

DIVISION OF

Clinical Laboratory Science



UNC
SCHOOL OF MEDICINE

From the Director



Greetings from the Division of Clinical Laboratory Science. Thank you for taking the time to read about the activities and accomplishments of our students, faculty, and alumni.

MMDS Accreditation Site Visit

In March, site visitors from the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) came to meet with faculty, students, and clinical instructors in the Master's in Molecular Diagnostic Science (MMDS) program.

The site visitors were impressed with the program and gave us helpful feedback. Here are a few of their comments:

- The faculty are experienced teachers and practitioners who are all interested in student learning.
- The clinical site personnel are very supportive with cutting edge technologies and testing menus. Students get in-depth hands-on practical experience with all molecular methodologies.
- The administration demonstrates a financial commitment to the program as well as a dedication to the continued success of the program.

- The students and graduates all felt prepared for the clinical practica, certification exam, and entry into the workforce.
- The MDS Corporate Partner program has provided additional financial support in a creative and unique relationship between the two entities.
- The program produces graduates with a skill set who are highly sought-after and are in great demand.
- The caliber of current student research projects has the potential to be published in peer-reviewed journals.

The NAACLS Board of directors will give us a final decision on our accreditation status later this year. Because we had no deficiencies, we expect to receive accreditation for five years, which is the highest accreditation that can be awarded to a new program.

Budget Cuts

As you know, our state is experiencing historic budget short falls which are affecting every aspect of state government, including funding for higher education. We are preparing for 10% and 15% cuts all of which will have a significant impact on our program. We are fortunate to have the support of our alumni and friends to help us weather this financial storm. Thanks to the generosity of our

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Allene Alphin, Jesse Alphin, Kue Yang (Allene Alphin Scholarship recipient), Astrid Aponte (Jesse Alphin Scholarship recipient), Kay Alphin Johnson ('68), and Marvin Johnson at the fourth annual Department of Allied Health Sciences scholarships and awards recognition event. Read more on pages 4-5.



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First MMDS Graduates Present Research to Corporate Partners

The first students graduated from the Master's Degree in Molecular Diagnostic Science (MMDS) program in December 2010. On December 10, the three students completing the MMDS program presented the results of their Capstone research projects. The students and their presentations were:

Lisa M. Anderson: Comparison of Direct Sequencing and INNO-LiPA for HBV Drug Resistance

Natasha Howard: Validation of Immunoglobulin Kappa Gene Clonality Assay, InVivoScribe Technologies

Jasmine Miller-Kleinhenz: Evaluation of a novel PCR method to detect FMR1 gene

Many of the MDS Corporate Partners were present to hear the students' Capstone presentations and congratulate the graduates. Representatives from the Corporate Partners spoke about their commitment to the education of future laboratory professionals and the important role of molecular diagnostics in the future of health care. The Division of CLS is grateful to our Corporate sponsors for their support for instruction and scholarships. We are pleased to welcome Laboratory Corporation of America as a new Corporate Partner in 2010.



Top: MMDS program graduates Lisa M. Anderson, Jasmine Miller-Kleinhenz, and Natasha Howard with representatives from the Corporate Partners Program.

Right: Current MMDS students Amanda Fitzgerald, Alex Lee, Avian Elliott, Ben Feldmann, Elle Penley, Donald Serafin, and Hannah Bowman.



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donors, we will continue to offer scholarships to CLS and MMDS students because we know that students and their families are also dealing with difficult financial times.

As a result of the budget crisis, we have had a hiring freeze in our Department. That means that we cannot replace Dr. Tony Hilger at this time. As we looked for adjunct faculty members to teach the microbiology courses, we turned to alumni and friends of the program. We have been so fortunate that Susan Lanning Taylor ('85) agreed to teach Microbiology I (Parasitology and Mycology) and Sherry Leatherman Johnson ('96) taught the Micro I laboratory course with Laine Stewart last fall. This Spring, Marilyn Boyette is teaching the Microbiology II lecture course as well as the microbiology laboratory course with Laine Stewart. Marilyn taught CLS students in the UNC Microbiology laboratory for many years before she took a position at the State Laboratory.

She retired last fall and graciously offered to help teach microbiology for us. The CLS students have benefited greatly from the expertise of these dedicated laboratory professionals and the CLS faculty has enjoyed working with them.

Response to Fall Newsletter

Our fall newsletter included an article about a current CLS student, Annadele Herman, and a CLS graduate, Timica Campbell (who is now a UNC medical student). These two students spent last summer in Malawi improving laboratory services through the UNC Project. In response to that article, we received handwritten notes from Erskine Bowles (who was then the UNC System President) and Chancellor Holden Thorp. They were both so impressed with the work of these two students and thought that they were wonderful ambassadors for UNC Chapel Hill. We are also very proud of Annadele and Timica—they are great representatives of the CLS program.

