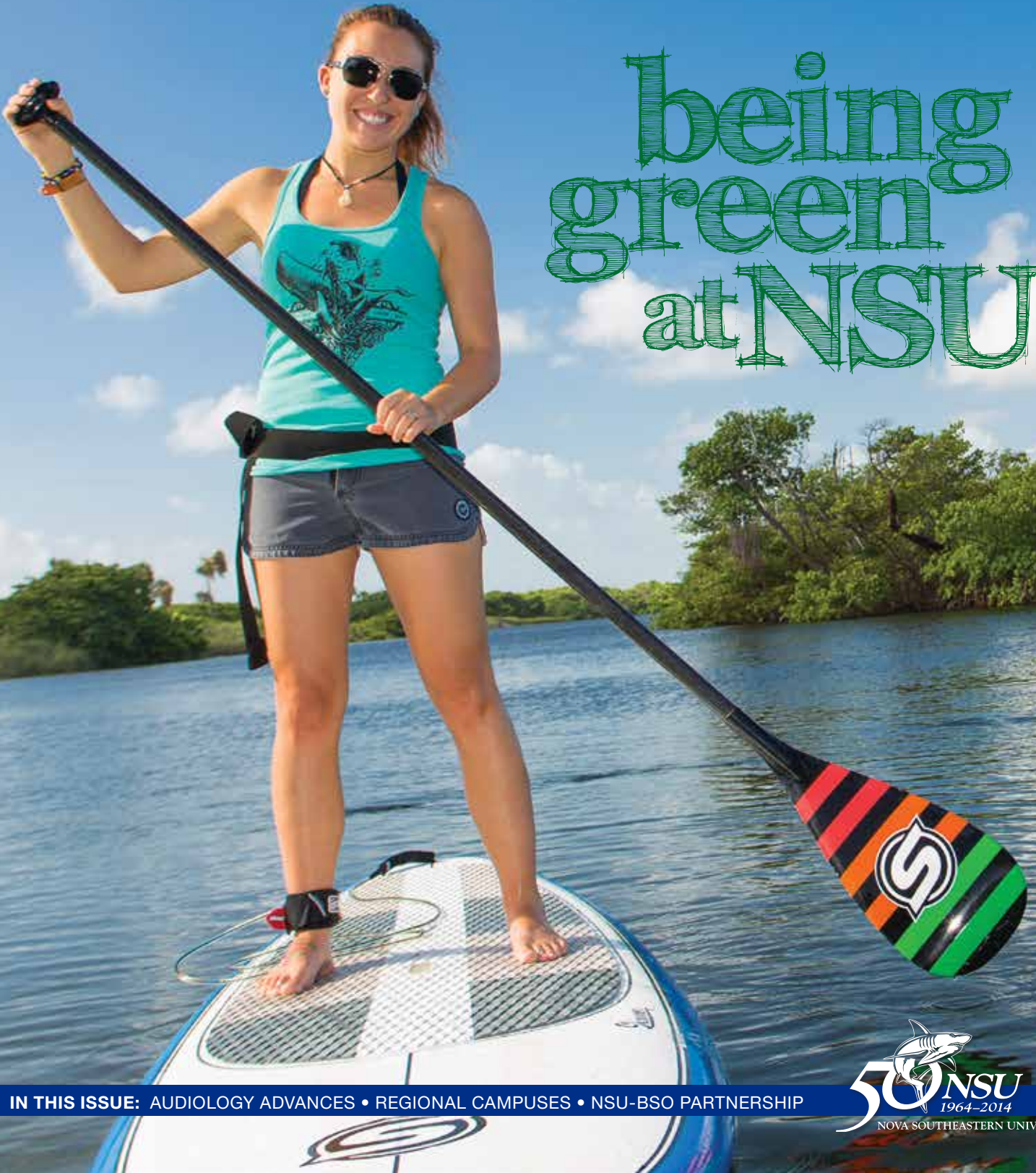


FALL 2014

HORIZONS

NOVA SOUTHEASTERN UNIVERSITY

being
green
at NSU



IN THIS ISSUE: AUDIOLOGY ADVANCES • REGIONAL CAMPUSES • NSU-BSO PARTNERSHIP



Cruise for Credit

Join fellow NSU alumni and friends aboard Royal Caribbean's *Liberty of the Seas* on February 5, 2015, for a four-night trip to the Western Caribbean with a stop in Cozumel, Mexico.

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06-012-14SAT

On the cover: Oceanographic Center student Kate Correia helps keep the waterway clean at John U. Lloyd State Park. Story on page 18.



To the Friends and Family of NSU:

Protection of the environment is among today's most important and pressing issues. How we, as a society, act as good stewards of our environment—for us and for future generations—is one of the most significant challenges facing us today. As Nova Southeastern University continues celebrating its 50th anniversary this year, we reflect on how the environment continues to be one of our key priorities.

Since it first opened its doors in a houseboat at the Fort Lauderdale marina, NSU's Oceanographic Center has focused on research and education, leading the charge to protect the environment and the ocean floor. Contributions of the center's researchers include understanding the importance of high-latitude coral reefs, restoration and repopulation of dead or injured corals, and learning how reefs have been influenced by ocean conditions.

NSU's response to environmental concerns has been wide-ranging and impactful, involving students, researchers, and staff members not only from the Oceanographic Center, but also from each of our colleges and centers, as illustrated in *Horizons*' main story. Our responsibility to the environment spans from academic classes to community projects to research. The university's recycling program and energy-efficient building strategies are just two examples of NSU's environmental consciousness.

NSU's core values of academic excellence, student centered, and community involvement are reflected in our approach to the environment.

Our commitment to these values is also illustrated throughout the stories in *Horizons*. The new clinic in our Department of Audiology makes this respected program even more significant to the students and the community.

Further illustrating our dedication to the community is the unique partnership between NSU and the Broward Sheriff's Office, selected by the U.S. Department of Justice as a nationwide model for how law enforcement agencies and researchers can cooperate.

And, as in other editions, *Horizons* showcases our exceptional students, talented professors, and successful alumni—all of whom continue to make me proud to lead Nova Southeastern University as we begin another milestone—the next 50 years.

George L. Hanbury II, Ph.D.
President and Chief Executive Officer
Nova Southeastern University

HORIZONS

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Robert Nacarato and Nicole Holoboff, both of whom received master's degrees in criminal justice from NSU, talk with a K-9 deputy from the Broward Sheriff's Office and his partner.

BSO Partners with NSU

BY ARNIE ROSENBERG



INNOVATIVE PROGRAM GAINS NATIONAL RESPECT

TROY YARBROUGH TACKLES DOUBLE DUTY—AS A DEPUTY IN THE BROWARD Sheriff's Office (BSO), patrolling Pompano Beach, Florida, and as a college student. He is pursuing a master's degree in criminal justice at NSU through its BSO partnership, an innovative collaboration between two prominent Broward County institutions that has gained national respect.

"If I want to move up in the agency, a master's degree gives me an advantage over other applicants," said Yarbrough, 39, who has a bachelor's in health administration. "My sergeants encouraged me to take more training, and this program gives me more opportunity."

Yarbrough takes his classes online and expects to finish the program within a year.

“As a road deputy, it gives me more confidence and definitely puts me at an advantage,” he said. Having studied a certain U.S. Supreme Court case, for example, can give him insight into how to handle a situation he encounters in the field.

Center for Psychological Studies, accepted BSO employees strictly by referral.

“Back then, a lot of them didn’t have degrees,” said Kimberly Durham, Psy.D., dean of the Institute for the Study of Human Service, Health, and Justice and chair of the NSU-BSO governing board since its inception. “Some might have had a bache-



Range trainers from the Broward Sheriff's Office have a session at Markham Park in Sunrise, Florida. The seven-year-old NSU-BSO partnership has grown to a campus-wide initiative encompassing professional development and academic research. It was recognized as a national model for police-research partnerships.

With scholarships from NSU and tuition assistance through BSO, furthering their education is more affordable for the 5,800 employees of the Broward Sheriff's Office.

The seven-year-old NSU-BSO partnership has grown from an Executive Leadership Program, providing advanced training for command officers and managers in the Broward Sheriff's Office, to a broad, campus-wide initiative. The initiative, which was recognized in a 2013 National Institute of Justice study as a national model for police-research partnerships, encompasses professional development for managers and university-based academic research, conferences, and programs in law enforcement specialties and community outreach.

From its beginnings in 2007, the program envisioned by Frank DePiano, Ph.D., then university provost and now professor at the

lor's degree, but not a master's degree, and certainly not a doctorate. They wanted that education. They wanted to learn the necessary leadership traits, and then be able to use those traits to supervise their staff members,” Durham added.

So the university and the Broward Sheriff's Office looked beyond the traditional criminal justice degree.

“We discussed scholarship opportunities for all of BSO, whether they were commissioned officers or not,” Durham said. “They would be able to get degrees, such as a master's degree in criminal justice, psychology, or mental health counseling.”

And so it grew. The Abraham S. Fischler School of Education came into the program, as did the H. Wayne Huizenga School of Business and Entrepreneurship. Today, BSO employees can take courses from many of NSU's offerings.

Durham even gets calls from BSO employees asking if they can get a degree in oceanography, which could be beneficial to members of BSO's Dive Rescue Team.

CONTRIBUTIONS TO THE COMMUNITY

Still, the partnership's cornerstone is both institutions' contributions to the community, which echoes one of NSU's Core Values.

"We wanted to better the quality of life for Broward County residents," Durham said. "That's number one. Because of where NSU is located, and with BSO being one of the largest accredited law enforcement agencies, we really needed to do that for our residents."

Tammy Kushner, Psy.D., executive associate dean of the Institute for Human Service, Health, and Justice and a board member of

our research is presented at training conferences, we will reach individuals, communities, and departments nationally."

One thing that sets the NSU-BSO partnership apart is its shared faculty researcher, an element of the program cited in the National Institute of Justice study. With full access to all BSO databases, the researcher can tackle studies and address issues requested by the BSO or suggested by any school or department within NSU.

One of the most notable studies has been its examination of armed encounters between deputies and civilians, said Leslie Taylor, Ph.D., BSO research coordinator and board member of the partnership from the beginning.

"The two-year study, using a decade of data, was able to use not only BSO as a case study,



A work-study student aiding the NSU/BSO partnership board, Christopher Perez discusses research aimed at survivability during an armed encounter. Several NSU colleges, such as the Huizenga Business School, offer opportunities for BSO employees.

the partnership, agrees that both institutions and the community benefit.

"As a collaborative partnership, we are able to determine problems in the community and find solutions together," said Kushner, pointing to the critical issues of drugs, homelessness, and the need for diversion programs for juveniles. "I'm even more hopeful that once

but also all police departments in Broward County, in terms of armed encounters in the community," he said.

The study looked at how and why shootings occur and at ways to avoid potentially deadly confrontations. It also examined how to keep officers on the street safe as they're protecting Broward County residents.

PARTNERSHIP: A NATIONWIDE MODEL

A 2013 study funded by the U.S. Department of Justice selected the NSU-BSO partnership as a nationwide model for the way law enforcement agencies and researchers can cooperate.

Researchers from the University of South Carolina identified some 4,000 U.S. law enforcement agencies that had some form of research partnership. They eventually winnowed their study down to 89, and then identified 4 different models of how partnerships are executed.

NSU-BSO was chosen to show a formal partnership with a university.

Highlights of the NSU-BSO partnership, according to the study, include

- ✦ joint funding of a full-time research/academic position dedicated to writing grants, conducting research, and other activities that support the partnership
- ✦ creation of a board of advisers, comprising members from both institutions, that provide "collaborative governance" and facilitate research requests
- ✦ broad involvement by the university (NSU-BSO has involvement from multiple academic disciplines and the leadership of NSU and the BSO.)
- ✦ trust and mutual respect from both partners

Another partnership cited in the report was the Richmond Police Department for its informal partnership with Virginia Commonwealth University's School of Government and Public Affairs.

The study recommended night training, since most armed encounters happened after dark. Officers from across the county now do night training on the Broward College central campus, across the street from NSU's main campus in Davie.

The partnership also identified the need to address the issue of mentally ill people held in the county jail for relatively minor offenses. Working together with the BSO and the Henderson Mental Health Center in Fort Lauderdale, NSU created a diversion program for the mentally ill. In the first year, the program diverted 400 individuals off the street and into safe houses.

And when Taylor needed programming expertise to request a federal grant, he convened a meeting with the Broward Sheriff's Office grants manager, information technology manager, and geographic information systems manager, and Eric S. Ackerman, Ph.D., the dean of NSU's Graduate School of Computer and Information Sciences.

"That's how we collaborate. That's how we partner with NSU," Taylor said. "We get as many people as possible who are interested in the problem, collaborate, and get it done through the board."

The close working relationship between the two institutions contributes to the partnership's success, said Durham.

"If you've got a big project, like armed encounters or diversion of the mentally ill, it's not the norm for a researcher to do the work and break through the administrative hurdles. But, if you have a board that has paved the way and is blessed by the sheriff and the NSU president, then you've pretty much got a green light," said Durham.

"We have faculty members coming to us now and saying, 'We've got an idea. We want to do this, do you think it's worthwhile, and can you make it happen?'" she added.

Taylor of the Broward Sheriff's Office agrees.

"If there's an issue within BSO that I cannot help with immediately, I will go through the partnership board. The board helps filter out who can help solve the problem. Anybody within the university can come up with ideas to help."

And there are trickle-down benefits of the partnership as well. Various NSU schools and centers have their students do projects at the county detention center or in dispatch. BSO offers student internships in law enforcement, detention, community control, and administration.

But more important, according to Durham, is the scholarship money provided by individual deans to help educate



The NSU-BSO partnership resulted in a study that examined how and why shootings occur as well as how to keep officers safe.

BSO personnel and the time associated with researchers who are involved in partnership projects.

Through changes in NSU presidents and Broward County sheriffs, the institutions' commitment to the partnership remains constant, as does its mission, Durham said.

"The cornerstone of all this is research, and that's going to go on because they value it, they've embraced it, and they benefit from it. How do we best get the positive word out so it impacts the community? That's what we're about, and that's what we like doing," she said, using the armed-encounters study as a prime example.

