On the cover: Electron microscope image of developing mouse brain cells from the laboratory of George A. Spirou, Ph.D., director of the WVU Center for Neuroscience. Dr. Spirou’s research, in collaboration with researchers at the University of California – San Diego, is developing nanoscale-resolution video images of the developing auditory brainstem. The technique permits visualizing the wiring of the brain in 3D with resolution of several nanometers, or about the size of a protein molecule.

“The era of really big data has come to biology through studies of brain structure; it’s very cool and challenging, made possible by advances in computing speed but pushing the need for even faster computers and rapid access storage of huge files. We are on the road to understand more about what’s happening within the brain as it develops. This new field of mapping brain circuitry at the nanoscale is called Connectomics,” Spirou said. “It’s opening new ways to look at brain-based disorders, such as epilepsy, schizophrenia, depression, etc. Eventually, as image volumes become much larger, we’ll be able to see where the human brain’s wiring went wrong and understand the neural basis for these pathologies. This is just the first step, but it’s a big step.”
HSC 2020 Strategic Plan

Contribute to the health of West Virginians through leading edge research programs that distinguish HSC

Goal 1: Attract and retain the “best and brightest” faculty, staff, and students
Goal 2: Establish scientific infrastructure/partnerships that transform the research culture at HSC
Goal 3: Use commercialization of intellectual property to stimulate and expand research resources

Promote a vibrant environment devoted to diversity, learning & scholarship

Goal 1: Become a national leader in developing inter-professional education and patient care model(s)
Goal 2: Establish national and global collaborations to enhance our faculty, staff, and student experiences
Goal 3: Reward nationally recognized leaders amongst faculty, staff and students
Goal 4: Dramatically enhance diversity and cultural competency among our faculty, staff, and students

Raise the health status of West Virginians

Goal 1: Create a dynamic partnership between health care systems and public health that improves the health status of West Virginians.
Goal 2: Establish a School of Public Health in order to transform the lives of West Virginians and eliminate health disparities.
Goal 3: Build a high quality workforce that meets the health care and public health needs of West Virginians.

Foster a culture of high purpose, accountability & accomplishment

Goal 1: Create an integrated academic health sciences system that includes all disciplines and campuses
Goal 2: Build a management infrastructure that is nimble, transparent, and accountable.
Goal 3: Diversify financial resources to invest in our future
Goal 4: Create an environment that values and promotes volunteerism

Deliver high quality, effective patient-centered care
Transforming Lives
It was a proud moment for West Virginia University – and our entire state – when the first graduates of the new School of Public Health walked across the stage to receive their diplomas in May. They each left this campus with new tools to improve the lives of individuals, communities, and entire populations. Each will share in accomplishing our overarching mission at the Robert C. Byrd Health Sciences Center: Transforming Lives and Eliminating Health Disparities.

They join with the thousands of alumni of our Schools of Medicine, Dentistry, Nursing, and Pharmacy as the most powerful evidence of our academic health center’s impact on the character, abilities, and careers of people who come to us for education.

I am honored to be a part of the Mountaineer tradition of excellence and service. In the pages of this 2012-13 Annual Report, you will learn about the accomplishments of our students, faculty, and staff in the past year.

Our deans and other leaders worked tirelessly to preserve the essential teaching, research, health care, and service activities of our institution in light of the serious budget issues that our state faced during the past year. We anticipate similar challenges in the coming years. We have enlisted the assistance of people from across all of our campuses and schools to identify both new sources of revenue and opportunities to work more efficiently and effectively.

None of these challenges have distracted us from the priorities and goals we established in our HSC 2020 Strategic Plan. Throughout this report, you will see that our initiatives and activities are tied to that plan.

We remain at the service of West Virginia and its people.

Christopher C. Colenda, MD, MPH
Chancellor for Health Sciences
Leadership positions filled at the Health Sciences Center during the year included:

**Betty Shelton, RN, PhD**

Dr. Shelton was selected as Interim Dean of the School of Nursing after previous dean, Georgia L. Narsavage, PhD, CRNP, FAAN, stepped down in December 2012. Dr. Shelton has been a member of the School of Nursing faculty since 2000 and is nationally recognized as a leader in nursing education. A national search for the Dean of Nursing continues.

**Jeffrey Coben, MD**

Dr. Coben was appointed as Interim Dean of the School of Public Health. He has served as the Vice Chair for Research in the Department of Emergency Medicine, as a professor in the Department of Health Policy, Management & Leadership in the School of Public Health, as well as Director of the Injury Control Research Center for West Virginia University. A national search for the Dean of Public Health continues.

**Charles L. Rosen, MD, PhD**

Dr. Rosen was chosen as the successor for the Chair of the Department of Neurosurgery in the School of Medicine after serving as interim chair since September 2011. Dr. Rosen originally
joined the department in 2001 and has held several positions within the department. He completed his master’s and doctorate degrees at New York University Graduate School of Arts and Sciences, and his medical degree at the New York University School of Medicine.

Ronald L. Gross, MD

Dr. Gross was appointed as the Chair of the Department of Ophthalmology and Director of the WVU Eye Institute. A 1982 graduate of WVU’s School of Medicine, he returned to his alma mater in the first half of 2013 after leaving his faculty position at Baylor College of Medicine.

