

SNHS NEWS

BARRY UNIVERSITY • SCHOOL OF NATURAL AND HEALTH SCIENCES

Spring 2005

message from the DEAN



Sr. John Karen Frei, OP, Ph.D.

How lucky those students are!!

We, as a faculty, are very much involved in studying retention and trying to determine why some very well qualified students just do not put forth the effort to “make it” at school. If any of you have any suggestions for us, we would be delighted to hear what you think. Many of you have teenagers yourselves and probably know of what I speak. On the other hand, you will read some very interesting articles in this newsletter about our students and about what volunteer services they perform.

Please, if you are contributing to the Annual Fund at Barry and I hope you are, do remember our scholarship fund as you make your donation to Barry.

God bless you and your families.
Sister John Karen.

DR. GERHILD PACKERT
on her research sabbatical to
Harvard University School of
Medicine, Spring '05

My visit here has been wonderful. I work every day in the laboratory on a project both Dr. Welcome Bender and I have been interested for many years. In this project, I am trying to understand the genetic and molecular mechanisms involved in causing the tumorous-head mutation using molecular techniques called RNA/RNA in situ hybridization. I am also attending many seminars by researches from all over the world about new and exiting trends in a variety of different areas of biology. When I come back to Barry I will have new and interesting things to tell my students and I will also add a number of new procedures into the laboratory work.

We are happy to share some news with you from your alma mater. We really do think about our graduated students a lot. We frequently compare your performance with the current students. It seems that we always say our alums were the best of students and we only wish the current students were as good. I think we as a faculty have this conversation very often. Soon, in our eyes, you will be walking on water – and maybe some of you are!

In this newsletter you will be meeting some of our new faculty, hearing from some of our senior level faculty and learning about our NOAA and EPA grants. When we sent out our last newsletter we had hardly begun work on the grants. We are really excited with two pieces of “equipment” we were able to purchase with the EPA grant – first a new Ford truck, black in color, which seats 5, including the back seat. And the next acquisition was a boat: 17 foot Boston Whaler, Model 170 Montauk. This is really great news for us.

We want to hear from you!

Let us know what you are up to.

*Mail comments, life changes,
publications, and information to:*

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DR. LETICIA VEGA joins the SNHS faculty



Dr. Leticia Vega, Dr. Christoph Hengartner, and family

I am first generation Cuban-American. My parents fled Cuba after the revolution and, like many other Cubans in the 60's, they ended up in Miami, FL. Having grown up in Miami, I am intimately familiar with the exciting and ethnically diverse community in South Florida. Thus, as a new assistant professor in the School of Natural and Health Sciences, I feel at home among the students and the faculty at Barry University.

I majored in Biology at Florida International University (FIU); however, like many undergraduates, I did not know what exactly I wanted to do with a degree in Biology. While I was an undergraduate at FIU, I had the opportunity to do research as part of the Minority Biomedical Research Support program (MBRS). The MBRS program encourages underrepresented minorities to pursue careers in biomedical research and is similar the MBRS (RISE) programs directed by Dr. Redway. I also participated in summer undergraduate research programs at both the Massachusetts Institute of Technology (MIT) and at The Rockefeller University. As a direct result of my participation in undergraduate research programs, I pursued my doctoral degree. I earned my Ph.D in the field of cell biology from the MIT where I worked on the baker's yeast, *Saccharomyces cerevisiae*. My husband, Christoph Hengartner, and I moved to

the Princeton University for our postdoctoral work. This spring I joined the Biology faculty in the School of Natural and Health Sciences at Barry University. (Incidentally, Christoph Hengartner will also join the Biology Faculty at Barry University in the fall). At important steps in my career, I have had wonderful mentors that have encouraged me in my endeavors. Thus, I know firsthand what a difference mentoring can make. I hope to continue to develop as a researcher, a teacher and a mentor at SNHS and I am happy to have the opportunity to contribute to the MBRS program as a faculty member.