And NSU is part of the solution. "There may be different ways of addressing those community issues through research," Durham said, "and those are going to be a priority for us: What are new and innovative ways for us to impact Broward County? That's a huge thing, and that will go on." ■

AROUND NSU

COLLEGE OF DENTAL MEDICINE DEAN APPOINTED TO U.S. COMMITTEE

Linda Niessen, D.M.D., M.P.H., M.P.P., dean of the College of Dental Medicine, has been appointed to the Advisory Committee on Training in Primary Care Medicine and Dentistry by U.S. Department of Health and Human Services Secretary Kathleen Sebelius. Niessen's term runs through August 31, 2016.

The Advisory Committee provides advice and recommendations on policy and program development to the secretary, and is responsible for submitting an annual report to the Health and Human Services secretary and Congress concerning certain activities of the Public Health Service Act (PHS). The Advisory Committee also develops, publishes, and implements performance measures and evaluations of certain sections of the PHS Act.

The Advisory Committee is composed of 17 members including practicing health professionals engaged in training, leaders from health professions organizations, faculty members from health professions educational institutions, and health professionals from public or private teaching hospitals or community-based settings. ■

COLLEGE OF OPTOMETRY RECEIVES GRANT

Investigators at the College of Optometry have been awarded up to \$556,532 from the National Eye Institute of the National Institutes of Health to study the relationship between the vision condition, convergence insufficiency, and reading performance and attention. The grant will fund the Convergence Insufficiency Treatment Trial-Attention and Reading Trial (CITT-ART), a national, multicenter clinical trial that involves optometry, ophthalmology, psychiatry, and education in determining how this eye-teaming problem impacts a child's attention and reading performance. Convergence insufficiency is a common vision disorder in which the eyes turn slightly outward when a person is reading or doing work close to his or her eyes.

The College of Optometry faculty research team consists of Rachel A. (Stacey) Coulter, O.D., M.S.Ed. (principal investigator); Annette Bade, O.D., M.S.; Pamela Oliver, O.D., M.S.; Gregory Fecho, O.D.; Erin Jenewein, O.D., M.S.; Deborah Amster, O.D.; Yin C. Tea, O.D.; Jacqueline Rodena, O.D.; and Nicole Patterson, O.D., M.S.Ed.

"Children who have convergence insufficiency sometimes suffer from poor reading performance and attention problems," said Coulter. "As the first large-scale, randomized clinical trial to study this problem, outcomes of this study could lead to new therapies for some children with attention deficit hyperactivity disorder and reading problems."

NSU is one of seven clinical sites participating across the United States. Other sites include Akron Children's Hospital in Ohio; Bascom Palmer Eye Institute in Miami; Marshall B. Ketchum University in Fullerton, California; Ohio State University; Salus University in Elkins Park, Pennsylvania; The State University of New York; and The University of Alabama—Birmingham. ■



NSU researcher Nancy Klimas (far right) with staff members (from left) Maria Vera, Constanza Sol, Nicholas Lewis, Irma Rey, and Irina Rozenfeld

NSU PROFESSOR EARNS INTERNATIONAL AWARD

Nancy Klimas, M.D., NSU researcher and professor, has been awarded the 2014 Perpich Award by the International Association for Chronic Fatigue Syndrome/Myalgic Encephalomyelitis (IACFS/ME) for distinguished community service.

The award recognizes CFS/ME and funds research to help treat and find a cure for the disease. The award is presented to a distinguished scientist, physician, or health care worker every two years.

Klimas has achieved international recognition for her research and clinical efforts in multisymptom disorders, CFS/ME, Gulf War illness (GWI), and fibromyalgia. She currently serves as director of NSU's Institute for Neuro-Immune Medicine, professor of medicine, and chair of the Department of Clinical Immunology at NSU's College of Osteopathic Medicine. She is also professor emerita at the University of Miami School of Medicine and director of clinical immunology research at the Miami Veterans Affairs Medical Center (VAMC) and leads the GWI and ME/CFS clinical and research program at the Miami VA. ■

COLLEGE OF PHARMACY ASSISTANT DEAN APPOINTED TO FLORIDA BOARD

Goar Alvarez, Pharm.D., C.Ph., FASCP, assistant dean of NSU's College of Pharmacy, was appointed by Governor Rick Scott to the Florida Board of Pharmacy. His term began on May 23, 2014, and ends on October 31, 2017.

Alvarez is past speaker of the House of Delegates of the Florida Pharmacy Association (FPA) and past president. He is also the 2002 recipient of the James H. Beal Pharmacist of the Year award. He joined NSU in 1999 and has served as director of pharmacy services and an assistant professor of pharmacy administration. ■

Hear & Now

ADVANCES IN AUDIOLOGY AT NSU

BY JOHN DOLEN

NSU STUDENT SHERRY RAUH WAS ON SPRING BREAK IN NICARAGUA, studying at a small language school along with her son. There, she ran across an organization called Los Pipitos, which identified children needing hearing aids, but lacked the resources to provide them. Back in South Florida, Rauh had an idea—maybe students like herself in NSU's Department of Audiology could get involved. That was the start of a beautiful story with quite a happy ending.

That would not be Rauh's first game-changing impulse. In her first career as a producer for CNN (her undergraduate degree was in journalism), she was assigned a story about children receiving cochlear implants. Seeing children hear for the first time made such an impression that she switched careers. CNN's loss was NSU's gain as the mother of two enrolled to pursue a career in audiology.

Currently, audiology is considered among the best careers. CNBC, *U.S. News & World Report*, and others have listed it as a hot job, promising career, or best job. One study even touted it as the least stressful profession. But for many entering this field, the attraction is just as often the desire to serve and make lives better.

Certainly that seems to be the case for Melissa Cordova, one of the six NSU audiology students who, in February, went on the trip that Rauh organized. Born in Miami to Cuban parents, Cordova served as a translator in the two cities they visited to fit children with hearing aids. She will never forget when one child's father, whose son had never spoken a word before, burst into tears. He'd just heard his son repeat a word he'd spoken to the child. "It was so emotional," she said.





At left: Taylor Paige tests Jose A. Quiles with auditory brain stem response (ABR) as Julia Andrews, above, prepares to see a patient.

Below left: Jennifer Van Dorn examines April Stephenson.

Below center: Patricia Gaffney, associate professor, left, supervises a balance test with students Melissa Gonzalez, Chelsea Studley, and Marvin Thomas.

Below right: Kelly Sharpe works with an infant simulator to learn how to test a baby's hearing.



Cordova's undergraduate work was in speech therapy, which led naturally into audiology. She chose NSU for postgraduate study because of the array of nationally known experts on the faculty in the department, and also because of the new audiology clinic and student lab. "It's just amazing," said Cordova, who is at the end of her second year. "There is so much variety in the technology they have available to teach us."

The next sound you hear will be the emphatic agreement on the value of that new clinic by Erica Friedland, Au.D. She is chair of audiology in the College of Health Care Sciences, overseeing 7 faculty members and 68 graduate students. NSU's respected program has been made even more attractive since the inauguration of the clinic just a year and a half ago.

With various learning tools and newer utilities—one shining example being the rotary chair used to help treat patients suffering from dizziness and balance problems—the school can boast enhancements in both educational opportunities and service to the community, which are both among NSU's Core Values.

Friedland came to NSU in 1998 as a professor while simultaneously pursuing her doctorate. She became chair of the department in 2008 after following a career path that included receiving a B.A. in Communications Sciences and Disorders from the University of Florida, a

master's degree from Vanderbilt University, and a five-year stint at the University of Miami working in pediatrics.

Like many professionals at this level, she took a key turn along the way. As an undergraduate student uncertain of a career direction, she took a test from a counseling service. It pointed her to courses in speech pathology, which she came to intensely dislike. Yet it wasn't a waste: she loved a related class, Fundamentals in Hearing. That was the signpost to her future.

Friedland explained that the "young" profession of audiology came about in the 1930s and 1940s, when war veterans came back with hearing loss. NSU's

program, a four-year postgraduate course culminating in a Doctor of Audiology, consists of three years of classroom study, with simultaneous clinical experience, followed by one year of full-time externship clinical experience.

"Hearing loss can come at any age, from newborns to baby boomers, with symptoms mild to severe," she said. "Tinnitus and vertigo are also growing concerns. Your ears and balance system get old like the rest of your body, even in your early 40s."

The significance for baby boomers, who increasingly want to stay active, is that the science of audiology has exploded with the kinds of new diagnostic and treatment gadgets that baby boomers love. Hearing aids tuned by mobile phone apps, anyone?

Rotary Chair Checks for Balance

Speaking of the new technologies, what exactly is that rotary chair? Resident expert Patricia Gaffney, Au.D., explained that it's much more than that prosaic-sounding name.

"It looks like a dental chair," said Gaffney, an associate professor who came to NSU nearly seven years ago, after studying at George Washington University and the University of Pittsburgh.

Like a dental chair maybe, but one you're strapped into. Your head is secured, and you wear a seat belt and goggles. The chair rotates and spins, with sessions taking from 20 seconds to 3 minutes. During this time, you will be in the dark, your eye movements tracked, and the audiologist will be observing with infrared goggles.

The goal is to pin down the cause of dizziness and balance problems. Gaffney explained that our vision, inner ear, and muscles all work together, and the chair is a big advancement in how these reactions are detected.

The rotary chair at NSU is the only one in Broward County. "The fact that we have the chair here," said Gaffney, "means we've been able to bring in referrals from physicians on patients who we weren't able to see before." Gaffney added that it is also a significant attraction for audiology students because most universities don't have one.

As hearing ailments go, another growing scourge is tinnitus, that annoying sound in your head that, for some, can become debilitating. "In the past," Friedland said, "it was just expected that you live with it."

The latest science has found every person has such sounds in their head. For most, they are either subdued or play below the level of all the other sounds pouring in.



Erica Friedland, Au.D., standing, chair of the Department of Audiology, shown with student Melissa Gonzalez, oversees 7 faculty positions and 68 graduate students.

“But in others, it gets turned up, and that’s what has to be treated,” said Friedland.

Here is where NSU’s audiology department also can boast that it is on the cutting edge. Sarah Wakefield, Au.D., is trained in tinnitus retraining therapy (TRT), which “when properly administered, can be a life-changer,” said Friedland.

She added that Wakefield, who joined the staff two-and-a-half years ago, “has the knowledge, training, and patience—and proven results.”

Wakefield was schooled by a major figure in the field, Pawel Jastreboff at Emory University in Atlanta. Tinnitus retraining therapy provides educational counseling to reduce not only physical symptoms, but also anxiety and stress surrounding tinnitus. It also involves sound therapy and new technology, including apps that provide soothing ambient noise that can help the patient become less bothered by the tinnitus. Waves of the ocean gently splashing on a beach, a babbling brook, a variety of music, or even the sound of an overhead fan have been shown to provide relief.

As with other departments at NSU, audiology students come from around the world, including China, Lebanon, Saudi Arabia, Canada, and the Bahamas, among other regions.

Cordova’s trip to Nicaragua was one of many outreach programs launched by the school. In addition to working with local migrant workers and their families, students have participated in trips to Trinidad, Guatemala, and the British Virgin Islands. The Department of Audiology also has a branch institute in England where students with master’s degrees from the United Kingdom can earn a doctoral degree in audiology.

When fourth-year student Rauh first proposed her service project in Nicaragua, it was to the NSU Student Academy of Audiology, a professional organization. The members were all hands in, and then came NSU itself and corporate sponsor Phonak, which donated the hearing aids. The group provided children ages 1 to 14 with hearing exams, and then fitted them with the aids. Those devices, by the way, can be adjusted remotely from NSU—there’s that technology word again. Now in her externship, Rauh currently serves in a Hollywood clinic.

Cordova can’t wait to dive into her clinical work. Her third year will be rotated among three clinics in South Florida, and her fourth, like Rauh’s, will be a full year at one institution. Those can either be community outlets, like the VA, or even at the practice of local alumni.



Graduate students Brooke Michaels and Siran Liu test a patient for dizziness and balance problems utilizing the rotary chair, the only one in Broward County.

Cordova’s future goals?

“It is still too soon to make that final decision, but I have grown fond of the vestibular and balance part of our field. I hope in the future to work in a clinical setting that specializes in tests and treatments in this area,” said Cordova.

So, what about this study that says audiology is the least stressful profession? “Funny you brought that up,” said Gaffney. “A lot of audiologists were upset by that.” She added that, if it is less stressful, one reason could be that the work is very rewarding. Another, she said, is something a lot of people can appreciate. “There are no lack of jobs when the students graduate. That’s also less stressful!” ■

Continuing 40 Years of Legal Education

JON M. GARON NAMED LAW CENTER DEAN

NSU'S SHEPARD BROAD LAW CENTER CELEBRATES ITS 40th anniversary this year, having first opened its doors as Nova University Center for the Study of Law on September 5, 1974, in the Parker Building.