Larry Rhodes, MD

Dr. Rhodes was selected as the Chair of the WVU School of Medicine Department of Pediatrics and Physician-in-Chief of WVU Children’s Hospital. He is also the Director of the WVU Institute for Community and Rural Health. Dr. Rhodes received his medical degree from the WVU School of Medicine and completed residency training at WVU. He also completed fellowship training in pediatric cardiology and pediatric electrophysiology at Boston Children’s Hospital.

Manuel C. Vallejo Jr., MD, DMD

Dr. Vallejo was named Chair of the Department of Anesthesiology in June. He is a WVU School of Medicine graduate, and completed his residency training in Anesthesiology at Pittsburgh’s UPMC Mercy Hospital. Before accepting his new position at WVU, he was a professor of anesthesiology at the University of Pittsburgh.

Don Nakayama, MD, MBA

Dr. Nakayama was chosen as the new Chair for the Department of Surgery in June 2013. Before coming to West Virginia, Dr. Nakayama was the Chair of the Department of Surgery and the Milford B. Hatcher Professor of Surgery at the Mercer University School of Medicine in Macon, GA. He is a graduate of Stanford University, and earned his medical degree at the University of California, San Francisco. He later received an MBA from the University of North Carolina.

GOAL 1: Attract and retain the “best and brightest” faculty, staff, and students.
GOAL 2: Establish scientific infrastructure/partnerships that transform the research culture at HSC

Contribute to the health of West Virginians through leading edge research programs that distinguish WVU HSC

Clinical and Translational Science - In August 2012, the Health Sciences Center announced that the West Virginia Clinical and Translational Science Institute (WVCTSI) would be receiving a $19.6 million grant from the NIH Institutional Development Award Program for Clinical and Translational Research (IDeA-CTR). With other funding committed, the award totals $53.1 million over the next five years. The grant allows for 24 new physician scientists and 22 staff and professional positions to be hired in the next year. During the first year $650,000 was awarded in pilot grants to 14 WVCTSI faculty members.

WVCTSI awarded a $50,000 pilot grant for a collaborative research project between the WVU Charleston Division and the University of Kentucky with support by CAMC Institute. The award is the first received of its kind from WVCTSI to support pilot projects on the WVU Charleston Division and CAMC Health System campuses. The collaborative study deals with treatment methods for gallbladder dyskinesia, a disease where the gallbladder does not completely empty causing nausea and pain the abdomen.
**Cardiovascular Disease Research** - Taura Barr, PhD, RN, Assistant Professor in the School of Nursing, Department of Emergency Medicine and the Prevention Research Center, was awarded $350,000 from the Robert Wood Johnson Foundation Nurse Faculty Scholars Program. Dr. Barr’s research uses genomics to identify biological markers of cardiovascular disease, understand their relationship with post-stroke inflammation, and determine what environmental factors may contribute to health disparities in underserved populations. Dr. Barr was one of 12 nursing educators to be awarded this competitive grant.

**Lung Cancer Research** - Lan Guo, PhD, Associate Professor for Occupational and Environmental Health Sciences in the School of Public Health leads a research project that focuses on nanoparticles and lung cancer risk. NIH grants funding this research total $2.19 million. Nanoparticles are used to make a number of every day products including electronics, automobiles, cosmetics, and drug delivery systems. In previous studies, Dr. Guo and the research team established that nanoparticles caused lung damage in animal models. This most recent research will take those findings to the next level - clinical trials, where human lung tissue will be used. Dr. Guo was also granted $520,000 from the NIH for research intended to predict lung cancer recurrence in patients that are diagnosed with early stage lung cancer.

**Black Lung Research** - Edward Petsonk, MD, Professor in the Section of Pulmonary and Critical Care in the School of Medicine, published a clinical review titled “Coal Mine Dust Lung Disease: New Lessons from an Old Exposure” in the American Journal of Respiratory and Critical Care Medicine. His study found that young coal miners are getting sicker than older miners, and black lung disease is becoming more lethal. Certain areas of southern West Virginia, eastern Kentucky, western Virginia, and Pennsylvania show a higher prevalence of miners contracting serious cases of black lung. Incidence of the disease has been increasing since 2000.

**Stroke Research** - James Simpkins, PhD, was recruited from Texas as the founding director of the Center for Basic and Translational Stroke Research. Dr. Simpkins is a world renowned researcher in stroke and neurodegenerative diseases, and has led numerous large programmatic research initiatives in these areas. West Virginia ranks #47 in the incidence of stroke. Dr. Simpkins is leading an interdisciplinary team of researchers at WVU who are focused on identifying mechanisms to reduce strokes and their consequences. Prior to coming to West Virginia, Dr. Simpkins served as Chair of the Department of Pharmacology and Neuroscience, and Director of the Institute for aging and Alzheimer’s disease research at the University of North Texas Health Science Center.
New Animal Facility Annex

Construction on a new animal facilities laboratory is underway and expected to be completed and operational in early 2014. The facility is over 14,000 square feet and features state-of-the-art equipment which will support the research and teaching missions of the Health Sciences Center and the University as a whole.

The new facility is critical for building translational research at WVU, and is integral to the institution’s pursuit of accreditation by the Association for Assessment and Accreditation for Laboratory Animal Care (AAALAC), the independent accrediting body recognized internationally by federal funding agencies and private foundations as a standard of excellence.
GOAL 3: Use commercialization of intellectual property to stimulate and expand research resources.

