

# Center for Allied Health Programs UNIVERSITY OF MINNESOTA



CLS Research and  
Teaching

P4



Alumni and Donor  
Highlights

P5-7



CLS Banquet & 90<sup>th</sup>  
Year Celebration

P8 & 15



## Program in Clinical Laboratory Sciences

# Tech's Talk



### *From the Director's Desk*

As we begin to gear up for the celebration of our 90<sup>th</sup> graduating class it's time to take stock of where we are, where we have been and where we are going. In this issue of Tech's Talk you'll find plenty of examples. The faculty have been busy exhibiting their accomplishments of the past year. We've had a lot of scholarly activities from presentations of posters and technology demonstrations, to education or research sessions at local and national meetings. Faculty also worked together to develop eBook chapters describing our methods for integrating technology enhancements into our courses. We also published several journal articles focused on the improved student outcomes we have seen with some of these technology applications (page 4).

The other major activity for this year is remodeling the CLS curriculum. Many of the changes we're making reflect updates in the NAACLS Standards. We will also provide a more accessible curriculum plan for students by spreading the courses into the junior year, while maintaining the option for a one-year completion plan.

Inside you'll also see an article describing our new admissions procedures which help us select the most qualified students for the program (page 14). With the amount of grade inflation that sometimes occurs in college, it's no longer sufficient to look at a student's grades without checking on their actual abilities to communicate and follow basic instructions.

Along with our science-focused curriculum revisions, the CLS Program was selected to be one of the majors with a Writing Enriched Curriculum. We are working with experts around campus to develop a plan in our courses that teaches students the writing skills that are needed in our field (page 14).

As we move into the new curriculum model, we have also developed a more hybrid model of course delivery. Our lectures are now a mixture of online content that students can review on their own schedule and in-person

Continued on page 2

# From the Director's Desk (con't)

lecture sessions with discussions, case studies, and problem solving. Even our laboratory courses are hybrid because we use online video and interactive virtual laboratory exercises for practice before the actual "wet lab" activity and post wet-lab practice activities to help reinforce information. This hybrid course design provides multiple approaches to the same information. Students get multiple explanations, multiple examples, and additional practice. But best of all, student learning is enhanced and their performance improves.

We have experienced a lot of changes over the past few years, but we look forward to what the future brings.

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

**[jconwayk@umn.edu](mailto:jconwayk@umn.edu)**

**612-626-9408**

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

## Progress on Light Rail Transit Line on Washington Ave!



The Light Rail Transit project is on schedule as construction continues on campus. Most of the structural work is completed but substations, overhead power, communications, and the train control system work is just starting. Trains will start running along the track to test the system later this year and continue until the tracks are open to the public in 2014.



Though the Washington Avenue Bridge will remain open once trains are running, the transit line on Washington from the bridge to Walnut Street will be permanently closed to vehicles. Traffic will reroute to East River Road Parkway and Pleasant Street. The LRT will follow Washington Avenue to 23<sup>rd</sup> Avenue (Huron Boulevard) where it will turn and cross over University Avenue, loop around the UMN Transitway, and then return to University Avenue at 29<sup>th</sup> Avenue.

Four campus stations are being built. They are located on the West Bank in front of Humphrey School of Public Affairs, on the East Bank in front of Weaver-Densford Hall, near the TCF Gopher Stadium, and at the edge of campus at 29<sup>th</sup> and University Avenue (Stadium Village and Prospect Park stations). A map of the Central Corridor Light Rail project is available at <http://www.metrocouncil.org/transportation/ccorridor/newsAlerts/CUMpls.pdf>



**Top Left:** West-viewing photo of Washington Avenue with Moos Health Sciences Tower on the left (2012). **Middle Left:** West-viewing photo of Washington Avenue with Moos Health Sciences Tower on the left (2013). **Bottom Left and Center:** East Bank station. **Bottom Right:** Artist depiction of an east view of Washington Avenue with Moos Health Sciences Tower on the right. (Source: UM News <http://www1.umn.edu/news/features/2011>)

# CLS at Conferences



Joanna George, Mauri Brueggeman, and Dr. Stephen Wiesner presented a poster on "Student Engagement and Learning Strategies" at CLEC 2013 (pictured left to right)



Patricia Brennecke (pictured above) and Dr. Janice Conway-Klaassen (not shown) presented a poster on "Changing to a Clinical Experience Model".

