

Tech's Talk



National Center for Interprofessional Practice and Education **P4**



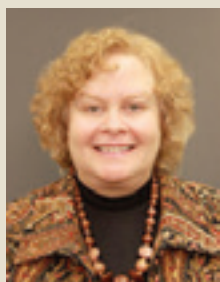
Commencement **P9**



Alumni Banquet 2013 **P15**

From the Director's Desk

Welcome to the 2014 edition of Techs' Talk



This has been another very busy year for the students and faculty of the CLS Program. We began this past year with another upgrade to our admissions process. This is especially important for our program

since students are coming in from so many different schools. So although GPA is still a good starting place, the top candidates are invited for an in-person interview. In addition to the interview, the students participate in a skills assessment which involves following directions as well as a sample of their reading and writing abilities. This has really improved our candidate pool. Our admissions web site contains a lot of information about this new process.

Most of our work efforts this past year have been directed toward a complete update and revision of the curriculum. This took a lot of faculty time and effort but I think everyone feels that we're headed in the right direction for the future of the medical laboratory profession. One of the first things you will notice is a name

change. To synchronize our program with the new certification exam credential, we voted to change the name to the Medical Laboratory Sciences program and have a new degree and course designator of MLSP.

For the curriculum itself, we had several factors we needed to address. First, we needed to find a more efficient and effective way of delivering our courses – for the students and also for the faculty. Where possible we separated the lecture from the laboratory course so that we can truly see the competencies of each student. But this also allows us to have non-CLS (or should I say non-MLS) students enroll in our lecture courses. This provides us with a recruitment potential and also adds a little money to the budget. By separating the laboratory courses we can also now implement final laboratory competency exams that show us whether the student can truly perform the work we need them to do.

Another part of our new curriculum model was designed to alleviate some of the excessive course workload during the senior year of CLS. Therefore we moved some of the basic courses

Center for Allied Health Programs

UNIVERSITY OF MINNESOTA

Driven to DiscoverSM



continued from page 1

back to Year 3 (Education and Professional Issues, Immunobiology, and Laboratory Techniques). This shuffling of courses spreads out the course workload for a traditional first degree student and lightens their course load in the senior year. But we still have a way for students to enter directly into the senior year by taking these 3 courses in the summer or integrated into their senior year just like before.

Still another factor in our curriculum redesign was our designation as a Writing Enriched Curriculum here at the University of Minnesota. Through this program we are weaving writing exercises into all of our courses whether it's one or two short answer essay questions at the end of an exam or laboratory reports or reflection discussions. In each case we are asking the students to show us what they know through writing. It has really helped the faculty see the gaps in student understanding so these can be addressed in class. It also helps the students actually problem-solve and critically review information. If they can convey their thoughts clearly in writing then we know they understand the concepts.

Finally, because the University of Minnesota is the home of the National Center for Interprofessional Practice and Education and because of new accreditation Standards from NAACLS, we are also integrating concepts team-based care and practice into our courses. You can read more about this project in the article about the National Center inside this issue.

As you can see we've had a very busy but also very productive year and we are looking forward to a complete implementation of our new curriculum design this year. I hope you enjoy this issue of Techs' Talk and I maybe I'll see you at the Alumni Dinner in April.

Warm Regards,

A handwritten signature in black ink that reads "Janice".

Janice M. Conway-Klaasen, PhD, MT(ASCP)SM

jconwayk@umn.edu

612-626-9408

<http://cahp.umn.edu/CLS>

ASCLS Region V 2013 Fall Symposium



The ASCLS Region V Fall Symposium was held September 30th – October 1st 2013. This year's symposium included members of CLMA – Minnesota as well as ASCLS-MN, ASCLS-SD, ASCLS-WI and ASCLS-ND.

This was the second year the meeting was held at the Arrowwood Resort in Alexandria, MN. With the addition of CLMA, the program was expanded to include more management topics. Two half days of talks included 15 sessions with 3 keynote speakers. The keynote speakers focused on leadership topics. The breakout sessions were divided into 2 management/leadership topics and 1 technical topic per session. Technical topics included Microbiology, Molecular Diagnostics, POCT, case studies, Chemistry and Immunology. The exhibits had a record number of vendors demonstrating their latest products and technology. There was plenty of great food and door prizes at the social event. The Arrowwood Resort has been a wonderful venue and several attendees bring their families for the weekend and make it a mini vacation. The 2014 Fall Symposium will be October 9th and 10th at the Arrowwood Resort. Mark your calendars now for a great fall event.

Visit www.ascls-sd.org/region-v-meeting for more information. Hope to see you there!

ASCLS National Meeting – July 2013

The ASCLS National meeting this past summer was held in hot and steamy Houston, Texas, July 30th – August 3rd. National elections were held and Cindy Johnson from Minnesota was elected Secretary /Treasurer. The Board of Director's re-established the Scientific Assembly for Molecular Diagnostics and added a new Scientific Assembly for Laboratory Informatics.



ASCLS-MN won first place for "Promoting the Profession" with its fundraising activities and third place for the eLABorate our web-based newsletter. In addition to these awards a number of our members received nominations: Student Forum Leadership Award – Nominee: Karen Larson; New Professional Member of the Year — Nominee: Heather Schmitz; and ASCLS Member of the Year Nominee – Tom Massmann

As always there were many interesting and up to date presentations on a variety of topics. The highlight of the national meeting for me is reconnecting with friends and colleagues from all over the country. The networking and exchange of ideas is an invaluable resource for Medical Laboratory Scientists at any stage of their career.