Clinical Trials

The West Virginia University Clinical and Pharmacological Research Center (CPRC) was established for the purpose of conducting clinical trials for developing medications intended for use in the United States and beyond. The Center has already created 21 full-time jobs and anticipates that it will employ up to 60 part-time staff. The CPRC will likely spark partnerships with pharmaceutical and biotechnology industries, and attract new companies to the area. Dorian Williams, MD (left), is the medical director of the Center, and Allie Karshenas, PhD, is the director of clinical operations.
GOAL 1: Become a national leader in developing interprofessional education and patient care model(s)

New Space

Renovation is complete for an 8,000 square foot area designated as space for interprofessional education. The $1.2 million dollar project was completed in Summer 2013 and is intended for students of all health professions to learn together. The space is designed to accommodate up to 189 people, and will include state-of-the-art technology for maximum collaboration and teaching efforts.
The WVU Center for Health Practitioners was established by School of Pharmacy Dean, Patricia Chase, PhD, as an interprofessional disease prevention model for pharmacy, medicine, and dentistry students. The program, called “My First Patient,” is designed to encourage students to reach their own health goals while modeling healthy behaviors for their patients. Students will choose a measurable health goal and develop an action plan that will allow them to achieve the goal in a year. Surveys will determine if students met their goals, and if participation in the program affected their opinion of an interdisciplinary approach to health and patient care. A $75,000 grant from the Claude Worthington Benedum Foundation will go towards the expansion of the program which will include 115 medical students, 90 pharmacy students, and 60 dental students.
GOAL 2: Establish national and global collaborations to enhance our faculty, staff, and student experiences.

Student Awards & Scholarships

PhD student Matthew Robson was awarded a prestigious fellowship from the American Society of Pharmacology and Experimental Therapeutics (APSET), one of only 13 in the country. His participation with APSET will prepare him to advocate for biomedical research and funding for NIH in Washington, DC, and other local areas.

Mona Meky, a first year School of Dentistry student, was named a National Health Service Corps Scholar. This scholarship entitles tax-free payment of tuition and fees, a monthly living stipend, assistance finding a job, access to training and networking opportunities, as well as membership in a community of providers.

HSC Global Engagement Office (GEO) - Formerly known as the Office of International Health, the HSC Global Engagement Office adopted a new strategic plan in February 2013. It has expanded its partnership with Oman Medical College, and created new opportunities for students through Global Health Learning Opportunities and Brazil. Projected revenue streams for GEO estimate that annual net income will reach approximately $925,000 by FY 2021. Christopher J. Martin, MD, MSC, is the Director of GEO and is also Professor and Director of Emergency Medicine.

GOAL 3: Reward nationally recognized leaders amongst faculty, staff and students.
School of Pharmacy PhD student **Ami Vyas** travelled to Berlin, Germany, to present her research project at the International Society of Pharmacoeconomics and Outcomes Research 15th Annual European Congress. Vyas is one of only 10 students in the world to be chosen for this honor. Vyas presented her project, “Comparing Predictors of Self-Reported Adherence to Mammography Screening Guidelines in Appalachian Women Who Utilize Mobile and Stationary Facilities.”

**Student Organizations** - The School of Pharmacy chapter of the Student Society of Health-System Pharmacists has been recognized by their parent organization (ASHP) for their promotion of membership, development of activities that stimulate interest in pharmacy careers, and completion of professional development projects.

**Licensing Exams** - The School of Medicine Class of 2013 posted a 100% first-time pass rate on the U.S. Medical Licensing Examination Step 2 Clinical Knowledge. This is the third year in a row that seniors have delivered the same excellent results.

The School of Medicine Class of 2014 experienced similar success when the entire class passed the first licensure exam on their first attempt.
Faculty & Staff Accomplishments

Dean of the School of Pharmacy, **Patricia Chase, PhD**, has been selected as president-elect of the American Association of Colleges and Pharmacy (AACP). The AACP is national organization consisting of 129 accredited colleges and pharmacy schools. Dr. Chase will be installed as president-elect in July 2013, and then as president in 2014. She is the third dean in the history of the School to serve as AACP president.

**Sanford Emery, MD, MBA**, Chairman and Professor of Orthopaedics in the School of Medicine, was named one the Top 28 Spine Surgeons in America by “Orthopedics this Week.” Other leaders in the field selected Dr. Emery for this honor, and called him “an amazing surgeon, leader, and clinical researcher.”

**Elizabeth Scharman, PharmD**, Director of the Poison Control Center and Professor in Clinical Pharmacy at the Charleston Division, was selected as the recipient of the American Academy of Clinical Toxicology’s 2012 Distinguished Service Award. Only one person is recognized annually for their outstanding and extraordinary service during the recipient’s professional career.

The American Pharmacists Association (APhA) selected School of Pharmacy Professor **Virginia “Ginger” Scott, PhD**, as a Fellow at the 2013 Annual Meeting and Exposition. Fellows of the APhA have at least 10 years of professional experience, and a history of superior professionalism and service to their profession.

Recently retired pediatrician and alum from the WVU School of Medicine, **Martha D. Mullett, MD**, was named this year’s Loyal West Virginia Physician, recognizing her significant contributions to the health care of state citizens.