## MN Clinical Laboratory Collaborative Meeting (CLC)

The MN Clinical Laboratory Collaborative Meeting (CLC) 2012 was held at Mystic Lake Casino in Prior Lake, MN, on April 25-27, 2012. In total, over 800 people attended the event. Janice Conway-Klaassen and Lorna Ruskin organized a student activity in which University of Minnesota CLS students and students from other institutions networked with laboratory professionals, providing students the opportunity to learn more about the various career and educational opportunities available and to initiate workforce relationships. Among our CLS faculty, Donna Spannaus-Martin acted as co-chair; committee members included Janice Conway-Klaassen, Cheryl Swinehart, Mary Jane Yue, and Lorna Ruskin; and speakers included Nancy Brunzel and Lorna Ruskin.

## Clinical Lab Educators Conference (CLEC)

Eight faculty members attended CLEC in Kansas City, Missouri from February 14-16, 2013. U of M faculty members continue to bring recognition to the CLS program as it moves the curriculum into the future, evidenced by the numerous presentations given. Dr. Janice Conway-Klaassen and Dr. Kathy Doig from Michigan State University presented "Maintaining Academic Integrity in On-line Testing and Teaching" in a breakout session.

Two posters were presented: "Student Engagement and Learning Strategies in Online Courses", by Mauri Brueggeman, Dr. Janice Conway-Klaassen, Joanna George, and Dr. Stephen Wiesner; and "Changing to a Clinical Experience Model" by Patricia Brennecke and Dr. Janice Conway-Klaassen.

Dr. Lorna Ruskin presented her experience with laboratory simulation at a round table discussion "A Simulated Clinical Laboratory Experience". Mary Jane Yue also hosted a round table titled "Creating Hematology Case Studies". Dr. Donna Spannaus-Martin met with the Committee on Educational Programs and Initiatives.

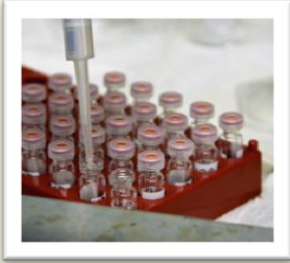
Online teaching pedagogies, methods, and technologies represented the major topics at this year's meeting. Attendees also worked on the Body of Knowledge (BOK) for both CLS/MLS and MLT professions, suggesting additions, deletions, and modifications for the next revision of the BOK. Our faculty members are already thinking about topics to present at next year's CLEC which will be held in San Jose, California, February 20-22, 2014.

## American Society for Clinical Laboratory Science (ASCLS)

The 2012 ASCLS annual meeting, which was held this past July in Los Angeles, CA, provided ample opportunities to collaborate with other professional colleagues from around the country and the world. The meeting was held in the historic Millennium Biltmore Hotel, which has played host to the Academy Award ceremonies and is a favorite location of television and film crews. The meeting included an outstanding program with over 63 hours of continuing education emphasizing such timely topics as – a new evaluation of eosinophilia, new approaches to laboratory testing to identify sepsis, and emerging pathogens in blood transfusion – as well as practical information on methodologies and management to benefit you and your laboratory. Janice Conway-Klaassen presented the work that she, Patricia Brennecke, and Donna Spannaus-Martin have developed for Online Preceptor Training.



# Scholarship of Teaching & Learning



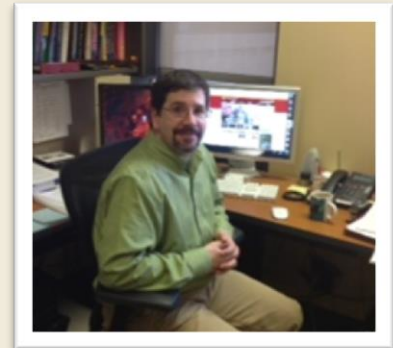
## Department of Labor Online Tutorial Modules

This past year the CLS program faculty have again been very active in the scholarship of teaching and learning. We completed our Department of Labor online tutorial modules and published them on our program web site. We have received lots of inquiries from MLT and MLS programs across the country that want to use these modules in their curricula. Internally we are using these modules to teach prospective students about our profession.