Charlotte Romain
MS, MLS(ASCP)cm

CLEC — Clinical Laboratory Educators' Conference 2014

Again this year, eight faculty members attended CLEC in San Jose, California from February 20-22, 2014. The commitment of the U of M program to innovative educational methods is evident in the scholarly offerings at this year's conference.

This year, two posters were presented: "CLS Students' Perceptions of the Clinical Experience", by Dr. Janice Conway-Klaassen, Patricia Brennecke and Dr. Stephen Wiesner; and "SaBLE — A Scenario Based Learning Environment for Immunology Instruction," by Dr. Stephen Wiesner. Dr. Lorna Ruskin participated as a panelist in a discussion entitled "Clinical Sites: Issues and Approaches."

Finally, because the University of Minnesota is home to the only Coordinating Center for Interprofessional Education and Collaborative Practice, Joanna George, Dr. Janice Conway-Klaassen, Dr. Donna Spannaus-Martin, Dr. Lorna Ruskin, Dr. Stephen Wiesner and Andy Yue were invited to present "Laboratory Science Students in an Interprofessional Health Care Course" as the Friday afternoon general session.

Minnesota Clinical Laboratory Collaborative

The MN Clinical Laboratory Collaborative Meeting (CLC) 2014 will be held at the Marriott Northwest in Brooklyn Park, MN on April 30 through May 2. Numerous University of Minnesota faculty and staff are involved in planning and presenting at this event. Four faculty are part of the planning committee, Dr. Janice Conway-Klaassen will be presenting a session on Interprofessional Education, and Dr. Lorna Ruskin is involved in organizing the Twin Cities Educator's Breakfast and the Educational Hot Topics session. Again, students from the program are highly encouraged to attend (funded by the University) the meeting on Student Day which is Thursday, May 1. Due to last year's success, a similar networking event is planned to provide students the opportunity to meet their future co-workers and to learn more about the Medical Laboratory Scientist profession and career opportunities. A summary of this event will be provided in the 2015 Tech's Talk.

U of M becomes the sole **National Center for Interprofessional Practice and Education**

In October 2012, the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services announced the selection of the University of Minnesota's Academic Health Center (AHC) to lead a new coordinating center that will provide national leadership in the field of interprofessional education and collaborative practice among health professionals. The center is led by AHC Associate Vice President for Education **BARBARA BRANDT, PHD.**

Now called the National Center for Interprofessional Practice and Education, it is the only such organization in the U.S., designated by HRSA as the sole center to provide leadership, scholarship, evidence, coordination and national visibility to advance interprofessional education and practice as a viable and efficient health care delivery model.

By aligning the needs and interests of education with health care practice, the National Center aims to create a new shared responsibility—a concept Dr. Brandt calls the Nexus—for better care, added value and healthier communities. “Our vision is a model where health care practice and education systems will be true partners, continuously learning and transforming together,” according to Dr. Brandt. “It will be anchored by highly collaborative interprofessional teams delivering high quality care that meets the diverse needs of patients, families and communities. We will invite and test ideas to drive sustainable national change.”

The National Center's goals include an improved quality of experience for people, families, communities and learners; shared responsibility for achieving health outcomes and improving education; and reduced cost and added value in health care delivery and education.

The center is a public-private partnership, based on a cooperative agreement with HRSA and four private foundations: the Josiah Macy Jr. Foundation, the Robert Wood Johnson Foundation, the Gordon and Betty Moore Foundation and the John A. Hartford Foundation.

To learn more about the National Center for Interprofessional Practice and Education—and to get involved by joining the center's growing online community—visit nexusipe.org.



Faculty Scholarship of Teaching and Learning Office of Information Technology Fellowship

DR. STEPHEN WIESNER completed his eighteen month fellowship with the Office of Information Technology. Through this program, Dr. Wiesner was able to fund and develop an innovative digital system to enhance critical thinking skills of our students. The system is flexible and dynamic. It uses response dependent feedback along with randomized scenarios to engage students in the application of their knowledge. The system was implemented in the Fall of 2013. Initial comments from students indicate that they enjoy the challenge. Interestingly, students return to scenarios over and over, even after successful completion. The impact of this innovative tool is being evaluated and the system enhanced to make rapid development of scenarios easy for any instructor that wants to add this as an instructional tool.

Faculty have continued to demonstrate their commitment to enhancing education both locally and nationally. Here are this year's publications.

Digital Book Chapters

Wiesner SM. Creating a Scenario-Based Learning Environment. Chapter in Cultivating Change Series, Volume 3: Stories from Faculty Fellows: Adventures in Technology-enhanced learning. URL: <http://cultivatingchange.wp.d.umn.edu>. January 2014.

Proceedings

Spannaus-Martin DJ, Conway-Klaassen JM, George JL, Brueggeman MS, Hill J, Swinehart C, Wiesner SM. Virtual Laboratories in a Clinical Laboratory Sciences Program. Higher Education Teaching and Learning Conference. Orlando, FL, Jan 13-15, 2013.

Conway-Klaassen JM, Martin P, and Jardine P. Becoming Collaboration-Ready: Impact of a First Semester Interprofessional Course. Association of Schools of Allied Health Professions. Orlando, FL. October 23-25, 2013.

Presentations

Conway-Klaassen JM, Ruskin L, George JL, Wiesner SM. A Model for Flipped Classroom Instruction: Lessons Learned in and Accredited Health Profession Program. Academy of Distinguished Teachers Conference, Minneapolis, MN, October 4, 2013.

About Dean Jackson

Dr. Brooks Jackson is vice president for health sciences and dean of the Medical School at the University of Minnesota. He assumed this role in February 2014.

Jackson came to the University from Johns Hopkins University School of Medicine, where he served as director of pathology for 12 years. Under Jackson, the school's pathology department rose from fifth to first nationwide in NIH funding, with nearly \$50 million in annual NIH awards.