2010 MDS Corporate Partners

We are grateful to our MDS Corporate Partners for their support of the Master's Degree in Molecular Diagnostic Science (MMDS). Thanks to the MDS Corporate Partners we were able to offer scholarships to students, fund MDS course development, and provide instructional support.

Gold Level MDS Corporate Partners:

Abbott Molecular,

Latreace Moore, *Molecular Account Executive*



Applied Biosystems/Life Technologies

Sallie Davis Kerr, *Senior Account Manager*



BD Molecular Diagnostics,

Bill Hastings, MT(ASCP), *Director of Sales*
Chris Demiris, MBA, *Worldwide Marketing Director*



Gen-Probe, Inc.

Brian Hansen, *Vice President of North American Sales*



Laboratory Corporation of America

Steven M. Anderson, PhD, *Senior Vice President*



Quest Diagnostics

Thomas Huard, PhD,
Scientific Director of Molecular Diagnostics



Roche Diagnostics Corporation

Michael V. Nigro, *VP Corporate Accounts*



ZeptoMetrix Corporation

James Hengst, PhD, *President and CEO*



Books for Afghanistan

Last fall, we received a request from Trent Freeman, a Medical Laboratory Scientist serving in Afghanistan. Trent wrote to request our assistance improving the Afghan Medical Laboratory Scientists' knowledge base. He asked for textbooks and any other educational materials that we could send him. He contacted us because he grew up in North Carolina and because he is a Tar Heel fan. The CLS faculty responded by sending three boxes of books, which were greatly appreciated.

Susan J. Beck
Director, Division of Clinical Laboratory Science



Afghanistan students hold up the educational materials sent by the UNC Division of CLS.

FOURTH ANNUAL EVENT RECOGNIZES SCHOLARSHIP DONORS AND RECIPIENTS

The fourth annual awards ceremony for scholarship recipients in the Department of Allied Health Sciences (AHS) was held on November 6, 2010, at the Rizzo Center in Chapel Hill. At this event, each Division in the Department of AHS recognized the accomplishments of scholarship winners and thanked the generous scholarship donors. The Division of CLS was proud to recognize the 16 scholarships winners and the donors who made the scholarships possible.

Allene W. Alphin and Jesse C. Alphin Clinical Laboratory Scholarships

Two new scholarships were established this year by Kay Alphin Johnson ('68) and her husband Marvin. Their generous gift to establish scholarships in honor of Kay's mother and father help to assist and reward two students in the CLS program. Students were selected based on their academic and professional performance. The first recipients of these scholarships are:

Kue Vang, Taylorsville, NC (Allene W. Alphin Scholarship)

Astrid Aponte, Cary, NC (Jesse C. Alphin Scholarship)

Lanning-Taylor Loyalty Fund Scholarship



James Ho

A gift from Susan ('85) and Steve Taylor provides funds to assist and reward a second-year CLS student. The Lanning-Taylor scholar was chosen by the CLS faculty based on potential for contributing to the CLS profession, academic excellence, personal characteristics, and financial need. The Lanning-Taylor scholarship was awarded to:

James Fu-Chang Ho, Raleigh, NC

Louise M. Ward Scholarships

With a generous bequest from the estate of Louise M. Ward, a former director of the UNC Chapel Hill Division of Clinical Laboratory Science (then medical technology), the Division of CLS was able to award scholarships to three students. These students are chosen based on their potential for contributing to the CLS profession, academic excellence, and personal characteristics. The Louise Ward scholars for 2010-11 are:

Elaine Marie Fleischhauer, Cary, NC

Gina Noemi Mottes, Apex, NC

Patrick Jeffrey Noto, Charlotte, NC

RPLA /WakeMed Scholarships

The Raleigh Pathology Laboratory Associates/ WakeMed Scholarships were established to support the education of future laboratory professionals. By helping current CLS students with the financial burden of higher education, the RPLA/WakeMed Scholarships seek to increase the number of highly qualified laboratory practitioners in the future. In 2010, RPLA/Wake Med Scholarships were awarded to:

Shelby Lynn Currier, Clemmons, NC

Kevin Jeffrey Liner, Apex, NC

Molecular Diagnostic Science Corporate Partner Program Scholarships

Two Molecular Diagnostic Science (MDS) Corporate Partner Program Scholarships were awarded in the 2010-11 academic year thanks to the generosity of our founding Gold partners in the MDS Corporate Partners Program: Abbott Molecular, Applied Biosystems/Life Technologies, BD Molecular Diagnostics, Gen-Probe, Quest Diagnostics, Roche Diagnostics Corporation, and ZeptoMetrix Corporation. Scholarships were awarded to:

Benjamin E. Feldmann, Raleigh, NC

Donald Stephen Serafin, Chapel Hill, NC



Ben Feldmann



Donald Serafin

McLendon Labs Scholarships

In 2006, the McLendon Laboratories of UNC Hospitals began offering full-tuition scholarships (plus assistance with books) for UNC CLS students who would agree to work in the McLendon Labs for two years post-graduation. All incoming CLS students are eligible to apply for these scholarships and the winners are chosen by the Director and Administrative Director of the McLendon Laboratories. The 2010-11 McLendon scholars are:

Annadele Elizabeth Herman, Poconos, PA (Class of 2011)

Jordan Rapp, Waxhaw, NC (Class of 2011)

Diana Huei Chen Kuo, Cherry Hill, NJ (Class of 2012)

Julia Pollard Rice, Snow Camp, NC (Class of 2012)



McLendon Labs Scholarship recipients Julia Rice, Diana Kuo, Annadele Herman, and Jordan Rapp

In addition to the scholarships awarded by the Division of Clinical Laboratory Science, our students were also recipients of awards from the Department of Allied Health Sciences.

Thorpe / Mitchell Diversity Leadership Development Awards

These awards honor Dr. Robert Thorpe and Mrs. Brenda Mitchell. Dr. Thorpe was Associate Chair/AHEC Director in the Department of Allied Health Sciences from 1986 to 2001 and Mrs. Mitchell serves as the Associate Chair for Student Services in the Department of Allied Health Sciences. As co-founding donors of this award, Mrs. Mitchell and Dr. Thorpe seek to mentor and encourage students to excel and achieve their highest goals. MMSD student **Jasmine Michelle Miller-Kleinhenz** of Cary, NC, and CLS student **Ly Ngoc Nguyen** from Fayetteville, NC, were honored to receive these scholarships.

UNC Hospitals Volunteer Association's Allied Health Sciences Fellowships

Supported through a generous gift from the UNC Hospitals Volunteer Association, fellowships are awarded to deserving allied health students who, in addition to having financial need and scholastic ability, exhibit characteristics of emerging professional excellence. CLS Student **James Fu-Chang Ho** was among the 2010-11 award recipients.

June C. Allcott Fellowship

Annadele Elizabeth Herman from Poconos, PA, was the recipient of a June Allcott Fellowship, which is awarded to students who demonstrate exemplary, ongoing, and new community service.

Each of these students is profoundly grateful to the scholarship donors for supporting their education and each one prepared a personal statement that was shared with the donors at the reception. Statements from three students illustrate the importance of this scholarship support:

"To say I was a little nervous entering my senior year at UNC in August 2008 would be an incredible understatement. With the economy in a downturn, a moment I had looked forward to with such great anticipation became quite grim as I began to worry if I would be able to find employment in a position that I was truly passionate about when I graduated. However, all my fears subsided when I attended a CLS information session. As I heard current students and recent graduates talk with such passion about their classes and professions, I absolutely knew that I had to be a CLS, and the McLendon Labs Scholarship has made it possible for me to do just that. I cannot wait to apply all the information I am learning to a position in the McLendon Labs upon graduation to help continue its incredible reputation in patient care at UNC Hospitals. I cannot thank you enough for the opportunity the McLendon Labs Scholarship has given me to follow my passion."

Jordan Lee Rapp, CLS Class of 2011

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Louise Ward Scholarship recipients Patrick Noto, Gina Motteses, and Elaine Fleischhauer



James McLean, Thorpe/Mitchell Award recipient Ly Nguyen, Terita Williams, and Lee McLean, Associate Dean and Chair, Department of Allied Health Sciences



RPLA / WakeMed Scholarship recipient Shelby Currier and Roberta DeLuca ('78)



Allene Alphin, Jesse Alphin, Kue Vang (Allene Alphin Scholarship recipient), Astrid Aponte (Jesse Alphin Scholarship recipient), Kay Alphin Johnson ('68), and Marvin Johnson

Alumni Updates

Jeri McConkey ('59) strongly recommends yoga, which she began practicing two years ago. "At the time I could hardly tie my shoes or even walk," she writes. "Yoga has improved my mind and body. It's unbelievable."

Marcia Hanks ('64) is retired and still volunteering at the Open Door Clinic in Raleigh.