Take a look at this web site to learn more about the modules: <http://cahp.umn.edu/department-of-labor-modules>

## Office of Information Technology Fellowship

Dr. Stephen Wiesner was awarded \$10,000 for a University of Minnesota Office of Information Technology (OIT) Fellowship to develop a text-based gaming strategy to enhance critical reasoning in our Immunology course. In addition to the funding from OIT, Steve received additional funding support from the Center for Allied Health Programs and from the CLS Program to help complete his project. The new course materials will be implemented this coming fall semester.



## Digital Book Chapters

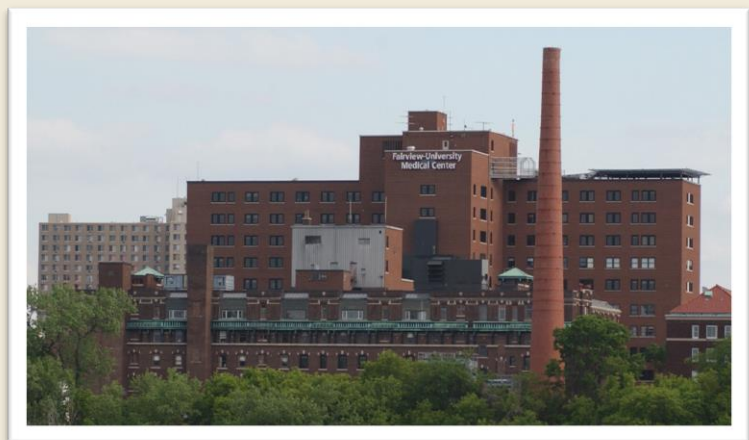
CLS Program faculty presented their work with digital technology in the classroom at the Academic Technology Showcase in April 2012 and published 4 chapters in an eBook *Cultivating Change in the Academy: 50+ Stories from the Digital Frontlines at the University of Minnesota in 2012*. The book addresses four overarching topics -- ideas for transforming teaching methods, solutions to specific classroom problems, examples of campus leaders providing direction and support for these efforts, and ways the university is spreading its innovation off campus. The following is a link to the eBook: [http://conservancy.umn.edu/bitstream/125273/5/CC50\\_UMN\\_ebook.pdf](http://conservancy.umn.edu/bitstream/125273/5/CC50_UMN_ebook.pdf)

## Traditional Book Chapter

Dr. Janice Conway-Klaassen published a chapter, "The Arthropods", in the 2<sup>nd</sup> edition of *Zeibig's Clinical Parasitology* through Elsevier.

## Peer-Reviewed Journal Articles

Not only have we been very active in enhancing our curriculum with digital technologies, we have been able to show significant improvement in student performance with these developments and applications of technology in our courses. Here are this year's publications:

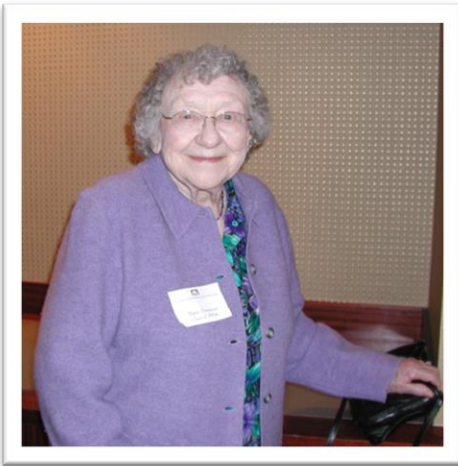


- Brueggeman MS, Swinehart C, Yue MJ, Conway-Klaassen JM, Wiesner SM. Implementing Virtual Microscopy Improves Outcomes in a Hematology Morphology Course. *Clinical Laboratory Science*. 2012. 25(3): 149-155.
- Conway-Klaassen JM, Wiesner SM, Desens CD, Trcka PM, Swinehart, CD. Using online instruction and virtual laboratories to teach hemostasis in a medical laboratory science program. *Clinical Laboratory Science*. 2012. 25(4): 224-229.
- Conway-Klaassen JM, Brennecke PJ, Wiesner SM, Spannaus-Martin DJ. Development of Online Conferencing and Web-Based In-Service Modules for Preceptor Training. *Clinical Laboratory Science*. 2012. 25(4): 4-26.