It was at MIT that I first learned about the power of combining both genetic and molecular biological approaches. In my lab at Barry University, I will use yeast to study how telomerase, an enzyme that

is important for maintaining DNA, contributes to genomic integrity. Yeast is an ideal organism to study basic biological problems and to teach students about the fundamental aspects of biology. I hope to be able to share with my students my enthusiasm for biology both in the classroom and in my new lab in Weigand 235.

In addition, I am a mother of two wonderful children, Stefan Max and Erica Rosa, ages 4 and 2 respectively. From time to time, you may see them running around SNHS (and me chasing after them). I enjoy traveling and meeting people from different countries. I also like jogging, biking, aerobics, hiking and yes, even though I'm from South Florida, I enjoy skiing. Although I have only been at SNHS a short while, I feel that Barry University is indeed a place "were you belong".

DR. JACQUELINE CHANG joins the SNHS

When I entered college I knew I wanted to major in Biology, but I was not pre-med. My undergraduate advisor at Barnard College was a woman with an active research laboratory. As I got to know her, I realized that as a mother, wife, teacher and scientist, she was a living role model for all women in the college and that the field of biology held a world of possibilities. I knew I wanted to pursue research and I also wanted to learn more about the career. After graduation, I worked as a Research Assistant at The Rockefeller University where, I learned how to manage a laboratory while pursuing a research project. I later moved to a pharmaceutical company and shortly after, applied and was accepted to a graduate program at Rutgers University where I spent 2 years before transferring to the Molecular Biology Department at Princeton University. After completing my Ph.D., I moved to Duke University for Postdoctoral work. As funding for my project was nearing the end, I decided to



Dr. Jacqueline Chang

teach Cell Biology in the Duke University Summer Biomedical Sciences Minority Medical Education Program in order to gain more teaching experience. My applications for faculty positions were focused on undergraduate colleges and universities where I could teach as well as maintain a research program. As a member of the Barry faculty, I hope that my research program will provide students with the opportunity to become excited about career possibilities in science.

EPA ENVIRONMENTAL SCIENCE PROGRAM ON THE MOVE

Barry's environmental science program took a great leap forward this year with a grant from the EPA that funds the training of students and a research boat. In its inaugural year, Barry's RISEE program (Research Internship for Students in Environmental Ecology) is well underway. This program is designed to provide the skills and interest needed to lead high school and undergraduate students into careers in the increasingly relevant and exciting field of environmental science.

Undergraduates in this program benefit from scholarships, research experience at Barry and at EPA institutions, and funding to present their research at scientific conferences. Local high school students become involved during a summer research workshop that they take side-by-side with Barry undergraduates. Some of these high school students will also be invited to do research under the guidance of Barry faculty.

This June the program will host its first introduction to research workshop. Undergraduates and high school students will get valuable hands-on experience while learning the research techniques needed to become an accomplished environmental scientist. The participants will build skills like experimental design, data analysis and interpretation and will wrap it all up in a scientific Powerpoint presentation to their peers and faculty. Students will design, execute and analyze their own laboratory experiments on the phenomenon of bleaching, an important indicator of stress in corals. Students will also spend a significant amount of time in the field taking advantage of the diverse habitats available in southern Florida. They will collect data on exotic, pest species at Oleta River State Park, where the students will learn environmental science while simultaneously benefiting the community. Perhaps most exciting is that these students will be the first to take advantage of Barry's new research boat purchased through the grant. These budding environmental scientists will gain vital experience in marine environmental research in Biscayne Bay. They



The School of Natural and Health Sciences' new research vessel

will look at the health of the seagrass community in the northern bay, an area that includes one of only two populations of an endangered seagrass species. Overall, by participating in this workshop, students will not only build skills necessary for a

successful career in research but they should also be inspired by the hands-on experiences in the lab and field.

Check out www.barry.edu/risee for more details. The website will be updated regularly.

Barry-NOAA GRANT NEWS



Helena Giannini, B.S., 2004

Sister John Karen Frei, SNHS Dean, presented recently at the October 2004 NOAA-CREST Forum in New York City. The meeting, hosted by City College of New York (CCNY), held a select panel discussion on fostering environmental entrepreneurship at Minority-Serving institutions, and Sister John discussed the student recruitment and retention strategies developed in SNHS.