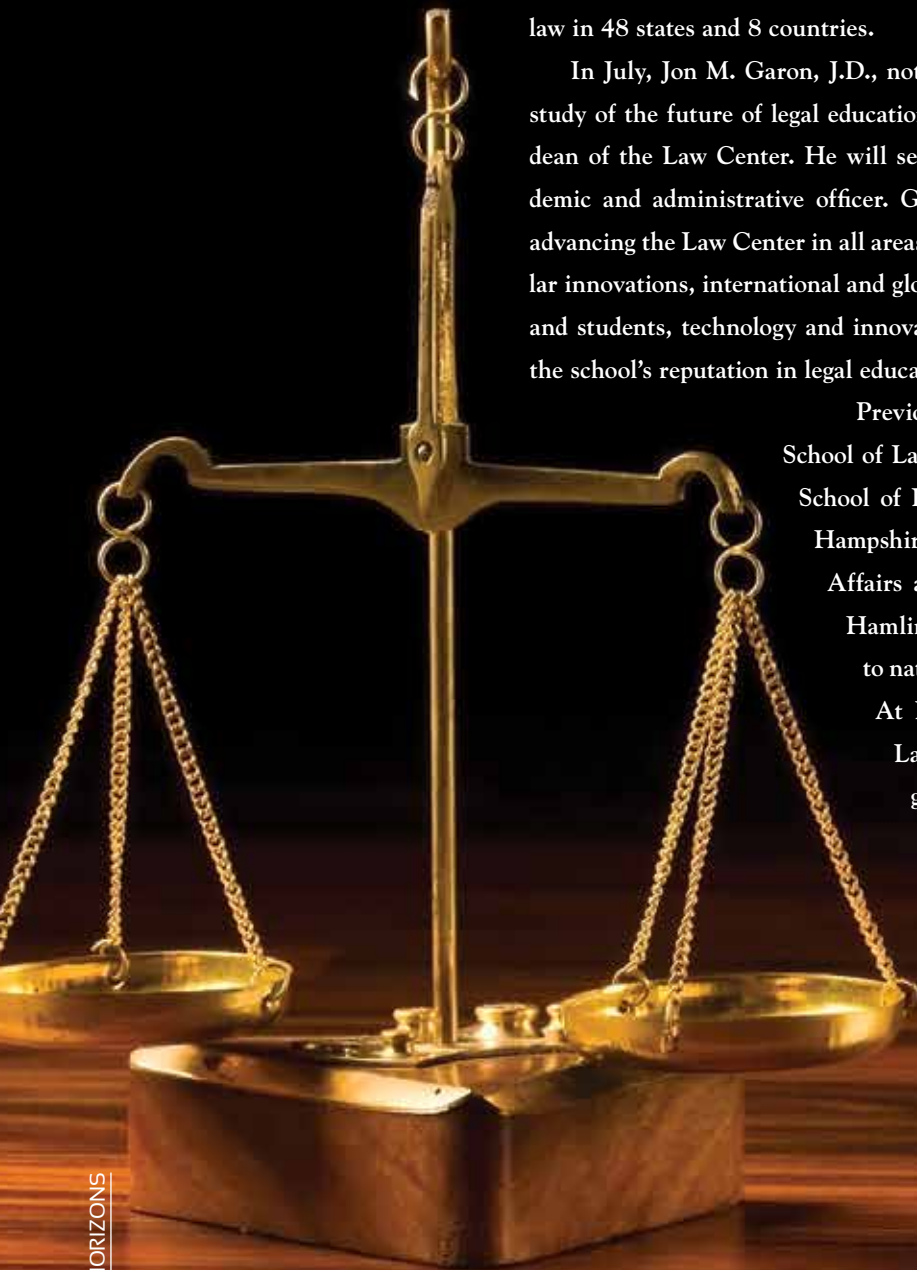
Since then, the NSU Law Center has awarded J.D. degrees to more than 9,000 students, who are practicing law in 48 states and 8 countries.

In July, Jon M. Garon, J.D., noted authority in the study of the future of legal education, became the sixth dean of the Law Center. He will serve as its chief academic and administrative officer. Garon will focus on advancing the Law Center in all areas, including curricular innovations, international and global experiences, academic excellence from the faculty and students, technology and innovation, student preparedness for professional jobs, and the school's reputation in legal education and the profession.



Previously, Garon served as dean of the Hamline University School of Law in St. Paul, Minnesota; interim dean of Hamline's School of Business; professor of law at the University of New Hampshire School of Law; and associate dean for Academic Affairs at the Western State University College of Law. At Hamline, Garon created and advanced law school programs to national ranking and managed two joint-degree programs. At Northern Kentucky University, he grew the Chase Law + Informatics Institute to one of the top 13 programs for teaching law practice technology nationwide and secured the school's first \$1-million donation.

Garon received his Bachelor of Arts in Psychology and Theater from the University of Minnesota in Minneapolis and his Juris Doctor from Columbia Law School in New York, where he was a Harlan Fiske Stone Scholar. ■



AROUND NSU

ARCARO'S WORK RECOGNIZED BY U.S. DEPARTMENT OF STATE

Tim Arcaro, J.D., professor and associate dean at the Shepard Broad Law Center, has been formally recognized by the U.S. Department of State for his work on the Hague Convention Attorney Network. Arcaro's work involved representing many individual parents attempting to recover a child who had been abducted from South Florida and taken out of the country by the child's other parent.

A certificate of appreciation was issued thanking Arcaro for generously donating his legal services in assisting parents and for contributing to the effective operation of the Hague Convention in the United States.

The certificate was issued by Beth Payne, director, Office of Children's Issues, United States Central Authority for the Hague Convention on Civil Aspects of International Child Abduction. Arcaro also received commendations from Patricia Hoff, legal assistance coordinator for the U.S. State Department, Bureau of Consular Affairs, U.S. Central Authority for the Hague Convention on Civil Aspects of International Child Abduction.

The Department of State's Office of Children's Issues actively seeks lawyers who are willing to participate by assisting parents involved in international family law and child abduction cases. By joining the Department of State's Hague Convention Attorney Network, attorneys provide the critical assistance necessary to navigate through the legal system.

Arcaro has been a member of the Law Center's faculty since 1994. After serving as a clinical instructor in the Civil Law Clinic, he was appointed director of the Children and Family Law Clinic in 1998. He became director of the Master of Science in Health Law program in 2003, and served in that capacity until being appointed director of the Master of Science in Education Law program in 2005. Arcaro teaches both online and on-site courses. ■

LAW ALUMNI HONORED

The Shepard Broad Law Center was among the top five law schools in Florida with the most graduates selected as Florida Legal Elite. There were 44 NSU law alumni honored as Florida Legal Elite, which has selected attorneys for inclusion in this prestigious group, based on peer review, for the past 11 years. Fewer than 2 percent of active Florida Bar members practicing in the state are selected. These lawyers epitomize a high standard of excellence in their profession and have gained the respect of their colleagues. ■

ROGOW NAMED FOUNDING PROFESSOR

Bruce S. Rogow, J.D., who has been with the Law Center since its inception, has been honored as a "Founding Professor" by NSU's Board of Trustees and George L. Hanbury II, Ph.D., NSU president and chief executive officer. Rogow was honored for his "commitment to the mission of Nova Southeastern University in ensuring that its students develop the knowledge, skills, and values that are at the heart of becoming trusted, highly adept, professional lawyers, which is as evident today as it was when the university's Shepard Broad Law Center began in 1974."

After 40 years as a professor of law at Nova Southeastern University, Rogow has retired. Others who also have retired from full-time teaching at the Shepard Broad Law Center include Johnny Burris, 35 years; Marilyn Cane, 31 years; Lynn Epstein, 25 years; Joseph Harbaugh (dean emeritus), 19 years; Gail Richmond, 35 years; Eloisa Rodriguez-Dod, 21 years; Marc Rohr, 38 years; Charlene Smith, 11 years; and Steve Wisotsky, 39 years. ■





NSU has a robust, comprehensive emergency management program.

Keeping NSU Safe

**“NSU gave me the
opportunity to specialize.”**

—John Barnwell



NSU alumnus John Barnwell is an adviser and subject-matter expert at the Federal Emergency Management Agency National Preparedness Directorate and the U.S. Department of Homeland Security.

BY JODI NODING

THE WELL-KNOWN BOY SCOUT MOTTO “BE PREPARED” is the heart of John Barnwell’s (M.B.A., 2006) role as an adviser and subject matter expert at the Federal Emergency Management Agency (FEMA) National Preparedness Directorate and the United States Department of Homeland Security. He specializes in medical, public health, and general emergency and disaster preparedness.

He has also brought that expertise home, as a consultant with Nova Southeastern University, to create a comprehensive emergency management plan that covers every conceivable emergency situation.

Now working at FEMA headquarters in Washington, D.C., Barnwell grew up in South Florida and received his undergraduate degree in biological sciences from Stanford University. For graduate work, Barnwell immediately considered the H. Wayne Huizenga School of Business and Entrepreneurship.

“I had heard for a long time about the strength of NSU graduate programs. The Huizenga School was just the right size, had a great reputation, and was well connected in the community. It was just the best program,” he said. “There were sensible options for working students and multiple opportunities to collaborate with other graduate programs,” he added.

He also was impressed with the accessibility and support of NSU professors. “Among other subjects, I had a couple of great professors in both marketing and human resource management. Those were favorite courses and stood out because they integrated current events with individual and group presentations,” he said, citing instructors Leslie Tworoger, D.B.A., and Daniel Austin, Ph.D., NSU professor emeritus.

Barnwell also liked being part of a university that was growing. “I was there when the RecPlex had just been built. It was another feather in the cap of the university, an investment in the right direction, and a welcome addition to the other first-class facilities on campus. We’ve also seen the creation of other structures, such as the Center of Excellence for Coral Reef Ecosystems Research. These are tangible assets to the community that will do great things for a long time to come,” he said.

FROM AN M.B.A. TO NATIONAL SECURITY

How does an M.B.A. graduate end up in the Department of Homeland Security? “NSU gave me the opportunity to specialize,” he said. And with his interest in the sciences, Barnwell decided to focus his M.B.A. in health services administration.

His first yearlong position out of graduate school, as an administrative fellow at Holy Cross Hospital in Fort Lauderdale, was designed “to participate in hospital operations, contribute to how a hospital is run, and guide what happens from patient admittance to discharge.” That position, combined with a series of hurricanes that struck South Florida at the time, laid the groundwork for his move to Jackson Memorial Hospital in Miami. During his three-year tenure there, Barnwell served as assistant administrator for the emergency management program. Jackson, considered to be one of the leading pediatric and adult trauma and burn centers in the United States, is one of the few academic medical centers in the nation capable of handling major disaster situations. While at Jackson, a number of natural disasters struck, causing Barnwell to refocus his priorities.

“A series of hurricanes came through and further solidified me in emergency management,” Barnwell recalled.

“I thought, ‘How do you keep a large, public hospital and community safety net—that can’t close its doors—prepared and running in the midst of a serious disaster?’ Sustaining hospital operations when disaster hits—like maintaining power, responding to a surge of patients overwhelming the emergency room, or having to evacuate parts of the hospital and transfer patients to other facilities—interested me.”

Technically a subject matter expert on medical and public health issues, Barnwell helped his agency move beyond disaster response in the field. “That had been FEMA’s specialty—getting people shelter and helping them apply for assistance. But FEMA was still developing a medical and public health response, with the goal to efficiently treat disaster survivors who need more extensive medical or public health care. That’s how I started,” said Barnwell, who joined FEMA in 2010.

Barnwell, who also serves as cochair of NSU’s Washington, D.C., Metro Area Alumni Chapter, is part of a team that meets regularly with White House officials to ensure FEMA continues to identify likely threats and build core emergency response capabilities at the local, state, regional, tribal, and national levels.

His other roles include helping to coordinate national mutual aid, such as when equipment and personnel may be needed quickly from neighboring states. “You need to have an existing system and agreements in place to request and receive that assistance,” he explained. Barnwell is working on threat and hazard identification; risk assessment; and a national initiative to help responders identify potential natural, technological, and man-made threats and hazards. He is also working to further develop and sustain response capabilities.

RETURN TO NSU

Barnwell has brought his knowledge back to NSU. He and another FEMA colleague traveled to NSU in 2012 to discuss risk management, create a sustainable business-continuity plan, and further develop the university’s entire emergency management program. They worked with James Ewing, director of NSU’s Public Safety Department, and Leonard Levy, D.P.M., M.P.H., director of the Institute for Disaster and Emergency Preparedness (IDEP) and a professor in the College of Osteopathic Medicine.



The key to a safe campus is a solid and diverse communications plan using multiple platforms.

“We discussed ways to leverage the capabilities of the existing Institute for Disaster and Emergency Preparedness and combine its efforts with NSU’s Public Safety Department, to create a more robust and comprehensive emergency management program, encompassing all NSU campuses. Following that initial face-to-face meeting, we maintained communications,” said Barnwell, adding that Jacqueline A. Travisano, M.B.A., CPA, NSU’s executive vice president and chief operating officer, “has been a critical and supportive point of contact from university administration.”

As a FEMA representative, Barnwell provided documents, guidance, feedback, review, and evaluation and helped NSU connect with Florida emergency management officials for further assistance. He also provided guidance to NSU’s Public Safety Department in its planning of a mock drill to activate its incident command system and test its current capabilities.

“We provided guidance on the consideration of all possible disaster scenarios that could affect each NSU campus,” he said. These natural and man-made disasters include

terrorism, hurricanes, tornadoes, flooding, tsunamis, extreme heat, structural failure, and power loss, among others.

Barnwell makes it clear that FEMA did not draft NSU's Comprehensive Emergency Management Plan (CEMP) nor does it claim any responsibility for the plan. "NSU worked with me to further develop its program. NSU was receptive to FEMA's support and continues to correspond with me, as needed, as its primary point of contact at FEMA," said Barnwell.

"FEMA wants to increase emergency preparedness in higher education and is receptive to any institution that recognizes, as NSU does, that it's an important investment to develop and maintain a comprehensive emergency management program," he said. "The investment represents being a stronger community partner and an educational pillar, as well as a resource center for training, education, preparedness, response, recovery, and mitigation.

"We do have challenges in trying to convince educational institutions that it's a logical investment. Schools have legitimate concerns about financial resources, but NSU has a real commitment from the university president," added Barnwell.

NSU is ahead of the national curve in keeping its campus safe, Barnwell said. "Keeping students free from threats is a challenge. Remember that these are very open campuses. We have to consider how to protect environments without visible signs of security. The university has support and a wealth of resources."

Key to keeping students and faculty and staff members safe on any campus is having a solid and diverse communications plan using multiple platforms including computers, public announcements, and mobile phones to keep those on campus informed of emerging or immediate threats.

"The real goal is to get a program to a certain point, and then it's easier to maintain it," Barnwell said. "These plans are a work in progress and are living documents that need to be revised and updated as the world changes and capabilities change to respond to those changes. NSU has the awareness and is well on its way to becoming a leader in the community in changing outcomes for the better for emergency and disaster survivors." ■

AROUND NSU

NSU: A GOOD ENVIRONMENTAL NEIGHBOR

Nova Southeastern University occupies more than 300 acres of land in Davie, making its main campus one of the town's largest areas. As an environmentally conscious neighbor, NSU utilizes recycling programs, energy-efficient building strategies, and, its latest endeavor, a partnership with the town of Davie to make use of reclaimed water. (See story on NSU's environmental approach starting on next page.)

"More than 80 percent of the main campus and the entirety of Grande Oaks Golf Club will be on reused water by the end of this calendar year," said Peter Witschen, M.P.A., vice president of facilities for NSU.

Reused water also will be used in the cooling towers for the central energy plant. According to Phillip Holste, development administrator for the town of Davie, NSU's participation in the Water Reclamation Program, which uses reclaimed water for irrigation and chiller use, reduces the use of drinking water "by as much as 1 to 2 million gallons a day."