## Celebrating an Icon: Mary Damron

Ester "Mary" Skerik Damron was a proud and respected member of the CLS profession and a staunch supporter of the CLS Program at her alma mater. She had an exceptional career in the US, as well as in Trinidad, British West Indies, as a private contractor to the US Army and Engineer's Hospital in Port-of-Spain in 1941. It was here she met her husband Cecil "Red" Damron. They returned to Texas where they married and had two children, Lyn & Michael. They moved to Minneapolis and Red earned a degree in Forestry from the U of M while Mary stayed home. The family moved to Willmar, MN after Red completed his degree in Forestry and Mary involved herself in local organizations including Girl Scouts and the Parent-Teacher Association.



In 1961, Mary took a refresher course in Medical Technology at the U of M and accepted a position as supervisor in the Urinalysis section of the laboratory at the University Hospital; a position she held until 1981. Mary was also very influential in teaching urinalysis to many laboratory

practitioners and medical residents in Minnesota and around the country. In 1996, Mary was awarded the Medical Technology Distinguished Alumni Award to honor her many contributions to the profession, her students, and colleagues. In 2011, she was awarded a certificate for her 50 years of cumulative, active membership in ASCLS. To many of us, Mary was more than this brief biography. She was, indeed, the epitome of the highly competent laboratory professional and an enthusiastic teacher. She regularly attended alumni events, was actively involved in local clubs, and especially enjoyed her family. Mary was an icon in laboratory science at the U of M and will be missed by many for her warm smile, positive outlook on everything, and will be remembered with great admiration and affection.

Donations to the CLS Alumni Scholarship fund (#1670) are being accepted in memory of Mary and her legacy in education and community service. If you would like to make a donation in her honor to help support students, visit our website at <http://giving.umn.edu/clsalumni>.

## Special Tribute to Alumni

### Patricia Solberg Honored at 2012 Alumni Banquet



Pictured from left to right: Mary Jane Yue, Patricia Solberg, & Mary Ramey.

At the spring 2012 Alumni Banquet, Patricia Solberg was honored with the Distinguished Alumni Award for her many years of dedication, passion and service to the CLS program, its many hard-working students, the higher education community, and our profession.

Patricia began her career at Midway Hospital in St. Paul after graduating from Gustavus Adolphus College. She became the Education Coordinator for the Medical Technology program at Midway and then moved to the University of Minnesota program in 1984, where she served as an advisor. In actuality, she worked in many areas of the program including student recruitment, clinical rotation coordination, student policy, job placement, and laboratory instruction in chemistry. She was given the John Tate Award for Excellence in Academic Advising in 1999 for her efforts in student advising.

Throughout her career at the University, Patricia worked tirelessly for students and staff with a gracious and friendly demeanor. So many CLS practitioners owe their start to Pat's expert guidance. She continues to be well respected in the University community for her work with students and was an exceptional colleague to all who worked with her. Patricia served as the associate program director and principle student advisor and retired from the program in November 2011 after 27 years of service.

*Thank you for your dedication, Patricia!*

# 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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If you wish to make a  
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[http:// giving.umn.edu/clsalumni](http://giving.umn.edu/clsalumni)

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# Thank You!

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

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# Join CLS for our 90<sup>th</sup> Anniversary and Banquet!

This spring is the 90<sup>th</sup> anniversary of our Medical Technology / Clinical Laboratory Sciences Program. With our strong foundation in quality education, the medical and basic sciences, the future of the profession is full of opportunities in a wide variety of laboratory careers.

To mark this momentous occasion, on Saturday, May 4<sup>th</sup>, 2013, we will celebrate the future, connect with the U of M, and reminisce with classmates and friends. Come see the many changes on campus, including the light rail on Washington, the TCF Stadium, new buildings for teaching and learning, and some familiar landmarks as well! The delivery of our courses has also transformed into the model for the future. We are still providing the highest quality education but the classroom is now on your computer.

## 90 Years Strong

### Sat., May 4, 2013

### Join Us!



Along with the annual Alumni Banquet in the evening, we have added an afternoon to socialize and tour the U of M student laboratories and the clinical laboratories at University of Minnesota Medical Center, Fairview. Faculty and students will be available to share what they are teaching and learning. We encourage you to contact your classmates, meet up with friends, and if you like, go for a walk around campus. The Commons Hotel on Washington Ave is available for those who need lodging – ask for the academic rate. Please join us for any part of the day, and stay for the annual banquet!