**Larry Rhodes, MD**, Chair in the Department of Pediatrics and Director of Community and Rural Health, was chosen as the 2013 Rural Health Practitioner of the Year by the National Rural Health Association (NRHA). Under Dr. Rhodes leadership, the WVU Institute for Community and Rural Health allowed 400 students to complete 2,700 weeks of rural health training.

**Lauren Cianciaruso**, DO, Vice President of Medical Affairs at University Healthcare Jefferson Medical Center, was awarded the status of Certified Physician Executive by the Certifying Commission in Medical Management as endorsed by the American College of Physician Executives.
Rebecca J. Schmidt, D.O., has been selected as the first woman president-elect of the Renal Physicians Association (RPA). The RPA is an association of nephrologists with the common goal of assuring high quality medical practice standards for patients with kidney disease and related disorders. Dr. Schmidt is Professor and Chief of the Section of Nephrology in the Department of Medicine.

School of Nursing Associate Professor Joy Buck, PhD, MSN, was appointed to the American Nurses Association’s Care Coordination Quality Measures Advisory Committee. As a member of this national nursing advisory panel, Dr. Buck will join other leaders working toward the goal of facilitating the delivery of health care services in the best order, time, and setting.

The American Association of Endodontists presented Anthony (Tom) Borgia, DDS, MHA, with the 2013 Edward Osetek Educator Award during their Annual Session. Dr. Borgia, who is the Chair for the Department of Endodontics in the School of Dentistry, was recognized for his superior teaching abilities in the area of endodontics.

Christopher C. Colenda, MD, MPH, Chancellor for Health Sciences, was selected to serve a one-year term as Chair of the Liaison Committee on Medical Education, the nationally recognized accrediting authority for institutions in the U.S. and Canada offering the MD degree.

H. Wayne Lambert, PhD, Professor in the Department of Neurobiology and Anatomy, received the American Dental Education Association (ADEA)/Colgate-Palmolive Excellence in Teaching Award at the 2013 ADEA Annual Session and Exhibition. Dr. Lambert has been teaching dental students at WVU since 2005. He gained experience relating anatomy to dental residents while serving as the course director for Head and Neck Anatomy at the University of Louisville.

University Obstetrics and Gynecology Associates physician Maria D. Merzouk, DO, received the Outstanding Clinical Faculty of the Year Award for the WVU School of Medicine Eastern Division. This award is voted on by third-year medical students.

Four books were published by SON faculty: Dr. Joanne Duffy’s Quality Caring in Nursing and Health Systems, Dr. Mary Jane Smith’s and Patricia Liehr’s Middle Range Theory for Nursing, Dr. Alvita Nathaniel and Dr. Margaret Burkhardt’s Ethics and Issues in Contemporary Nursing, and Dr. Cynthia Persily’s Team Leadership and Partnering in Nursing and Healthcare.
Chancellor’s Awards for Outstanding Achievement

The inaugural Chancellor’s Awards for Outstanding Achievement were presented to 8 individuals and 2 teams of faculty and staff working in the Health Sciences Center.

Chancellor’s Award for Administrative Managerial:
   David J. Fulaytar, Injury Control Research Center

Chancellor’s Award for Clerical/Secretarial:
   Mary Pettit, School of Medicine, Department of Radiology

Chancellor’s Award for Paraprofessional/Technician:
   Lauren Burhans, School of Medicine, Department of Physiology and Pharmacology

Chancellor’s Award for Physical Plant/Maintenance:
   Ronald Conner, Health Sciences Center Maintenance Engineering

Chancellor’s Award for Mentoring:
   Scot C. Remick, MD, FACP, Mary Babb Randolph Cancer Center

Chancellor’s Award for Outstanding Achievement in Research and Scholarly Activity:
   S. Jamal Mustafa, PhD, Research and Graduate Education

Chancellor’s Award for Outstanding Achievement in Service:
   Virginia “Ginger” Scott, PhD, School of Pharmacy

Chancellor’s Award for Outstanding Achievement in Teaching:
   H. Wayne Lambert, PhD, School of Medicine, Department of Neurobiology and Anatomy

Chancellor’s Award for Innovation (Team Award):
   Educational Initiative Group

Chancellor’s Award for Team Achievement (Team Award):
   Health Sciences & Technology Academy
GOAL 4: Dramatically enhance diversity and cultural competency among our faculty, staff, and students

Global Health Rotations

Five groups of Health Sciences students travelled to Barbuda, China, Fiji, Ghana, and Brazil to participate in health rotations. The students, seventeen in all, will learn valuable interprofessional skills, as well as techniques to overcome cultural and language barriers.

Two WVU medical students, Justin Arner and Connor Louden, completed a four-week surgery rotation at Oman Medical College (OMC), which has an academic partnership with WVU.

Global health students provided updates about their experiences via Twitter @WVUglobalhealth.
**Raise the health status of West Virginians**

**Injury Control Research Center** - The Injury Control Research Center (ICRC) received a 5-year grant from the Center for Disease Control (CDC) in the amount of $4.1 million. The CDC recognized the ICRC for its outstanding contribution to the advancement of injury prevention during the last five years, and for their proposal for the next five. During the 2012-2017 grant period, the ICRC plans to research fall prevention programs for the elderly, cell phone texting laws, improved drug overdose surveillance, and suicide data quality and underreporting. Jeffrey Coben, MD, is the director of the ICRC, which is jointly overseen by the Schools of Public Health and Medicine.

