranial pressure. Both patients have tracheostomies, which periodically need suctioning. Across the hall from the open bay ICU unit are two other hospital rooms. One patient is experiencing a drug reaction that has upset a family member and in the other room lies a patient who fell off a neighbor's porch and required hip replacement surgery. This patient, later on, will require a blood transfusion and experience a pulmonary embolism. Further down the hall, there is an outpatient clinic where eight clients are meeting with their social workers to gain assistance and coping mechanisms for problems related to the care of foster children. Others are learning to deal with a sexually transmitted disease (STD).

This scene did not take place at a medical center but rather in the Grand Valley State University Simulation and Learning Resource Center located in the Cook-DeVos Center for Health Sciences. Simulation is being used more and more as a learning tool in health care education in an interprofessional environment. Utilization of the Grand Valley simulation center has increased 166 percent over the past two years as simulation has been integrated into all health science curriculums.

Simulation has been shown to give students opportunities to problem-solve real life clinical situations without affecting actual patients. It is hands-on, active learning in a safe environment without fear of harming a real patient. It can be discipline-specific or it can be planned so that students from multiple health disciplines have the opportunity to learn together in an interprofessional environment. During these sessions, students receive feedback on what they did well and how they could improve.

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The Simulation Center allows students to participate and practice new skills without fear that a patient would be harmed.

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Mannequin occupies hospital bed in the Simulation Center center where more than 160 “manikin” simulations or 524 hours were completed in 2013.

Successful simulation events take many hours of planning to make sure that scenes are realistic and match the knowledge and skills of the student’s current level of study. Scenes for simulations can be chosen from real experiences or from prewritten scenarios. Some scenarios are situations that occur often in the clinical settings and are chosen to allow students to fine-tune their responses to patient situations. Others may be chosen because they portray situations that may not happen often in the clinical setting, but require a high level of response from the caretaker when they do occur. Equipment and other props such as splints, IVs, or ventilators are chosen to make the scenes realistic.

The scenes and equipment are important to the simulation, but so are the patients and the team behind the scenes. The ICU patients, described earlier, were actually simulated patients or actors playing the role of a patient just emerging from a comatose state after sustaining a head injury. The patients with the drug reaction and the hip surgery were high-fidelity “manikins”. These “manikins” have breath and bowel sounds, blood pressures, and pulses. The eight clients in the outpatient clinic were simulated patients playing roles. The choice between “manikin” and simulated patient

is made based on the learning objectives: Are students practicing a skill or refining their interviewing or communication skills?

Recordings of simulations help faculty members give feedback to their students and help students give feedback to their peers. The feedback portion of a simulation is called the debriefing — what went well and what could be improved — and is a very important learning tool. Simulated patients also can participate in these debriefings by giving valuable tips to the students on how they might better communicate or make the patient feel more comfortable.

Simulation has become a very important part of educating health care students in all disciplines. At the end of the day, all of the planning, scheduling, and set up is well worth it. During the simulation events described, 32 physical therapy students, 28 Master of Social Work students, and 24 nursing students were able to participate and practice new skills without fear that a patient would be harmed. Students were given feedback on how they could improve as well as celebrate what went well and gain new confidence in caring for their patients.



## Activity-permissible Classrooms

For more than 20 years, Professor John Kilbourne taught college and university lecture/discussion courses in the typical classroom setting. The classrooms usually consisted of 30 to 40 chairs with fixed attached desks organized in neat rows, all facing front. This configuration allowed little opportunity for change because of the confined space, time, and the other classes that preceded and followed.

Kilbourne replaced fixed desks with exercise stability balls. Research revealed the effectiveness of the activity-permissible space in students' ability to pay attention, take notes, and engage in classroom discussions. He expanded classroom options to include stability balls, standing desks, and traditional chairs and desks.

The far-reaching publicity about the new classroom led Kilbourne to the furniture

maker Steelcase, which offered to pilot its Node classroom desk/chair at Grand Valley, one of only three such schools selected. The Node is unlike any classroom desk/chair.

It is a freewheeling chair with a seat that swivels and a swing-out desk that allows for quick transformation of a teaching space to accommodate learning circles, small groups, and even movement games. Kilbourne predicts the next major revolution in teaching and learning will come from altering the environment and making classrooms more activity-permissible.

More recently, Kilbourne has been working with Steelcase to introduce and research the effectiveness of their new Buoy chair in his innovative classroom. The Buoy chair was officially launched in the spring of 2013, and Grand Valley was the first school to use it in a classroom. The Buoy has many of the qualities of an exercise-stability ball but is much sturdier and will allow for height adjustments.

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**GVSU professor collaborates with Steelcase to pilot its Node classroom desk/chair.**

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**Department of  
Physical Therapy  
and School of  
Engineering partner  
to create power  
wheelchair trainer.**

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## Power Mobility Project

Children with severe disabilities are limited in their ability to use self-initiated movement to explore and learn from the world around them. Given that self-generated movement is critical to the development of numerous skills, children who are unable to move and explore their environments may not be able to maximize development of cognitive, perceptual, and social skills. In the rare instance that these children are given an opportunity to try using a power wheelchair, payer sources expect that a child should demonstrate safe and effective driving skills with little or no training. If unable to drive effectively within a single, short session, children with severe disabilities are frequently denied further opportunities to use power mobility and are therefore unable to realize the benefits of self-generated mobility.

The Grand Valley State University Power Mobility Project attempts to address this problem by providing these children the opportunity to demonstrate and improve their power mobility skills. In a collaborative partnership between the Grand Valley State

University Department of Physical Therapy and the School of Engineering, the Power Mobility Project team has designed and built two power mobility systems: a power wheelchair trainer for children over four years of age; and a play and mobility device for children nine months to four years old.

The power wheelchair trainer is a motorized platform that allows a child's manual wheelchair to be temporarily converted into a power wheelchair so that the child can practice using power mobility and begin to explore and learn from the environment. The play and mobility device is a small, highly maneuverable motorized platform with a safety seat that is able to provide the extra support that is needed to allow a child with severe disabilities to sit. The control system on both the power wheelchair trainer and the play and mobility device interfaces with both a traditional joystick and a variety of switches so that therapists are able to adapt the power access system to meet the unique needs of each child. Graduate physical therapy students and engineering students work together to refine the design of each device and to pilot test the devices with area children.



First-time driver tests the controls on the power wheelchair.

Individualized training sessions, using either the power wheelchair trainer or the play and mobility device, are structured to include repetition of power-mobility tasks and opportunities for self-directed mobility exploration. Sessions are designed to be playful and encouraging with the goal of engaging each child in personalized, motivating activities that promote the child's use of power mobility within functional play experiences. Children who have piloted these devices have shown improvements in cause and effect skills and an increased ability to interact with others within the environment. Future program and research objectives include expanding use of these unique power-mobility training devices and seeking external funding to conduct clinical trials on the effect of the devices.



## Study Abroad in the Dominican Republic

In Spring 2012, Associate Professor Heather Gulgin, Ph.D. traveled with 15 students to Santiago, Dominican Republic for the first study abroad program offered through the Movement Science Department. In 2013, Gulgin returned with another 15 students and had 17 more students scheduled to go in spring 2014. Students majoring in exercise science, athletic training, biomedical sciences, allied health sciences, and physical education K-12 have an opportunity to travel abroad for five weeks to study kinesiology and exploration of Latin America courses. The purpose of the study abroad program is to provide students an opportunity to experience another country's culture while

earning credits toward graduation. Although there is no Spanish language proficiency requirement to apply, once there, students live with Spanish-speaking host families. Students are asked to step out of their comfort zone and try to communicate in the language of the families. Outside of the classroom, students visit a physical therapy clinic and baseball team training to observe and ask professionals questions about typical treatment or training philosophies. While students take daily classes during the week, they travel and explore the country on the weekends.

During the debriefing at the end of the program, many students talk about how much they take for granted in the United States and how the experience opened their eyes to many things, not only about the new culture, but about themselves. A student

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Associate Professor  
Heather Gulgin  
traveled with  
**15** students  
to Santiago,  
Dominican  
Republic for the  
first study abroad  
program offered  
through the  
Movement Science  
Department.

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Exercise science students explore the Dominican Republic.

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**“Having the opportunity to study abroad... was absolutely life changing.”**

**— Grand Valley Movement Science Student**

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commented, “Studying abroad was one of the greatest opportunities I have ever taken advantage of. Not only did it help me in my academic goals, but it allowed me the opportunity to experience a different culture first hand. The thing I value most about studying abroad is that I left our country with complete strangers and over a course of five weeks gained 15 new friends.” Another student stated, “Having the opportunity to study abroad in Santiago, Dominican Republic was absolutely life changing. I was able to become completely submersed in the culture without being overwhelmed, while learning so much about the culture and daily life in the Dominican Republic. The families and staff made the experience incredible, and I would recommend this trip to anyone looking to take MOV 300 while experiencing the adventure of a lifetime.” The richness of a study abroad experience is invaluable in the overall educational and personal journey of students.

## **“This is Public Health” Campaign**

Helping to educate the community about Grand Valley State University’s new program

in public health, the Introduction to Public Health (PH 500) course took to the streets to promote the “This is Public Health” campaign. Students distributed more than 500 red “This is Public Health” stickers in Grand Rapids. New York University and Columbia University students in New York City launched this campaign in 2008 through a collaborative YouTube video project. Since then, the campaign has gone viral and global. Grand Valley students used Grand Rapids’ ArtPrize® event as their venue to reach out to the community and raise awareness of public health. They used a captive downtown audience to talk about public health and educate community members about the different places public health is present in their environments and community. By placing “This is Public Health” stickers on items such as drinking fountains, bus stops, traffic signs, fire hydrants, and bicycle helmets students were able to bring awareness to the areas in which public health is at work. Stickers are available in 35 languages, and more than 30 M.P.H. students distributed them in English and Spanish to 10 different popular ArtPrize stops including the Grand Rapids Public Museum, the Amway



Public health students spread awareness of the “This is Public Health” campaign during ArtPrize.