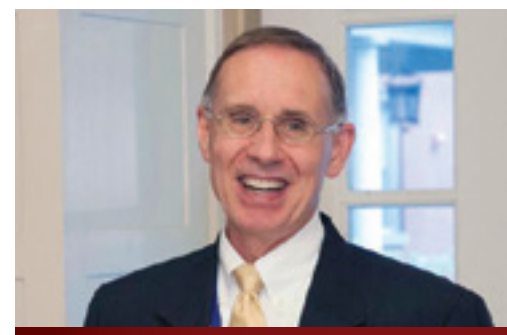
He completed his residency in pathology at the University of Minnesota, and was happy to have the opportunity to return to lead the Medical School and Academic Health Center into the future.

"The University of Minnesota was inspirational for me early in my career, and it continues to inspire me now," said Jackson. "We have a very strong foundation to build upon as we look to transform health care education and delivery. This is a critical time for developing new paths forward. Our mission is to build on our history of discovery and innovation. We will bring the talents of all our health professionals together to be a global leader in prevention and treatment of disease."

An internationally recognized researcher in HIV diagnostics, prevention and treatment, Jackson and his colleagues revolutionized HIV prevention in developing countries and published approximately 200 peer-reviewed papers about HIV prevention and treatment research conducted in the United States, Uganda and China. He is also the principal investigator of the \$500 million NIH-funded International Maternal Pediatric Adolescent AIDS Clinical Trials (IMPAACT) Network. Jackson's work resulted in new drug development and a project to prevent neonatal HIV transmission. The method has saved thousands of infants from starting life with HIV infection.

Jackson is the current Chair of the Blood Products Advisory Committee for the Food and Drug Administration. In 1999 he received the Global Strategies for HIV Prevention Special Recognition Award and in 2004 he received the HIV Prevention Trials Network Service Award.

Jackson earned his M.D. from Dartmouth Medical School and his M.B.A at Dartmouth College. He served his residency in clinical pathology at the University of Minnesota Hospitals, where he was a blood bank fellow in the hospitals' department of laboratory medicine and pathology.



University of Minnesota President Eric Kaler:

"Brooks Jackson is the right leader for this time and place. He is an outstanding scientist, a strong clinician, and a dedicated teacher and mentor. He has a demonstrated track record in research, teaching, patient care, and building strong programs."

Supporting Our Students: A CLS Tradition

If you know a college student personally, or if you follow trends in the news on higher education, you know that earning a bachelor's degree gets more and more expensive every year. Add the cost of school to the effects of an economy in recovery, and you can imagine the challenges of being an undergraduate student today.

However, our students are in demand and graduates from CLS Program face the job market with a promising future and the skills they need to succeed. A donation of any size from our alumni would go a long way to helping them overcome that last financial hurdle before they join the workforce. Our students all have a story to share, whether they are spouses who gave up a job to finish their degree, parents setting a positive example for their children, or daughters and sons making their parents proud by being the first to graduate from college.

The CLS Alumni Scholarship Fund is made up of donations of all sizes. Many of these are small donations from recent graduates wanting to give back to the academic community who supported them as a student, while other donors are compelled to share their financial success with others. Please consider a donation to help today's students. Thanks to the generosity of our CLS alumni and friends, we were able to give out over \$100,000 in scholarships this past year and hope we can support even more students in the years to come.

You can learn more by visiting the Center for Allied Health Programs scholarship web page under Scholarships (<http://cahp.umn.edu/scholarships>).

Thank you for your generous contributions to the Clinical Laboratory Science Program in 2012

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Anthony B Williams
Judith Winter
Nancy A Witstine

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<http://giving.umn.edu/clsalumni>

U of M Foundation

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The MLS Program Flips Students

An entry-level MLS (CLS) graduate is expected to have knowledge of current and new technology as well as critical thinking and problem solving skills. While this may not be a new expectation, it has become more of an educational challenge as the number of tests available exceeds 5,000. The healthcare industry continues to expect MLS students to have deeper processing and critical thinking skills supporting life-long learning and professional development.

Research indicates these healthcare expectations are better achieved by making students more active and engaged learners. With this goal in mind, many of the current MLS courses are being delivered in a flipped-classroom format. In a flipped-classroom the role of the instructor has changed from 'sage on the stage' to a facilitator and director of learning (guide on the side). Students are expected to review (study) material presented online prior to coming to class. In class, the students are engaged in the learning process through group discussions, case studies, and other activities that increase their critical thinking and problem-solving skills.

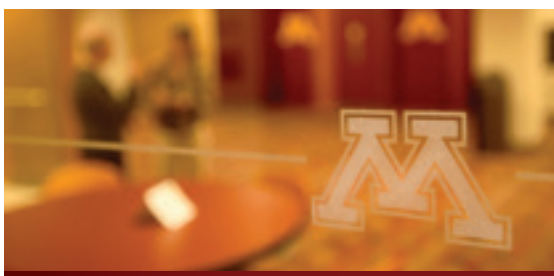
The flipped-classroom has been very successful. Instructors indicate this method of delivery has made their time with students more effective as the quality of student questions has improved. Students indicate they are more satisfied with the courses and have a better understanding of complex topics. It is expected student performance will increase as instructors become more comfortable and proficient with the flipped-classroom model.



Rochester Campus Update

95 CLS professionals, and the 2014 graduating class is the largest yet at 29 students. As the CLS program grows so does the UMR campus, in 2010 approximately 525 students were enrolled on the UMR campus and in 2014 there are approximately 800 students. Most of this growth can be attributed to the Bachelor of Science in Health Sciences program (BSHS). In 2009, the BSHS program enrolled 50 freshmen and in 2013 the enrollment has increased to 150 freshmen. With the growth of the student body comes a similar growth of the campus. Plans to expand the campus in the downtown Rochester area are underway.