**Mortality Rates** - A public health study led by School of Public Health Epidemiology Professor Ian Rockett, PhD, MPH, shows that suicide is now the leading cause of injury mortality in the U.S., a 15% increase from 2000 to 2009. The research team comprised of the School of Public Health and the Injury Control Research Center, found other significant results from the study. The unintentional poisoning mortality rate rose by 128%, driven by the number of fatal overdoses from prescription painkillers. The fall mortality rate rose by 71%, ranking it as the fourth most likely cause of injury. Positive results showed that motor vehicle traffic crashes, which were previously the leading cause of injury mortality in the US, have decreased by 25%. The report was published in the American Journal of Public Health. Co-authors on the article were Michael Regier, PhD, and School of Public Health Interim Dean Jeffrey Coben, MD.

A study conducted by Assistant Professor Motao Zhu, MD, PhD, found that the traffic fatality rates for those in the Appalachian region is 45% higher than in non-Appalachian regions. The Appalachian region experienced fatalities at 15.8 deaths per 100,000 people, whereas the United States population experienced only 10.9 deaths per 100,000 people. Rural areas are known to have higher traffic fatality rates than those in urban areas, and urban Appalachian counties have higher traffic fatality rates than urban counties in other regions. Dr. Zhu explains that both of these factors contribute to the higher rates. Continued studies will focus on the causation of these factors, with consideration of mountain terrain, roadway issues, road width, number of lanes, and prevalence of older passenger vehicles. The study is currently on the “Annals of Epidemiology” website.

**GOAL 1:** Create a dynamic partnership between healthcare systems and public health that improves the health status of West Virginians.
Prescription Drug Use

A study led by School of Pharmacy Professor and ICRC faculty member Marie Abate, PharmD, determined that subjects who visited multiple doctors and pharmacists to obtain prescription medicines were more likely to die from drug-related deaths. The article, “Doctor and Pharmacy Shopping for Controlled Substances,” was printed in the June 2012 issue of “Medical Care.”

Tobacco Use

Researchers in the School of Public Health and the WV Bureau for Public Health’s Division of Tobacco Prevention reported that 23.9% of West Virginia adults smoke, which is less than previously believed.

Drunk Driving

The School of Public Health and the WVU Department of Intercollegiate Athletics, along with the Pennsylvania DUI Association, hosted a DUI simulator event to provide participants with a virtual-reality experience of the dangers of driving while under the influence. Alcohol contributed to 37% of the traffic fatalities in West Virginia in 2008.

Family Wellness

Pharmacy students held a family Wellness Night for parents and children at the Shack Neighborhood House in Pursglove. While parents attended a CPR workshop, children learned about a pharmacist’s job and how to prevent poisoning.

Student pharmacists also visited residents at the Village at Heritage Point to hold a health fair. Students informed residents of topics such as Alzheimer’s, heartburn, diabetes, OTC medications, medication disposal, and fall risk.

An award of $400,000 given to the Institute for Community and Rural Health will help to improve the health of children and adults by reducing obesity and deaths due to stroke and heart disease. The grant is a part of the US Department of Health and Human Resources Community Transformation Grants Program, which works to reduce disease, promote healthy lifestyles, reduce health disparities, and control health care spending.

Dr. Joy Buck, PhD, principal investigator for the Bridges to Healthy Transitions program recently completed a community health needs assessment to provide an analysis of health trends in the communities served by University Healthcare’s Berkeley Medical Center and Jefferson Medical Center. Interdisciplinary teams from the hospital have been created to partner with community groups to address access to care and prevention of chronic illness, cancer, behavioral health/addiction and prenatal/perinatal health. Plans will begin to be implemented in January 2014.

Student Pharmacists visit residents at the Village at Heritage Point.
Vision Health

The WVU Eye Institute received a $115,000 grant from the Claude Worthington Benedum Foundation to assist in Appalachian Vision Outreach Program (AVOP). The goal of AVOP is to improve local vision care by reaching the most underserved and socio-economically isolated areas in West Virginia. For those who don’t have access to routine eye check-ups, AVOP provides vision screening, general clinics, sub-specialty clinical services, and education on the importance of vision health.

Dental Health

Researchers from West Virginia CTSI and Indiana CTSI are conducting a study on the issue of dental phobia and avoidance. Many patients do not receive adequate dental care due to anxiety which leads to a higher risk of gum disease and early tooth loss. In West Virginia, 5% to 10% of the population avoids dental care because of fear. The research group was awarded a partnership pilot funding of $50,000 for this project.

Pre-Natal Care and Education

The School of Nursing and the Department of Family Medicine at Eastern Tennessee State University joined forces to build prenatal education networks in eight West Virginia and Tennessee counties. The project, which has been funded by the Appalachian Regional Commission, will train 80 health providers and social service workers to teach pregnant mothers about substance-abuse prevention, tobacco cessation, and breastfeeding methods. Ilanna Chertok, PhD, RN, Associate Professor in the School of Nursing is leading the project in West Virginia. So far, $136,000 has been raised from various sources. West Virginia counties to benefit from this project include Calhoun, Clay, Roane, and Wirt.