Recent SNHS alum Helena Giannini (B.S., 2004) became the Barry-NOAA Program Coordinator in September 2004.

ALUMNI CORNER—where are they now?

by Melanie Camacho

UNDERGRADUATE PROGRAMS UPCOMING 2005 GRADUATE!

Benjamin Thompson was accepted to the dental programs at Tufts, University of Connecticut, Case Western, and Nova Southeastern University.

HERE ARE SOME OF OUR 2004 GRADUATES!

Tracey Lightbourn, Joanne Lataillade, Adam Mindick and **Agdanamai Luis** are all currently working as Nuclear Medicine Technologists.

Juliet Guttie is currently employed at the DePaul Health Center as a certified Nuclear Medicine Technologist.

Evelyn Munoz is employed at the University of Miami clinic as a certified Nuclear Medicine Technologist.

Stephanie Jazayri is currently teaching 5th graders about sun safety and skin cancer prevention through the Miami-Dade Area Health Education System.

Debora Curiel-Isaac is currently enrolled in the Barry University School of Nursing accelerated program.

Jameliya Hall is currently involved in the establishment of a non-profit organization that helps children and teens in underprivileged neighborhoods receive equal opportunity.

Abigail Porter is currently attending the University of Miami Rosenthal School of Marine and Atmospheric Sciences for a Masters degree in Marine Affairs and Policy.

Gerardo A. Guarch is currently enrolled in graduate Biomedical Science courses at Barry University.

Gesulla Toussaint accepted a research assistant position with Dr. Peter Lin continuing her undergraduate research in activin and inhibin.

Helena C. Giannini is currently employed as program coordinator for the NOAA program at Barry University.

Abigail Nalevanko worked as an environmental educator at YMCA Camp Thunderbird in Lake Wylie, South Carolina this past fall. She was recently accepted as a marine science educator at Rapture Marine Expeditions and spent the last two months in Hawaii on board Rapture teaching classes to middle and high school students.

FROM 2003...

Laurel Kovach is currently enrolled in Barry University's Physician Assistant program.

Jason Mulrain is currently enrolled in the School of Medicine at St. George's Medical School.

Maria Abreu will begin graduate school at Vanderbilt University.

Raquel Peralta attained a Master's degree in Public Health from John Hopkins University and is currently seeking employment in the state of New York.

FROM 2002...

Jenese Gamory participated in her white coat ceremony at Cornell veterinary school this pass fall and is currently completing clinical rotations. She also has a 10 month old son Xzavier.



Carolina Valdes was selected by the National Institute on Aging to receive an NIH intramural research training award (IRTA); she is currently conducting research in cardiovascular science.

Christina Stujenske was accepted into graduate programs at University of Miami, Vanderbilt University, Duke, and University of Michigan.

Jacinta Gaitor is currently enrolled in the School of Dentistry at Nova Southeastern University.

Davecia Ragoonath had been selected by the National Institute on Aging to receive an NIH Intramural research training award (IRTA) and has also received the Environmental Protection Agency's minority academic institutions graduate fellowship to complete her Masters in microbial ecology at Florida International University.

Eleanor Delaney is in her second year at the West Virginia School of Osteopathic Medicine.

Risha Alleye is currently working at an environmental management company in Trinidad, Tobago trying to protect their biodiversity.

FROM 2001...

Ria Achong completed degree requirements for her masters in microbiology at the University of Maryland. Recently, she accepted a position at

Maryland's Department of Health and Mental Hygiene in the division of newborn and childhood screening as a public health lab scientist.

Carlos Vallbona is in his second year enrolled in the Physician Assistant program at Barry University.

Natasha Frett is currently enrolled in Medical School at the University of the West Indies, Jamaica.

Trina Geiss recently received her Masters degree in Public Health and is moving to California for employment.

FROM 2000...

Isa Arias accepted a research technician II position in Microbiology and Immunology at Albert Einsteins College of Medicine of Yeshiva University, NY.