This is also the first year we have a BSHS student in the CLS program. And with the growth of the BSHS program we are seeing more and more interest in the CLS program as their capstone plan.



Ambulatory Care Center

The University of Minnesota Physicians (UMP) and Fairview Health Services have entered into agreements to build a long awaited academic Ambulatory Care Center. Groundbreaking ceremonies were held on December 20, 2013. The center, located at 909 Fulton St. SE (near the Huron Blvd. exit of I94), will be 330,000 square feet and will cost an estimated \$160.5 million.

Slated to open in January 2016, the facility will be home to many of the outpatient clinics now located in the Phillips-Wangensteen Building as well as an outpatient surgery center. Both research and educational needs will be met in the new center, providing a better experience for patients and students. Space in Phillips-Wangensteen will be utilized for office expansions.

Photo via Canon Design <http://www.healthtalk.umn.edu/2013/12/17/university-of-minnesota-ambulatory-care-center/>

Changes on the Minneapolis Campus

Light Rail Line Transit

The long anticipated Central Corridor Light Rail (Green) Line will officially open on June 14, 2014 and is 98% complete. The line will run through campus on an 11 mile track connecting with both the blue line (Hiawatha LRT-Metrodome Station) and the Northstar Commuter Line (downtown Minneapolis), ending at Union Station in downtown St. Paul.

The green line will be accessed at 18 new stations, with three of those on campus (West Bank, East Bank Moos Tower, and Stadium Village). Additionally, five older stations will be shared with the blue line. 46 cars will each have 66 seats and standup room for 70 additional people. The new cars have been redesigned to increase passenger comfort, ease of use, and energy efficiency. During peak travel times trains will run every 10 minutes with an expected travel time between the downtowns of 39 minutes.

Sleek and high tech looking stations are complete and system testing is underway. Stations have ticket machines, public address speakers, transit card readers, and electronic signs that display station names, current time, and messages for customers. The trains will cross the river on the lower deck of the Washington Bridge and continue down the center of Washington Avenue (closed to general traffic between Pleasant and Walnut Streets). Numerous pedestrian and bike crossings will have signals. All trains, stations, and signals are remotely controlled through the Rail Control Center in St. Paul.

More information can be found at www.centralcorridor.org.

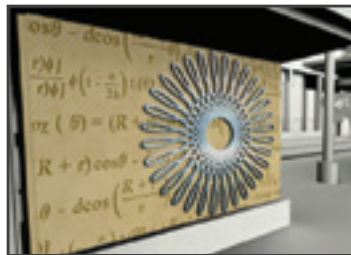
An animated simulation through campus is available at http://www.youtube.com/watch?v=_mGHwZCapvM.



East Bank Station in front of Moos Tower

(looking east)

<http://metro council.org/Transportation/Projects/Current-Projects/Central-Corridor/Stations/East-Bank.aspx>



Station art with a science and math theme



West Bank Station between 19th and Cedar.

<http://metro council.org/Transportation/Projects/Current-Projects/Central-Corridor/Stations/West-Bank.aspx?source=child>



Stadium Village Station at University and 23rd Ave. S.E. near TCF Stadium

<http://metro council.org/Transportation/Projects/Current-Projects/Central-Corridor/Stations/Stadium-Village.aspx?source=child>



CLS Student Wins National Award

SCOTT VANORSDOL, Class of 2013, was awarded the National Student Honor Award from the American Society for Clinical Pathology (ASCP). This award is given by ASCP to students in their fourth or final clinical year of a clinical laboratory professional program. Recipients are chosen based on their academic achievement, leadership ability, community services, professional goals, and recommendations from faculty and community leaders.

Scott is originally from Maple Grove, Minnesota and attended the program on the University of Minnesota Rochester campus. His interest in research brought him to the University, and the CLS Program seemed to him to be the perfect mix of scientific laboratory work and medical field support. Scott may have clinical laboratory work in his genes, as his grandmother, Patricia Tender-Rygg, graduated from the program in the Class of 1952. Scott is currently employed at Allina Central in the microbiology laboratory. He plans to work at the bench for a few years, and then pursue an advanced degree in microbiology or transfusion medicine, although he hasn't ruled out the possibility of going on to medical school and specializing in pathology. Whatever path he chooses, we know he'll be an asset to the laboratory profession!

2013 Commencement Ceremony

The Center for Allied Health Programs held its annual combined graduation ceremony for Clinical Laboratory Science and Occupational Therapy students on December 13th, 2013 at the McNamara Alumni Center. Dr. Donna Spannaus-Martin led the procession, carrying the Ceremonial Mace of the University of Minnesota, followed by faculty, distinguished guests, and graduates. The 56 CLS and 46 OT students were cheered on by over 400 proud family members and friends.

The CLS student address was given by Scott VanOrsdol. He reminisced about some of the class experiences and spoke proudly of what they have accomplished in such a short time, quoting a phrase from JFK "we choose to do these things not because they are easy, but because they are hard, because that goal will serve to organize and measure the best of our energies and skills, because that challenge is one that we are willing to accept, one we are unwilling to postpone, and one which we intend to win". Scott graduated with high distinction and was the recipient of the American Society of Clinical Pathology National Student Honor Award.



The guest speaker was Rick Panning MBA, MLS(ASCP)JCM, Director of Shared Clinical Services at The University of Minnesota Fairview Medical Center. Rick's message encouraged students to engage in their profession and proudly and confidently seek out and act on those professional situations requiring their expertise. He also reminded students to balance their life by taking time for family, friends, and hobbies.