According to Witschen, the reclaimed water program is part of an overall effort by the university in sustainability from "how we design buildings to how we manage the cooling of our facilities; all of which is of a primary concern."

The Shark Recycling Program, part of the "Go Green at NSU" initiative, has more than 100 blue, 96-gallon recycle bins located around campus. According to Anthony Iovino, assistant director of NSU's Physical Plant in the Office of Facilities Management, four to six tons of mixed paper and cardboard are collected weekly. About two tons of glass, aluminum, and plastic also are collected weekly.

In 2014, NSU placed fourth in Florida and 89th overall among colleges and universities in the annual RecycleMania Tournament.

The Center of Excellence for Coral Reef Ecosystems Research at NSU's Oceanographic Center, which opened in 2012, was recognized for its environmentally sound construction and design with the LEED (Leadership in Energy and Environmental Design) Silver certification by the U.S. Green Building Council. The facility was constructed by Moss-Miller, LLC, to incorporate the latest green technologies, including water savings, energy efficiency, indoor environmental quality, sustainable site development, and building materials and resources selection.

Witschen said that future university building projects will be constructed with the idea of obtaining at least LEED Silver certification. LEED certification begins at Certified, then Silver, then Gold, then Platinum. These projects include the Center for Collaborative Research, which is currently under construction, and the Sports Center II, which is expected to break ground before the end of 2014. ■

Kate Correia, a graduate student at the Oceanographic Center, leads Amanda Costaregni as they scout for trash, helping clean the waterways of John U. Lloyd State Park in Dania, Florida.



A person in a green tank top and black shorts is standing on a blue paddleboard in a calm body of water, surrounded by lush green mangrove trees. The sky is blue with some white clouds. The word 'green' is written in large, stylized letters across the middle of the image, with a green and yellow outline and a green leaf pattern inside the letters.

at nsu, it's easy to be

green

BY MICHELLE F. SOLOMON

A STREAM OF KAYAKS AND PADDLEBOARDS CRUISE the waters in John U. Lloyd State Park in Dania Beach, but it's not a recreational day on the water. An important task is at hand. Kate Correia, first-year graduate student and full-time research assistant at Nova Southeastern University's Oceanographic Center (OC), leads 17 students and 4 faculty and staff members on a coastal cleanup of the park.

"We were able to pick up enough trash to fill an entire dumpster," said Correia, adding that a storm rolled in during the cleanup "so we had to end about an hour early for safety reasons." She estimated that, in only a few hours, about 300 to 500 pounds of trash were collected from the waterways and beaches surrounding the park in which the OC is located.

Farquhar College of Arts and Sciences professor Paul Baldauf, far right, leads students in testing water on the main campus.

The Coastal Cleanup coincided with World Oceans Day, but the environment is front and center at NSU every day. Mother Nature is studied, researched, and rallied for in the university's laboratories and classrooms; on campus; in study abroad programs; in community efforts; and even in art exhibits at the Alvin Sherman Library, Research, and Information Technology Center. With NSU's geographic location, myriad opportunities exist for students and faculty members to become immersed in environmental issues.

"NSU is deeply committed to protecting and restoring the environment, as well as educating the public on conservation. NSU researchers are working to unlock secrets of our oceans and marine life while instilling that passion for environmentalism and conservation in the next generation of scientists and researchers," said George L. Hanbury II, Ph.D., president and CEO of the university.

Prime location

NSU's Shepard Broad Law Center is at the center of this hot-button concern. "Many of the cases worked on by students in our clinical program have involved the Everglades and the Florida Keys," said Joel Mintz, J.D., LL.M., J.S.D., a renowned author on environmental law issues and professor of environmental law at NSU's Shepard Broad Law Center. "The Everglades is a truly remarkable, precious natural resource. It is recognized as such, nationally and internationally. It is also seriously threatened. Our proximity to the 'River of Grass,' as it was termed by Marjorie Stoneman Douglas, and to the Florida Keys, which are also fragile and environmentally endangered, provides great opportunities for budding environmental lawyers to learn their craft."

Mintz said that student interest in pursuing environmental law as a career has "continued at a steady level for quite a few years. Many students understand that their own futures—and the quality of life of their children and grandchildren—depend on sensible environmental protection and prudent conservation of natural resources in a world in which human population continues to grow rapidly."

Mintz and Richard Grosso, J.D., the Law Center's clinic director, founded NSU's Environmental and Land Use Law Clinic. Mintz explains that the clinic begins with three weeks of "very intensive" in-house training, which prepares students



for their clinical experience. For the remainder of the term, he said, the students have the opportunity for either an externship or an internship. "For an externship, students work on pro bono environmental or land-use cases under the supervision of an attorney—who has been preapproved by the clinic director—in a government office, a private firm, or an environmental public interest law firm," Mintz said.

Similarly, during the internships, students work on pro bono environmental or land-use cases under the supervision of the clinic director. Those students may work with community citizens' organizations, for instance, which Mintz said provide valuable hands-on experience in environmental and land-use law. "A good number of our students obtained their first legal job after graduation as a direct result of their work in the clinic," said Mintz.

A relatively new study abroad program, according to Catherine Arcabascio, J.D., associate dean for international programs and professor of law, uses case studies from the Czech Republic to teach law students about the environment and how it impacts human rights. In a partnership between NSU and Charles University in Prague, Czech Republic, the oldest university in Central Europe, law students attend classes at Charles University where they can earn an LL.M. (Master of Laws) degree in International Human Rights and Protection of Environment.

"It's an interesting program because it takes in the environment as it concerns human rights, such as the basic right for access to water, which is a big issue around the world. Students are learning not only about environmental law, but human rights issues, as well. Charles University is an interesting place for them to study, too, as it relates to Eastern European history," said Arcabascio.

Near Gold Circle Lake, students plant a Rainbow Eucalyptus that, as it grows, will show multicolored streaks on its trunk.



Climate changes

But the Oceanographic Center and the Law Center are not the only NSU schools tackling environmental issues. In 2010, the Farquhar College of Arts and Sciences began its Climate Sustainability Lecture Series to increase understanding of the science and impact of climate change. Experts from the college and other institutions are featured speakers, giving students and faculty members the opportunity to discuss scientific, technological, and policy aspects of climate change.

"This is opening a window for students to see how modern research is being done," Song Gao, Ph.D., associate professor teaching chemistry and faculty adviser for student research, stated in a previous NSU interview. "Through courses in chemistry, environmental sciences, and other disciplines, we are bringing and enhancing the environmental dimension of the college."

Leela Mansukhani, a junior in Farquhar College's Undergraduate Honors Program who is majoring in environmental studies, will spend next semester focusing on environmental

issues at The Washington Center for Internships and Academic Seminars. This center offers students from across the country hands-on experience as interns at government organizations in and around the nation's capital.

Mansukhani became interested in environmental issues in her senior year of high school when she attended a boarding school at the foothills of the Himalayan Mountains in India. "It's easy to forget the simple benefits of sitting outside and staring at the sky, or breathing in the smell of fresh grass and trees," said Mansukhani, who is working on a campaign to get plastic water bottles removed from the campus.

Don Rosenblum, Ph.D., dean of the Farquhar College of Arts and Sciences, said students like Mansukhani are "much more acquainted with the environment and its importance than their predecessors. Because of this, environmental issues have become a growing area for us where students are doing much of the leading and some of the teaching. The enthusiasm we see in students is really a part of what's helped us to grow exponentially in this area."

Meanwhile, at NSU's Mailman Segal Center for Human Development (MSC), art programs combine learning about the environment with helping children use their creative skills, according to Roni Leiderman, Ph.D., dean of the center.

"It's just one of the programs we have here, and it exposes children to using recycled materials to create works of art and other things, rather than just sending a message that when you are finished with something, it just ends up in the trash," said Leiderman. From avoiding processed treats to using non-toxic cleaning materials, it's all "part of the process of working with developing children. Our students are very young, so we model what we want them to learn, whether it's through projects or eating healthy foods, but it's all done in an educational, yet very playful way," Leiderman added.

Environmental impact

Collaborative efforts at NSU's Health Professions Division also shed light on environmental issues. Cutting-edge research being done in a laboratory at the College of Pharmacy puts an emphasis on the environment and how much it contributes to women developing breast cancer.

Jean Latimer, Ph.D., and her team—which includes Stephen Grant, Ph.D., and graduate students Manasi Pimpley, Omar Ibrahim, and Homood As Sobeai—study how and when breast cancer develops and especially its relation to certain environmental agents. Her laboratory has developed non-diseased breast cultures to use as a model system for environmental chemical assessment.

“Since we can create the plumbing system of the human breast in culture, we can find out what might disrupt this system,” said Latimer. “Breast cancer and other cancers have been looked at as the medical community ‘dealing’ with the cancer after it has developed. Our research is driven by defeating it, and part of defeating it is to find out the causes and how to prevent it.”

Coordinating with other NSU researchers has enhanced Latimer and her team’s work. “When you can work with people in different disciplines, it opens up so much possibility,” she said.

Latimer has been working with Oceanographic Center scientists, such as Jose Lopez, Ph.D., regarding data he’s gathered from the Deepwater Horizon oil spill, and with researchers in the Health Professions Division who are studying DNA repair. “We’re generating cultures from South Florida women, too,” which includes looking at the impact of the Deepwater Horizon oil spill and some of the chemicals that have been identified in fish. “That work is ongoing,” said Latimer. (See profile on Jose Lopez on page 24.)

Latimer’s studies involve looking at varied ethnicities and the environment. “In this way, we can start to address epidemiology and how chemicals affect breasts among different ethnic groups,” she said.

A tree grows

The College of Pharmacy also contributes to the environmental quality of campus life through its Healing and Medicinal Garden. In 2010, Carsten Evans, Ph.D., executive director of continuing education at the Health Professions Division, redeveloped the garden, which was inaugurated in 1998.

The garden, just west of the Alvin Sherman Library, has tropical plants from around the world that contain medicinal properties. Evans enlisted Davie garden designer Jesse Durko to create the landscape that incorporated integrative medicine attributes. Durko called the garden “an oasis within the university complex.”

Likewise, at the University School, students have their own garden where they help to grow seedlings that are eventually sent to Haiti. The project began as part of the upper

school’s WIND (World in Distress) Club, but has now expanded to include all grades. Last April, students planted 200 Moringa seeds in collaboration with Bio Planet International for the Trees for Haiti Project. The students tended to their seedlings. After they sprouted, they were sent to Haiti.

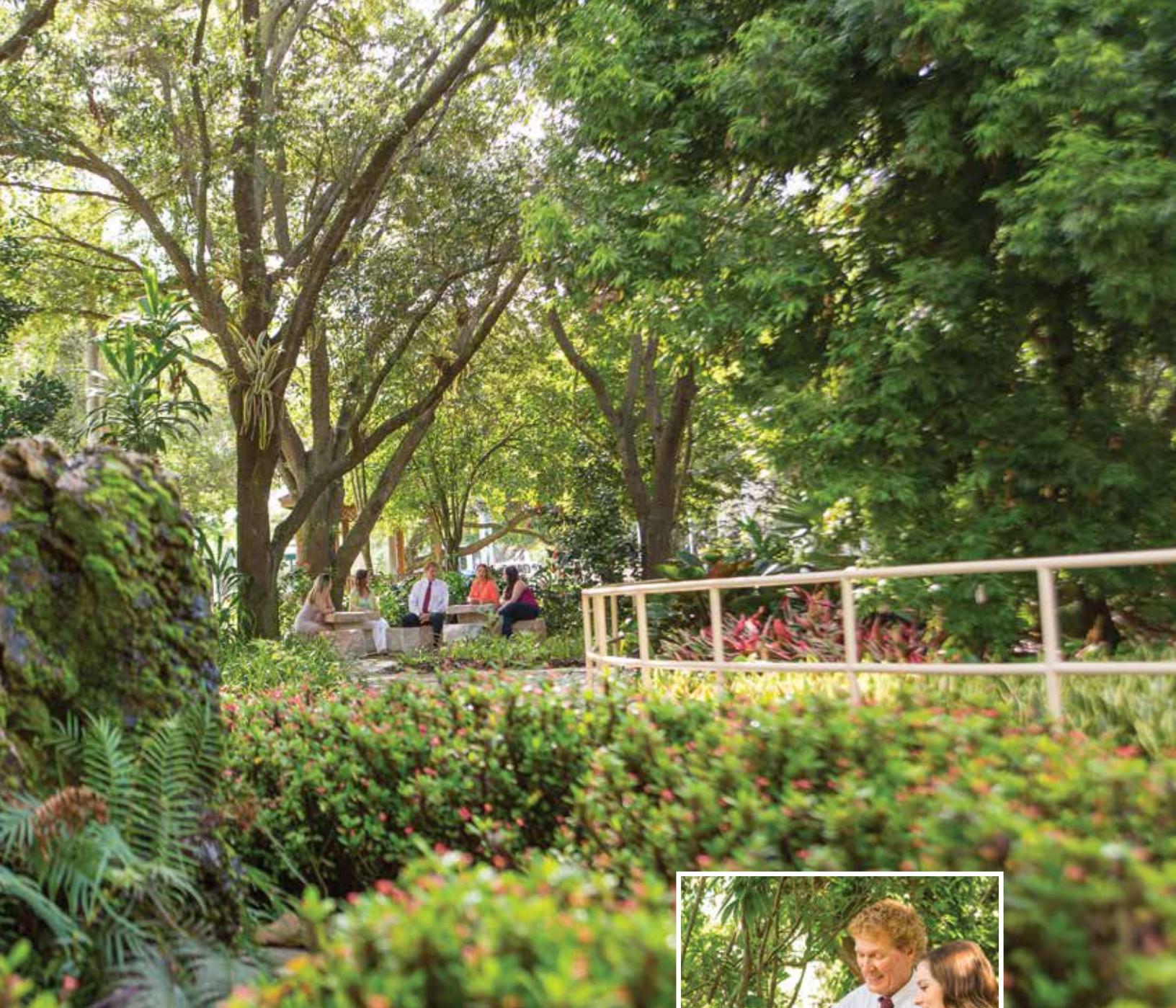
Kevin Dibert, WIND Club teacher sponsor and Upper School mathematics teacher at University School, said “there is a plaque in Haiti right by our very own University School Moringa Forest, behind the Jarden Tap Tap School in Cite Soleil, Haiti. Not many schools have their own forest in another country, so this is something of which our students are very proud.”