Robinson Gavira accepted an internship with the Center for Disease Control National Institute of Occupational Safety and Health (NIOSH), Morgentown, WV. He was also the recipient of the Florida Environmental Health Association Scholarship.

Diarra Greene graduated from the St. George's Hospital Medical School, University of London.

Saioa Torrealday graduated from the University of the Health Sciences, Bethesda, MD.

FROM THE '90s...

William Buitrago, B.S., '99 currently enrolled in the MD/PhD program at Baylor Medical College recently published in the Journal of Molecular Endocrinology.

Randolph Roberts, B.S., '99 was accepted into the Biomedical Science PhD program at Vanderbilt University and recently published a scientific paper in the Journal of General Physiology.

Michelle Rudinsky, B.S., '99 was accepted to the MD programs at Meharry Medical College and Howard University.

Karen Vassell, M.S., B.S., '99 received her Masters degree in Biomedical Sciences from Barry.

Diana Torok, M.D., B.S., '99 completed her medical degree at the University of Miami School of Medicine and has just finished her two years of interning in San Diego. She is also married to Lewis Hillyard, a former marine, and has had her first child.

Akiri Bowe, B.S., '99 is working as a high school biology teacher and consultant for the Ministry of Education in the Bahamas. He is currently applying to local universities to pursue a master's degree in special education. He is also doing research for a book he plans to write.

Brendan Francis, M.D., B.S., '92 received "The most outstanding physician award" from the medical association of the Bahamas on 12/15/03. He is the senior house officer at the Sandilands Rehabilitation Centre in Nassau Bahamas.

Dr. Diane Seaman, Ph.D., B.S., '91 received her PhD in microbiology and is now UNSCOM inspector who lead a team which first went to Iraq in the 90's looking for weapons.

FROM THE '80s...

Michael King, M.D., B.S., '80 received his medical degree from John Hopkins University School of Medicine, Baltimore, MD. He graduated in the top 10% of his class and went on to pursue a general surgery internship and a residency in neurosurgery at Vanderbilt University hospital, Nashville, TN. Michael now resides in Tampa Bay area where he lives with his wife Darlene and their three sons C.J., Andrew, and Adam. He is one of three partners at Neurospinal Associates. He is the director of physical medicine at Manatee Memorial Hospital and vice chairman of the board of trustees at Blake Medical Center. In addition to medicine, Michael is as an avid aviation enthusiast with almost 1000 hours of flight time, is an accomplished bass player and a regular at the local weight lifting gym.

Chris Orenic, O.D., B.S., '87 graduated from the southern California College of Optometry. He completed his residency in geriatrics and hospital-based optometry at the West Los Angeles Veterans Administration Medical Center. From '93-'96 he had his private practice and in 1996 joined the Manhattan Beach Vision Group as an associate. He is now currently living in Manhattan Beach with his wife Mary Claire of 16 years with their 10 year old son Christopher. They enjoy the beach life in one of the most beautiful places on earth and ski the eastern sierra mountains in the winter. Their son is developing into quite a pitcher in baseball.

Teresa Vales Orenic, Ph.D., B.S., '83 received her PhD from Northwestern University and is currently assistant professor at the University of Illinois Chicago campus in the department of Biological Sciences.

Jacqueline Laurin Olshaker, M.D., B.S., '84 is a medical doctor of liver transplant and clinical director of the medical center at the University of Maryland. Pictured is her new son Benjamin, born November, 2004."



Alicia Carroll, D.D.S., B.S., '84 received her dental degree from the Medical University of South Carolina graduating first in her class and inducted into Omicron Kappa Upsilon dental honor society. She completed her orthodontic specialty training at the University of California. She is also a member of the American Association of Orthodontists, Southern Association of Orthodontists, Florida Association of Orthodontists, American Dental Association, Florida Dental Association and the South Florida Dental Association.

John Joffe, D.D.S., B.S., '84 is a general practitioner in the Miami area.