Grand Plaza Hotel, and the Van Andel Arena. Families, students, children, and others were engaged in order to create awareness about public health and Grand Valley's new program.

In the winter semester, the students created 15-second videos using the popular social media application Vine to disseminate more messages about public health. Those videos can be viewed at <https://vine.co/GVSU.PublicHealth/>. Both projects also are highlighted on our Facebook page at Grand Valley State University — Public Health. “Like” the page to stay abreast of current public health topics.



## STUDENT LEADERSHIP, DEVELOPMENT, AND ACHIEVEMENT

From engineering to business to nursing to exercise science, at the undergraduate and graduate levels, scholarship is critical to the success of Grand Valley's health-related programs. Our students and faculty members don't just write papers and collect awards though; they organize, design, lead, create, solve problems, and make a difference in the world.





## Sit-to-Stand Device

Grand Valley State University undergraduate students Kathryn Christopher, Leah Bauer, Andrew VanDyke, Brittany Taylor, and Brianna Taylor created a company after working on a sit-to-stand device designed specifically for intensive care units in hospitals and long-term rehabilitation centers. Their design utilizes the principles of early ambulation, which allows patients to recover more quickly. The device reduces the risk of injury to patients and staff and provides a way to objectively determine patient progress.



Sit-to-stand device prototype helps patients recover quickly and safely.



Students hold the winning check for their sit-to-stand device at the Michigan Collegiate Innovation Prize competition.

This project was started in Engineering 301 with Professor John Farris and was then entered into the Michigan Collegiate Innovation Prize competition by the University of Michigan. The judging started with interviews of 90 teams, of which 29 were selected, including Grand Valley's. The competition then required four months of rigorous training, assignments, readings, presentations, and lectures. A final day of presentations took place at the University of Michigan. The Grand Valley team was awarded the best undergraduate prize of \$20,000. The students have filed for an LLC, now a company called Fluition LLC, and are working to develop a second prototype, file for a patent, and continue this project.

## Student Nurses' Association

The Grand Valley State University Student Nurses' Association (SNA) is a highly respected preprofessional organization offering students the opportunity to develop a professional identity while in nursing school. Nursing students who desire to obtain professional development experience and participate in valuable community service and leadership opportunities are highly encouraged to join the group.

The group includes more than 300 members who are involved in high-impact experiences and have accrued over 1,300 volunteer hours during the past year. Eight students attended the National Student Nurses' Association convention in Louisville, Kentucky, where they participated in development sessions regarding career development, legislative involvement, and nursing specialties. The students also had a private roundtable conversation with the past American Nurses Association President (ANA), Rebecca Patton, to discuss her involvement with the Affordable Care Act and recent health care policy.







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The Student  
Nurses Association  
works with nearly  
**100** community  
organizations

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The Student Nurses Association performed a talent show for the residents of Fulton Manor, an assisted living center in Grand Rapids. They also conducted biometrics on the parishioners of Trinity Lutheran Church in East Grand Rapids including total cholesterol testing, blood pressure checks, and body mass index. Moreover, they have assisted with arts and crafts with the dementia residents at Sheldon Meadows, a Grand Rapids assisted living center; helped with meal service at God's Kitchen in Grand Rapids' Heartside District; and provided one to two days per month of hand and foot care in local assisted living and nursing homes. Overall, the Student Nurses Association supports nearly 100 community organizations through commitments to plan and participate with health-related events.

## Strength Training Research

Research is often used as a tool to teach critical thinking; however, it is often difficult to get large numbers of students involved due to the complexity of projects. For Steve Glass, Ph.D., a professor of an exercise science program with 1,000 undergraduate students, the single-student model just

does not provide enough opportunities for the number of interested students. This year, he intentionally chose a research question and study design that provides a research opportunity for as many as 30–40 undergraduate students.

Glass was contacted by an entrepreneur to study a water-filled, strength-training device. The device is designed to create an unstable load as the individual lifts, forcing core muscles to compensate.

While the study is not complex, there was need for a variety of individuals to assist with a number of duties: 1) spotting the lifts to ensure safety; 2). preparing the subjects' skin and applying the electrodes; 3) performing initial screenings and health evaluation as well as strength testing; 4) recording the EMG data and marking the movements (lift and lower transitions); and 5) data processing (signal filtering, rectification, and integration). Since subjects are scheduled close together, student researchers were prepared for all of the tasks so that work could be distributed. Currently, 12–15 students as well as a research intern, who is preparing for graduate school, are assisting with the first study. The second study starts in Fall 2014, and another



group of students will be recruited to assist. The initial group will present preliminary data on three posters at Grand Valley's Student Scholars Day. One group will present the techniques for EMG sampling (skin prep and data acquisition). Another will present the data signal processing techniques used. The research intern will present any preliminary data available at the time of the research day. In subsequent semesters, an expanding group of students will have data to present at a variety of local, regional, and national meetings. Professor Glass will pursue peer-reviewed publication in major exercise science journals for additional dissemination.

## Physical Therapy Student Awards

David Daniels was a highly esteemed member of the Grand Valley State University physical therapy class of 1986. On the morning of graduation on August 23, 1986, while David was participating in the Muskegon Triathlon, he tragically drowned.

David was self-assured but not arrogant. As an athlete, he was competitive. However, he was also humble in his victories and a true sportsman in his defeats. David's words and actions were consistent. Therefore, his peers

looked to him as a model of integrity. David's classmates wanted to honor his legacy and the attributes he would have brought to the physical therapy profession by awarding a scholarship to individuals who best exemplify David's characteristics. An endowment was established so that one day the David Daniels Memorial Scholarship could be awarded to physical therapy students who would be entering the final year of their professional training. The endowment has reached a level where it can now be used. The David Daniels award goes to two students who are entering the final year of the professional program. In 2013, Brett Cain and Betsy Graney (both from the class of 2014) received this award. Other 2013 physical therapy student awards include

- Niemeyer Award: Todd Cates '13;
- Graduate Dean's Citation for Academic Excellence in the Major: Katherine Farrimond '13;
- Graduate Dean's Citation for Excellence in Leadership and Service to GVSU: Amber Lenhart '13;
- Graduate Dean's Citation for Excellence in Service to the Community or Profession: Claire Dulin '13;
- Graduate Dean's Citation for Promoting Diversity and Inclusion at GVSU: Andrew Post '13;



- Graduate Dean's Citation for Outstanding Publication: Robyn Smith '13;
- Physical Therapy Departmental Honors: Michelle Giesel '13;
- Phi Kappa Phi: Katherine Farrimond '13 and Meredith Wall '13;
- Michigan Physical Therapy Association Outstanding Student Award: Alyssa Polso (Class of 2014); and
- Michigan Physical Therapy Association Fillipis Family Scholarship: Alyssa Polso (Class of 2014).

## Graduate Nursing Students' Scholarly Presentations

The graduate nursing programs had an active year of engagement in scholarship presentation by its students.

- Two graduate students presented their scholarly works at the 42nd Biennial Convention of Sigma Theta Tau International Honor Society of Nursing in Indianapolis, Indiana, in November 2013. As part of the Rising Star Program, Mariah Hockin, M.S.N., C.M.S.R.N. presented her project "Hospital Readmissions in COPD Patients" and Kathryn Speeter, D.N.P., A.G.N.P.-B.C. presented her dissertation work titled "Severe Mental Illness in Adult and Physical Health Screening."

- At the Michigan Council of Nurse Practitioner State Conference in March 2014 the following students presented: James Fix, "A Process Improvement for the Treatment of Obesity in Primary Care: A Study in Progress"; Jeffery Bird, "Interpersonal Needs Questionnaire (INQ) as a Screening Tool for Suicide in Veterans"; and Joanne Finazzi, "An Evidence-based Approach for the Implementation of an Osteoporosis Educational and Exercise Intervention Among Perimenopausal Women."

- Most recently at the Midwest Nursing Research Society (MNRS) in March 2014 two doctoral students were awarded Student Research Scholar's Awards: Jennifer Zoeteman presenting her work "Protecting the Skin of Older Adults through Surveillance and Pressure Ulcer Prevention Beginning in Emergency Services" and Jennifer Ohman "Factors Associated with Life Space Mobility in Community Dwelling Older Adults."
- Jennifer Ohman also presented her work at the National Gerontological Society of America Annual Meeting in November 2013.

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**TWO** GVSU  
doctoral students  
were awarded  
Student Research  
Scholar's Awards.

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## PRECEPTORS

Preceptors provide Grand Valley students with invaluable exposure to the real world of health care. They supervise students' clinical activities and monitor their educational process. Because clinical teaching encourages preceptors to seek out and organize new knowledge, it's not unusual for preceptors to not only gain personal satisfaction from preparing the next generation of skilled workers, but also to find themselves learning as much as they teach.





## Physician Assistant Preceptors: Primary Care

Long-time preceptors Amy Werling, P.A.-C. and Gary Detweiler, P.A.-C. of Sparta Family Health Care contribute to the success of the Physician Assistant Studies (PAS) program by providing hands-on clinical training in primary care to our second and third-year PA students. “The GVSU PAS department is fortunate to have outstanding clinical educators as preceptors for our students. The tireless dedication each of these preceptors gives to future health care providers is nothing short of incredible. GVSU PAS students excel clinically based on the tremendous education they receive from our preceptors,” says Andrew Booth, P.A.-C, department chair of the program.

Detweiler has been precepting for more than 10 years and Werling for more than five. For Werling, a graduate of Grand Valley’s PA program, “This is

a way for me to give back and to contribute to the education of future PAs.” The students “keep me on my toes,” says Detweiler, “and they encourage us to research and study.”