Each student walked across the stage as his or her name was called and received

a diploma as well as handshakes from the Honorable Abdul Omari, University of Minnesota Regent; Dr. Stephen Lehmkuhle, Chancellor of the University of Minnesota Rochester; Dr. Barbara F. Brandt, Associate Vice President for Education in the Academic Health Center, and Dr. Janice Conway-Klaassen, Program Director.

A reception was held afterwards for all in attendance.

Congratulations Graduates!



Aleligne Abdissa	Kallie Geissler	Sivun Leng	Sotheany Sun
Amber Anderson	Mary E. Gibson	Becka Ly	Gebi Tahiro
Summer Ali	Laurie Haas	Mony Mak	Dereje Tesema
Asamarai	Cheryl Heidbrink	Hanna Melaku	Dalika Tiev
Yosef Assefa	Kim Hildebrandt	Dung Nguyen	James Tran
Stacey Anne Bell	Kelsey Hoen	Nasro Nur	Tam Tran
Pavel Bondarenko	Jessica Hoffman	Dennis Ochoki	Ha Truong
Joseph Bondarenko	David Hudrlik	Okindo	Scott VanOrsdol**
Tatyana Borisova	Alison Hullsiek	Karen Park	Ibrahim Waaeys
Ashley Brown	Nghi Huynh	Andrew Rode	Jannelle Yin
Amie Chan	Hassan Jahad	Jill Rollins	Rui Yu
Adam Dokkestul	Katelyn Marie Johnson	Malakai Ryker	Abdusalam Yusuf
Ayla Fish*	Kent Johnson	Ji Hye Park Sexton	
Wondu Galata	Estelle Koprowski	Katie Shaw	
Susan Garner	Jodi L. Lane*	Yaqub A. Shire	
		Natalie N. Smith	

Students graduating with Distinction or with High Distinction are indicated with a single or double asterisk, respectively, next to their names in the program (, **).*



**Christine M. Maleck, BS,
MT CG (ASCP),
Teaching Specialist and
Laboratory Manager**

My name is Christine Maleck, and I am a new faculty member in the CLS program serving as a teaching specialist and Laboratory Manager. I graduated from the University of Minnesota with Bachelor of Science degrees in Genetics and Cell Biology and Medical Technology. Along with the core clinical rotations I was allowed to do a one week specialty rotation in the University of Minnesota Cytogenetics Laboratory; I was hooked. I worked in the UMMC-Fairview Cytogenetics Laboratory for 19 years, enjoying the fast paced cutting edge work done in the field. I began when the lab used 35mm cameras attached to the microscopes, used a dark room to develop our own film, and printed the images to be cut and taped into a karyotype. Over the years the lab added Fluorescent in situ hybridization (FISH) for cancer abnormalities, computer image analysis systems for karyotyping and analyzing the chromosomes, and utilization of molecular techniques in comparative genomic hybridization and other array based technologies to provide excellent patient care. I was a bench technologist and technical lead in cancer cytogenetics and eventually a technical supervisor in the Cytogenetics Laboratory. I was moving back to bench work when the teaching specialist/laboratory manager position became available. I have always gravitated to teaching in my life, from training in the laboratory to teaching Sunday school and art masterpiece in my children's classrooms. I am currently getting familiar with the intricacies of managing the teaching laboratory, and participating in teaching Fundamental Biomedical Laboratory Techniques, Molecular Diagnostics, and Hematology Morphology. I am excited to bring my passion for teaching to this program and to participate in building a strong clinical laboratory work force.

SPOTLIGHT ON STUDENT SUCCESS



First place Team 6 and mentor Dr. Cliff Steer

CLS Student participates in
GHC Competition

Congratulations to Andrielle Cowl (Class of 2014)

Her team won the inaugural University of Minnesota Global Health Case Competition. The Case Competition is a unique opportunity for students from multiple Schools and disciplines to collaboratively analyze a real-world global health challenge with the goal of providing helpful strategic recommendations to move the case subject forward efficiently and effectively. Teams of four to six students present their case results to an expert panel of judges. Graduate (masters and doctoral level), professional, and upper-level undergraduate students from across the University of Minnesota were eligible to compete. Fourteen interdisciplinary teams comprised of 80 students from 14 UMN Schools and Colleges participated in the inaugural Global Health Case Competition. Andrielle's team is comprised of students from Management, Dentistry, Biological Sciences and Public Health. Her team will compete at the national level in the 2014 International Emory Global Health Case Competition on March 28-29, 2014. Andrielle (Andie), located 2nd from the right in the photo, is a CLS major attending the UMR campus. Andie's experience in this UMN Global Health Case Competition has allowed her to better understand the complexities of global health issues and the valuable role that CLS professionals have in contributing to integrated health solutions. Good Luck to Team 6 and UMN is very proud of you all!

Students from the Class of 2014

TWIN CITIES

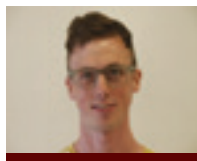


This year's CLS class includes two students who are not only brother and sister, but they are part of a set of triplets! **HUSSAIN AND ZAHRA ZHIAN** were born in Milwaukee, Wisconsin, but currently live in Maple Grove,

Minnesota. Their father was originally from Iran and their mother is from Nebraska. They have a brother, who is the third triplet, and a younger sister. Zahra learned about the CLS major from a friend who graduated from the program. After taking the Introduction to CLS course, she decided that this was the perfect major for her. Hussain was originally a neuroscience major, but after talking to his sister, he decided CLS was the perfect major for him as well. Both of them would like to work for a few years in the profession and then go on to graduate school. They are also both interested in traveling around the world. Hussain has a unique role in his CLS lecture courses, in that he is also the instructional support person for ITV connected classes. They aren't completely alike, however. When they're not studying, Zahra enjoys canoeing, hiking, skiing, and photography, while Hussain enjoys ice fishing, archery, chess, and soccer.