Office of Health Services Research

The WVU Office of Health Services Research (OHSR) won an award from the Association of Clinicians for the Underserved, recognizing the group for their partnership with primary care providers in West Virginia and the data-driven quality improvements in high-need, priority patient populations. OHSR is a division of the School of Public Health and is partnered with the WV Bureau of Public Health. Currently, it serves primary care sites in 31 WV counties.
GOAL 2: Establish a School of Public Health in order to transform the lives of West Virginians and eliminate health disparities

School of Public Health
WVU added its first new school in 50 years this Fall with the School of Public Health. Fall enrollment numbers totaled 179 students. The new School offers three graduate degree programs including a Master of Public Health, MS in School Health Education, and a PhD in Public Health Sciences. During its first year, the School recruited 17 new faculty members. A rigorous two-year accreditation process has begun, and the School plans to be accredited through the Council on Education for Public Health by January 2015.
GOAL 3: Build a high quality workforce that meets the health care and public health needs of West Virginians.

Simulation Laboratory

The School of Dentistry opened a new simulation lab, giving students access to the new state-of-the-art laboratory. The lab will give students a chance to learn dental procedures before participating in a clinical setting. The year-long, $1.5 million project involved a space renovation and replacing outdated equipment. The new lab has two rooms, 60 work benches, a teaching station, the latest dental simulations, a video camera/microscope and LED operatory lights.
The Health Sciences and Technology Academy (HSTA) will receive $1.3 million over the next five years from the Science and Education Partnership Award from the NIH. HSTA is a program that guides 9th-12th grade minority and underrepresented students by providing them with opportunities to learn science, math, and leadership skills. Students are encouraged to attend college and pursue careers in health sciences. Overall, HSTA students have a 92% college graduation rate, better grades, and better annual standardized test scores.

Each year, students participate in summer camps at different locations across the state that are designed to increase interest and knowledge in science, math, and related careers.
Growing West Virginia’s Workforce

The Advanced Education Nursing Traineeship Award from HRSA was given to the School of Nursing for almost $700,000. This award will provide stipend support to selected students in their last years of study in the Master of Science Nursing program. The goal is to increase the number of primary care providers to keep up with demand in an aging society and anticipated health care reform.

The School of Nursing also received a $60,000 grant from the Robert Wood Johnson Foundation to provide scholarships for second degree nursing students who are part of underrepresented groups. The School of Nursing has received this funding for six years now, and has received a total of $310,000.

A $1.5 million grant through the Dental Workforce Loan Reimbursement program aims to encourage recent dental graduates to stay in West Virginia to address dental shortages. Graduates can receive up to $50,000 for a two-year commitment to practice in a shortage area, if they also agree serve 20% Medicaid and CHIP patients, as well as practice 32-40 hours per week. Five recipients are selected annually.

Students in the Schools of Dentistry and Medicine received scholarships from the WVU Institute for Community and Rural Health Awards for their promise to practice in rural West Virginia. Two graduating dental students, Joshua Culer and Erin Miller, received $50,000 for a two-year commitment.

Graduating medical student Jason McNair received $25,000 for his commitment to practice in West Virginia for two years. Third-year medical students Garrett Butler and Sky Gwinn each received $25,000 for their two-year commitment. Virginia Horne, William Johansen, and Nathaniel Linger, all first-year medical students, received $25,000 for a one-year commitment.
GOAL 1: Create an integrated academic health sciences system that includes all disciplines and campuses.

Dual Degrees

The WVU School of Dentistry and the College of Business and Economics collaborated to offer students a new DDS/MBA degree. WVU is one of only 8 schools in the United States to offer such a program. The first academic year of the program will be 2013-2014.

The Schools of Pharmacy and the College of Business and Economics have also started a new dual-degree program. Students will earn a PharmD/MBA degree, and will study a curriculum designed to increase their knowledge of business principles in their roles as leaders in healthcare.

GOAL 2: Build a management infrastructure that is nimble, transparent, and accountable.

Foster a culture of high purpose, accountability & accomplishment.

Office of Institutional Planning

Based on the HSC 2020 Strategic Plan, key indicators, or “Measures of Success,” have been identified for each of the priorities. These indicators will be tracked and measured on an annual basis to show our progress for reaching five-year targets. For each indicator, a baseline was established where previous data existed. Numbers have been reported for FY2011-2012, and targets have been set for FY 2015-16. The HSC 2020 Strategic Plan can be viewed at http://www.hsc.wvu.edu/HSC2020/.
Budget Challenges

The Health Sciences Center was affected by state budget reductions this year. Appropriations to the HSC were reduced by 8.9 percent. Revenue from the soft-drink tax is down, along with other major revenue sources not reaching expected income levels. With further government budget cuts expected in the future, and health care reform implementation anticipated, the HSC has taken steps to limit the impact on the institution. Requests for new positions will be carefully studied, and FY 2015 budget requests will reflect the expected decline in revenue. Additionally, a budget review committee has been assembled to focus budgets on accomplishing goals set within the Strategic Plan to avoid across-the-board cuts, and to make sure we continue to move forward as an institution.