Both Werling and Detweiler are passionate about primary care, especially for those who have difficulty with access to health care. They enjoy providing care for patients who have few options, both in the Sparta community and abroad. Fluent in Spanish and generous with their medical skills, they have travelled to other countries on mission trips to benefit underserved populations.

The pair is continuously receptive to mentoring students; the students like being able to work with two preceptors because it optimizes the interesting cases that they can see as well as the opportunities to be the primary provider for a patient. PA students have commented that this is a “great rotation”



Amy Werling, P.A.-C. and Gary Detweiler, P.A.-C. partner with Grand Valley to provide outstanding experience for students

because Werling and Detweiler let them be an active part of the patient care. “We work the students pretty hard, but we try to make it both fun and challenging,” comments Detweiler. “We make it practical by letting students do as much of the patient care process as they can,” said Werling. “I involve the students by having them explain the plan of care they have developed to the patient. I stand by and provide direction, if needed, but the student has the primary responsibility.”

## Physical Therapy Preceptors

Five physical therapists who are employees of Mary Free Bed Rehabilitation Hospital at Mercy Health-Saint Mary’s in Grand Rapids have demonstrated an exceptional commitment to providing hospital-based clinical experiences to students in the doctorate in physical therapy program (D.P.T.) at Grand Valley State University. Diane Potgeter, Katharine “Katie” Thompson, Katie Roll, and Rhoda Kranenberg have each served as the primary clinical instructor (CI) for three to six students per year, and Vanessa Reynolds-Umstead is beginning to assume the role of a CI, with the support of her peers.

Students often comment on the strong teamwork they experience during their experience at Saint Mary’s. Roll serves as the center coordinator of clinical education, and in this role she arranges clinical education experiences and CI assignments and is the liaison for communication between Grand Valley faculty members and Saint Mary’s CIs. Although primary CIs are assigned to each student, these CIs collaborate and support each other to provide each student a broad exposure to practice in multiple areas of the hospital. They commented that serving as CIs is fun, enjoyable, and rejuvenating. While serving collaboratively as CIs, they benefit by learning new information from their students and from each other.

This clinical education team strives to accommodate each student’s individual learning and personal needs. Potgeter described clinical education as a partnership with students in which they assist students in the transition from student to professional. In addition to mentoring students in direct patient care, they collaborate with other professionals to make a wide array of additional opportunities available, such as observation of surgery, collaboration with professionals in other disciplines, and

participation in administrative aspects of the physical therapist's role, such as quality improvement activities. Their approach to clinical education assists Grand Valley faculty members to attain the program goal of providing each student a breadth of clinical experiences.

Clinical education at Mercy Health-Saint Mary's was summarized well by David Sefton, a D.P.T. student in the class of 2014. After completion of his final clinical experience, he stated, "Having worked with several of the preceptors at Saint Mary's and been mentored by both Roll and Kranenberg, I first and foremost was impressed by the extra time and energy they put into me as a student. They changed their schedules to accommodate my needs as a student and growing clinician. They often worked well beyond their assigned hours and were tireless in meeting the needs of their patients. As I near graduation, I am challenged as a future clinician and future CI to maintain both passion and excellence in the field because of my experience with them."



Seated left to right: Diane Potgeter, Katie Roll.  
Standing left to right: Vanessa Reynolds-Umstead, Rhoda Kranenberg, Katharine Thompson

## Grand Valley's Preceptor Perks Program

The Preceptor Perks Program is a complimentary benefits package offered to professional individuals within the community who provide clinical guidance to Grand Valley health professions students.

Starting Fall 2014, preceptors obtain a gratis university appointment as affiliated clinical faculty providing students with real world exposure.

Preceptors, without monetary compensation, work directly with and/or supervise students during their clinical internship experiences. Through teaching experiences and professional role modeling, preceptors provide students with an invaluable exposure to the "real world" of health care and may influence the opinions and attitudes that students carry throughout their career.

Some of the existing perks currently available include Grand Valley State University library privileges, community discounts as available to Grand Valley employees, a 50 percent discount for all Grand Valley athletic events, free continuing education opportunities, and a GVSU Fieldhouse membership.

For those interested in serving as a preceptor, contact Kathrine Branch, director of university clinical initiatives, at [branchk@gvsu.edu](mailto:branchk@gvsu.edu).

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**"I was impressed by the extra time and energy (preceptors) put into me as a student."**

**— David Sefton,  
Grand Valley D.P.T. student**

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## COMMUNITY PARTNERSHIPS AND SERVICE LEARNING

As the largest provider of health care professionals in West Michigan, it is not surprising that Grand Valley State University is able to develop and nurture strong partnerships with local and regional health care organizations and other community connections that provide co-ops, internships, and service learning opportunities. These symbiotic partnerships are critical to the continued growth of students, the health care profession, and the West Michigan community as a whole.



## West Michigan Interprofessional Education Initiative Partnership

Grand Valley State University, Grand Rapids Medical Education Partners, and Michigan State University College of Human Medicine founded the West Michigan Interprofessional Education Initiative Partnership (WMIPEI) to provide an inter-institutional infrastructure for the development of curricula that integrate interprofessional core competencies across health care disciplines into education and practice.

With more than 150 members from 25 organizations, WMIPEI has grown into a unique partnership among four health educational institutions, 12 disciplines, and multiple practice partners. Collaborative partners include community health care agencies, hospital systems, rehabilitation and long-term care facilities, and individual community members. In 2009, Ferris State University Colleges of Pharmacy and Optometry joined WMIPEI and became the fourth university partner.

The work of the initiative is accomplished through a substructure of a steering committee and champion workgroups. The emphases of the six champion workgroups include clinical setting, crossprofessional competency, curriculum, scholarship, service learning, and simulation. WMIPEI also includes an inter-institutional student-run organization, Promoting Interprofessional Education for Students (PIPES). PIPES provides supplementary opportunities for students to learn about and with other health care students and professionals.

The accomplishments of WMIPEI are numerous and have effectively embedded interprofessional education and practice into the fabric of West Michigan's educational and health care communities. The achievements of WMIPEI include the annual WMIPEI conference dedicated to disseminating information regionally, nationally, and internationally on interprofessional education



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## National Center for Interprofessional Practice and Education designates WMIPEI as an incubator site.

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and practice. In addition to being designated as an incubator site for the National Center for Interprofessional Practice and Education, WMIPEI oversees several grant-funded interprofessional research studies. The studies are focused on providing contributive evidence on the effectiveness of interprofessional education and practice and are in various stages of research and publication. WMIPEI's interprofessional education model also includes several conferences throughout the year for distinguished professionals, numerous training modules and development programs, cutting edge use of health care simulation, virtual patient care cases, as well as learning opportunities for faculty, students, preceptors, and health care professionals at Brown Bag Lunch and Learn discussion series.

## The Statewide Autism Resources and Training Project

The Statewide Autism Resources and Training Project (START) was funded by the Michigan Department of Education, Office of Special Education in 2001 to develop a training and resource model for educators serving students with Autism Spectrum Disorder (ASD) that increases local capacity, promotes collaboration across the state, and creates a

comprehensive model for serving students with ASD.

START was established to address the increasing number of students with ASD in the schools and the lack of knowledge and expertise of educators to meet the needs of this group of students. Because students with ASD present with unique characteristics and often intense needs, it is important to prepare school-based teams to work together to assess, intervene, and monitor the educational needs of these students. The ultimate goal is for students with ASD to become active, engaged members of their schools and local communities, and successfully move into adulthood as maximally independent individuals with many choices and opportunities. Amy Matthews, Ph.D., and Judith McKenna Shea, M.A., currently work as the project directors.

## Center for Leadership at Seidman College of Business

The Center for Leadership at the Seidman College of Business has two active programs that have served more than 50 health care professionals in the West Michigan health care community in the past year. The first program, Leading High Performance Teams,

was designed specifically for Spectrum Health. The purpose of the program is for participants to learn the core competencies that produce effective teams and how to foster those competencies (alignment, communication, conflict, innovation, trust, and team orientation). The leaders of the teams provide their members a team performance survey, administered by ThinkWise, Inc., which identifies the opportunities and challenges of team building. The program also is available on an open enrollment basis.

The second program, Accelerating Leadership Excellence, seeks to develop leadership skills in a highly interactive program that focuses on the behaviors, thinking, and attitudes of highly effective leaders. The participants learn to influence others, identify and resolve problems quickly, build a team culture, and lead lasting personal and organizational change. The program has been used within the West Michigan health care community on an open enrollment basis.

The center is developing a new program for the prospective leader. This offering will be intended for the individual contributor who has aspirations of a future leadership role. It will include an assessment by ThinkWise and will be custom designed around a series of core competencies designed for the health care marketplace.



Quincy Williams helps to rebuild property in Shawnee, Oklahoma where tornadoes hit.

## Public Administration Trips to Natural Disaster Zones

For the past six years, Grand Valley State University's School of Public, Nonprofit, and Health Administration (SPNHA) has encouraged its students to participate in a variety of intercultural service-learning trips around the world. Quincy Williams, undergraduate coordinator, School of Public, Nonprofit, and Health Administration, has guided his Public Administration 380 class to places hardest hit by natural disasters. The students have traveled to such places as the Gulf Shores (New Orleans and Biloxi) to assist with Hurricane Katrina relief efforts (2007–2010); Olasiti, Tanzania (2010) to assist with a fresh water project; Dupree, South Dakota (2011) to help rebuild and reorganize the community YMCA after a series of tornadoes and ice storms took its toll; and Joplin, Missouri (2012) to assist in community clean up after a tornado leveled many miles of the town. Grand Valley staff members Anne London, senior academic advisor for the College of Community and Public Service, and Leijhi Koval, program advisor, Disability Support Resources, have accompanied the group on a number of trips.

These annual events are part of the Special Topics Service Learning course, taught every



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Public administration students packed lunches for more than **20,000** socio-economically challenged school-aged children.