AnnieScott Rogers ('66) recently retired from Kaiser Permanente as Point of Care Coordinator and is happily involved in the independent film and commercial scene in San Francisco. You can check out her latest commercial at www.california-phones.org.

Ann Floyd ('71) retired in September 2010. "I spent the last 22 years of my career as Microbiology Supervisor at Southeastern Regional Medical Center in Lumberton, N.C.," writes Ann. "I am thoroughly enjoying my new 'work hours.'"

Anne Avent Johnson ('71) has a Web site for her artwork, www.BlueHeavenArt.com, and hopes to find more time for painting in 2011. "Retirement is a much busier 'profession' than I had ever imagined it could be, but I'm not complaining," writes Anne. "Mike and I enjoy having more time for Tar Heel games and friends and family (including our two dogs)."

Carolyn Nodell Glasgow ('72) has a new e-mail address: ccnglasgow@gmail.com.

Linda Charles ('79) is now working at Talecris Biotherapeutics, Inc., as Director of Regulatory Affairs. She has offices in RTP and Clayton.

Natalie Walker ('82) is the Specialist Technologist over the Flow Cytometry Area of the Core Lab Department at Wake Forest University Baptist Medical Center. Her daughter, Mary E. Walker, graduated from the UNC-CH Anthropology Department in May 2010 and spent two months on an internship in Malaysia teaching about HIV prevention. Another daughter is attending Middle College at GTCC in Jamestown, N.C., and will graduate with honors this May with an associate's degree in English and a minor in fashion design. Her youngest daughter is a fifth-grade AP honor roll student. Her husband has been pastor at a Church in Yanceyville, N.C., for 14 years.



Marilee and Megan Johnson

Marilee Johnson ('91) lives in Raleigh with her husband and four-year-old daughter, Megan. She recently finished a course in Integrative Health Coaching at Duke Integrative Medicine. "I am excited about my practice in this new field of health coaching and am looking for employment opportunities that can combine my knowledge and experience as a Med Tech and use it to help people make health behavior changes," writes Marilee.

Caroline Immel ('93) has been promoted to Assistant Administrative Director of Transfusion Medicine and Transplant Lab Services at UNC Hospitals. She was formerly the supervisor of the transfusion service. She was also asked to serve on the board for the North Carolina Association of Blood Banks (NCABB).

Martha Harris McGee ('93) has been hired by UNC Hospitals as the Supervisor of the Outreach Services Department and the new McLendon Labs Call Center.

Deanna Pope-Rainey ('94) and her husband Brian Rainey (RTVMP '88) of Alexandria, Va., are proud to announce the birth of a son on December 31, 2010. Camden Grey Rainey was born at Potomac Hospital in Woodbridge, Va., and weighed 7 lbs, 13 ounces. This is their first child.

Shannon (Lancaster) Woodhouse ('95) and Mark Woodhouse welcomed their first child, Olivia Nicole Woodhouse, into the world on June 22, 2010. Shannon has been with LipoScience

of Raleigh, N.C., for seven years as the Manager of Global Research Services.

Natalie Reeves Lamb ('98) has been at Sampson Regional Medical Center for almost 13 years. She is currently the Blood Bank Senior Technologist over the Transfusion Department. She has been married 12 years to Carl Lamb and they have two wonderful boys, Joshua, age 7, and Ayden, age 3.

Hayley Davidson Lowery ('98) is currently working as the Point-of-Care Coordinator at Cleveland Regional Medical Center in Shelby, N.C. She and her husband, Jason, have two daughters. Hayley would love to hear from fellow 1998 classmates at hayleylowery@carolina.rr.com.

Melanie Breedlove Navarro ('00) began her new position as Clinical Trial Scientist with Quintiles Laboratories in Georgia in January 2010. She is part of a global team that reviews submitted protocols for clinical trials and provides solutions for their analytical testing requirements. She was unable to attend a 10-year reunion with classmates last year because she was expecting her second child, Esabella Navarro, born October 25. "The CLS degree has served me well and I truly enjoy my current position as I am always reading the latest breakthroughs in research and development," writes Melanie.



Above, Gloria dances with the Hamar Tribe women in Omo Valley.

Gloria Shepherd McCoy ('67) and her husband traveled for three weeks to Ethiopia, Yemen, and Djibouti in November 2010. They especially enjoyed the rock churches in Lalibela in Northern Ethiopia and the Omo Valley Tribes in Southern Ethiopia. Gloria is on the board of directors of the Travelers Century Club and has traveled to 152 countries.



Matthew and Andrew Sacrinty

Matthew Sacrinty ('01) and his wife, Martha, had their first child, Andrew, born April 15, 2010. Matthew is currently working as a Biostatistician II in Interventional Cardiology research at Wake Forest University Baptist Medical Center in Winston-Salem, N.C.