Bradley Bakotic, D.O., D.P.M., B.S., '89 is board certified in Anatomic and Clinical Pathology with subspecialty board certification in Dermatopathology. Received doctorate degree in podiatric medicine from Barry University and continued his studies in osteopathic medicine at the University of New England. He completed residency in Anatomic and Clinical Pathology at University of Miami, Mount Sinai Medical center. He completed fellowships in Oncologic surgical pathology at Memorial Sloan-Kettering Cancer Center and dermatopathology at the Ackerman Academy of Dermatopathology.

Judith Crowell, M.D., B.S., '83 is a board certified dermatologist. She was an honors graduate from the University of Miami School of Medicine. She completed her internship in internal medicine was at Stanford University Hospital. Her residency was at the University of Pittsburgh School of Medicine. She is also associated with numerous professional organizations.

FROM THE '60s...

Margot Alexander Willems Henderson, M.S., B.S., '66 was awarded an NIH traineeship and earned her master's degree from Marquette University. Over the years she has been an instrument rated pilot, done medical research, managed a medical office, worked as a medical malpractice specialist for a law firm, and has been a professional photographer, all while having a family with three children. She and her husband are retired and she owns a Baskin Robbins in Madison, Indiana.

Regina Scanlon O'Toole, M.S., B.S., '66 received her master's degree in math from Notre Dame University with an NSF academic year institute scholarship. She met her husband at Notre Dame and has four children.

GRADUATE PROGRAMS

Master of Science in Biomedical Science:

JANUARY 2005

Cheryl-Lynne Archibald is employed at the Miami Norland Senior High School teaching biology.

Riva Craig has been accepted to Wright State University School of Medicine.

Tanya Edwards is currently enrolled in St. George's Medical School in Grenada.

Jaszianne Faulk is currently enrolled in the School of Medicine at Louisiana State University.

Tai McCadden is currently employed at Emory University Hospital HLA laboratory.

Shayna Sarosiek is currently employed at the Innovative Medical Research of South Florida doing clinical research.

Mary Ellis was accepted to St. Christopher's School of Medicine, UK.

Rachel Rohaidy was accepted to St. George's Medical School, Grenada.

DECEMBER 2004

Leslie Baptiste was accepted to the pharmacy school at Nova Southeastern University.

Janine Aubree Doneza was accepted to the New England College of Osteopathic Medicine and University of Hawaii School of Medicine.

Keisha Smith was accepted to Georgetown Medical School.

Stacey Wilmot was accepted into the New England College of Optometry.

MARCH 2004

Alex Antoniu was accepted to the University of Pittsburgh School of Dental Medicine

Matthew Irwin was accepted to the Nova Southeastern University College of Osteopathic Medicine.

Cheryl Saide was accepted to the St. George's School of Medicine.

BARRY STUDENTS AND STAFF *Save the Dolphins*

Barry students and staff aid in rehab of stranded dolphins through Marine Animal Rescue Society.

"It was amazing! I felt their heart beat when I held them!" Marsha Thompson, a junior in Barry University's School of Natural and Health Sciences (SNHS), could barely contain her excitement as she stepped out of a cold pool in Virginia Key. In this pool are two dolphins, Notch and Nia. They are two of about 80 rough-toothed dolphins who beached themselves off Marathon, FL, on March 3, 2005.

Local papers have raised the possibility of navy submarine sonar being to blame. A mass stranding event can also be caused by things like a toxic algal bloom in the ocean, or a few sick animals leading the pod (group of dolphins) onto shore.

While the cause has not yet been pinpointed, the fact is that nearly 80 animals beached themselves. While at least 20 of them made it back to sea, 28 have died. A total of 26 are in rehabilitation facilities throughout Florida. One such dolphin rehab is the one in Virginia Key, where Marine Animal Rescue Society (MARS) volunteers work 24 hours a day to nurse the sick dolphins back to health.