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Senior Academic Advisor Anne London works on a house destroyed by tornadoes in Shawnee, Oklahoma.

winter semester. Within the context of the course, students engage in a meaningful set of community service learning activities after a natural disaster has occurred. Students apply the theories and concepts they have learned in class in order to carry out tasks such as planning, community education, volunteer recruitment and management, interpersonal communication, and teamwork. The students traveling to areas in need reside within the communities spending a week during spring break immersed in the community.

The most recent service learning experience was in Moore and Shawnee, Oklahoma in 2014. With the assistance of faculty and staff from the University of Oklahoma and members of local churches, students rebuilt fencing, finished demolition work, roofed a barn, and built a shed on a property in Shawnee that had been devastated by the tornadoes that hit the small rural area in May 2013. In addition, the group packed lunches for the weekend lunch program at the Regional Food Bank of Oklahoma for more than 20,000 socio-economically challenged school-aged children. Along

with the service learning opportunities, the students were able to explore the National Weather Center located on the University of Oklahoma campus and the Oklahoma City Memorial Building.

After a natural disaster occurs and communities begin to rebuild, there is still a sense of caution and anxiety regarding the unknown. Disasters tend to destabilize people and the communities in which they live; their resources and the things they count on for everyday living are threatened, removed, and gone. Those things that we sometimes take for granted such as water, power, and access to food, electricity, medical care, and transportation are no longer a guarantee during these times. Disasters also have a way of removing the thin veneer of the modern world in which we live. These unexpected challenges can threaten physical health and safety and can also stress the mental and emotional well being of the victims, which is why service learning is important in the effort to return a sense of normalcy and strength back to the community.

## Physical Therapy Pro Bono Clinic

Students in Grand Valley State University's physical therapy program are helping to provide physical therapy services to the uninsured and underinsured population of Grand Rapids, Michigan. Three physical therapy students and a faculty advisor started the Physical Therapy Community Outreach Initiative in 2000 with a mission to "Provide pro bono physical therapy services to those in the Grand Rapids community who cannot afford health care and to provide learning opportunities to licensed and student physical therapists." The program continues to be overseen by a faculty advisor; however, it is the students who manage the volunteers, schedule patients, and communicate with the clinics.

Services are currently provided at Heartside Health Center and Family Health Center, both in Grand Rapids. Every Friday, at each location, a student physical therapist and a licensed physical therapist provide services. In 2013, more than 250 patient visits were provided, a record in the 13 years of the program. Surveys have shown high patient satisfaction for services they would not otherwise be able to afford. In addition, positive student outcomes have been documented.



Tamara Kas, SPT and Dan Vaughn, PT, Ph.D.  
help Marlene Edema, patient, at a pro bono clinic.

Laurie Stickler, the current faculty advisor of the program, recently conducted a qualitative study regarding student involvement in the project. Student perceived outcomes were positive and included emphasis on core values of physical therapy; enhanced clinical physical therapy skills; community and professional connections; and personal growth including confidence, psychosocial maturation, and reflection. One student participating in the project summed up the effect of the project by saying, "Pro bono clinic provides a lot of professional growth, and it was beneficial to our society, which also helps us to feel value in ourselves."

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Grand Valley  
partners with  
Heartside Health  
Center and Family  
Health Center in  
Grand Rapids.

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“The health fair was a great opportunity for students in health professions to learn from and with a variety of health disciplines in serving the community.”

— Julia Vander Molen,  
GVSU Assistant Professor,  
Allied Health Sciences

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## WMIPEI Health Fair

More than 50 health professional students and faculty from Grand Valley State University, Michigan State University College of Human Medicine, Ferris State University, University of Phoenix, and the Kent Intermediate School District Early College Program volunteered their time and expertise organizing and piloting the first annual West Michigan Interprofessional Education Initiative Partnership (WMIPEI) Community Health Fair held on March 20, 2014.

Through the efforts of WMIPEI's six champion workgroups, the concepts of interprofessional education (IPE) and collaborative practice (CP) are promoted in the region by threading IPE and CP through health professional curriculum, scholarship, service learning, virtual educational experiences, and cross-professional practice competencies. The central goal of WMIPEI is to foster collaborative, cost effective, patient-centered care in our community. The health fair was hosted by the WMIPEI service learning workgroup.

The fair, known to students and faculty as the IPE Health Fair, was designed in such a manner that students and faculty members worked in interprofessional teams to present information specific to the fair's theme: families and healthy lifestyles. The student teams created topic-specific booths with each academic discipline offering information based on their profession's focus. In addition

to the student booths, faculty members led four interprofessional panel discussions ranging in topics from healthy travel, healthy lifestyle, and healthy sports and recreation to success in school.

Students and faculty members from 10 professional health careers were represented at the health fair including allied health, human medicine, nursing, occupational therapy, optometry, pharmacy, physical therapy, public health, respiratory therapy, and therapeutic recreation.

Grand Valley allied health sciences Assistant Professor Julia VanderMolen stated, “The health fair was a great opportunity for students in health professions to learn from and with a variety of health disciplines in serving the community.” Grand Valley occupational therapy Assistant Professor Susan Cleghorn commented, “The faculty-led expert panel discussions provided students with the occasion to see health professionals working together and observe the scope of practice overlap that occurs throughout the various health professions.”

Because of high interest from students and faculty members from regional academic organizations, the WMIPEI service learning workgroup is planning to organize and host their second IPE community health expo on Tuesday, March 24, 2015, from 4–7 p.m. in the Grand River Room, Russel H. Kirkhof Center, Allendale Campus.

## YourHealth Lecture Series

Students, faculty members, and community members gathered for the “YourHealth Lecture Series” in February 2014 at Grand Valley State University’s Cook-DeVos Center for Health Sciences in Grand Rapids. The event was the result of a partnership with Grand Valley State University, Michigan State University College of Human Medicine, and Spectrum Health.

The evening agenda was twofold. Prior to the general lecture, students, faculty members, and guest lecturers were given the opportunity to join in a roundtable discussion focused on education, career interests, and health care experience. The main lecture, “How Can We Best Cope with Chronic Disease or Cancer,” was open to the general community. James Fahner, M.D., division chief, pediatric hematology/oncology at Helen DeVos Children’s Hospital and associate professor, MSU College of Human Medicine, set the stage for the evening’s

discussion; palliative care, an important part of treating patients who are suffering from the discomfort, pain, and stress associated with battling chronic disease or cancer, was the main focus of the discussion.

Ruthanne Brintnall, Ph.D., AOCN, CHPN, APRN-BC, associate professor at Grand Valley’s Kirkhof College of Nursing, spoke to the audience about the growing need for palliative care in our community and nation. Gizelle Saulnier Sholler, M.D., pediatric hematology and oncology specialist at Helen DeVos Children’s Hospital and associate professor, MSU College of Human Medicine, addressed the separation of palliative care and hospice care as well as the integration of palliative care and therapy. The audience had the opportunity to pose questions and concerns to the speakers in the question and answer period that followed.

Alzheimer’s disease will be discussed at the next YourHealth Lecture Series on Wednesday, November 12, 2014, at 7 p.m. in room 199 of Grand Valley’s Cook-DeVos Center for Health Sciences.

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**GVSU partners with Michigan State University College of Human Medicine and Spectrum Health to produce lecture series.**

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Panelists Saulnier Sholler, M.D.; Ruth Ann Brintnall, Ph.D., AOCN, CHPN, APRN-BC; and James Fahner, M.D. answer questions at 2014 YourHealth Lecture Series.





## RESEARCH AND GRANTS

Through the years, Grand Valley State University has received a number of significant research grants designed to help further the understanding and growth of health care and the health professions. The following are just a few examples of the research and scholarship taking place at Grand Valley that make the university the important resource it has become in so many health-related fields.



## The Affordable Care Act and Firm Behavior

Business professors, Leslie Muller, Ph.D. and Paul Isely, Ph.D., along with Grand Valley State University student co-author Adelin Levin, collaborated with Priority Health in surveying West Michigan businesses on their responses to the Affordable Care Act (ACA). The authors found that in response to the law, firms are changing their plans for health insurance, hiring, and part-time worker hours.

Over two-thirds of firms are or are considering passing along increased health care costs to their employees, switching to high deductible plans, and/or changing prescription drug benefits. Furthermore, almost one-third have decreased the hours of certain part-time workers, and about one-quarter have slowed down or put hiring on hold because of the ACA.

## ADVANCE Program

The grant-funded ADVANCE program is designed to increase the diversity of registered nurses in the West Michigan area. Focusing on the educationally and economically disadvantaged, the program helps prepare people for enrollment in and graduation from baccalaureate (B.S.N.) programs. To accomplish this purpose, collaboration between two associate degree programs (Muskegon Community College and Grand Rapids Community College) and the Kirkhof College of Nursing has resulted in formation of the comprehensive ADVANCE program. ADVANCE is in its last year of its four-year plan and more than 50 students have participated. Working with community college transfer students and associate degree in nursing graduates, the program takes into consideration individual communities and cultural parameters with specialized advising, support activities, and financial assistance. In early 2013, the colleges also generated recommendations for curricula that facilitate leveling of coursework and articulation agreements to smooth progression for students. These recommendations are currently being implemented.



## Wabi and Nikko Chairs

In the summer of 2006, Chuck Saylor injured his back and began physical therapy under the supervision of a Grand Valley State University physical therapy graduate, Doug Miller, M.S.P.T., S.C.S.. During that time, Saylor began to learn more about the role biomechanics play in postural alignment and physical well-being. He also began to consider how these concepts might be applied in chair design. In his role as the CEO of Izzy+, an office furniture company, Saylor recognized a shift in American lifestyle over the past 20 years in which Americans went from sitting roughly six hours a day to almost nine and one half hours a day. He also noted that sitting may have contributed to his back pain and that his therapist did an excellent job in educating him regarding the importance of proper posture during sitting.