Joshua S. Butler ('02) and Dawn Lain Butler ('02) welcomed their son, Whitton McCrae Butler, on December 1, 2010. "We are loving every minute we have with him," writes Josh. "We would like to say hello to all our friends from the Class of 2002. Go Heels!!" Josh graduated from the Medical College of Virginia in



Whitton McCrae Butler

Richmond in May 2009 after completing a Transitional Year in Internal Medicine at Mayo Clinic Florida in Jacksonville. He is currently a dermatology resident at Mayo Clinic. Dawn will graduate from the University of Florida School of Medicine in May 2011 and is planning to specialize in pathology at the University of Florida.



Allison Foil at the Taj Mahal



Dr. Priscilla Wyrick stands next to her honorary Doctorate in her office.

Wyrick Receives Honorary Degree

Dr. Priscilla Wyrick ('60) received an Honorary Doctorate from The University of Zürich for her research in Chlamydia. Dr. Wyrick is currently the Chair of the Department of Microbiology at East Tennessee State University's James H. Quillen College of Medicine. "I was totally stunned and startled, but I was very, very honored," Wyrick said. "It does mean quite a lot to me, to be recognized by someplace else, especially a prestigious European university, for what you've done. It's humbling."

Dr. Wyrick was one of the first women accepted at UNC in 1958 as a medical technology student. She went on to obtain her PhD in the Department of Microbiology at UNC Chapel Hill. Following a Postdoctoral Fellowship at the National Institute for Medical Research at Mill Hill in London, Wyrick was the first woman invited to return to UNC Chapel Hill to become a faculty member in microbiology. She has since gone on to publish 94 peer-reviewed manuscripts, eight book chapters, and two books. The Division of CLS is proud to recognize the accomplishments of this distinguished graduate of our program.

Denise Edwards ('02) is living in Washington, D.C., and working at Georgetown University Hospital in the microbiology department. She was recently accepted into the Master of Science in Public Health Microbiology and Emerging Infectious Diseases program at George Washington University.

Allscripts as a Senior Enterprise Sales Executive working in the southeastern U.S.

Gary Leung ('02) has been working as a statistician at the State Center for Health Statistics, North Carolina Division of Public Health, since December 2010.



Gary Leung

Allison Foil ('02) completed the Master of Science program in Medical Informatics at Northwestern University in Chicago in December 2010. She recently passed the Certified Professional in Healthcare Information and Management Systems exam, earning the CPHIMS credential for healthcare information technology professionals. In January 2011, she returned from a three-week trip to northern India and recently joined

Sarah Guthrie ('04) has started PA school at Mercer University and will graduate with the class of 2013.

Focus on Alumni

Susan Lanning Taylor

Class of 1985

Last fall, Susan Lanning Taylor ('85) was discussing career options with a student in the microbiology course she was teaching at UNC Chapel Hill. With graduation on the horizon, the student was feeling overwhelmed, but Taylor assured her that whatever she chose to do next, the education she was receiving through the Clinical Laboratory Science program would serve her well.

"This program provides such a firm base of knowledge, the opportunities are almost innumerable," said Taylor. "The challenge is just trying to decide who you are at that point and which direction you want to go."

Taylor speaks from experience, having enjoyed a career path that she could not have anticipated when she was completing her own studies at UNC. From her initial job in a hospital lab to her current position as a marketing manager, Taylor has seen the clinical laboratory science field from several different vantage points and played a role in the integration of new materials and technologies. She credits her UNC education with preparing her for all that has come her way, including volunteer service that had her rushing to the scene of car accidents to help save trapped and injured victims.

Taylor's interest in health care developed early. Frequent childhood illnesses re-

quired regular doctor's office visits and the kindness she received from lab technicians made a particularly strong impression, which eventually led her to the CLS (then called Medical Technology) program at UNC. After graduation, Taylor worked in the microbiology lab at what was then Durham County General Hospital before pursuing a master's degree in microbiology at North Carolina State University, where a teaching assistantship ignited a new passion.

"Before then, I had always been afraid to speak in front of groups, so I was absolutely petrified about teaching," Taylor said. "But once I started, it was like this bug that bit and it hasn't let go since."

As Taylor neared completion of her master's degree in 1989, the health care industry was undergoing changes that made finding a position in that field difficult. At an American Society for Microbiology meeting in New Orleans, Taylor met a representative from a filter paper company that was trying to develop a presence in the scientific markets by convincing companies to use their paper in diagnostic kits. "He told me 'I'm looking for a scientist that I can teach business,'" Taylor said, recalling the conversation that launched the next phase of her career. Taylor relocated to Pennsylvania and began to learn the ins and outs of marketing filter paper.