Beth Williams, Shannon Schmitt, Marsha Thompson and Helena Giannini, the Barry-MARS Response Team

MARS works to rescue, rehabilitate, research, and educate the public about stranded marine mammals. Marsha is one of the several Barry students who were formally trained by MARS. SNHS juniors Shannon Schmitt and Esther Young, and Arts and Sciences freshman Beth Williams (who wants to be a dolphin assisted therapist), are also trained. The group was put together by MARS volunteer and Barry staff member Helena Giannini.

All five ladies have lent many hours to the rehabilitation of Notch and Nia, donning layers of wetsuits and taking turns in

the frigid pool. One of the most notable tasks is what is known as "walking" the dolphins - holding the animal and swimming it around the pool. This is done to conserve the animal's energy to boost its immune system. Marsha describes this as "the most amazing experience [she has] had to date."

Ms. Thompson, an environmental science major, is in the Barry-NOAA Program. Through this program, she will be doing an internship in dolphin research at the Mote Marine Laboratory. She reflects: "when I got into that tank, I thought... this is what I want to do for the rest of my life."

Barry-NOAA Program coordinator Helena Giannini is starting a Barry-MARS response team. Its goal is to have everyone at Barry involved with MARS in one network, like an emergency phone tree.

If you would like to be trained, the next session will be held in May. When the information is available it will be posed at www.barry.edu/NOAA. Seating will be limited, so rsvp with Helena Giannini at hgiannini@mail.barry.edu.

BEST CLASS FOR NON-MAJORS *Micro-Molecular WHAT?*

It's Tuesday night. You should be studying the cellular structure of amoebas, but you're too enthralled by the episode of CSI: Crime Scene Investigation that you TIVOed last week. And besides, you're no good at all that scientific jargon anyway, so what's the point in studying?

If this sounds familiar, Barry University is here to help. Working with a \$137,000 grant from the National Science Foundation, professor Gil Ellis and his colleagues created new classes specifically for non-science majors with attention-grabbing titles such as "Alien Empire" and "Disease Detectives," in which students study real-world diseases such as malaria, the West Nile Virus, and HIV.

Two years ago, Ellis developed the first class in the series, "The Biology of Crime,"

with an initial enrollment of 20 students. The following year, 39 students signed up and the number multiplied to 62 the year after, forcing Ellis to cap enrollment at 50 students and three lab sections.

Students enrolled in "The Biology of Crime" do their work CSI-style on DNA fingerprinting, hair and fiber analysis, toxicology, and blood spattering analysis so they can learn scientific concepts from a real-world detective angle. Ellis sets up a mass grave on campus and students study the bones to determine the gender of the "victim." They analyze the development of maggots on rotting beef liver to determine the "time of death."

"I'm finding that students are now taking more than one three-credit science course," Ellis says. "I even found that this

semester, some of the non-majors have declared biology for their major."

He says the goal is to encourage non-science majors to think more like scientists so they can make better critical life choices. "The cognitive part of science education for non-majors is not as important as the self-efficacy issue," Ellis says. "A head full of facts for them isn't an issue. Rather, how well they judge and evaluate the science they read about every day [is]."

Ellis currently is working with the support of NSF to advertise this revolutionary idea in traditional science teaching, hoping other colleges will utilize the effective hands-on nature of Barry's innovative curriculum. —LD

The Biomedical Society

The graduate Biomedical Society is a Barry University club that consists of graduate biomedical science students as well as post-baccalaureate students that are interested in pursuing careers as health care professional in the fields of medicine and dentistry. This year's club is the most proactive organization since its inception and a good part of the credit must go to the executive board members and its president Mr. Raul Mirza. The club meets twice monthly and currently has 62 active members that participate in numerous volunteer events and strongly support the community.



The 2004-2005 Biomedical Society Executive Board

Some of the most recent activities include:

1. several visits to the Dade County Coroners Office to view autopsies;
2. medical and health related seminars at every club meeting;
3. offering the Princeton Review for MCAT preparation;
4. Adopt-a-Floor and Toys-for-Tots at Jackson Memorial Hospital;
5. volunteer work at Boggy Creek Camp in Orlando to help critically ill children, work at Camillus House in Miami, serving meals at Ronal McDonald House, participating in the Relay For Life, and taking part in the breast cancer walks;
6. fundraisers for the American Diabetes Foundation as well as breast cancer through the City of Hope Foundation;
7. medical school mock interviews, and workshops to better prepare students for medical school interview as well as alternatives to financing a medical education;
8. journal club presentations to review and discuss recent medical related publications;

9. inviting several allopathic, osteopathic and dental schools on campus to present the merits of their programs;
10. Developed their own web site to promote their initiatives and allow members to learn about up coming events.