Saylor realized that optimal sitting did not occur in many of the available office seating products because most existing office chairs attempted to promote postural alignment through some form of a low back/lumbar support. Thus, the idea of creating an alternately designed, totally novel chair was born. Consulting with Grand Valleys' Barb Hoogenboom, Ed.D., P.T., S.C.S., A.T.C., from the Department of Physical Therapy, and Boston designer Sara Cvek, who graduated from Harvard's School of Design, the team from Izzy+ has designed two revolutionary chairs. The task chair, named Wabi and the conference/classroom chair named Nikko, promote postural alignment from the "bottom up."

Wabi and Nikko debuted in February 2014 after more than six years in product development. There are patents pending for both chairs. The chairs retail for \$600–\$1,150, depending upon design options. Saylor has called these two products "the most significant products to come out of his firm since he started it 13 years ago." Hoogenboom believes that "bottom up sitting" could strongly influence mobility



The Wabi chair, a collaboration between the Grand Valley Department of Physical Therapy and Boston Designer Sara Cvek, was created to function in a conference room or classroom, promotes postural alignment.

and productivity in the workplace, and he has initiated research studies regarding comfort during sitting, pelvic positioning, and pressure mapping to compare these new chairs to others already on the market. Saylor and Hoogenboom hope that these revolutionary chairs will generate discussion about movement in the workplace, and be the spark for a new generation of chair design that more closely considers proper sitting biomechanics and optimal spinal alignment.

## Statewide Autism Resources and Training Project

The Grand Valley State University Psychology Department and the Autism Education Center received a grant from the Michigan Department of Education, Office of Special Education to help with its project, Statewide Autism Resources and Training (START). This state-funded project is designed to provide training, technical assistance, and resources to educators in Michigan who serve students with Autism Spectrum Disorder (ASD). The START project has been in place for 13 years through the support of the Michigan

Department of Education, Office of Special Education and, to date, has worked with all of Michigan's Intermediate School Districts.

The project includes three key components all supported through the implementation of evidence-based practices. First, Regional Collaborative Networks (RCN) provides the infrastructure for collaboration and coordination across school districts and intermediate school districts, allowing shared training and resources and systemic planning on a broad scale. Second, intensive training and technical assistance are provided to school districts using a team-based approach at the preschool, K-12, and secondary transition levels. Third, access to resources and information is promoted through the project website, conferences, leadership meetings, and summer institutes.

## Health Food Access

Grand Valley State University professors Lisa Sisson, M.M., R.D., and Lara Jaskiewicz, Ph.D., received an Interdisciplinary Research Initiative Grant from the GVSU Center for Scholarly and Creative Excellence for a project titled "Healthy Food Access Pre-Post a New Farmers' Market: Perceptions vs. Reality."

The purpose of the research is to determine the effect of the new Downtown Market in



Grand Rapids on the accessibility of fresh fruits and vegetables for nearby residents and on those residents' perceptions of healthy food accessibility.



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Faculty members  
David Huizen and  
Samah Mansour  
were awarded a  
**\$45,000**  
grant by the  
Michigan  
Occupational  
Safety and Health  
Administration.

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## Occupational Safety and Health

Michigan Occupational Safety and Health Administration Consultation, Education, and Training Division awarded a \$45,000 grant titled "A Novel Approach in the Delivery of Occupational Safety and Health Training for the Beverage Industry" to Co-PIs David Huizen and Samah Mansour. The project addresses a need for occupational safety and health (OSH) training in the craft beer industry in the State of Michigan. The industry was identified as one of the high hazard industries targeted by MIOSHA for increased scrutiny. The project will combine the efforts of Grand Valley's Seymour and Esther Padnos College of Engineering and Computing's Occupational Safety and Health Department with the college's School of Computing and Information Systems to develop and deliver online training in modules created on the specific tasks that are performed in a brewery. This approach is in contrast to the use of a traditional face-to-face issue-based safety and health training.



## Smoking Cessation and Weight Gain Research

A recent pattern of rising obesity coupled with declining smoking rates has generated interest in determining the extent to which smoking cessation is associated with weight gain. Using data from the Health and Retirement Study, Assistant Professor of Economics Kevin Callison, Ph.D., examined the association between smoking cessation and weight gain for individuals ages 50 to 85. Results indicate that smoking cessation is positively related to increases in individual weight, BMI, and the probability of being obese. However, these estimates are substantially reduced when controlling for time-invariant individual factors.

Additionally, Callison found evidence that the association between smoking cessation and weight gain is further diminished for those individuals who quit smoking shortly after experiencing a health shock.

In addition to Callison's work on smoking rates, he also researched Medicare-managed care spillovers and treatment intensity. Evidence suggests that the share of Medicare-managed care enrollees in a region affects the costs of treating traditional fee-for-service (FFS) Medicare beneficiaries; however, little is known about the mechanisms through

which these spillover effects operate. In his paper, he examines the relationship between Medicare-managed care penetration and treatment intensity for FFS enrollees suffering from an acute myocardial infarction (AMI). Callison found that increased managed care penetration is associated with a reduction in the average length of a hospital stay for AMI patients, a decrease in the probability of receiving an invasive surgical intervention, and a decrease in the probability of receiving a number of diagnostic procedures.

## Alzheimer's Research

Grand Valley State University Professor Rebecca Davis, Ph.D. along with Project Director Catherine Weisbeck, Ph.D., M.S.W.; Graduate Research Assistant Jennifer Ohman, RN, D.N.P.; Undergraduate Student Research Assistant Brandy Alexander B.S.N. in collaboration with Kevin Foley, M.D., Mercy Health-Saint Mary's, and the University of Michigan 3D Lab are currently working on a study funded through the National Institutes of Health: "Wayfinding in Aging and Alzheimer's Disease Within a Virtual Senior Residence."

Persons with Alzheimer's disease (AD) frequently have problems finding their way from one place to another — an ability called wayfinding. Persons even in the



early stages of AD are prone to getting lost. The collaborative study tests the effect of enhancing environments with more distinctive landmarks in order to improve wayfinding, so that individuals know where they are and can more easily find their way to desired locations.

This study is important because the current status of most senior residential environments is not supportive of wayfinding, with long, nondistinctive hallways and equally spaced doors, and insufficient environmental information to distinguish one area from another. In the study, older adults with and without AD are asked to find their way from one place to another in two computer simulations of a senior residential environment — one with special enhancements and one without the enhancements. The participants wear special eye tracking glasses that help the researchers analyze how the participants use the environmental information presented. Results of the study can help inform health care professionals and designers of environments how best to provide a more supportive environment for older adults with and without AD.

## Weight Management Program

In response to Governor Snyder's statewide health initiative targeting obesity, the

Michigan Department of Community Health (MDCH) partnered with Grand Valley State University's Office of the Vice Provost for Health to build an innovative, sustainable state model for interprofessional collaborative practice focused on an obesity intervention. To accomplish this work, MDCH applied for and was awarded a three-year \$1.5 million grant from the U.S. Health Resources Service Administration. The resultant West Michigan Interprofessional Collaborative Practice (IPCP) program and tools are used to educate students, faculty, and clinicians through interprofessional experiences such as online modules, case studies, huddles, and coaching. The IPCP weight loss program is being implemented in Grand Valley Kirkhof College of Nursing's Family Health Center and Wayne State University's Campus Health Center, both located in designated health professional shortage areas. Using the interprofessional collaborative practice model, each nurse-managed center is implementing a three-month weight management program for overweight and obese individuals. The interventions are based on best practices and national recommendations from experts in the field with a focus on overall wellness, nutrition, eating behaviors, and exercise. These interventions will support the governor's health initiative while also promoting the WMIPEI interprofessional care delivery model throughout Michigan.

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**GVSU partnered with Michigan Department of Community Health (MDCH), who was awarded a three-year \$1.5 million grant from the U.S. Health Resources Service Administration.**

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Interprofessional project team members Mark Armstrong D.O., Scott Berlin LMSW, Jessica VanDenToorn B.S., Phyllis Boone ANP, and Kevin Putschko B.S., collaborate on a case conference.





## ALUMNI HIGHLIGHTS

With more than 95,000 alumni from which to choose, narrowing down the field to a handful of those having the largest effects in the health professions is impossible. Instead, we've chosen a variety of high achievers who personify the dedication, determination, innovation, and effect for which Grand Valley health-related programs are known and respected. Whether they graduated last year or last century, we're proud of the difference our alums are making in the industry.





## Greg Loomis, '79 and '87, President, Mercy Health Muskegon

Greg Loomis, is connecting with his community to provide high-quality health care. Loomis, a Muskegon native, began working at Hackley Hospital in Muskegon through a high school co-op program. That opportunity exposed Loomis to the hospital setting and launched his career in health care.

Upon graduating from high school, Loomis continued his job at Hackley Hospital for two years before joining the U.S. Navy. After serving in the Navy, he returned to Muskegon and began taking business classes at Grand Valley State University. Loomis graduated with a business administration degree from Grand Valley and accepted a job at Muskegon General Hospital. Because of Loomis' hard work and drive, he was promoted within the hospital. "In each position, I had the opportunity to learn about a new function and help the hospital become more efficient for the benefit of our



Greg Loomis, '79 and '87

patients," said Loomis. During this time at Muskegon General Hospital, he also completed his Master of Business Administration (M.B.A.) degree from Grand Valley's Seidman College of Business. He was able to apply concepts he was learning in the classroom to his work at the hospital.



In his current role as president of Mercy Health Muskegon, Loomis continues to provide the lakeshore communities, from Spring Lake to Ludington, with quality health care leadership. Loomis values the Mercy Health partnership with Grand Valley, which provides clinical placements for the next generation of health care leaders. Throughout his career, Loomis has been dedicated to ensuring the future success and efficiency of the lakeshore's leading health care system.