Hussain has a unique role in his CLS lecture courses, in that he is also the instructional support person for ITV connected classes. They aren't completely alike, however. When they're not studying, Zahra enjoys canoeing, hiking, skiing, and photography, while Hussain enjoys ice fishing, archery, chess, and soccer.

ROCHESTER



LUKE LAMBERT is from La Crescent, Minnesota and currently lives and attends the CLS program in Rochester. Luke's parents live in La Crescent, and he has a brother who is an Army nurse at Walter Reed National Military Medical Center. Luke has always had an interest in science and

after many nights of paging through the majors and minors catalog he decided CLS was the right choice for him. After graduation Luke hopes to get a job at a large medical center and eventually become certified in a specialty area. After working for a few years, he would like to continue his schooling with a Master's degree in Public Health or Healthcare Administration. When not studying for the CLS program, Luke likes to read, watch movies, listen to music, exercise, cook and hang out with friends.



JENNA TURTLE grew up in Stewartville, Minnesota and for the past 7 years has lived in Owatonna and commutes to attend the CLS program in Rochester. Jenna and her partner Noah have twin 6 year olds who started kindergarten this past fall. They also have a Great Dane named Winston, who

is the size of a pony and likes to eat.....everything! Jenna's parents live in Byron and she also has 2 older brothers. Jenna heard about the CLS program while attending Rochester Community and Technical College and decided that was the major for her. Over the summer, Jenna completed a 9 week internship at the Mayo Clinic in the Toxicology Lab. Through that internship, she has been able to secure a position upon completion of her schooling. When Jenna isn't hitting the books, she enjoys spending time with her family, running/walking, motorcycling, softball and water sports.



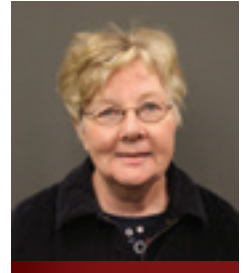
Charlotte Romain, MS, MLS(ASCP)cm, Instructor

My name is Charlotte Romain and I am one of two new faculty in the CLS program. I graduated from South Dakota State University with a BS in Medical Technology and received my MS in Clinical Lab Science from the University of North Dakota. My focus and passion for the last 13 years has been in Molecular Diagnostics, first in Infectious Disease testing at ViroMed Laboratories, at the University of Minnesota Medical Center, Fairview and most recently doing research and development in oncology testing using exosomes as a source of transcript at Exosome Diagnostics. My teaching experience includes development of the molecular diagnostics course for the Fairview MLS program and online courses in molecular diagnostics for Argosy and the University of North Dakota. I am very active in ASCLS, serving on committees locally, regionally and at the national level, including State President for 2013-2014. I am also a member of ASCP and AMP (Association for Molecular Pathology). I am hoping to be able to bring my enthusiasm and passion for the profession into my role as an instructor. I will be teaching Molecular Diagnostics, spring semester 2014 and moving into other roles after that. I'm excited to be here and to be a part of the program here at the University of Minnesota.

Faculty Retirement

LYNN KING was honored in a retirement open house in the Mayo Auditorium on May 31, 2013 and at a dinner with CLS faculty. Lynn received her B.S. in Medical Technology from the University of Minnesota in 1970 and began working in the chemistry lab at the University Hospital. She started teaching chemistry with the CLS program in 1997, touching the lives of many students during that time.

Since retirement, Lynn has been enjoying her lake place and has done some traveling. She is also staying busy with the upcoming wedding of her daughter Lisa, and her daughter Rachel's home renovation. She has entered the Master Gardener Program and is busy attending class on the St. Paul Campus. Lynn has returned to help teach Chemistry and Urinalysis for the current school year. We thank her for her service and wish her well in a much deserved retirement.



In Memorium

DOLORES GULLICKSON HARVEY

Former faculty and dear friend Dolores Harvey passed away in October 2013. Dolores graduated from the U of MN Medical Technology in 1945. After graduating Dolores worked as an Instructor in Hematology and in the Clerks laboratory at U of MN hospital until 1948. From 1953 -1955 she worked as a Chemist at Coleman Jacob Laboratory in San Antonio, TX. Dolores returned to the U of MN in 1964 and was a teaching specialist for chemistry and urinalysis. In 1966 she became an Assistant Professor in Laboratory Medicine and Pathology, teaching chemistry and urinalysis. Dolores held that position until 1985 when the family moved to Australia for two years because Rod had taken a position with the University of Melbourne. After returning to Minnesota, Dolores was a part-time teaching specialist for the Laboratory Medicine and Pathology course.

Dolores was married to Dr. Rod Harvey, who passed away a month later in November of 2013. They had 3 children; Ron, Jeff and Janet and 4 grandchildren. The Harvey family enjoyed camping, backpacking and travel. In retirement, if Dolores was not spending time with her family she would be playing bridge and more bridge as she would say, volunteering at the U Raptor center and crossword puzzles. She was also member of the St. Paul Women's club. Dolores was a skilled instructor and a mentor to many of the faculty. She will be missed.