The forest is in Haiti’s largest urban garden and will provide an additional source of nutritional benefits, and hopefully income, for the community. The Moringa is called a “miracle tree” because its leaves contain very high concentrations of vitamins, iron, and other nutritional compounds. “This project continues to grow each year, and we hope it will continue for many years to come,” said Dibert.

At the Gold Circle Lake, near the Law Center, on the Davie campus, another tree symbolizes NSU’s contribution to Earth Day 2014. Sanne Siska, a business administration major in the Undergraduate Honors Program, helped spearhead Earth Day activities on campus that she said grew to be a community event in a quick three weeks.

“Since the start of my freshman year, I knew my role on campus was to involve the community and get them in closer contact with nature,” said Siska. She became “the student sustainability representative at NSU” after speaking with many faculty members and gaining the support of Dean Rosenblum.





Working with NSU's Office of Facilities and its Physical Plant, a tree that Siska calls "symbolic" was planted and dedicated during this year's Earth Day. "The tree is called a Rainbow Eucalyptus, and it's unique in that it has multicolored streaks on its trunk. The proximity to the water at Gold Circle Lake will help it grow into a healthy, strong, and well-rooted tree," she said.

Siska hopes her enthusiasm will get other students involved in environmental activities. "I've realized that students perceive the role of being green as boring and inactive, but my plan is to change this perception at NSU. Going green can be a party!" ■



Professor Carsten Evans discusses the College of Pharmacy's Healing and Medicinal Garden, above, with student Tiffany Harrison. In 2010, Evans redeveloped the garden, which contains tropical plants from around the world that have medicinal properties.

Putting Sponges and Genomes on the Map

BY MICHELLE F. SOLOMON

SYMBIOSIS HOLDS A DUAL MEANING for Jose Lopez, Ph.D., a professor and researcher at NSU's Oceanographic Center (OC). As a biologist, his research is symbiotic with his main focus—the study of marine sponges and their microbes. But, his research also connects to the world around him.

“Everything lives together, nothing lives in isolation,” said Lopez. Although he’s talking about the interactions between different organisms, as well as the evolution of the organisms he studies, he is also referring to how he approaches his work and what he instills in his students. “There is a symbiosis that is essential in the field of biology. You learn from each other. One person can’t, and does not, know everything,” added Lopez, who has been at NSU since 2007.

Call it collaborative symbiosis—he is determined that Nova Southeastern University will become recognized for its genomics research. The marine biologist, who is also an evolutionary biologist, has plenty of new collaborative projects afoot including, but not confined to, a certificate program that has just begun at the OC in computational molecular biology. Then, there’s the initiative called the Global Invertebrate Genomics Alliance, a community of invertebrate biologists dedicated to comparing and understanding invertebrate genomes in an evolutionary and ecological context. Lopez is planning a workshop for the group in Munich next year so it becomes “truly international.” He has begun another crowd-funding project to study human skin microbiomes. “The data could have future health impacts as part of ‘personalized medicine’ profiles,” he said. For more information, visit www.nova.edu/ocean/microbiome.

His genomics research recently got a boost. A collaborative grant with fellow biologist and principal investigator, Robert Smith, Ph.D., from the Farquhar College of Arts and Sciences, helped to fund a gene-sequencing machine that was recently installed in Lopez’s lab at NSU’s Center of



Excellence for Coral Reef Ecosystems Research. The grant was from the U.S. Department of Defense. Called the MiSeq desktop sequencer, Lopez said the machine will help researchers determine the DNA sequences of human skin as well as nonhuman (marine) microbiomes. “It’s an educational tool, too, because we are going to be able to train students to use it. We can also generate lots of data and, with this kind of sophisticated equipment at our fingertips, we can come up with some exciting new projects.”

Developing the next generation of researchers, and more importantly, those who leave NSU with hands-on skills that they can take into the real world, is one of Lopez’s primary concerns. “The sciences haven’t always typically been about getting jobs. For those who want to be scientists, there are a limited number of places you can go—academia, government, or industrial research,” said Lopez, who is helping to change that. The Computational Molecular Biology Graduate Certificate that the professor was instrumental in creating was designed to assist students’ entry into the genomics industry and workforce, a sector that is projected to grow robustly in the next decade.

“My graduate students are going to be able to do research with these new certificate programs’ tools and resources that



Professor Jose Lopez's research takes him from diving explorations (opposite page and below) to the classroom at NSU's Oceanographic Center. At left, Lopez demonstrates to students Lauren O'Connell and Cassandra Ruck, visiting Brazilian researcher Rodrigo Rodrigues Domingues, and student Josh Stocker.

are forward looking. It will provide a solid foundation to both genomics and computer science fields, and introduce bioinformatics theory, resources, and databases, which are going to be so essential," he said.

The dedication Lopez has to his students and science does not go unnoticed by his colleagues.

"Jose Lopez is an outstanding faculty member of the Oceanographic Center. He graciously gives of his time and talents to organize the visiting faculty members and researcher seminar series, as well as our OC Quality Improvement Program. He does this and, at the same time, conducts dedicated research with the goals of both better understanding and conservation of marine resources," said Richard E. Dodge, Ph.D., dean of the Oceanographic Center.

Much of Lopez's interest in microbiology and metagenomics in the past 17 years has been focused on marine organisms, specifically, deep-sea sponges, the simplest and most primitive form of multicellular animals.

Two of his most important studies on sponges will continue to have far-reaching and, most likely, positive outcomes on understanding changes in the environment due to pathogens. As one of the recipients of a block grant that was awarded to the Florida Institute of Oceanography from the petroleum industry company BP Global, Lopez collected sponges near the Deepwater Horizon spill in the Gulf of Mexico in 2010. The oil spill was the worst in history. "These filter feeding sponges behave as good barometers to detect the oil's impact on marine environments," said Lopez at the time. Four years later, Lopez said the findings will be published "as we are just getting together our papers that contain the work we did concerning the oil spill."



He continues work on a project begun two years ago with students in his lab on the genetic and microscopic analyses of barrel reef sponges (*Xestospongia muta*) that have been hit with sponge orange band disease. The disease has devastated the barrel sponge, sometimes called the redwoods of the reef because they live for long periods of time, many for more than 100 years. Lopez and his researchers are comparing the diseased samples with healthy samples to try to find out what caused the outbreak, which occurred in 2012. In July 2014, a new outbreak of sponge orange band disease suddenly appeared in the Florida Keys.

Lopez humbly proclaims that he's not one for personal accolades. "What pulled me into this field was a fascination with how life works. And if I can help education and awareness increase because of what I do, or see a reef protected, or people become more aware and greener, that is satisfying." He's also not too worried about job security for himself or for his students. "The ocean is always going to offer up questions. It's so vast; there's plenty out there to study." ■

Making It Compute

BY MARY HLADKY

FROM THE TIME HE WAS YOUNG, GREG SIMCO HAD a pretty good idea that his future career would involve computer science.

His father is Edward Simco, Ph.D., who created Nova Southeastern University's computer science program in 1975 and later became dean of the Center for Computer and Information Sciences. With a bachelor's degree and a master's degree in physics, the elder Simco now teaches statistics and research methods as a professor at NSU's Center for Psychological Studies.

"I was around math, science, and technology from a young age," Greg Simco, Ph.D., professor and researcher, said. "I guess it was in my blood."

A professor at the now-named Graduate School of Computer and Information Sciences, Simco teaches courses in operating and distributed systems. He also designs curriculum and develops graduate programs. He is also an avid researcher, with his work coming under the umbrella of making operating systems more dependable.

Simco, 52, now has another mission. He and Meline Kevorkian, Ed.D., associate provost, earned a \$3.9-million, U.S. Department of Education (DOE) grant for NSU last year. The grant, from the DOE's Hispanic-Serving Institutions Program, is the largest Title V grant NSU has received.

Money from the five-year grant is being used to develop programs and services to better meet the needs of underserved students pursuing science, technology, engineering, and math (STEM) careers. NSU is collaborating with Broward College to reach and help more students.

"NSU is very proud of the commitment of Greg Simco in supporting educational opportunities in the high-demand fields of computer science and technology for Hispanics and other traditionally underrepresented communities," said Ralph V. Rogers, Ph.D., executive vice president for academic affairs and provost.

Simco is aiming to solve a big problem facing higher education. Employers are desperate to hire workers with STEM degrees, but can't find enough of them. At the same time, many students don't consider pursuing these degrees. Some of those who do, find the work too demanding and drop out. The goal, he said, is to attract students into STEM fields, keep them motivated, and provide support services to help them if they hit roadblocks.



"That is what makes it exciting," Simco said. "It is not just about me doing computer science." As he sees it, computer science is the "hub of our wheel" because of its centrality to employment now. From that hub will radiate other parts of the STEM initiative, he added.

According to Simco, NSU won't be training all students to be computer scientists, but will use computer science to help students land in well-paying STEM careers. "We see it supporting all STEM fields," he said.

While Simco brings computer science expertise to the effort, Kevorkian brings her background in science education. The DOE grant is intended to help underserved students, but all students will benefit, Kevorkian said.

"We are getting them support. Any difficulties or challenges they have, we are assisting them. We are helping them make the connection to careers early on, so they don't give up," she said.

Kevorkian and Simco have worked together to get grant funding since 2010. They have six other applications pending now. "I would be hard pressed to say I want to work on a grant without him," Kevorkian said of Simco. "We make a good team. We are trying to collaborate across different disciplines."

Simco, who earned his master's and Ph.D. computer science degrees at NSU, joined the faculty as an assistant professor in 1998. Before that, he was technical team lead for IBM in Boca Raton, developing kernel functionality in the OS/2 operating system.



Greg Simco's legacy in computer science may have started with his father, Edward (below left), who created NSU's computer science program in 1975 and later became dean of the Center for Computer and Information Sciences. Below, Simco instructs the next generation of students, including Shamley Calliard, Andres Ortiz, and Erich Von Hinken.



It was a hectic time as IBM, in an epic battle with Microsoft's Windows, worked feverishly to improve the operating system. When a new version of OS/2 was released in 1992, *The Washington Post* ran a story, accompanied by Simco's picture, on the front of its business section, describing him as "one of a new breed of young IBM programmers."

Recruited by The Panda Project in Boca Raton, Simco was director of systems software and senior research and development engineer for the start-up that was working to develop an upgradable computer. The years working in industry were valuable, Simco said, allowing him to build on his theories by developing actual products.

So too was the influence of his parents. "I attribute everything to my early foundation from the science of my father. My mother was very important to my understanding the pragmatic view of things. I got a very good balance."

When he's not working, Simco spends his time working out and relaxing with his family. His wife, Marie, is president of their son's parent-teacher organization. Max, 10, is in the fifth grade.

While his main work is teaching and research, Simco said it's important to take that to the next level by enhancing both computer science and the strength of NSU. That, Simco said, is the "greater good" that should be part of every activity.

"Don't just do one thing," he said. "Look at how that can be used to support the other goals of the university." ■



NSU OFFERS PH.D. IN INFORMATION ASSURANCE

NSU's Graduate School of Computer and Information Sciences is now offering the first Information Assurance Ph.D. for working professionals in the United States.

NSU was recently redesignated as a Center of Academic Excellence in Information Assurance Education by the National Security Agency (NSA) and the Department of Homeland Security. NSA's goal in establishing centers of academic excellence is to reduce vulnerability in our national information infrastructure by promoting higher education and research in information assurance (IA) and producing more professionals with IA expertise in various disciplines.

The Ph.D. in Information Assurance will be a comprehensive, multi-disciplinary, research program that prepares graduates for key positions in academia; federal, state, and local government agencies; and business and industry. The curriculum will combine both technically intensive and management-focused security courses to provide a comprehensive approach to the study of information assurance/information security. The first of its kind, the Ph.D. in Information Assurance will allow working professionals to earn the degree without career interruption.

For more information on the Ph.D. in Information Assurance, visit www.scis.nova.edu/doctoral/dia.html. ■

NSU CHOSEN FOR FEDERAL PARTNERSHIP

Nova Southeastern University has been selected to be a member of the Federal Demonstration Partnership, a cooperative initiative among federal agencies and institutional recipients of federal funds organized to increase research productivity, streamline administrative requirements, and maintain effective stewardship of federally sponsored research. NSU joins 10 federal agencies and more than 115 other institutions across the nation working collaboratively to improve the national research enterprise. Through this involvement, NSU will be on the cusp of pending federal policy and regulatory changes, and it will be part of the national conversation on the future direction of federal research administration. ■

Research Results in Patent

BY MARY HLADKY

JEFFREY THOMPSON, PH.D., PROFESSOR AND director of the Biosciences Research Center at NSU's College of Dental Medicine, knows the value of teamwork in research.

This year, he became one of three NSU researchers to be awarded a patent. (See stories on page 29.)

Working with his former colleagues from the University of North Carolina, he was awarded a joint patent on improved adhesion technology shared between NSU and RTI International, a leading research institute headquartered in Research Triangle Park, North Carolina. A grant from the National Institutes of Health and National Institute of Dental and Craniofacial Research funded the research.

The patent is for a surface modification technology that promotes chemical bonding between high-performance ceramic materials, like zirconia, and biological materials, such as tooth structure, or with other synthetic components, such as dentures and crowns.

The method uses a chlorosilane precursor to produce a thin layer of silica on the inert ceramic surface. This allows traditional adhesive approaches and adhesives to be used in clinical bonding procedures with a high probability of a durable bond.

"Zirconia is like Teflon®, so getting it to bond with anything is a challenge. Our chlorosilane approach is one very promising solution to the problem of adhesive bonding of zirconia products in clinical dental applications. It also could have implications in other medical and nonmedical fields," said Thompson.

"NSU is committed to research with practical applications," said Gary S. Margules, Sc.D., NSU vice president for research and technology transfer. "We are proud to partner with leading research organizations like RTI to develop solutions for the field of dentistry—solutions that could also have implications in other medical and nonmedical arenas."

While not a dentist, Thompson's training in engineering and materials science propelled him into research to make better and more durable ceramic materials used in crowns,



Jeffrey Thompson's training in engineering and materials science propelled him into research.

implants, and dentures. Just as important, is that many ceramic materials look as good as natural teeth.