## Henry Veenstra, '72 and '75, President, Spectrum Health Zeeland Community Hospital

Henry Veenstra, is a dedicated health care and community leader who cares about his patients. Veenstra, a Grand Rapids native and Air Force veteran, attended Grand Valley following service in the United States Air Force. Veenstra majored in business, and it was his senior internship that would influence his professional career and health care in West Michigan.

Veenstra received an internship at Zeeland Community Hospital and upon graduating from Grand Valley took a full-time job at the hospital. While working on his Master of Business Administration degree at Grand Valley, Veenstra was promoted to president of Zeeland Community Hospital in 1974. While Veenstra has seen many changes in health care during his 40-year tenure



Henry Veenstra, '72 and '75

as president of Spectrum Health Zeeland Community Hospital, patients are still his focus. As Veenstra said, "Our number one priority is patients and their families. We do this by recognizing that all patients are unique and have their own desires and needs. We then work with them to achieve these goals."

Veenstra has been collaborating with Grand Valley to provide nursing students, radiology students, physician assistants, and physical therapists with the educational experiences they need to be successful. This partnership, along with Veenstra's patient-centered approach, is enhancing health care in West Michigan.

## Dan Lorenz, '01

Grand Valley State University graduate Dan Lorenz D.P.T., PT, LAT, CSCS is one of the nation's leaders in the profession of physical therapy, specifically in the realm of sports physical therapy. Lorenz earned his master's degree in physical therapy from Grand Valley in 2001 and later a Doctorate of Physical Therapy with an emphasis in manual therapy at the University of St. Augustine, Florida. He has volunteered as an athletic trainer and physical therapist at the U.S. Olympic Training Center. In 2004–2005, he completed a sports physical therapy fellowship at Duke University. At the end of his residency, the NFL's Kansas City Chiefs hired Lorenz as an assistant athletic trainer and physical therapist. Lorenz has since opened his own private practice, Specialists in Sports and Orthopedic Rehabilitation, located in Kansas City, Missouri. He has continued to serve as a consultant for Major League Baseball and National Football League organizations regarding rehabilitation and strength and conditioning.



Dan Lorenz, '01

In February 2014, Lorenz was honored by the president of the Sports Physical Therapy Section at the Combined Sections Meeting of the American Physical Therapy Association held in Las Vegas. Lorenz not only served as a prestigious presenter at the conference, but he also received the first Presidential Award for Outstanding Special Interest Group (SIG) Chair. Lorenz received this award for his work as the chairperson of the Sports Performance Enhancement SIG, an area of practice near to his heart.

He is currently in the process of getting a nonprofit organization—Athlete's Sports Performance Injury Reduction and Education Foundation (ASPIRE) — off the ground. Founded by Lorenz the organization educates parents, coaches, and athletes on injuries and injury prevention.

Lorenz is definitely someone the Grand Valley community can be proud of. As a role model for current students of any profession, his dedication to excellence, his strong work ethic, and eagerness to give back to his profession are inspirational.

## Brian Gilbert, '99 and '01, Clinic Manager, Senior Director of Physical Therapy at The Center for Physical Rehabilitation

Brian Gilbert, PT, MSPT, OCS, Cert. MDT, is changing the course of physical therapy. As the senior director of clinical services at The Center for Physical Rehabilitation, with offices across West Michigan, he oversees the clinical services offered at the center and ensures patients receive the best care. His desire to place patients first led to his appointment by Governor Snyder to serve as the Vice Chair for the Michigan Board of Physical Therapy. He now assists in overseeing licensing and regulation at the state level.



Brian Gilbert, '99 and '01

Gilbert not only strives to improve physical therapy at the state level, but also helps shape the lives of future physical therapists. He has served as an adjunct professor at Grand Valley and connected his employer with the university. The Center for Physical Rehabilitation provides clinical placements to physical therapy students and hires Grand Valley alumni.

Gilbert is influencing the health field by helping people achieve their goals to be pain-free and self-sufficient. His willingness and desire to empower people to be the

best they can be show his dedication and drive. "I love the challenge and making a difference in people's lives," he said. "When you have an individual who is unable to stand alone and then is able to do it by himself, that is when you know you are making a difference."

## Susan Mammina, '80, Director of Laboratory Operations at Spectrum Health Hospitals

Susan Mammina is a Grand Valley State University alumnus and community leader currently serving as the director of laboratory operations at Spectrum Health Hospitals. Since 2001, Mammina has played a significant role in directing the laboratory business in West Michigan for the hospital's inpatient and outpatient community services. Mammina earned her bachelor's degree in medical technology at Grand Valley and completed a clinical internship at St. Joseph Mercy Hospital in Pontiac, Michigan. She earned a master's degree in management from Aquinas College in 1987.

Mammina's current responsibilities are vast with oversight and planning for Spectrum Health Grand Rapids labs, which include Spectrum Health Regional Laboratory, Blodgett Hospital, and Spectrum Health Advanced Technology Laboratories. She also collaborates with the administration and management of seven other Spectrum Health Regional Laboratories from Greenville to Ludington. Services that are affected by operation of these laboratories include routine laboratory testing as well as testing for important specialty programs, such as adult bone marrow, heart, and lung transplantation; pediatric hematology oncology; neonatal services; and the burn program.

Mammina's attitude and administrative style display a focus on patient-centered care and commitment to laboratory diagnostic

excellence for the people in Grand Rapids and the surrounding communities. In 2013, Mammina received the Synergy Award from Spectrum Health in recognition of her efforts leading to the greatest operational impact at Spectrum Health. She has co-authored and published an article, "Consolidation of Laboratories: So Much More than Moving Tests," on this topic in *Executive Insight: Strategies and Solutions for Health Care Leaders*.

Mammina's daughter Lauren Mammina



Susan Mammina, '80 and Lauren Mammina, current GVSU student

is following in her mother's footsteps as a Grand Valley student. Lauren Mammina was attracted to Grand Valley because of the reputation of the physician assistant studies program in the College of Health Professions. Lauren Mammina is confident that a quality science background from Grand Valley will enable her to be competitive and successful in her career endeavor as she moves forward with the next step — applying for dental school. "My mom has inspired me and been an influence in directing me toward choosing a career in health care," she said, summing up what her mother's leadership means to her. "I look up to her example and am excited for a future as a health professional as well."

## **Sondra Stegenga, '00 and '02, Infant Development Program Supervisor, Early On Coordinator, Ottawa Area Intermediate School District Infant Development Program**

Sondra Stegenga, is an advocate for children and their families. Stegenga came to Grand Valley after a summer job working with an occupational therapist to pursue her dream and graduated with a Master of Science in occupational therapy degree. "Grand Valley provided me with the critical thinking skills needed to make decisions for the benefit of my patients," she said. The ability to think critically has assisted Stegenga in her work with individuals with brain injuries and children with



**Sondra Stegenga, '00 and '02**

disabilities. In her current role as the infant development program supervisor at Ottawa Area Intermediate School District Infant Development Program in Michigan, she oversees 41 staff members who help children with developmental delays or disabilities receive the support and resources they need for growth. This position allows her to encourage interprofessional and interagency collaboration for the benefit of the children and their families.

Because of her commitment to children, Stegenga is involved in a number of statewide and local initiatives. Governor Rick Snyder appointed her to the Infants and Toddlers with Disabilities Council for Michigan. This appointment allows her to help the state guide evidence-based practice to support children with disabilities. In addition, she has given her time and expertise to Grand Valley by talking to health care students and serving on the GVSU Occupational Therapy Board. Her expertise and desire to help children and families are changing health care in Michigan.

## **Karen Roberts Burritt, '83 and '03, Mercy Health Saint Mary's Hauenstein Neuroscience Center and Assistant Professor Kirkhof College of Nursing**

Karen Roberts Burritt, is teaching and practicing with the next generation of nursing leaders. Roberts Burritt always knew she wanted to be a nurse. She received her Bachelor of Science in nursing and Master of Science in nursing degrees from Grand Valley because, she says, "Grand Valley felt like home." Grand Valley also was the place where faculty members encouraged and challenged her and because of this she pursued and graduated with her Ph.D. in nursing from Michigan State University in 2011.

Upon receiving her Ph.D., Roberts Burritt returned to Grand Valley to teach and practice in the Kirkhof College of Nursing. Her joint appointment faculty position allows her to teach at Grand Valley and practice at Mercy Health Saint Mary's Hauenstein Neuroscience Center as a neurology nurse practitioner. As Roberts Burritt said, "Teaching helps to inform my practice and practice helps to inform my teaching, which I believe makes me a better nurse educator." In this role, she is able to



**Karen Roberts Burritt, '00 and '02**

educate current students about nursing, demonstrate best practices in nursing to nurse practitioners, and conduct research for the benefit of patients. She truly is redefining what it means to be an educator and practitioner to positively affect the nursing profession.

## **Kris Cooper, '97 and '99, Clinic Director, Physiotherapy Associates, Kalamazoo, Michigan**

Kris Cooper, a lifelong learner and educator, is sharing his knowledge with the next generation of physical therapists. Attending Grand Valley, Cooper knew he wanted to be a physical therapist, and, after receiving his Bachelor in Health Sciences degree, continued on and graduated with his Master of Science in physical therapy degree.

He completed a residency-based doctoral program in San Diego and a postdoctoral fellowship program through the American Academy of Orthopaedic Manual Physical Therapists (AAOMPT).





Kris Cooper, '92 and '99

Being an AAOMPT Fellow and the clinic director at Physiotherapy Associates in Kalamazoo, Michigan, Cooper is influencing health care by treating patients, teaching physical therapists, and advocating for the profession at the local and state levels. "Our goal is to empower people to get their normal lives back when injury has taken them away," Cooper said. He truly is living out his life's mission and continuing to help and educate others along the way.