The transition proved to be a smooth one, as Taylor realized she could combine her technical knowledge with what she liked about teaching. Instead of being in front of a class, Taylor now educated people one-on-one about the ways her company's products and services could improve their businesses. Her experiences at UNC had prepared her well for this challenge.

"The [CLS] program teaches you how to learn," she said. "You have to master the material and retain the knowledge. Every course builds on what you learned in previous courses. It makes you want to know how things work, why they work, and how they can work better. All of these things come together very well in product development and application, and in training people how to use new products."

Taylor eventually joined Whatman, the number one company in the filter paper market, where she played a role in the development of material now used in collecting DNA for analyses. To better understand some of the business decisions she encountered at Whatman, Taylor decided to pursue a MBA from Pfeiffer University, which she completed in 2000.

Although she was working in business, Taylor did not always stay confined to an office. She fondly remembers assisting one client as she endeavored to develop



Tony Hilger, Lindsey Whittington ('08), Jesse Frank ('04) and her finance Ryan, and Mark Hamby ('82)

On October 20, 2010, the CLS alumni in the Triangle area gathered at the Carolina Ale House to share refreshments and catch up on activities. Many of the graduates who attended expressed their gratitude for the education they had received and shared the exciting career paths they had pursued. The Division of CLS would be happy to work with graduates in other areas of North Carolina to organize a similar gathering of alumni.

Alumni Updates

Elizabeth Jackson Reese ('05) began her new job as director of the laboratory at Family Health West, a small community hospital located in Fruita, Colo., on January 10. She lives in Glade Park, Colo., (just outside of Grand Junction, Colo.) with her husband, Travis, and step-son, Colby.

Jennie Newcomb ('06) received her Master of Health Administration degree from the Johns Hopkins Bloomberg School of Public Health during the May 2011 commencement ceremony. At Johns Hopkins, Jennie served as the president of the MHA Student Association and as an administrative resident at the Johns Hopkins Hospital.

Shelly Lloyd ('07) worked in the lab at Duke Raleigh Hospital as a generalist for a year after graduation. She then decided to move to Atlanta where she worked in the Core Lab at Piedmont Hospital in Buckhead and volunteered at Good Samaritan Health Center in Downtown Atlanta in her spare time. She recently started school at Mercer University's Atlanta Campus to obtain a Masters of Medical Science in Physician Assistant Studies and will graduate in 2013.

a pregnancy test for cows using antibodies harvested from the goats living in her backyard. Until that point, only an invasive veterinarian exam could confirm pregnancy in cows. Taylor and her coworkers spent time, frequently on weekends, at the client's home helping her develop the blood test and get enough samples manufactured that she could launch into the marketplace.

Taylor came back to North Carolina in 1999 to be closer to her family after her mother was diagnosed with breast cancer. She went to work at Xanthon, a venture start up attempting to develop applications for using electro chemistry to detect nucleic acid in DNA, a technology conceived by Holden Thorp, UNC's current Chancellor. Unfortunately, the economic fallout from the September 11, 2001, attacks crippled the venture capital market before the company reached production. Taylor then spent three years as product manager for the hemostasis line at BioMerieux before becoming a market segment director at LabCorp.

Outside of work, Taylor looked for ways to become more directly involved with patients, having been inspired by the care her mother received before she passed away in 2003. Taylor and her husband, Steve, became certified EMTs and eventually rescue technicians. They volunteered with the Orange County Rescue Squad for four years assisting with extrications in heavy vehicle accidents.



From left, Steve Taylor, James Ho, and Susan Lanning Taylor ('85). Ho received the 2010-11 Lanning-Taylor Loyalty Fund Scholarship.

In the fall of 2006, Taylor became marketing manager for LipoScience, a company working to make Nuclear Magnetic Resonance (NMR) technology, already used in research labs, available to clinicians in hospital laboratories. The tests will produce a digital representation of the molecules in a blood sample, allowing clinicians to identify markers for health problems such as cardiovascular disease and diabetes. In addition to increasing diagnostic proficiency and accuracy, the digital rendering will not degrade over time, unlike frozen specimens. "We can go back years later and use the same digital data to mine new information,"

Taylor said. "It's a great opportunity for personalized medicine and disease pattern recognition."

Taylor maintains a close relationship with UNC, supporting a scholarship to assist a second-year CLS student and teaching the occasional course, an experience she identifies as one of her most rewarding.

"I know I have a home at the university and it's important for me to give back," Taylor said. "I would not have had the adventures I had or be in the position I am without having been through the program and without the support of the faculty; there's no doubt about that."