#### Class of 1938 (75 Years)

Lois Bailey\*  
Catherine Ballou  
Ruth Barron  
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Harriette Schneider  
Ethel Segal  
Daisy Tweedy\*  
Martha Waterstradt\*  
Louise Weber\*  
Ione Yarbrough\*

#### Class of 1963 (50 Years)

Joyce Abramson  
Geraldine Anderson\*  
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Karen Brown  
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Joan Henderson\*  
Sandra Holm  
Ferol Hylander  
Karen Karni  
Marlys Keefe  
Idella Larson

#### Class of 1963 (50 Years)

Joyce Larson-Schampel  
Patricia Lehman  
Dorothy Mankvitz\*  
Jean Marble  
Kathleen Nadreau  
Sandra Pearson  
Cleone Peterson  
T Jean Purcelli  
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Marilyn Stall  
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Kathleen Thompson  
Michael Tischler  
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Marguerite Uphoff  
Jo Ann Wallgren  
Gwen Wildermuth

#### Class of 1988 (25 Years)

Karen Albrecht  
Robin Bearth  
Steven Benson  
Michelle Cain  
Lap Chan  
Michael Edstrom  
Kevin Gildner  
Susanne Griak  
John Hilgren  
Janice Jensen  
Susan Johnson  
Tina Jones  
Joan Kolbow  
Julie Langmade  
Charlotte Lieb  
Leslie MacKichan  
Lori Melby  
Kristin Odom  
Shari Ollila  
Ann Sullivan  
Bethany Walters

Please join our celebration!  
See page 15 for  
schedule & registration.



\*Deceased



# Changes on Minneapolis Campus



## University Recreation and Wellness Center Expansion

The Rec Sports building addition is nearing completion. The facility will sport a new entrance lobby, a fitness center expansion to more than 25,000 square feet, a center for outdoor adventure (climbing wall), additional office and multipurpose rooms, a full service cafe open to the public, an elevated jogging track, multi-activity courts/gym, an indoor cycling center, a wellness resource center, and expanded locker rooms.

A live webcam is available at <http://www.recsports.umn.edu/expansion.php#top-nav>

## Experimental Physics and Nanotechnology Advancement Building

This new building will house 40 laboratories for shared use by Nanotechnology and Physics, replacing the Tate Lab which could not be modernized to meet future needs. These two departments bring in \$30 million in federal grants each year. The building, which includes a 5,000 square foot clean room, is located behind the Washington Avenue Ramp, across Harvard Street from Rec Sports. To the right is an artist's rendering of the building, which will be completed in 2013 (<http://physicsnano.umn.edu/assets/img/physics-nano-exterior.jpg>).

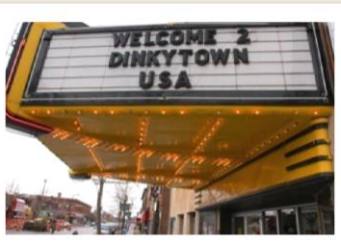


## Molecular Cellular Biology Building (MCB)

While the MCB building is not brand-new, it is the location of the laboratory classes in the CLS curriculum. MCB was completed in 2001, and replaced the Owre-Millard-Lyons complex of buildings. Jackson Hall was updated at that time and is the remaining landmark of the buildings that lined Washington Avenue. A plaza now occupies the space behind MCB, between it and the Mayo Building. The picture to the left shows artist Amy Toscani's interpretation of a molecule – spurring lively debate among biology students and faculty alike about art imitating life.

## Science Teaching and Student Services Building (STSS)

The new Science Teaching and Student Services (STSS) building replaced the demolished Science Classroom Building and is home to new, state-of-the-art "active learning" classrooms and numerous student services offices. The building has five stories and offers a wide view of the West Bank and downtown Minneapolis over the Mississippi River. It has 10 active learning classrooms, which provide for technology-driven and collaborative interaction among students and faculty. There are also five multipurpose classrooms and two larger lecture halls. In addition, the STSS is designed with sustainable energy features such as day-lighting, natural convection, and high-performance glass.