### **Michael McClain, '93, '97, and '02, Manager, Eveia Health Consulting & Management, LLC, Seattle, Washington**

Michael McClain, is dedicated to creating positive patient experiences. McClain grew up in Lansing, Michigan and was the first member in his family to attend college. As a high school student, he was interested in health care and decided to major in biomedical sciences at Grand Valley. Upon graduation, McClain knew he wanted to continue to learn and improve people's lives. This led him back to Grand Valley where he graduated with a Master in Health Science degree followed by a Master of Physician Assistant Studies degree.

McClain's diverse educational background helped him as he moved from hospitalist physician assistant, to chief executive officer for OakLeaf Surgical Hospital (OLSH), to his current role as a manager at Eveia Health Consulting & Management, LLC. Throughout these experiences, McClain has continued to put patients first. As the CEO of OLSH, he restructured the hospital to maximize patient safety and satisfaction, which in August 2009 resulted in the hospital being rated number one among 3,415 hospitals in the country for inpatient satisfaction as reported by the Consumer Reports Health study of Medicare's Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) survey of patient visits in 2008.



Michael McClain, '93, '97, and '02

McClain used his education and experience to effectively make positive changes for the benefit of the patients, and now he has the opportunity to do this each day at Eveia Health Consulting & Management, in Seattle, Washington. In his role, McClain has the opportunity to help hospitals, surgery centers, and physician practices in 43 states become more efficient, provide better patient outcomes, and continually improve health care.



## 2013 PUBLICATIONS, PRESENTATIONS, AWARDS, AND FACULTY ACHIEVEMENTS

The following pages list the publications, presentations, awards, and faculty member achievements that took place during the 2013-2014 academic year. The depth and breadth of the work being done by Grand Valley faculty members in the health professions is impressive and worthy of recognition and celebration.



## Publications: Peer-reviewed Journal Articles

- Baker, B. J., Curtis, A., Trueblood, P., & Vangness, E. (2013). Vestibular functioning and migraines: Comparing those with and without vertigo, a pilot study. *Journal of Laryngology and Otology*, 127, 1056-1064.
- Baker, B. J., Curtis, A., Trueblood, P., & Vangness, E. (2013). Vestibular functioning and migraines: Comparing those with and without vertigo to a normal population. *Journal of Laryngology and Otology*, 127, 1169-1176.
- Borders, S., Edwards, J., & Miller, A. (2013). Lessons from patchwork nation: A new framework for building community indicators. *Foundation Review* 5(3), 14-27.
- Borders, S. B. (2013). Location, location — connecting people faster to HIV services [map]. *UNAIDS*, 52.
- Callison, K. & Kaestner, R. (January 2014). Do higher tobacco taxes reduce adult smoking? new evidence of the effect of recent cigarette tax increases on adult smoking. *Economic Inquiry*, 52(1), 155-172.
- Dillard, A. J. & Main, J. L. (2013) Using a health message with a testimonial to motivate colon cancer screening: Associations with perceived identification and vividness. *Health Education & Behavior*, 40, 673-682.
- Dillard, A. J., Scherer, L., Ubel, P. A., Smith, D. M., Zikmund-Fisher, B. J., & Fagerlin, A. et al. (2013). Effects of breast cancer anxiety on risk perception, knowledge, and behavioral intentions in a breast cancer chemoprevention decision. *Social Science & Medicine*, 77, 13-19.
- Dillard, A. J., Magnan, R. E., Köblitz, A. R., & McCaul, K. D. (2013). Perceptions of smokers influence nonsmoker attitudes and preferences for interactions. *Journal of Applied Social Psychology*, 43, 823-833.
- Farris, J., & Fauvel, A. M. (2013). Reflections on an interdisciplinary, community-based, team-taught adventure. *The Journal of Continuing Higher Education*, 58(1), 40-46.
- Green, M., Shoemaker, M. J., Basore, T., & Polso, A. (2013). Physical therapist professional autonomy, medical malpractice, and adverse professional license action: Results from a twenty-year review of the National Practitioner Data Bank. *Physical Therapy Journal of Policy, Administration, and Leadership*, 13(3), J1-J10.
- Goehring, M. T., & Green, M. (2013). Assistive devices: An update and continuing education module. *PT Today*, 7(3), 22-27.
- Jaskiewicz, L. J., Dombrowski, R., Drummond, H., Massuda Barnett, G., Mason, M., & Welter, C. (2013). Partnering with community institutions to increase healthy food access across jurisdictions. *Preventing Chronic Disease*, 10. www.cdc.gov/pcd/issues/2013/13\_0011.htm
- Kenyon, L. K., Farris, J., Hoque, M., Radhakrishnan, V., Schutte, K., Sunny, N., Proctor, K., & Ripmaster, C. (2013). Enhancing mobility and exploration in young children with motor delays. *Pediatric Physical Therapy*, 4(25), 480.
- Kenyon, L. K. (2013). The hypothesis oriented pediatric-focused algorithm: A framework for clinical reasoning in pediatric physical therapist practice. *Physical Therapy*, 93, 413-420.
- Kenyon, L. K., Dole, R. L., & Kelly, S. P. (2013). Perspectives of academic faculty and clinical instructors on entry-level DPT preparation for pediatric physical therapist practice. *Physical Therapy*, 93, 1661-1672.
- Kenyon, L. K., Brooks, S., Semelbauer, A., Rustem, K., Baker, B. J., & Ashby, B. M. (2013). The impact of a visual target on children's limits of stability in sitting: A pilot study. *Pediatric Physical Therapy* 1(25), 107-108.
- Kinne, B. L. (2013). Evaluation and treatment of lateral canal benign paroxysmal positional vertigo. *Physical Therapy Reviews*, 18, 225-226.
- Magnan, R. E., Köblitz, A. R., McCaul, K. D., & Dillard, A. J. (2013). Self-monitoring effects of ecological momentary assessment on smokers' perceived risk and worry. *Psychological Assessment*, 25, 416-423.
- Nagelkerk, J., Peterson, T., Pawl, B., Teman, S., Anyangu, A. C., Mlynarczyk, S., & Baer, L. (2014). Patient safety culture transformation in a children's hospital: An interprofessional approach. *Journal of Interprofessional Care*, 1-7 23(5), 285-9. doi: 10.3109/13561820.2014.885935.
- Pocratsky, J., Ashby, B. M., & Beasley, J. (2014) Upper extremity kinematics in sonographers during kidney scanning. *Journal of Diagnostic Medical Sonography*, 30(2), 67-76.
- Poulin, M. J., Brown, S. L., Smith, D. M., & Dillard, A. J. (2013). Giving to others and the association between stress and mortality. *American Journal of Public Health*, 103, 1649-1655.
- Shoemaker, M. J., Curtis, A., Vansgnes, E., & Dickinson, M. (2013). Clinically meaningful change estimates for the six-minute walk test and daily activity in individuals with chronic heart failure. *Cardiopulmonary Physical Therapy Journal*, 24(3), 21-30.



Shoemaker, M. J., Keenoy, B., Smith, B., & Slotman, P. (2013). Interventions to improve daily activity in individuals with COPD and CHF: A systematic review. *World Journal of Cardiovascular Diseases*, 3, 275-286.

Shoemaker, M. J., Curtis, A., Paul, R., Dickinson, M. G., Polso, A., & Sinha, K. (2013). Longitudinal daily activity patterns in individuals with chronic heart failure: Derivation and association with prognosis and clinical characteristics. *Cardiopulmonary Physical Therapy Journal*, 24(4), 25-33.

Shoemaker, M. J., Gibson, C., & Hoffman, S. (2013). Preoperative rehabilitation in individuals undergoing total knee arthroplasty: The state of the evidence. *Topics in Geriatric Rehabilitation*, 29(1), 2-16.

Stickler, L., Grapczynski, C., & Ritch, J. (2013). Student perceptions of outcomes from participation in physical therapy pro bono clinics: A qualitative study. *Journal of Allied Health*, 42(1), 46-55.

Tusch, G., Tole, O., Kutsumy, Y., Sam, V. K., & Mamidi, L. (2013). Finding temporal gene expression patterns for translational research. *Studies in Health Technology and Informatics*, 192, 1173.

Vetter, L., Beasley, J. A., Ashby, B. M., Bullockk, H., Conroy, C., & Pocratsky, J. (2013). Variation of pinch and grip force between different size transducers: A preliminary study. *Journal of Diagnostic Medical Sonography*, 29(6), 245-252.

Wu, M., Guffey, S., Takacs, B., & Michael, K. Comparison of noise reduction of hearing protectors between fit test and coal mine work. *Noise and Health*.

Wu, M., Guffey, S., Takacs, B., & Michael, K. (2013). Variability in fit test result for earplugs and the fraction of noise exposure dose of coal miners due to failure to wear. *International Journal of Occupational Hygiene*, 5, 123-131.



## Publications: Books, Chapters in Books

Fox, E. A., & Leidig, J. P. (2014). *Digital library applications*. In Edward A. Fox & Jonathan P. (Eds.). San Francisco: Morgan & Claypool. <http://dx.doi.org/10.2200/S00565ED1V01Y201401ICR032>.

Glass S., Hatzel B., & Albrecht R. (2014). *Kinesiology for dummies*. New York City: Wiley Publishing.

Leidig, J. P., Lee, S., & Park, S. H. Bioinformatics, scientific, and simulation digital libraries. In Edward A. Fox & Jonathan P. Leidig (Eds.), *Digital library applications*. San Francisco: Morgan & Claypool.

## Presentations and Conference Proceedings

Baker, B. J., Curtis, A., Trueblood, P., & Vangness, E. (2013). Vestibular functioning and migraines: Comparing those with and without vertigo to a normal population. *Platform Presentation at the American Physical Therapy Association Combined Sections Meeting*.