Spotlight on Alumni

CHERYL SWINEHART was honored as the 2013 Alumna of the year for her numerous contributions to the program and the profession through her faculty position with the U of MN CLS program and as an active member of ASCLS. Cheryl received her undergraduate degree in Medical Technology from U of WI Madison and her graduate degree from the U of MN. She began her laboratory career at University of Minnesota Hospital in the Hemostasis lab, starting as a bench tech, research technologist and then as a senior technologist before moving to an academic position. She has been a faculty member since 1981 teaching hemostasis and hematology. One of her teaching accomplishments was creating online courses in both hemostasis and hematology. In 2010 she was awarded the Yvonne Chenoweth Cooke Endowed Professorship for exemplary teaching in our program. She has been active in ASCLS through CLEC where she presented on her online course and the annual CLC meetings where she has been the co-chair of the exhibit committee for many years along with many other roles too numerous to mention.

Her kindness to students and willingness to help, whenever anyone needed help, with a course, a student or alumni function, will always be appreciated. Thank you Cheryl for all you do.



Thank You!!! Your Scholarship Donations Help Students Succeed

Each year we ask our alumni to help us help our current students through your donations for scholarships. As you all know being a full-time student in our program is challenging enough without having to worry about finances. So at this time we would like to thank all those of you who have supported us this past year and ask again for everyone's support. Every donation—no matter the size—is combined together with others to help our students succeed.

Some of your donations help provide temporary housing for students while they participate in a clinical rotation in rural Minnesota or pay for the textbooks they need to help them succeed. Because our senior year and clinical semester are essentially full-time students are not able to work outside of school. Your donations help support them and their families during this stressful time.

Please consider donating to our Alumni Fund to help support students who are single parents, those who are coming back to start a second career, and exemplary students who may be the first one in their families to receive a college degree.

Here is a list of scholarship recipients among our current students.

Alumni Fund Scholarships

Matthew Anderson	Mony Mak	Huy Tran
Siyad Ayub	Courtney Newton	Jordan Vitse
Mustafa Hassan	Aden Noor	Jannelle Yin
Hassan Jahad	Samantha Quandahl	Hussain Zhian
Sivun Leng	Danielle Schminkey	
Lan Liu	Ji hye Park Sexton	

Beckman Coulter Scholarship Fund

Umalkair Amare

Yvonne Chenoweth Cooke Scholarship Fund

Ashley Kirberger

Karen Karni Scholarship Fund

Mai Thao Lor

Clarice J Olson

Ashley Kirberger

Abner Neeley Scholarship Fund

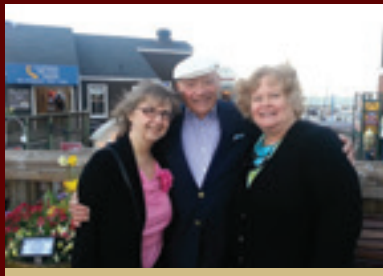
Bryan Brocksome	Adam Hallett,	Nicolle Leska
Mckenzie Chase	Gutama Hamza	Rhiannon Peterson
Kendra Dornfeld	Leah Haskin	Tihitina Salvatore
Halina Dronava	Angela Heitman	Hiruy Tessema
Abdullahi Farah	Jinxin Hu	Jenna Turtle
Abdigaani	Ayanle Jama	Lilian Waturuocha
Amina Farah	Brianna Johnson	Hailu Zelelew
Ismael Farah	Kenneth Jombwe	Zahra Zhian
Hanad Guled	Rose Lemke	

William A. O'Brien Scholarship Fund

Melake Araya Keri Nguyen

Spotlight on Alumni James Ferderer

Because this year's CLEC meeting was in San Jose, Janice and Donna took the opportunity to visit alumnus James Ferderer a short distance away in San Francisco. Jim treated them to a tour of his favorite areas of the city and then to Pier 39 at Fisherman's Wharf to view the 10,000 tulips on display at "Tulipmania." They ended the evening with a seafood dinner at Neptune's Waterfront Grill and a beautiful view of the San Francisco bay.



If you wish to make a contribution, please visit or call:

<http://giving.umn.edu/clsalumni>

U of M Foundation
800-775-2187

2013 Alumni Banquet

Over 100 alumni, students, and friends gathered on the University of Minnesota campus on May 4, 2013 to celebrate the 90 years of graduating Clinical Laboratory Sciences (formerly Medical Technology) students. This special occasion started with afternoon activities and ended with a dinner banquet at the McNamara Alumni Center. A number of alumni and friends stayed at the Commons Hotel (formerly Radisson Stadium Village) conveniently located between Moos Tower and the McNamara Center.

Attendees that came for the afternoon met and gathered first in Moos Tower. Scheduled activities included tours of the Fairview University Acute Care and Microbiology laboratories and of the CLS Program's teaching laboratory in Molecular Cellular Biology building. Treats were provided in the comfortable central reception area in the lower level of Moos for alumna to talk and catch up with former classmates and co-workers. Nearby in the hallway, the CLS faculty were on hand to talk about the current curriculum, teaching practices and educational technology used today. They also set up demonstration tables of their recent projects. Steve Wiesner showed how to teach cell morphology using the computer, Joanna George created an online teaching tool activity to help with Antibody Identification, Donna Spannaus-Martin and Lorna Ruskin displayed the online modules for teaching Chemistry and Microbiology respectively. There was also time to walk down on Washington Avenue to visit the Weisman Museum or to stop by the Big Ten or Stubs and Herbs. It was hard to miss the installation of the Light Rail tracks and East Bank station (in front of Moos Tower) along Washington Avenue.

The evening banquet was held at the McNamara Alumni Center. Attendees represented classes from 1940 through current students, along with friends and spouses. This year's anniversary classes were the 50th year (1963) and the 25th year (1988) classes. The speaker for the banquet was Steve Wiesner who spoke on "Redefining the Foundations of the MLS Curriculum." The Alumni Honoree of the Year award went to Cheryl Swinehart who recently retired from teaching Hematology and who had made a huge impact on many of the alumni.