## On-and-Near Campus Housing

As demand for on campus housing exceeds the supply, construction of residence and apartment buildings is alive and well. Eight residence halls and three apartment facilities on campus cannot meet the guaranteed housing policy for first year students. The largest project in progress is the 17<sup>th</sup> Avenue residence hall, slated for completion and occupancy in fall of 2013. This six story coed facility will house 600 students. A live webcam of the ongoing construction is available at <http://www.4threshall.workzonedcam.com/>

## Biomedical Discovery District

The Biomedical Discovery District is a complex of research buildings located on the north side of the TCF Gopher Stadium. Buildings include the Lions Research Building, McGuire Translational Research Facility, Medical Biosciences Building, and the Center for Magnetic Resonance Research. The newest building under construction is the Cancer/Cardiovascular Building, considered the "gateway" to the complex. Construction began in May 2011 and is due to be completed this spring. Look at a virtual flyover of the complex at <http://www.health.umn.edu/research/bdd/>



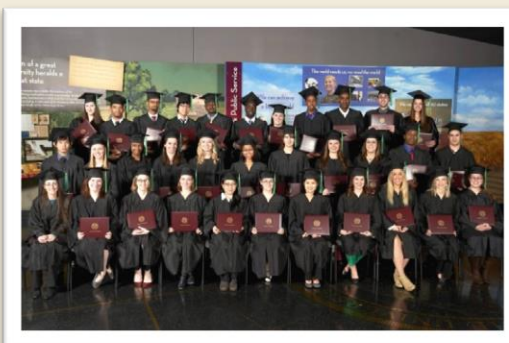
# Graduating Class of 2012

## Clinical Laboratory Science Program's 2012 Graduating Class

The Center for Allied Health Programs held its graduation ceremony on December 14, 2012 at the McNamara Alumni Center. Over 450 guests, including graduates and their proud friends and family were in attendance to mark the occasion. The procession was led by Dr. Virgil Mathiowetz from the Program in Occupational Therapy, who carried the Ceremonial Mace of the University of Minnesota.

The student address was given by Kate Nelson, titled "Now the Real Learning Begins". Guest speaker Dr. Mark Taylor echoed this theme in a lively speech that was both inspiring and informative, bringing humor and encouragement to the crowd of nervous graduates. He shared stories of how graduates entering today's workforce need to be resilient, persistent, and adept at using the skills and strategies taught by CLS.

Sixty Clinical Laboratory Sciences students graduated in this class. Each student walked across the stage to receive his or her diploma and a handshake from the program director Dr. Janice Conway-Klaassen and the Honorable John Frobenius from the Board of Regents. A reception followed the ceremony.

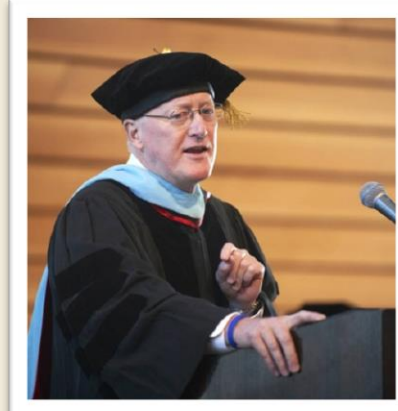


## Congratulations Graduates!

Awale Abukar  
Afra Adan  
Mina Andrianaivo\*  
Buzayew Ansha  
Jenna Banwart  
Jeanne Bergelin  
Jamie Lynn Brooks  
In Teng Chao  
Hilary Anjelica Connors  
Cody S. Czora  
Emmi Dang  
Jacob Davis  
Laura Deis  
Christian Diby  
Leah Dorer\*  
Jeremy Clarence Grate  
Tina Gronquist  
Jolene Marie Haley  
Kayla R. Hansen  
Lance Harper  
Shamsu Hashi\*

Jemil S. Hassen  
Dena J. Heckel  
Cheryl Heidbrink  
Johanna C. Henly  
Suyan Hu  
Benjamin M. Huber  
Katelyn M. Hughes  
Gamada Hussein  
Ahmed Jama  
Chan P. Kek  
Courtney Kinser  
Kari Ann Koehler  
Resmy P. Kurian  
Hien Le  
Chantel Magdik  
Erin McIntosh  
Rachel C. McLean  
Benjamin D. Nelson  
Kate E. Nelson\*  
Cynthia Ngo  
Nga Quynh Ngo