Crystal J. Redfern ('07) is a first-year PhD student at Wake Forest University. After graduating from UNC, she worked in a microbiology clinical laboratory in Charlotte. She then enrolled in a research program at the University of Rochester where she studied Mycobacterium Tuberculosis. After completion of this program, she applied to graduate school and enrolled in the Microbiology/Immunology program at Wake Forest. "I still have a long road ahead of me but my goal is to become a director of a clinical microbiology lab," writes Crystal.

Ivy Nichole Todd ('08) will begin PA School this fall, after working as a generalist for more than three years in the Core Lab at UNC Hospitals.

Jenna Bailey ('10) traveled to Mexico immediately following graduation and spent a month training to become a certified yoga teacher. She hopes to begin teaching this summer. Currently, her time is occupied with her work in transfusion services at Duke and her preparations for applying to medical school in the fall of 2012. "I passed my certification exam when I took it in July with much thanks to my wonderful CLS instructors," writes Jenna. "I love my job and have learned a lot since starting. I am really pleased with the path I am taking toward medical school and would not trade my major for the world. I feel like I have gained so much knowledge and will be a better doctor because of Clinical

Laboratory Science. By the time I go to medical school, I will have worked in a great hospital for two years and be prepared to move forward with my education and career. Don't worry, even though I work at Duke I will forever be a Tarheel!"

Mallory Bennett ('10) moved to Washington, D.C., after graduation to pursue a graduate degree at The George Washington University. She is in the Master of Forensic Science program with a concentration in Crime Scene Investigation. In addition, she is employed by the Bode Technology Group, Inc., as a DNA technician. Bode is a DNA forensic lab that contributes to the crime scene analysis by processing all types of DNA evidence. "It is a great job because it fuses my past experience in the lab with my future goals of crime scene investigation," writes Mallory. "I wish the current students the best luck and I am sure the CLS program will take them far!"

We Remember

Grant Michael 'Mike' Bowman ('75) died on September 6, 2010. Mike worked in medical sales, insurance and as an entrepreneur. His survivors include a sister Nancy 'Nan' Bloom, her husband Mark, nephews Reuben and Elliott Bloom, nephew Rob Bachmann, former wife Suzanne G. Bowman, many friends, and his beloved Kitty.

CLS GRADUATION

On May 9, 2010, 14 CLS students gathered with their family and friends in the Wilson Library for a graduation reception and ceremony. Dr. Susan Beck and Dr. Lee McLean congratulated the graduates and expressed gratitude to all the people who supported and encouraged the students while they were in the CLS program. Graduates received a certificate from the Division of CLS and a copy of the CLS Review CD to help them prepare for certification examinations.

Each year, at our CLS graduation ceremony, we present the award for the “Outstanding CLS Senior Student.” This award is based on nominations from CLS faculty and clinical faculty using criteria such as dedication, willingness to help, quality of work, knowledge, technical skills, and interpersonal skills. There are many outstanding students in the CLS program, and it is always hard for the faculty and clinical instructors to pick just one student for this award. In fact, almost every student is nominated by at least one clinical instructor or faculty member.

The 2010 Outstanding Student, Myra Fisher, was described as “unfailingly pleasant to work with” and “the person I’d most want as a coworker on a hectic day.” Myra was a McLendon Scholar who graduated in December of 2009 and is currently working in the Core Laboratory at UNC.

This year, the CLS students established a Senior Class Campaign to give back to the CLS program after they graduated. The class of 2010 had 100% participation in the campaign and pledged to donate \$3,750 over the next five years. The co-chairs of the campaign, Amanda Fitzgerald and Erin Thompson, presented the CLS faculty with a check for this amount at the graduation ceremony.

Five CLS students completed the accelerated program and graduated in December of 2010. The CLS faculty and all their classmates joined to congratulate them at a dinner at Dr. Beck’s home in December.



Top: CLS graduates from 2009 and May 2010.

Center: December gathering of December 2010 and May 2011 CLS graduates.

Right: Amanda Fitzgerald and Erin Thompson with a ceremonial check showing the total pledged for the Senior Class Campaign.



Statements continued from page 5

“As the daughter of two allied health sciences professionals, I was raised to embrace my innate curiosity and endless questions. My parents taught me to fully appreciate every aspect of the human body; from this appreciation stemmed my fascination with internal biology. I was ultimately drawn to clinical laboratory science because of its ability to combine first hand diagnostics with patient treatment. I look forward to working in a field where I am constantly learning while simultaneously playing a critical role in diagnosing and treating patients. With my interest in so many different aspects of this field, I do not have a definitive career plan yet; however, I know that my decision to join UNC’s Clinical Laboratory Science department will ultimately help me discover the many opportunities available. I am so grateful to have the Jesse C. Alphin Scholarship because it provides reassurance that no matter how broad my interests are or how nervous I am about embarking on this new path, there is always someone who believes in my success and endeavors to help me reach my goals.”