Last year the Biomedical Society won the Greater Miami Chamber of Commerce Community Service Award and this year the club is competing for other awards and recognition from both the university and the community.

The 2004-2005 Biomedical Society embodies the mission of Barry University by supporting the community, helping others less fortunate, and preparing members for future careers as health professionals. The School of Natural and Health Sciences is proud of the achievements and accomplishments of the Biomedical Society. Their work will help them to gain the understanding and compassion to become caring care givers.

TRI-BETA Gets a Lesson in Urban Ecology

The Tri-Beta Honor Society recently joined with the Barry University chapter of Habitat for Humanity for a day of hard labor and Christian Fellowship at a Liberty City construction site. HfH advisor Jose Ramirez (DoIT) welcomed the student volunteers on February 19 and quickly handed out the work gloves. Joined by Tri-Beta counselor Dr. Jeremy Montague, the students spent the day moving tons of wooden pallets, mason blocks, and heavy steel, all while learning valuable lessons in construction site safety, volunteerism, community service, and sustainable urban design.



Ketisha DeRoche, Phillisa Beneby and Deslyn Hughes stack the steel



HfH advisor Jose Ramirez (lower right with two new home owners in light blue) and the Tri-Beta Volunteers (in middle) Fajda Tahir, Phillisa Beneby, Esther Young, Deslyn Hughes, (in back) Dr. Jeremy Montague, Marsha Thompson, Lucero Vivar, and Ketisha DeRoche.

MASTER OF SCIENCE PROGRAM IN HEALTH SERVICES ADMINISTRATION

Opportunities and Successes



Alan S. Whiteman, Ph.D., FACMPE
Program Director & Associate Professor
MS Program in Health Services Administration

The healthcare industry is in a constant state of flux. As an industry, it is bombarded by continuous regulatory changes, new technology, personnel shortages, and ongoing financial challenges. The delivery site of health services has shifted at an accelerated pace from the inpatient hospital to outpatient arena. These tumultuous changes may sound dire, but in reality they have created significant opportunities for professionally trained healthcare managers.

These opportunities cover a diverse number of settings and present exciting

career challenges for managers in this industry. The following is a very limited list of potential career opportunities for managers with the appropriate professional education, skills and the desire to succeed and contribute to the healthcare industry:

Ambulatory Care Center

- Outpatient surgery center
- Diagnostic imaging and other centers
- Medical group practices

Long-term Care

(requires appropriate licensure)

- Nursing homes
- Adult living facilities
- Skilled nursing centers

Hospitals

- Senior management
- Middle management

Managed Care Organizations

Public and Government Agencies

Military

The opportunities are endless. All it takes is the personal desire to pursue an exciting career by starting with the right

professional education. Students in our program have varied backgrounds including physicians, nurses, therapists, social workers and a wide variety of other backgrounds. They have chosen healthcare because it provides challenges and rewards not available in other careers.

The Master of Science Program Health Services Administration growth attests to the potential career opportunities existing in the marketplace. The program enrollment has tripled over the past 2 years and courses are offered in 5 locations, with 2 additional sites anticipated for Fall 2005.

Our graduates work in all of the previously mentioned settings. In addition, a number of our graduates have used this degree as a stepping stone to further their education. Currently, alumni are enrolled in medical school, doctoral programs, and law school, studying health law.

Remember, the need for health professionals is not regulated by the economy. People get sick and require care be provided in well managed facilities providing state-of-the-art quality care.

BARRY

UNIVERSITY

**SCHOOL OF NATURAL AND
HEALTH SCIENCES**

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