Matthew Peterson  
Phuong Pham  
Cheryl M. Poleschuk  
Nicole M. Praska  
Rebecca K. Resch  
Lindsey Rozsa  
Svetlana V. Sandin  
Laura S. Schaefer  
Heather M. Schmitz  
Emily Sheehan\*  
Sandra Tekmen  
Dereje Tesema  
David Nhiem Thai  
Kirsten Lynn Vik  
Netsanet Weldeys  
Dennis Arlyn Wold\*\*  
Liubou Yarmolik  
Yusuf Yusuf



\*Student earned a degree with distinction;

\*\*Student earned a degree with high distinction.

# Meet Some CLS Students!



**Nghì Huynh** is from Savage, Minnesota, and currently lives and attends the Clinical Laboratory Sciences Program in Rochester. Nghì moved to Minnesota in 2008 from Vietnam with her parents and younger brother. Nghì heard about the CLS profession from a relative who graduated from the University of Minnesota CLS program. Nghì has attended the University of Minnesota her whole college career. After graduation, she plans work in the CLS profession and then go on to school to become a Physician Assistant. When not studying, Nghì likes to watch movies and read.

**Kent Johnson** is originally from Hermantown, Minnesota, and for the past ten years has lived in Inver Grove Heights. Kent is married, has a nine year old daughter and three dogs. Kent is one of the many students that commute to the Rochester performance site each week. After being a high school science teacher for twelve years, Kent decided to make a career change. He has always had an interest in the medical field and looked for a profession that would suit his needs, and clinical laboratory sciences fit the bill. After graduation, he plans to work in the hospital laboratory setting and would ultimately like to work in research. Kent's hobbies include brewing beer, camping, canoeing and snowshoeing.



**Dennis Okindo** was born and raised in a rural village in Kenya. He went to elementary and high school close to his village. After high school he won a Green Card lottery that enabled him to relocate to the USA. He has been here six years and initially attended a community college before coming to the U of M. A friend who was enrolled in CLS introduced him to our program. It appealed to him because he had an interest in a health care career. In his spare time, he enjoys poetry, soccer and spending time outdoors in nature. After graduation, Dennis might go on to medical school or specialize in one area of CLS.



**Mary Gibson** has had a very interesting path to our program. She was homeschooled until college in rural Wisconsin. She was an EMT/ER tech and

worked in computer technical support before attending St. Thomas, where she graduated with a BA in philosophy and theology. She spent time in the religious life as a nun in Kansas City and returned to St Paul to again work in the medical field. She heard of our program through a friend who is a CLS. It seemed a great fit for her because she wanted to know about disease processes and loves solving puzzles, microscopy, and technology. Mary volunteers for a non-profit that provides help for vulnerable women and babies. She loves cooking, reading, hiking, horseback riding, and photography. When she graduates, she would like to bike commute to a busy metro hospital to start her new career.



## Faculty experts in CLS education



Pictured above:

Lorna Ruskin, Mauri Brueggeman, and Joanna George

As a doctoral degree granting institution with a very high level of research activity (Carnegie Classification), we are always encouraging our faculty to further their education either through formal or informal channels; such as participating in professional continuing education seminars or through formal course work. Two of our faculty have recently completed their master's degrees. The CLS Program also welcomes new faculty member Lorna Ruskin, who will take on the role of primary course director for microbiology,

**Joanna George** received her BS degree from Minot State University in North Dakota and her SBB from Tidewater Regional Red Cross in Norfolk, VA, and has now completed her Masters of Professional Studies through the College of Continuing Education here at the U of M in May 2012.

**Mauri Brueggeman** received her BA in Physiology and her BS in Medical Technology here at the U of M and most recently completed her Masters of Education in Comprehensive Work and Human Resource Education/Adult Education also at the University of Minnesota in May 2011.

Please join us in congratulating Joanna and Mauri on their important achievements!