GOAL 3: Diversify financial resources to invest in our future
GOAL 4: Create an environment that values and promotes volunteerism

College Experience Day

Students from the School of Pharmacy provided a college experience day for 60 high-school students in the Upward Bound/TRIO program. The Upward Bound program typically consists of academically at-risk students who will be the first in their family to attend college. The college experience day focused on tuition information, time management, class selection, study habits, and lab activities. The activities for the day were funded by a $5,000 grant received by Gina Carbonara Baugh, PHARMD, from the WVU Center for Civic Engagement.

Dental Exams

The School of Dentistry, in celebration of National Children’s Dental Health Month, offered a day of free exams, X-rays and fluoride treatments for children from 1 to 17.

The WVU Children’s Dental Program continues to expand its services under the guidance of Lisa D. Poland, DMD, Director of Dental Health Programs for WVU HSC Eastern Division. During the 2012-2013 school year, the program screened 3,500 children, provided 1,300 fluoride varnish treatments, placed sealants on 2,500 teeth, and referred all of the children to a permanent dental home. The program has screened more than 10,000 children since its start in 2007. A second registered dental hygienist has been hired to allow the team to be out in the schools three days per week instead of one.

Community Drive

Nurses from WVU Healthcare held their 16th annual Community Drive on April 15. Donations benefitted Christian Help of Morgantown which provides free clothing, food, and emergency financial assistance to individuals in Monongalia and Preston Counties.
Ruby Memorial Hospital

U.S. News and World Report ranks WVU Hospitals, Inc., and its flagship Ruby Memorial Hospital as #1 in the State of West Virginia. We are listed as high-performing in 12 medical specialties: cancer, cardiology & heart surgery, diabetes & endocrinology, ear, nose & throat, gastroenterology, geriatrics, gynecology, nephrology, neurology & neurosurgery, orthopaedics, pulmonology, and urology.

Becker’s Hospital Review and Becker’s ASC Review recognized us as a “great place to work” for 2013. Workplaces are chosen based on offering “a robust benefits package, positive work environment, excellent employee recognition programs and opportunities for professional development and continuing education.” We have also been named an “AARP Best Workplace for People Over 50” for the seventh time this year.

WVU Healthcare was recognized once again as one of the “Most-Wired” hospitals in the nation in “Hospitals & Health Networks,” published by the American Hospital Association. Criteria for earning this tech-savvy status include: clinical quality and safety, care continuum, infrastructure and business, and administrative management. A notable aspect for WVU Healthcare involves the extensive use of patients tracking their personal health through MyWVUChart. Improved technology by using the online patient portal encourages patients to have health screenings done and to remember follow-ups.

Ruby Memorial Hospital Expansion

An expansion is underway at Ruby Memorial Hospital that will provide significant improvements to patient-care delivery. A new tower will increase the number of beds by 114, bringing the total number of licensed beds to 645. The Jon Michael Moore Trauma Center and Emergency Departments will be expanded, and the Neonatal Intensive Care Unit will add 15 new beds, bringing the total number to 54. The Rosenbaum Family House and the Child Development Center will be increased by 20 percent. The morgue will be housed in a new facility, and major renovations will occur within clinical laboratories. Roadway improvements are planned by relocating the road in front of the hospital so that all patients, visitors, and staff will access parking lots from the outside edge, and will no longer access the front entrance by crossing the street. The renovations will create 750 new jobs (600 full-time equivalent positions) across WVU Healthcare and its affiliates.

The last expansion was initiated in 2003, and added 105 beds and four operating rooms. It became fully operational in 2008.
Excellence in Stroke Patient Care

A partnership with Elkins expands WVUH’s reach to rural areas, particularly stroke patients at Davis Memorial Hospital. Stroke victims will be able to receive emergency care from a WVU neurologist through video conferencing devices located in the WVU Stroke Center. WVU Hospitals is the only place in the state to be recognized as a Target: Stroke Honor Roll hospital by the American Stroke Association. It is also the only place in the state to receive the American Heart Association’s Get with the Guidelines Gold Plus certification for excellence in both areas of stroke and heart-failure treatment.

All WVU-related healthcare services in the Eastern Panhandle now are part of University Healthcare – a name that will let patients know they’re being cared for by a member of the University’s health group no matter which office they choose. The two WVU-related hospitals in the region have been renamed “University Healthcare-Berkeley Medical Center” and “University Healthcare-Jefferson Medical Center.”

WVU Physicians of Charleston

WVU Physicians of Charleston is the multi-specialty group practice of faculty physicians and health care providers at the Charleston Division. Through its affiliation with Charleston Area Medical Center, the group treats 40,000 hospital patients and more than 200,000 outpatients annually.
WVU Urgent Care

While closing in on their fifth anniversary, WVU Urgent Care treated their 100,000th patient. On a daily basis, an average of more than 55 patients will be seen with that number increasing to 75 during the winter months and flu season. The clinic was moved to a new, larger location in 2013.

WVU Hospitals – East and the HSC Eastern Division opened a new WVU Urgent Care Center in Ranson, WV, located in Jefferson County. The new facility, which opened on October 15, 2012, is across from Jefferson Memorial Hospital.