That led to his research on the use of zirconia, a biomaterial that is stronger and less likely to fracture than some other materials used to repair or replace teeth. Zirconia has other advantages as well. It is biocompatible, meaning it interacts safely with the human body. It does not produce allergic reactions. And, it is used with other materials to make teeth that are aesthetically pleasing.

"They can be made to look like natural tooth structure. You can't tell the difference if the work is good," said Thompson, who has published 135 papers and book chapters.

He also aims to create materials that are easy for dentists to use. "We are trying to make these technologies simpler to use and more cost effective. Most important, we are trying to improve the treatment outcomes for the patient," said Thompson, who joined NSU's dental faculty in 2007. Previously, from 2005 to 2006, he served as professor and graduate program director of the Department of Biomedical Engineering at the University of Texas—San Antonio.

For Thompson, research continues to evolve. "Our goal is to be more and more productive in scholarly activity every year. That means research, publications, and presentations at international and national meetings. That also offers exciting opportunities. As a faculty member, you have the opportunity to be part of the process of building the university," he said. ■

AROUND NSU

NSU PHARMACEUTICAL RESEARCHER RECEIVES JAPANESE PATENT

Appu Rathinavelu, Ph.D., associate dean for institutional planning and development at NSU's College of Pharmacy and executive director of NSU's Rumbaugh-Goodwin Institute for Cancer Research, received a Japanese patent for developing a novel cancer treatment.

The small organic molecule called JFD that he and his team discovered is anti-angiogenic, meaning it starves tumors and other cancer cells by preventing blood flow that supplies the tumors with oxygen and nutrients that would otherwise help them to grow and survive. This molecule is less expensive to manufacture, stable in storage, expected to be less toxic, and is more effective against solid tumors. It is specifically designed to battle breast, ovarian, prostate, lung, and colorectal cancers.

"I am proud to be a part of high-quality drug research that can benefit people in many areas of the world," said Rathinavelu.

The title of the patent is Small Molecule for Anti-Angiogenesis. Rathinavelu previously received a United States patent for this development.

Rathinavelu's research efforts toward this discovery were partially funded by the Royal Dames of Cancer Research, Inc., of Fort Lauderdale and a grant from the Florida Atlantic University Center of Excellence in Biomedical and Marine Biotechnology, awarded by the Florida Department of Education.

In addition, Rathinavelu holds a United States patent for discovering a molecule called F16 that is more potent and is specifically designed to combat breast cancer cells.

Rathinavelu has published more than 40 peer-reviewed research articles, served on the editorial board of several scientific journals and committees, coauthored a textbook, and given more than 75 presentations at national and international conferences. ■

PATENT SECURED FOR LAW PROFESSOR'S ALTERNATIVE ADMISSIONS PROGRAM

Joseph Harbaugh, LL.M., professor of law and dean emeritus of NSU's Shepard Broad Law Center, is credited with securing a United States patent for a computer-based system called the Alternative Admissions Model Program for Legal Education (AAMPLE®). AAMPLE® serves as an additional method of identifying candidates for admission to an institution's law school.

Harbaugh and his colleagues realized that, while Law School Admission Test (LSAT) scores and grade point averages are valuable in predicting student success, those indicators have practically no significance in determining long-term results, such as a student's ability to succeed in law school, pass a bar exam, or attain professional success. The primary purpose of AAMPLE® is to serve as an admissions predictive function—a tool for evaluating the capabilities of prospective students.

"We are elated to see this portion of the process through," said Harbaugh. "The AAMPLE® program allows those involved in the admissions process an additional avenue for providing the opportunity for students with the desire and commitment to attend law school to achieve that dream."

AAMPLE® applicants are enrolled in two law school courses—Introduction to the Fourth Amendment and Negotiable Instruments—taught by actual law school professors. Applicants invited into the program may choose either a live, on-campus format or an online option using distance-learning technologies. The patent currently applies only to the online distance-education format. ■



Regional Campuses Bring Needed Programs to Areas

BY LONA O'CONNOR

TAMPA

WHEN PERRY CLEGHORN WAS HIRED BY NORTH FLORIDA REGIONAL MEDICAL CENTER IN Gainesville, Florida, his new bosses had a question: "They wanted to know what my professors were doing," said Cleghorn, 24. "They said that, as far as technique and knowledge base, students from Nova Southeastern University were far ahead of students from other places."

Cleghorn is a member of the first class to graduate from the fully accredited Bachelor of Science in Cardiovascular Sonography program, one of the newest at the Tampa Regional Campus.

"Cardiovascular sonography is one of the most highly paid medical specializations" said Sam Yoders, M.H.Sc., RVT, director of NSU's Cardiovascular Sonography program. Six of the fourteen students in Cleghorn's class had job offers before they graduated in August, said Yoders. They also have high job satisfaction as key members of medical teams, working closely with cardiologists and vascular surgeons in hospitals and private practice.

Yoders explained that an important factor in the program is a low student-to-faculty member ratio with class size limited to a maximum of 24. The program has five full-time faculty members and two adjuncts, said Yoders.

When Cleghorn and others struggled with a difficult course in physics, his instructor was right there to help. Melissa Keen said her physics instructor spent two hours helping her review topics for an important national exam. Keen is now beginning her one-year clinical rotation, the culmination of the intensive, 27-month program. Students in the program are eligible to sit for both the Adult Echo and Vascular national registry exams.

Another ally NSU students have in the demanding program is "Norman," a lifelike echocardiography simulator built to feel like a human body—with simulated ribs and internal organs. He is programmed to manifest a healthy heart and 18 common heart ailments. Practicing on Norman gives students skills and confidence before they begin to perform exams on real people.

"The simulator helps our students form that internal image of what the structures of the heart look like," said Yoders. "Students say it really helps them." Many medical schools use simulators, but only NSU's Tampa Regional Campus uses one to train cardiovascular sonographers.

The regional campus draws about 1,000 students from Florida, other parts of the nation, and internationally—including Central America and the Middle East. It also offers degrees in business, education, and management information systems.

Top and center: The Cardiovascular Sonography program at the Tampa campus has five full-time faculty members. Bottom, the Master of Medical Science physician assistant degree is a premier program at the Jacksonville campus.





Top and center: NSU's newest regional campus in Puerto Rico offers a pharmacy program for 150 students. Bottom: The Jacksonville Regional Campus serves about 1,000 students.

PUERTO RICO

The new NSU regional campus in San Juan offers two much-needed programs, pharmacy and education. The island needs approximately 5,500 pharmacists, but has only about half that number practicing, said Andres Malavé, executive director for the Puerto Rico Regional Campus.

Puerto Rico has a particular need for community pharmacists to work in low-income and remote areas, added Malavé. Often in these assignments, the role of the pharmacist, as first contact, is to educate patients and their caregivers on how to use medications for the best results. NSU pharmacy students conduct clinical work at many sites including the University of Puerto Rico's teaching hospital.

The campus also has a significant need for exceptional student education, instructional technology, and distance education, said Malavé. It offers master's and doctoral degree programs—with specializations in mathematics and science education, educational leadership, and instructional technology—in a mix of face-to-face, video, and online instruction.

The new, 37,400-square-foot, four-story Puerto Rico Regional Campus includes 200 pharmacy students and 150 students in the education program with approximately 25 full-time administrators, instructors, and staff members. The new building includes \$7-million worth of state-of-the-art technology on its two teaching floors, and students have a seamless connection with other NSU campuses. The building contains classrooms, labs, study rooms, conference rooms, and a fitness center.

JACKSONVILLE

At the Jacksonville Regional Campus, students' and faculty members' commitment to NSU's Core Value of community results in numerous fundraisers to benefit local causes and provide health care services to nursing home residents and underserved communities in the area. One group of students from the regional campus traveled last summer to Nicaragua on a medical mission trip.

The physician assistant master's degree is one of the premier programs at the Jacksonville Regional Campus, said Cynthia Farmer, the assistant director of student recruitment and enrollment. Graduates provide health care in hospitals and private practice, including specialized areas such as pediatrics, dermatology, emergency room, and psychiatry. Students gain their clinical experience at the nearby Mayo Clinic and other area hospitals. The program is in high demand, with about 1,300 applications received for only 56 seats, said Farmer.

The Jacksonville Regional Campus serves about 1,000 students from seven northeast Florida counties and parts of Georgia; it offers programs to accommodate professionals balancing work, family life, and studies. Programs include bachelor's degrees and advanced degrees in business, computer science, education, counseling, criminal justice, health science, and psychology. Many of the programs are available online. ■

For more information on NSU's regional campuses, visit www.nova.edu/campuses.

The Responsibilities of Global Giving

BY DAVE WIECZOREK AND JIM DE FRANCESCO

FOR SOME, LIFE CAN BE defined by consistent successes, earned by hard work and diligence. **Marc P. Yanchura** (M.B.A., 1985) is just such a visionary. He serves as vice president and chief financial officer of the John D. and Catherine T. MacArthur Foundation, one of the largest private philanthropies in the United States.

Founded in 1978, with more than \$900 million bequeathed from John D. MacArthur's estate, the foundation has a respected legacy of granting funds to programs, groups, and individuals across the country and throughout the world.

"MacArthur supports people and organizations working for change on a variety of complex societal challenges. Our grants are generally long-term, strategic investments, focused on building evidence about what works and finding solutions to often intractable problems," said Yanchura.

Yanchura joined MacArthur in 1981 in its offices in Palm Beach Gardens. He and his wife, Ann, had settled in Palm Beach Gardens and were practically neighbors of the foundation's founder. "John MacArthur lived on Singer Island in the Colonnades Hotel the last 20 years of his life," said Yanchura, 57. Ironically, Yanchura and his wife now make their home on Singer Island not far from the former site of the Colonnades, but commute to Chicago to work at the foundation.

Three years after joining MacArthur, Yanchura began work on his M.B.A. at NSU, completing the degree in 1985. NSU's business program was later renamed the H. Wayne Huizenga School of Business and Entrepreneurship.



Alumnus Marc P. Yanchura now serves as vice president and chief financial officer of the John D. and Catherine T. MacArthur Foundation.

"There was a campus in Boca Raton at the Siemens [office building], which was next to the old IBM complex," he said. "So I went to school with a lot of folks from Siemens and IBM. It was a year-and-a-half program, four hours on Friday night, and all day Saturday, and then a lot of work out of class."

He fondly remembers his fellow students and the professors he met at NSU. "It was fun having the diversity of people, about the same age I was at the time, who were working in different organizations," he said. "That was the great part of the experience. The class pretty much stayed together for the entire program."

NSU was a good option at the time "because the availability and scheduling were such that I could continue to work, and NSU had a good program and reputation. Many places

now have adult-education programs, but this was one of the first in South Florida."

In his early years at MacArthur, Yanchura contributed to a variety of areas, everything from human resources to helping the foundation divest itself of real-estate properties in north Palm Beach County.

"Getting the master's degree from NSU was a big attribute for me," he said. "It opened up a lot of opportunities to progress within the foundation. The ultimate opportunity came when I was asked to move to Chicago."

Yanchura transferred to the foundation's headquarters in Chicago during 1989 and was promoted to assistant treasurer in 1993, treasurer in 1999, and vice president and chief financial officer in 2006. He has been active in many professional civic organizations in both Florida and Illinois.

As a senior officer, Yanchura bears overall responsibility for MacArthur's financial operations, including accounting, budget, and taxes, as well as for the foundation's financial systems and banking relationships.

This multifaceted executive also has responsibility for human resources, information technology, and administrative services. In addition, he is in charge of the management and operation of the group's headquarters building in Chicago. As a corporate officer of the foundation, he participates with the president and other senior officers in setting the strategic direction for the foundation and providing advice on policy and operational issues.

But, Yanchura happily points out, "I really don't have anything to do with giving away the foundation's money. I'm a member of the senior team that helps make those decisions, but nobody makes individual choices about who to give the money to."

Yanchura received his Bachelor of Arts in Education in 1979 from Kutztown University in Pennsylvania, located about 60 miles from his hometown of Lansford, Pennsylvania.

Although he comes from a family of educators, Yanchura knew he might not pursue a life in academia. "I maintained good grades and learned an important life lesson: if you're going to do something, you should do it well, and that's been my basic credo ever since," he said. "I feel that's been a big factor in being respected here at the foundation."

Throughout his career, Yanchura always remembers the sage advice of an early career mentor, his dad: "Whatever you do, do it well and work hard at it. Don't merely copy all that you've seen and done. Set your own path and continually build on the strengths you see before you."

It's obvious Yanchura has etched out a rewarding and fulfilling career path, overseeing a global foundation that quietly, yet inexorably, continues to have positive and lasting effects upon society. ■

A portion of this story appeared in Kutztown University's magazine, The Kutztown Tower.



Albert Williams explains business theories to his students.

AROUND NSU

BUSINESS SCHOOL PROFESSOR NAMES CLASSROOM IN PARENTS' MEMORY

Albert Williams, Ph.D., associate professor of finance and economics at the H. Wayne Huizenga School of Business and Entrepreneurship, has made a gift to name a classroom in memory of his parents, Alexander Albert Williams, Sr., and Ellane Williams Nee Woodye.

Classroom 3030 on the third floor of the Business School's Carl DeSantis Building is named the "Albert A. Williams Classroom." With little formal education, the Williams family made sacrifices to ensure that their 10 children each received a high school education. Their strong commitment to education has carried on to the grandchildren—many of whom have obtained doctoral, master's, and bachelor's degrees.

Williams completed a bachelor's degree in education, majoring in mathematics, at the University of Calgary, Canada. He pursued a master's degree in applied economics at the University of Georgia and also completed a doctoral degree in agricultural and applied economics at the same university. His varied experience includes, but is not limited to, teaching mathematics, working as an agricultural economist with the government, and serving as chief executive officer of a quasi-governmental agricultural marketing firm in Belize.

Williams joined the Huizenga Business School in 2003 as an adjunct professor, teaching both undergraduate and graduate economics and finance courses. He was promoted to associate professor in 2013. ■

A Commitment to Education

BY ALAN HANCOCK

DEDICATION TO HER FAMILY DELAYED Kathleen Kiley's career as an educator. Now, it is the families in one of Orlando's poorest neighborhoods that Kiley, Ed.D., 2005, is dedicated to in her role as principal of St. Andrew Catholic School.