Baker, B. J., Curtis, A., Trueblood, P., & Vangness, E. (2013). Vestibular functioning and migraines: Comparing participation in those with and without vertigo on a measure of participation. *Platform Presentation at the Michigan Physical Therapy Association Fall Conference*. Southfield, MI.

Barakat, N., Sunny, N., & Hasan, M. (2014). Ethics of regulated biomedical device design. *ASEE Annual Conference*. Indianapolis, IN.

- Bjorum, J.M., Ashby, B., and Gates, M. (2013). Evaluation of patients with lumbar spinal stenosis using the gait deviation index and limits of stability test. *Midwest Biomedical Engineering Career Conference*. Chicago, IL.
- Bozio, R., Peck, A., Rhodes, S. S., & Chang, A. (2013). A system for preclinical imaging facility management and data processing. *Proceedings of the World Molecular Imaging Congress*. Savannah, GA.
- Brew, Ranelle. (2013). Service learning through international partnership: Grand Valley State University and SHAWCO Health, South Africa. *Health, Wellness and Society Conference*. Vancouver, Canada.
- Bullock, H., Vetter, L., Ashby, B., Conroy, C., Pocratsky, J., & Beasley, J. (2013). Variation of pinch and grip force between different size transducers and the related perception of pain experienced by sonographers. *American Society of Hand Therapists 36th Annual Meeting*. Chicago, IL.
- Foster, J., Ramsson, E. S., & Rhodes, S. S. (2013). Design of a portable fast scan cyclic voltammetry system for measuring neurotransmitter levels. *Proceedings of the Biomedical Engineering Society Annual Conference*. Seattle, WA.
- Green, M., Shoemaker, M. J., Basore, T., & Polso, A. (2013). Physical therapist professional autonomy, medical malpractice, and adverse professional license action: Results from a twenty-year review of the National Practitioner Data Bank. *Platform Presentation at the American Physical Therapy Association Combined Sections Meeting*.
- Green, M., & Goehring, M. (2013). Use of a stair-climbing walker: A case report. *Poster Presentation at the Michigan Physical Therapy Association Fall Conference*. Southfield, MI.
- Goehring, M. (2013). Biomechanics of skin shearing: Prevention and treatment. *Educational Session at the Association for the Advancement of Wound Care Fall Meeting*.
- Harro, C. C., Shoemaker, M. J., Frey, O., Gamble, A., Harring, K., McDonald, J., Murray, C., & VanDyke, J. (2013). Effects of two externally-cued locomotor training protocols on gait and balance function in individuals with idiopathic Parkinson's disease: A randomized controlled trial. *Poster Presentation at the American Physical Therapy Association Combined Sections Meeting*.
- Harro, C. C., & Gamble, A. (2013). Application of an innovative and interactive gaming system in individualized therapeutic intervention: A case series. *Educational Session at the Michigan Physical Therapy Association Fall Conference*.
- Hasan, S., Bisset, K., Fox, E. A., Hall, K., Leidig, J. P., & Marathe, M. V. (2013). An extensible digital library service to support network science. *International Conference on Computational Science*. Barcelona, Spain.
- Hoogenboom, B. J., & Logerstedt, D. (2013). Lower extremity outcome measures. *Educational Session at the Sports Physical Therapy Section Team Concept Conference*.
- Kenyon, L. K., Brown, J., Hatch, J., Reynolds, N., & Ozga, K. (2013). Clinical instructors' perspectives of an intermediate pediatric clinical experience: A pilot study. *Poster Presentation at the Michigan Physical Therapy Association Fall Conference*. Southfield, MI.
- Kenyon, L. K., Farris, J. P., Hoque, M. H., Radhakrishnan, V., Schutte, K., Sunny, N., Proctor, K., & Ripmaster, C. (2013). Enhancing mobility and exploration in young children with motor delays. *Poster Presentation at the Section on Pediatrics Annual Conference*. Anaheim, CA.
- Kenyon, L. K., Brooks, S., Rustem, K., Semelbauer, A., Baker, B., & Ashby, B. M. (2013). The impact of a visual target on children's limits of stability in sitting: A pilot study. *Poster Presentation at the American Physical Therapy Association Combined Sections Meeting*. San Diego, CA.
- Kenyon, L. K., Dole, R. L., & Kelly, S. P. (2013). Perspectives of academic faculty and clinical instructors on entry-level preparation for pediatric physical therapist practice. *Poster Presentation at the American Physical Therapy Association Combined Sections Meeting*.
- Kenyon, L. K., Hannum, N., Proctor, K., Roberts, K., Farris, J., Ripmaster, C., & Peck, J. (2013). Promoting self-exploration and function through an individual mobility program: A case report. *Platform Presentation at the Michigan Physical Therapy Association Fall Conference*. Southfield, MI.
- Kinne, B. L., Crouch, N. A., & Strace, C. L. (2013). Anterior canal benign paroxysmal positional vertigo treatment techniques: A systematic review. *Poster Presentation at the American Physical Therapy Association Combined Sections Meeting*. San Diego, CA.
- Kinne, B. L. (2013). Benign paroxysmal positional vertigo: Evidence-based evaluation and treatment techniques. *Educational Session at the Michigan Physical Therapy Association Fall Conference*. Southfield, MI.
- Kinne, B. L., Strace, C. L., & Crouch, N. A. (2013). The effectiveness of current interventions in the management of lateral canal benign paroxysmal positional vertigo: A systematic review. *Poster Presentation at the American Physical Therapy Association Combined Sections Meeting*. San Diego, CA.
- Kinne, B. L., Dulin, C. E., Mitchell, J. M., & Poppaw, K. N. (2013). The effectiveness of yoga as an intervention in the treatment of patients with chronic low back pain: A systematic review. *Poster Presentation at the Michigan Physical Therapy Association Fall Conference*. Southfield, MI.
- Kinne, B. L. (2013). Using a reverse Brandt-Daroff exercise in the treatment of anterior canal benign paroxysmal positional vertigo. *Poster Presentation at the Michigan Physical Therapy Association Fall Conference*. Southfield, MI.

Leidig, J. P., Kutsumi, Y., O'Hearn, K. A., Sauer, C. M., Scripps, J. A., & Wolffe, G. S. (2013). Applying mobile datasets in computational public health research. *3rd International Conference on the Analysis of Mobile Phone Datasets (Netmob)*. Boston, MA.

Leidig, J. P. (2013). Agent-based health modeling. *Bioinformatics and Computational Biology Mini-Symposium*. Allendale, MI

Leidig, J. P., & Fox, E. A. (2013). Formal foundations for systematic digital library generation. *ACM/IEEE Joint Conference on Digital Libraries*. Indianapolis, IN.

Leidig, J. P. (2013). Modeling, simulating, and predicting diseases and populations. *Michigan Premier Public Health Conference*. Bay City, MI.

Leidig, J. P., & Eckard, J. M. (2013). Utilization and refinement of standard curation models. *76th Association for Information Science and Technology (ASIS&T) 2013 Annual Meeting*. Montreal, Canada.

Leidig, J. P. (2013). Very large digital libraries. *Big Data Conference*. Allendale, MI.

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## Awards and Honors

Amanda Dillard, Ph.D., received the Distinguished Early Career Scholar Award from The Center for Scholarly and Creative Excellence at Grand Valley State University.

Meri Goehring, Ph.D., received publication recognition at the Spectrum Health Synergy Award Conference.

Dianne Green-Smith, Ph.D., received a Certificate of Completion of The Leadership Academy in Aging, presented by The Social Work Leadership Institute of The New York Academy of Medicine and The National Association of Deans and Directors (2012-2013).

Bonni Kinne, Ph.D., received an outstanding case report poster presentation recognition at the Michigan Physical Therapy Association Fall Conference.

Michael Shoemaker, Ph.D., and Mary Green (along with students Tiffany Basore and Alyssa Polso from the Class of 2014) received an outstanding platform presentation recognition at the American Physical Therapy Association Combined Sections Meeting.

Robin L. Smith-Colton, Ph.D., received the Teacher's Academy Fellowship Program from the American Psychoanalytic Association.

The West Michigan Interprofessional Education Initiative received the Building Michigan's Health Care Workforce Award for Community Collaboration, presented by the Michigan Health Council (2013).



## Faculty Achievements and Updates

Ranelle Brew, Ph.D., received multiple grants for the 2014 Summer Health Activities and Professions Exploration (sHaPe) camp, totaling more than \$20,000 thus far. This sponsored, weeklong camp, offered through the College of Health Professions and the Regional Math and Science Center, provides middle-school aged boys and girls an introduction to the Health Professions. Grant funding was received from Meijer, Inc., Mercy Health, Lake Michigan Credit Union, and the Kent County Medical Society Alliance.

Ranelle Brew, Ph.D., led an interdisciplinary service learning study abroad trip to Kenya in May 2014, with eight students from the Public Health (PH) program and the Allied Health Sciences (AHS) major, working in local hospitals and public schools.

Azizur Molla, Ph.D., associate professor in the master of public health (MPH) program, traveled in March to the Great Lakes Chapter of the Society for Public Health Education (GLC SOPHE) conference in Howell, Michigan with 11 MPH students.

Azizur Molla, Ph.D. led the Honors College study abroad trip to Ghana this summer with 12 students.

Jody Vogelzang, Ph.D., assistant professor for the Master of Public Health program and program director for the upcoming master of clinical dietetics program, has recently been appointed as a founding member of the editorial board for *Pedagogy in Health Promotion: The Scholarship of Teaching and Learning*. She will provide editorial expertise in the area of instruction and experiential learning.

The American Public Health Association appointed Jody Vogelzang, Ph.D., to a two year term as councilor of the Public Health Ethics section. In this position Vogelzang will be responsible for plans, scope, and policy of the Ethics Section and will advise on the publication of papers and reports presented at the Section meetings.

George Grant, Jr.



Roy Olsson



Frederick Antczak



Cynthia McCurren



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