All agreed the 90th anniversary celebration was not only an enjoyable reunion; it was a wonderful chance to see all the changes on the campus and to experience the future of CLS education.



CELEBRATING WITH THESE ANNIVERSARY CLASSES IN 2014

25TH ANNIVERSARY CLASS OF 1989

Silas Anorue	Joseph Klancher	Ry Rybar
Kevin Eastlund	Kim Little	Deanna Schmidt
Becky Green	Vicki Mitteco	Sheila Steele
Kerri Heinen	Heena Patel	Jacqueline (White) Torfin
David Johnson	Denise (Anderson) Ross	
Teresa Kemmer	Doreen (Decker) Ryan	

50TH ANNIVERSARY CLASS OF 1964

Linda (Waters) Bolyard	Sandra Gould	Barbara Miller*
Barbara (Hanson) Broberg	Nancy Grenier	Judie Mull*
Nancy (Mueller) Coley	Nancy Hale	Judith Nelson
Antoinette (Perko) Collins	Mary Hegge	M A Olson
Joy (Carll) Dean	Holly (Bedbury) Hunt	Joann (Ekbohm) Paymar
Gayle (Fellinger) Diehl	Kaye Ivatts	Betty Razak
Carolyn Collins Donovan	Kenneth Kerr	Janet (Masonick) Sills
Mary (Parker) Frigstad	Jeanne (Kiley) Krumpelmann	Philip St Louis
Patricia (Skoog) Frykholm	Jeanne (Rice) Licari	Sharon Stahnke
Carol (Ott) Gonzales	Mary (Austin) Mallory	Patricia (Nevius) Vaurio
Mary (Mart) Googins	Rosalie (Rocchio) Michelich	

75TH ANNIVERSARY CLASS OF 1939

Eleanor (Work) Anderson*	Frieda Kunze
Marion Bell*	Valerie Kutzler*
Anna Bergschneider	Jean Lembke*
Lois Bray*	Elaine (Fiegel) Miltich*
Zita (Pieper) Broetzmann	Helen Mules*
Josephine Brown	Kathleen Nigon
Marian Burns	Geraldine O'Connor*
Irma (McIntosh) Coleman	Lilian Opie*
Hazel Dickson	Marcella Peterson*
Doris Doeden*	June Robinson
Lois Fenton*	Dorothy Ronning*
Genevieve (Woods) Forbes*	Dorothy (Naegli) Sawyer
Mary Galloway	John Schmid*
Elizabeth Gorham*	Avis Schmid*
Doris Grambow*	Elizabeth (Prince) Seery*
Rosemary Hartung*	Lillian Sigford
Opal Huffaker*	Beatrice Swanson
Linneus Idstrom*	Patricia Taylor
Anna (Nelson) Jensen*	Clara Thuman
June Johnson*	Georgia (Boswell) Tyson
Miriam Kess*	Sylvia Vane*
Blanche (Larson) Kolstad	Mary (O'Connell) Wachter*
Katherine (Nelson) Krause	Vivian Wooden



2014 Clinical Laboratory Sciences Annual Banquet!

The 2014 annual Alumni Banquet will be held at the McNamara Alumni Center on the U of MN Minneapolis campus on Thursday April 24, 2014, from 5:00 – 9:00 p.m. with dinner scheduled for 6:00 p.m. This year's anniversary classes are: 1989 (25 years), 1964 (50 years) and 1939 (75 years). Contact your class mates and take this opportunity to spend time together and check out the campus. Doors open at 4:00 p.m. for those who may want to meet earlier — festivities begin at 5:00 p.m. and dinner begins at 6:00 p.m.

After dinner there will be a brief presentation about the new curriculum model and some of our classroom activities. Parking is available at the University Parking Ramp directly across from the McNamara building which can also be accessed by tunnel if inclement weather.

To register online:

1. Go to www.cahp.umn.edu and look under **Upcoming Events**
2. Click on **CLS Alumni Banquet Registration**
3. Click the button **Register Now**
4. Banquet payments can be securely paid by check or credit card through this registration site.



Please contact Deb at 612-626-2493 for assistance with online orders, or use the form below to register and pay via US Mail.

*(Please mail this form and make checks payable to **University of Minnesota** and indicate CLS Banquet in memo line)*

YES! I plan to join the Program in celebrating 91 years strong!

Meals include salad and a petite dessert. Please check your selections:

- Grilled Chicken Breast with Sage-Peppercorn Sauce on buttered baby red potatoes.....\$35.00
- Cracker Crusted Walleye with Lemon Butter Sauce and vegetable basmati rice.....\$45.00
- Roasted Pork Tenderloin with Peach Barbeque Sauce and horseradish potato purée.....\$45.00
- Vegetarian Napoleon layered with Portobello mushroom, eggplant, beefsteak tomato, Sicilian onion, fresh mozzarella and basil served with saffron couscous.....\$35.00

Check enclosed amount \$ _____ for total of _____ dinners

Name _____ Phone (_____) _____

Address: _____ Email _____

Diploma Year _____ Former last name _____

Make checks payable to the **University of Minnesota** and send to:

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Clinical Laboratory Sciences Program
Center for Allied Health Programs
University of Minnesota
MMC 711, 420 Delaware St SE
Minneapolis, MN 55455

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Center for Allied Health Programs
University of Minnesota
MMC 411, 420 Delaware St SE
Minneapolis, MN 55455

Office | Phillips-Wangensteen Room 15-194
Tel | (877) 334-2659
Fax | (612) 626-8127
E-mail | cahpinfo@umn.edu
Web | www.cahp.umn.edu

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