St. Andrew largely enrolls economically disadvantaged students from the surrounding Pine Hills section of Orlando, where a quarter of the population lives in poverty. One of the most ethnically diverse of the 36 schools in the Diocese of Orlando, approximately 68 percent of the students at the school are African American, reflecting the surrounding community, and it includes large populations of Haitian and Bahamian students.

The desire to serve the Pine Hills community is what brought Kiley, who earned both a master's degree and a doctorate in educational leadership from NSU's Abraham S. Fischler School of Education, to St. Andrew. "I just fell in love with the kids—it's hard not to," she said. "I feel I'm making more of an impact here. The families are so thankful they have this opportunity, so you can't help but want to assist them in their journey."

The opportunity for these students to attend St. Andrew, a private, prekindergarten through eighth grade school, is largely because of Step Up For Students, a program that provides low-income students with scholarships to private schools. The program is funded by donations from corporations, which receive a 100 percent tax credit for every dollar they donate.

Approximately 80 percent of the students at St. Andrew receive Step Up For Students scholarships that cover nearly all of the \$5,500-per-year tuition. St. Andrew makes up any gaps between the scholarship and full tuition. While tuition may be covered, the students' families still have to make a commitment.

"Parents still have to sacrifice because there is no bus transportation, there is no free lunch, and they have to buy uniforms," said Kiley. "Because they are making that extra effort to send their child here—some work two jobs, many work in the service industries—we feel they are committed..."



Kathleen Kiley, center, principal at St. Andrew Catholic School in Orlando, observes teacher Lori Auger with first-grader Valeria Cabello.

That commitment from families and students has helped Kiley and the school thrive. In 2009, it earned the designation as a National Blue Ribbon School from the U.S. Department of Education. The program recognizes public and private schools where students perform at very high levels or students make significant gains in academic achievement.

Most recently, Kiley was the winner of the 2014 Distinguished Administrator Award from the Diocese of Orlando. (Principals from the 36 schools in the diocese were eligible.) "I feel that my successes are the school's successes, and we celebrate together," she said. "So it was a big celebration that little St. Andrew in Pine Hills—one of the poorest schools in the diocese—had the principal of the year."

Kiley's road to becoming a principal was a winding one. After graduating from Marquette University with bachelor's degrees in psychology and education, a crowded job market for teachers pushed her into a marketing position in Milwaukee. After 10 years in marketing, she spent the next decade as a stay-at-home mom raising her four children.

In 1995, 20 years removed from college, Kiley dusted off her education degree and got her start as a third-grade teacher at a Catholic school in Orlando. After just three years in the classroom, she became an assistant principal, a move she made to impact a greater number of students.

NSU's blended learning format appealed to Kathleen Kiley, who earned her master's degree in 1999 and her doctorate in 2005.

The administrative role required a master's degree, and as a mother of four working full time, NSU's blended learning format appealed to her. She was also familiar with NSU from her husband, Tim, an executive with SunTrust who had worked with the university on a number of financing projects.

While the master's degree, which she completed in 1999, was a job requirement, the decision to pursue a doctorate was a personal goal that was achieved when she graduated in 2005. "I always encourage people considering an advanced degree to definitely look at NSU," said Kiley. "You not only get a good education, it's a realistic program at a realistic pace that dovetails nicely into a working career."

Doctorate in hand, Kiley became principal of St. Andrew in 2007. And now—with a focus on building a robust alumni association, seeking more fund-raising opportunities, and improving technological resources—she plans to continue guiding the little-school-that-could to even greater heights. "I see myself finishing my career at St. Andrew," she said. "It seems like this is the spot where I was meant to be." ■



AROUND NSU

MODEL UNITED NATIONS TEAM EARNS MULTIPLE AWARDS

Members of Nova Southeastern University's Model United Nations Team earned several awards for the ability to handle hypothetical United Nations issues with diplomacy while remaining "in character" throughout the process during the Southern Regional Model United Nations (SRMUN) conference.

The team, which was sponsored by the Farquhar College of Arts and Sciences, was composed of students from the Nova International Relations Association (NIRA). It competed against more than 1,000 students representing about 40 schools.

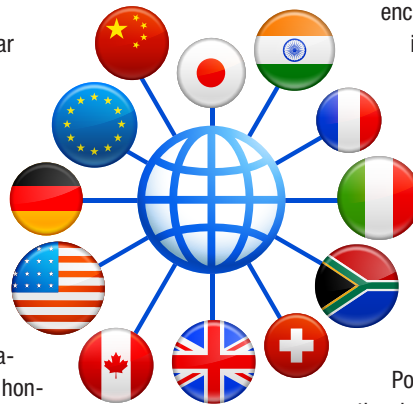
NIRA head researcher Desiree Kennedy won her case unanimously—the only delegate to do so—and was voted "Most Diplomatic" by her peers in the conference's inaugural International Court of Justice simulation. Kennedy, an honors political science and legal studies double major at the Farquhar College of Arts and Sciences, was 1 of just 9 students selected from more than 100 applicants to participate as legal counsel. Kennedy also earned the conference award for Best

Counter Memorial, an award recognizing skill in writing a legal case response.

Linea Cutter, secretary, an honors political science and history double major, and Rehan Sherali, president, a political science major, earned the Outstanding Delegation Award in the United Nations Population Fund Committee. This is the highest award within a committee and akin to first place. Additionally, Cutter and Sherali scored a 98 percent on their position paper, a best for NIRA.

Vanessa Duboulay, a political science major, was selected from dozens of applicants to serve as chair of the General Assembly Plenary.

Also representing NIRA at the conference were Mei Po Ho, vice president, and Marco Baez, both international studies majors; Andrew Jones, treasurer, political science and legal studies double major; and Nadim Visram, political science major. As a team, NIRA also earned an honorable mention award for its standout representation of Brazil. ■



Student-Inspired, Redesigned Flight Deck



The Flight Deck Pub features indoor and outdoor bars, 17 wide-screen televisions, 6 outdoor cabanas that seat 8 to 10 people each, a multipurpose space, and a tranquil plaza. Open from 11:00 a.m. until midnight, seven days a week, with a full kitchen serving pub-style food, beer, and wine, the Flight Deck also has space for public and private events and activities throughout the year.

Below, Miguel Hernandez was inspired by the fact that NSU was built on Forman Field, a training field for naval aviators during WWII. "I wanted to encompass a bit of what was once a military installation into the logo because I served in the Marines. History and tradition are a big part of the logo. Although NSU is a relatively young institution, it's a fantastic idea to know that we are writing history every day on this campus," he said.



For more information, email flightdeck@nova.edu, call (954) 262-5528, or visit www.nova.edu/flightdeck.

Takes Off



BY OLIVE H. COGDILL

Who is the best source for ideas when redesigning a place that caters to students? The students themselves, of course.

Ever since the Flight Deck opened in 1996 on the second floor of the Rosenthal Student Center, it has been a favorite spot for students to unwind. When the Don Taft University Center opened in 2006, the Flight Deck's move there put it more in the middle of student action.

And, when the Flight Deck needed an updated look, it was logical to turn to NSU students. The idea for the Flight Deck renovations began in 2011 when the Pan Student Government Association (Pan SGA) increased its student service fees, which included a "facilities improvement fund" with Flight Deck renovations at the top of the list. The grand opening of the new Flight Deck Pub was last spring.

Members of the Pan SGA, which represents the 18 NSU student governments, were involved in every phase of the Flight Deck's renovation, from selecting furnishings to choosing menu items.

The result is a contemporary, yet cozy place for students, as well as NSU faculty and staff members, to enjoy.

"This is a warm and inviting environment. This is a place that can be used to work on a project or have a snack, lunch, or dinner while enjoying the atmosphere with students, cohorts, friends, and colleagues," said Sharon McIntyre, president of the SGA for the Graduate School of Humanities and Social Sciences. She is working on her doctoral degree in conflict analysis and resolution.

Even the Flight Deck Pub's logo is a student legacy. Miguel Hernandez, who will graduate in 2015 with a master's degree in leadership from the Abraham S. Fischler School of Education, won a contest to design the pub's logo.

"I would like for everyone who comes to the Flight Deck Pub to create great memories there. I hope that in some way it brings them comfort years down the line when they remember their friends, have reunions, and share more

enjoyable times," said Hernandez, the assistant director for admissions at NSU's Shepard Broad Law Center for four years.

The Undergraduate Student Government Association plans to donate a spirit rock that will be located outside the Flight Deck Pub on the north side of the Don Taft University Center—as soon as the SGA can find a rock that is large enough.

"A spirit rock is something that we feel will raise school spirit and start a tradition here on campus. This will be something that student organizations can paint or sit on. We hope that this spirit rock will be something students will remember even after they graduate," said Kelly Scott, president of the Undergraduate Student Government Association.

Meanwhile, Scott also is one of the Flight Deck Pub's regulars. "I love the atmosphere with the cool music playing. The Flight Deck is definitely a success," said Scott, an athletic training major who is on track to graduate in 2015. ■

Professionals Help Keep Student-Athletes Healthy

BY WALTER VILLA

NSU'S STUDENT-ATHLETES—STRONG, SWIFT, and skilled—often appear to be indestructible. They're not, of course.

Occasionally, they need help physically and mentally. This is where a team of NSU professionals come in, from doctors and sports psychologists, to strength and conditioning coaches and athletic trainers.

Brian Cahill, a 6-foot-4, senior guard from Arlington, Virginia, had back surgery while in high school, and he knew that he may need another procedure in the future. "That's one of the main reasons why I picked NSU, its training staff and facilities. I needed a staff who knew what athletes needed and who really cared," said Cahill, who is already halfway through his M.B.A. program.

After earning honors as the Sunshine State Conference's Freshman of the Year in 2009–2010, the basketball player required a second back surgery, and the NSU staff was able to help him recover. In his first season after surgery, he did not miss any games. Last season, he missed just four, two of which were because of an unrelated ankle injury.

Steve Orris, M.S., entering his fourth season as NSU's strength and conditioning coach, said the No. 1 goal is to keep the student-athletes healthy. To do that, Orris said, much work gets done before anyone is ever hurt.

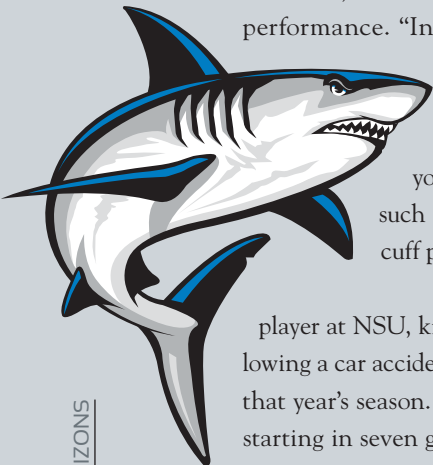
"If we can identify weaknesses in the student-athlete, such as a lack of flexibility or a strength discrepancy between their right and left sides, we can work on that," said Orris, who's officially the program director of sports performance. "In sports, there are always going to be traumatic injuries—collisions—that you cannot avoid. But with proper training and muscular balance, you can reduce the frequency of injuries such as hamstring or groin pulls or rotator-cuff problems."

Sierra Lelii, a 5-foot-7 women's soccer player at NSU, knows all about traumatic injuries. Following a car accident in 2012, she missed the first half of that year's season. Lelii returned to the pitch that year, starting in seven games and scoring two goals. But the



effects of the accident and the wear and tear of soccer eventually led to hip surgery last October, forcing her to miss the 2013 soccer season.

After Lelii's surgery, NSU's team of professionals leaped into action. Peter Sprague, D.P.T., PT, OCS, MTC, of the College of Osteopathic Medicine, worked with Lelii for five months until she was cleared to resume workouts. From there, NSU's athletic trainers worked to get her strength back. Kyle Morris, M.S., and Nick Sexton, graduate assistants on the strength and conditioning staff,





Soccer player Sierra Lelii and basketball senior guard Brian Cahill both credit NSU's strength and conditioning coaches and athletic trainers with helping them rebound from injury.

Zevon Stubblefield, M.S., assistant athletic director of sports medicine, works closely with Dustin Gatens, M.S., head athletic trainer/research and development, and athletic trainer Rudy Rodriguez, M.S., as well as athletic trainers Amy Gatens, Jason Palmateer, Brianna DiAntonio, Kim Schilling, Katie Fulk, and Ricky Braun. They all work to make sure Sharks ath-

letes are being proactive to injuries instead of reactive. "Early detection and early intervention are crucial," Stubblefield said. "We have several means of trying to identify athletes who are at risk, and this could start as early as their recruiting visit. Through years of sports science, we have learned that there are many preventable injuries, and coaches and players have become very receptive to this type of information."

Orris agrees, adding that he has noticed an increased amount of "buy in" from NSU's head coaches. "Traditionally, baseball and basketball coaches have seen the benefit of what we do," Orris said. "But, more recently, golf, tennis, soccer, and other coaches are buying into the program. They see that we can come up with a sport-specific program to help their athletes improve. We emphasize hard work rather than lifting heavy weights. The goal is to maximize their potential."

Years ago, Orris said, the strength coach was typically a massive man and a former college or pro football player. That's changing, said Orris, who was on the University of Florida's strength and conditioning staff for eight years. He also credits the National Collegiate Athletic Association (NCAA) for a new rule implemented last year in which all strength coaches have to be certified, passing a difficult, three-hour test.

"Fifteen years ago, you could get a job by just being a former player," Orris said. "I had to prove myself as more of a scientist." ■

A Look at NSU Athletes Turned Professional

BY WALTER VILLA



J.D. Martinez

THE IMPACT OF NOVA SOUTHEASTERN UNIVERSITY athletics can be clearly seen in Major League Baseball (MLB), where J.D. Martinez has emerged as a standout, while Miles Mikolas and Mike Fiers are becoming more and more established.

But NSU's pro impact is also evident in golf, with Sandra Changkija, Taylor Collins, and Greg O'Mahony. NSU alumni have a spot in soccer, too, where Aly Hassan and Darryl Gordon play for the Fort Lauderdale Strikers.

Here's a look at NSU alumni who have become professional athletes.