Chestnut Ridge Center

On November 15, 2012, the Chestnut Ridge Center celebrated 25 years of service to West Virginians suffering from mental distress or psychiatric illness. Specific services rendered include adult addiction, ADHD treatment clinic, adult mental health, assertive community treatment, child/adolescent, depression, and forensic psychiatry. This year, Telepsychiatry Director Susanne Choby, MD, was awarded a competitive grant from HRSA for $1 million to provide rural WV counties access to WVUH’s telepsychiatry services.

Health Net

A new flight method has been implemented at the HealthNet Morgantown base that will reduce the number of EMS flight cancellations due to poor visibility or low-hanging clouds. The new method, Instrument Flight Rules, allows for flight in undesirable weather conditions by using navigation tools and GPS systems.
Mary Babb Randolph Cancer Center

In 2012, the MBRCC served patients in 52 of 55 West Virginia counties. Physicians of the clinics saw approximately 150 patients each day for a total of 37,799 patients in one year.

The American College of Surgeons Commission on Cancer (ACOS) has provided the Mary Babb Randolph Cancer Center with a three-year accreditation award with commendation for providing high-quality cancer care. The ACOS has recognized the Cancer Center for continued excellence since 1981.

Fairmont Regional Cancer Center

The FRCC officially became a part of WVU Hospitals after WVUH purchased the center in 2013. The FRCC provides radiation therapy treatments to cancer patients using a linear accelerator, which delivers high-energy X-rays to tumors. These cancer treatment services will be kept in Marion County. The FRCC will become a part of the Mary Babb Randolph Cancer Center, which is recognized as the premier cancer facility in the state with a national reputation of excellence in cancer treatment, prevention, and research.

Bonnie’s Bus

Bonnie’s Bus is a mobile mammography unit that traveled to 34 counties this year and screened 1,693 women in 104 screening days. No woman over the age of 40 is turned away due to lack of funding or insurance. Bonnie’s Bus is supported by the West Virginia Breast and Cervical Cancer Screening Program and grant funds from Susan G. Komen for the Cure. Ben and Jo Statler created Bonnie’s Bus in honor of Jo’s Mother, Bonnie Wells Wilson. Mrs. Wilson lived in a remote part of the state that offered little access to mammography.

This year, Bonnie’s Bus was awarded a $35,000 grant from the West Virginia affiliate of Susan G. Komen for the Cure to ensure that all women of color in West Virginia are receiving regular mammograms.
PHILANTHROPIC SUPPORT

WVU is a powerful and innovative force for change for the citizens of our state and beyond, bringing enormous energy to our missions of healing, teaching, and discovery. We are supported in this effort by thousands of people whose generous philanthropic gifts make our work more effective and help us reach more students, patients, and communities.
FISCAL YEAR 2013
PRIVATE GIVING

GIVING BY DONOR TYPE
$27.3 MIL

- CORPORATIONS: $16.3
- ALUMNI: $2.6
- ORGANIZATIONS: $0.4
- FRIENDS: $5.5
- FOUNDATIONS: $2.5

GIVING BY DIVISION
$27.3 MIL

- MEDICINE: $11.5
- DENTISTRY: $1.5
- WVUH: $3.1
- REGIONAL DIVISIONS: $0.43
- PHARMACY: $0.6
- PUBLIC HEALTH: $0.1
- NURSING: $0.7
- BRNI: $0.4
- CANCER: $2.8

DONORS BY TYPE
6667*

- CORPORTATIONS: 518
- ALUMNI: 2779
- FOUNDATIONS: 42
- ORGANIZATIONS: 393
- FRIENDS: 3013

DONORS BY UNIT
6667*

- MEDICINE: 1519
- HSC MORGANTOWN: 99
- WVUH: 2493
- HSC MORGANTOWN: 99
- REGIONAL DIVISIONS: 62
- BRNI: 134
- CANCER: 1304
- PHARMACY: 616
- NURSING: 305

* SOME DONORS GAVE TO MULTIPLE UNITS

PRIVATE GIVING: 7/1/12-6/30/13: GIFTS PAID PLUS NEW PLEDGES & NEW EXPECTANCIES
By the Numbers

ECONOMIC IMPACT

$2.6 BILLION DIRECT
$2.8 BILLION INDIRECT

$110 MILLION
Amount spent by WVU and statewide affiliates providing health services to those who could not pay for their care.

22% PROJECTED INCREASE IN IMPACT

2012

$5.4 BILLION TOTAL DIRECT & INDIRECT STATE ECONOMIC IMPACT FROM WVU RELATED HEALTH ACTIVITIES

2017

$6.6 BILLION TOTAL DIRECT & INDIRECT STATE ECONOMIC IMPACT ANTICIPATED

HSC students completed
59,127
Volunteer Hours!

12 200
JOBS FULL-TIME EQUIVALENT POSITIONS SUPPORTED BY HSC AND HEALTHCARE AFFILIATES
3,305 Total HSC Enrollment

- Medicine: 1,685
- Dentistry: 299
- Public Health: 151
- Nursing: 793
- Pharmacy: 377

1st New HSC School in 50 Years

School of Public Health

$19.6 Million
IDeA-CTR Award granted to the WV CTSI.

71 International Students completed rotations at WVU HSC.
The WVU Board of Governors is the governing body of WVU. The Higher Education Policy Commission in West Virginia is responsible for developing, establishing, and overseeing the implementation of a public policy agenda for the state’s four-year colleges and universities.

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