Astrid Aponte, CLS Class of 2012

“I was drawn to molecular diagnostics because it is one of the fastest growing fields in medicine, thereby providing me the opportunity to be at the forefront of new research that has the potential to benefit countless people. Furthermore, no other field provides a more adequate platform for fulfillment of both my intellectual curiosity and life goal: to make a meaningful and lasting contribution to the scientific community through my personal research while at the same time striving to improve the welfare of both my local and global community. It is an incredible honor to receive the MDS Corporate Partners Scholarship. Through my acceptance of this scholarship, I pledge to make an even stronger commitment to not only my academic endeavors but all my endeavors in life. I will be forever mindful of the generosity granted me and will always actively search for ways to help those less fortunate than myself. I will become an active contributing member of society, demonstrating a deep commitment to personal integrity and to interactions founded on mutual respect.”

Donald Stephen Serafin, MMDS Class of 2011

We Want to Hear from You!

I know that for many of our readers, the best part of the newsletter is the news from other CLS / MT graduates. The alumni updates on our Web site have also helped us recruit new students. A recent applicant told me that she decided to apply to the CLS program after reading all the interesting things that our alumni were doing. So please send us your information—you are keeping your classmates informed and helping the CLS recruitment efforts.

You can send us your updates by

Regular mail: Complete and mail the form at the bottom of this page, even if you are not sending a donation at this time. The Development Officer will be sure to get that information to the Division of CLS.

E-mail: Send an e-mail message to: sbeck@med.unc.edu

Web site: Visit the CLS Web site (www.med.unc.edu/ahs/clinical/), go to the alumni section, and you will find a form that you can use to submit information.

Please include your year of graduation and where you are living. If you are working, tell us what you are doing and, if you have any advice for current CLS students, please share that with them.

Carolina's General Alumni Association has created a UNC Chapel Hill Clinical Laboratory Science Alumni online database that is available to all CLS / MT alumni. You can use this service for FREE through our Web site www.med.unc.edu/ahs/clinical/. You can also find the contact information for your classmates.

Some graduates have asked if they could update their alumni information but not get the mailings from the GAA. Please contact Kyle Gray (Kyle_Gray@med.unc.edu or 919.966.3352) if you would no longer like to receive mailings from the GAA. THANKS!

NEW CLS PLANNED GIVING WEB RESOURCES

We have created new Web resources offering multiple giving options from naming the UNC Chapel Hill Division of Clinical Laboratory Science as a beneficiary in your will to funding a charitable gift annuity that will provide you and loved ones income for life while making a significant gift to our program.

Visit www.med.unc.edu/ahs/clinical/waysofgiving for more information about the planned giving vehicles that are available to make a gift to our program, or contact Kyle Gray, Director of Development, at (919)966-3352 or kyle_gray@med.unc.edu.



www.med.unc.edu/ahs/clinical/waysofgiving

UNC Chapel Hill Division of Clinical Laboratory Science Gift & Pledge Form

I would like to support the Division of Clinical Laboratory Science with a gift to the CLS Advancement Fund (Designation #8801).

Enclosed is my gift of: \$50 \$100 \$250 \$500 \$750 \$1,000 \$2,500 to name a microscope Other _____

Check: Make check payable to Medical Foundation of N.C., Inc. (indicate designation number 8801 on the memo line.)

Credit Card: Visa MasterCard American Express

Credit Card Number _____ Security Code _____ Expiration Date _____

Pledge: I pledge \$ _____ per year for 1 year 2 years 3 years

Matching Gift: My employer (or my spouse's employer), _____, will match this gift. I have enclosed the company's matching gift form.

Gift in Honor / Memoriam / Celebration of: _____

THANK YOU!

Alumni Updates: We would like to hear from everyone! Please send an update even if you are not making a donation at this time.

Name: _____ Class: _____

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Please add any other information that you would like to share: _____

Mail To: Kyle Gray, Director of Development
Clinical Laboratory Science
Department of Allied Health Sciences
UNC Chapel Hill, CB #7120
Chapel Hill, NC 27599-7120

Questions: Contact Kyle at (919)966-3352
or kyle_gray@med.unc.edu.



Give Online

Support the Division of CLS by making a gift through this secure Web site:

<https://medicalfoundationofnc.org/givetouncls>



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