- J.D. Martinez, 27, a sport and recreation management major, is the starting left fielder for the Detroit Tigers, and is putting up impressive numbers. Martinez is still NSU's all-time leader in home runs. In November 2014, he was inducted into the university's Athletic Hall of Fame. He was drafted by the Houston Astros in 2009 and made it to the majors in 2011, hitting a combined total of 24 homers in three years before getting his shot at playing in Detroit this season.
- Miles Mikolas, 26, bachelor's degree in sport and recreation management, 2013, was drafted in the seventh round of the 2009 MLB draft, going to the San Diego Padres. The 6-foot-5, 220-pound, right-handed pitcher made his MLB debut in 2012 with the Padres and, this year, has pitched in the majors for the Texas Rangers.
- Mike Fiers, 29, a sport and recreation management major, was drafted by the Milwaukee Brewers in 2009 and made his MLB debut in 2011. The right-hander is in his fourth season pitching for the Brewers.
- Sandra Changkija, 25, bachelor's degree in business management, 2011, has made it look easy, cracking the elite LPGA Tour on her first try in 2012. Last year, she earned \$52,701 in prize money, finishing a career-best ninth place in the LPGA's Safeway Classic. She was the NCAA Division II National Player of the Year all four seasons she was in college. She also led NSU to three straight national titles.
- Taylor Collins, 25, bachelor's degree in sport and recreation management, 2011, plays in golf's minor leagues. During her college career, she helped NSU win three national titles, earning first-team All-American honors in 2011. She then turned pro and, last year, won Golf Channel's competition-based reality show, *The Big Break*, earning \$100,000 in cash and prizes.
- Greg O'Mahony, 27, bachelor's degree in business administration, 2009, a three-time All-American at NSU, turned pro in 2009 and competes in golf's minor leagues. O'Mahony set nine NSU records and, in November, will be inducted into the university's Athletic Hall of Fame.

- Darryl Gordon, 25, bachelor's degree in sport and recreation management, 2011, is a defender. Gordon played four years for NSU and then competed professionally in Austria before returning to Broward County. He signed with the Fort Lauderdale Strikers soccer team on April 4 and made his debut with the team on May 28.



- Aly Hassan, 25, bachelor's degree in business administration, 2012, is a forward. In 2012—his first season with the Strikers—Hassan was impressive, posting two “hat tricks” in which he scored three goals in each game. Last year, he played pro soccer in Bolivia, but has since returned to the Strikers. He is NSU's fifth all-time leading scorer and, as a youth, trained in Argentina and played for the U.S. Under-20 national team.

Two other former NSU athletes to watch are minor-league baseball players Carlos Asuaje and Brett Clements. Asuaje, 22, a business administration major, is an infielder in the Boston Red Sox organization. Clements, 23, bachelor's degree in sport and recreation management, 2013, is a catcher in the Houston Astros' chain. ■



AROUND NSU

MUSEUM EXPANDS EDUCATION PROGRAMS

A series of conferences dedicated to innovative methods in art education for children, teenagers, and adults will be launched April 2015 and during 2016 by NSU's Museum of Art | Fort Lauderdale.

The Art of Teaching Art series will feature top art educators and professional artists presenting their methods, which will be followed by hands-on workshops in the museum's studio school—The AutoNation Academy of Art + Design.

“The goal is to introduce today's most advanced education methods for inspiring creativity and honing artistic practice,” said Bonnie Clearwater, the MOA's director and chief curator.

The Art of Teaching Art conference series is part of the museum's expanded education initiatives, which combine the resources of the museum's exhibitions and collection with its studio school, The AutoNation Academy of Art + Design, and Nova Southeastern University's academic interdisciplinary studies program. The museum's education initiatives are guided by Clearwater, who is nationally recognized for her years of experience in museum education and in identifying and nurturing talented youth and emerging artists.

The Art of Teaching Art series is made possible through a grant from Conni Gordon, an art education and television personality.

For more information, visit www.moaffl.org. ■

Student's Thrill for Science Has Never Wavered

BY JOHN THOMASON

ARTI PATEL'S EARLIEST SCIENCE MEMORY DATES BACK to the fourth grade. That's when her father taught her how to light a bulb using nothing but a battery and a copper wire—a literal trick of the light.

"I knew a little bit about electricity back then, and I thought it was the greatest thing in the world," Patel recalled. "I did a whole science project about it."

The native of Sterling Heights, Michigan, never lost her spark for science and what it means for her future. Now, the 20-year-old sophomore is a member of NSU's Dual Admission Program for osteopathic medicine. Patel is majoring in biology and double minoring in chemistry and psychology, a formula that will leave her with plenty of opportunities when she graduates with her doctorate in 2019.

"I don't know if I want to open my own practice, work in a hospital, or travel and work internationally," she said. "There are a lot of options, so I'm keeping everything open right now."

Patel is used to having her options open. Graduating third out of 94 in her international baccalaureate high school class, she could have had her pick of universities. NSU stood out to her because of its Dual Admission Program and the sunny location, which provided a respite from Michigan's icy winters. And Patel received a Ron and Kathy Assaf Endowed Merit Scholarship, which covered her tuition and on-campus housing for four years.

"When I first came here, I didn't know whether I was going to have a scholarship or not, because I had just applied," she said. "My parents were in the process of taking out another loan on the house. We were having a payment plan set up, because we couldn't afford it all at once. And then the scholarship came."

This sense of financial relief meant one less burden to worry about, allowing Patel to focus more fully on her studies. Her favorite professor, Song Gao, taught Patel in her freshman chemistry class and became her faculty mentor on her honor's thesis, which was dedicated to the study of atmospheric aerosols.

"It was quick for me to see that she had a solid background in math and the sciences, based on her always top or near-top scores on all the exams and quizzes," said Gao, Ph.D., associate professor at the Farquhar College of Arts and Sciences. "She has a genuine passion for studying science, always asking in-depth questions about chemistry and often stretching to the broader physical and biological sciences, not satisfied with merely test requirements or textbook materials."



Arti Patel, who is enrolled in NSU's Dual Admission Program for osteopathic medicine, was honored with the Ron and Kathy Assaf Endowed Merit Scholarship, which covered her tuition and on-campus housing for four years.

Patel's dedication has led to a number of honors. In 2013, she received a National Science Foundation Scholarship on Green Chemistry, joining just 39 other awardees at the annual Green Chemistry and Engineering Conference in Washington, D.C. She spoke at this year's groundbreaking of NSU's \$80-million Center for Collaborative Research, and she's currently the president of the NSU chapter of

Pre-SOMA, the undergraduate division of the Student Osteopathic Medical Association.

Patel admits that her schedule can be overwhelming sometimes, but she credits her friends and family for helping her through it—and the occasional time to stroll on a beach or dive into a great book.

Another way to unplug from it all brings Patel full circle to her own introduction to the sciences. She mentors for NSU's Science Alive program, which allows her to teach elementary school students science experiments not unlike her first encounter with a bulb, a battery, and a wire. "When they see it, it's like magic to them," she said. ■

ASSAF ENDOWED SCHOLARSHIP

Ronald and Kathleen Assaf created the Ron and Kathy Assaf Endowed Merit Scholarship to attract and retain students who demonstrate superior academic merit, in order to create a highly talented undergraduate student body at NSU.

The scholarship is designed to cover the total cost of tuition and fees, as well as on-campus housing and board, if needed. Each scholarship will automatically renew for up to three years as long as the student maintains full-time status and a 3.2 GPA. An annual progress report is also required.

Ron Assaf is chair of the NSU Board of Trustees. The couple was awarded the President's Community Award in 2012.

The four students awarded a Ron and Kathy Assaf Endowed Merit Scholarship in 2014 are Arti Patel; Christina E. Durrance, a chemistry major planning a career in pharmacology; Anne Mohanan, dual admission for osteopathic medicine with undergraduate major in biology; and Rebecca Timmerman, a biology major. ■

AROUND NSU

***DATELINE HEALTH* A WINNER IN THE 35TH ANNUAL TELLY AWARDS**

The Telly Awards has named *Dateline Health* as a People's Telly Silver winner in the 35th Annual Telly Awards for its piece titled "Joint Preservation and Pain Management." This is *Dateline Health's* fourth Telly Award, having received two in 2008 and another in 2012. This year's Telly Awards received nearly 12,000 entries from all 50 states and numerous countries.

The Telly Awards was founded in 1979 and is the premier award honoring outstanding local, regional, and cable TV commercials and programs; the finest video and film productions; and online commercials, video, and films.

The winning episode featured host Fred Lippman, R.Ph., Ed.D., chancellor of NSU's Health Professions Division, interviewing Francis M. McCormick, M.D., an orthopedic specialist, and W. Porter McRoberts, M.D., an interventional spine and pain management specialist from Holy Cross Hospital in Fort Lauderdale.



"This Telly Award is a great opportunity for us to thank the many experts who have donated their time and expertise over the past several years and helped us get to where we are today," said Lippman.

Dateline Health is a 30-minute service program that covers a wide range of contemporary health care issues through interviews with health care experts, researchers, and policy makers. It airs on Broward Education Communication Network (BECON), carried by COMCAST and AT&T U-verse cable providers, DIRECTV and Dish Network satellite, and over air signals seven days a week throughout the tricity area, reaching 4.3 million households in South Florida. ■

For more information about *Dateline Health*, visit www.nova.edu/datelinehealth.

Scholarships

Donors Advance Goal to Increase Scholarship Support

NEW ENDOWMENT SCHOLARSHIPS

Drs. Jorge Arturo and Silvia Flores Endowed Scholarship

Donor: Jorge Arturo Flores, M.D., and Silvia M. Flores, M.D., NSU Board of Trustees
College: Oceanographic Center
Purpose: Support graduate students pursuing a master's degree at NSU's Oceanographic Center

President Hanbury Endowed Scholarship

Donor: George L. Hanbury II, Ph.D., NSU president and CEO
College: Farquhar College of Arts and Sciences
Purpose: Support undergraduate students who reside on campus and participate in NSU's Emerging Leaders Program

Joseph Harbaugh Endowed Scholarship

Donors: Joseph D. Harbaugh, professor of law and dean emeritus, and Barbara J. Britzke, critical skills instructor, Shepard Broad Law Center
College: Shepard Broad Law Center
Purpose: Support rising, second-year law students with high academic achievement

NEW NON-ENDOWED SCHOLARSHIPS

Pellet Family Changing Lives Scholarship

Donors: Pedro F. Pellet, Ph.D., professor of economics, Huizenga Business School
College: H. Wayne Huizenga School of Business and Entrepreneurship
Purpose: Support undergraduate students pursuing a bachelor's degree in business

Elizabeth Ricci Veterans Law Scholarship

Donor: Mario and Bonita Hernandez
College: Shepard Broad Law Center
Purpose: Support law students who serve in the NSU Veterans Law Clinic

Alec (Sasha) Garon Memorial Changing Lives Scholarship

Donor: Jon M. Garon, J.D., dean, Shepard Broad Law Center
College: Shepard Broad Law Center
Purpose: Support law students

Broward County Christian Lawyers Association Changing Lives Scholarship

Donor: Robert Gregg, J.D., adjunct professor, Shepard Broad Law Center
College: Shepard Broad Law Center
Purpose: Support law students

Dr. Rick Fischer Changing Lives Scholarship

Donor: Bernadette Bruce, associate director of advancement communications, Division of Advancement and Community Relations
College: Farquhar College of Arts and Sciences
Purpose: Support undergraduate students interested in communications

Elena B. Langan Changing Lives Scholarship

Donor: Elena B. Langan, associate dean for academic affairs and associate professor, Shepard Broad Law Center
College: Shepard Broad Law Center
Purpose: Support law students

Emerging Scholars Changing Lives Scholarship

Donor: Timothy Shields, Ed.D., associate dean and program professor, Abraham S. Fischler School of Education
College: Abraham S. Fischler School of Education
Purpose: Support incoming doctoral students

Enterprise Foundation Scholarship

Donor: Enterprise Holdings, Inc.
College: Farquhar College of Arts and Sciences
Purpose: Support undergraduate students

Frieda Keidan Changing Lives Scholarship

Donor: Marlisa Santos, director, Division of Humanities, and associate professor, Farquhar College of Arts and Sciences
College: Farquhar College of Arts and Sciences
Purpose: Support undergraduates enrolled in communications studies

James Fox Miller Changing Lives Scholarship

Donor: Lauren Alperstein and colleagues of James Fox Miller
College: Shepard Broad Law Center
Purpose: Support law students

Jan T. Sevieri Changing Lives Scholarship

Donor: Ashley Sharp, director of development, Division of Advancement and Community Relations
College: College of Nursing
Purpose: Support entry-level nursing students who are single parents and are pursuing a Bachelor of Science in Nursing degree

Pantelis and Lila Kyriakides Changing Lives Scholarship

Donor: Illeana Petrone, director of finance and administrative services, College of Nursing
College: College of Nursing
Purpose: Support students pursuing a Bachelor of Science in Nursing degree

Reese-Wheeler Changing Lives Scholarship

Donor: Roshun Wheeler, assistant director, employee and financial services, Huizenga Business School
College: H. Wayne Huizenga School of Business and Entrepreneurship
Purpose: Support undergraduate students pursuing a bachelor's degree in business

Robert and Eugenie Friedman Changing Lives Scholarship

Donor: Robert G. Friedman Foundation
College: Osteopathic Medicine
Purpose: Support medical students

Ron Ryan and Michael Fegley Changing Lives Scholarship

Donor: Ron Ryan, director, Office of Publications
College: Farquhar College of Arts and Sciences
Purpose: Support undergraduate students

Sally & Leonard Robbins Changing Lives Scholarship

Donor: Sally Robbins
College: Farquhar College of Arts and Sciences
Purpose: Support performing and visual arts undergraduate students

Sam Levine Changing Lives Scholarship

Donor: Debra Levine
College: Shepard Broad Law Center
Purpose: Support law students

Swann Changing Lives Scholarship

Donor: Elizabeth Swann, athletic training program director and associate professor
College: Farquhar College of Arts and Sciences
Purpose: Support juniors or seniors majoring in athletic training

Terry and Nancy Mularkey Athletics Changing Lives Scholarship

Donor: Terry Mularkey, executive director of development, Division of Advancement and Community Relations
College: Athletics Department
Purpose: Support student-athletes

Donors can support scholarships through the NSU Fund by designating a gift of any amount to student scholarships. A donor can name a Changing Lives Scholarship with a gift of \$1,000 each year for five years. For \$5,000 paid each year for five years into NSU's endowment, a donor can create a named scholarship in perpetuity. Students interested in scholarship opportunities can go to www.nova.edu/financialaid/scholarships.



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