**Lorna Ruskin**, who will take on the role of primary course director for microbiology, received her BS in Medical Technology and Biology from Minnesota State University-Moorhead, and her MS and EdD in Curriculum and Instructional Leadership from Argosy University in Eagan, MN. Lorna comes to CLS with extensive experience as a clinical laboratory scientist, technical consultant, and a program director of a regional MLT program. She was also the Project Coordinator for the Simulation Laboratory with St. Paul College and Allina Hospitals and Clinics.

## Rochester performance site welcomes new faculty and staff!

The Center for Allied Health Programs is excited to welcome new faculty and staff to assist our students at the Rochester performance site.



**Nicole Zahnle** received her BS degree in Medical Technology from Western Illinois University and her Medical Technology clinical training at Methodist Medical Center in Peoria, IL. Nicole will be a Teaching Specialist laboratory instructor for our Rochester on-campus student laboratories covering all subjects. She has worked in several different laboratories and most recently comes from the Mayo Clinic Laboratory. With teaching experience in the Mayo program she will be a strong asset for the students and our program.

**Edward (Ted) Galaty** earned a Bachelor of Arts in Health & Wellness from St. Olaf College in Northfield, MN, and completed a Masters of Education at Grand Valley State University in Grand Rapids, Michigan. After completing his MEd., Ted moved west, first working at USC in California, and then at Chaminade University in Hawaii. In 2007 the Galaty family relocated to Rochester, MN, where they could be closer to family.

Ted is excited to be working for The Center for Allied Health Programs as his two main passions are education and health. His office is located in the University Square in Rochester where he is accessible to students and faculty of the Occupational Therapy and Clinical Laboratory Sciences programs. Ted's goals are to develop strong connections with students, faculty, and the Rochester community.





## What Does it Say on Your Name Tag?

In 2009 the National Credentialing Agency (NCA) and the American Society for Clinical Pathology, Board of Registry (ASCP-BOR) merged to generate a new credentialing agency known as the ASCP, Board of Certification (BOC).

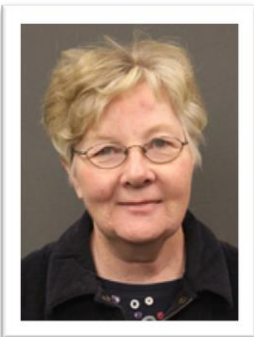
Along with this merger the title of the baccalaureate degree certified practitioner was changed to Medical Laboratory Scientist (MLS). At the same time the credential changed to MLS(ASCP)<sup>CM</sup> to fit the new title along with the "CM" designation indicating that newly credentialed individuals would continue to "re-certify" on a regular basis to maintain their active certification.



As we are going through a reorganization of our curriculum to fit the new NAACLS Standards and to align with the BOC content outline, we decided to request a name change for the CLS Program. If everything is approved, our new title will be the Medical Laboratory Science Program beginning in Fall 2014.

No matter what we're called – we are the best!

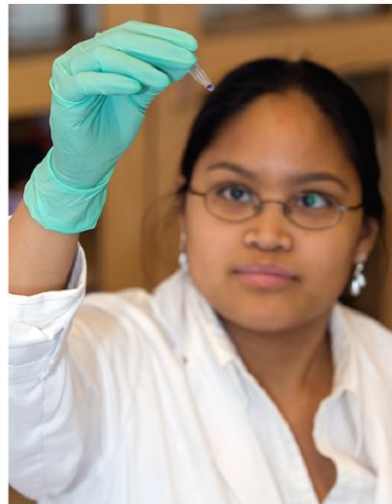
## Save the Date - Retirement



Please join CLS in May 2013 for a party! We sadly announce that another faculty retirement is approaching. Lynn King has announced her retirement effective June 3, 2013. Lynn began working at the University of Minnesota Hospital in 1970 and has been teaching chemistry with the CLS program since 1997.

A retirement celebration is being planned for May 31<sup>st</sup>, 2013. More details are forthcoming so that friends, colleagues, and students can join the CLS Program in wishing her well!

## The Clinical Experience



The clinical rotation is a very critical part in the education of every new Medical Technologist or Clinical Lab. Scientist. Whether you're a recent graduate or your first clinical experience happened many years ago, you probably have some great memories of those student days.

Along with the changes we've seen in testing procedures, equipment and healthcare systems, the clinical rotation has also changed in many ways.

Clinical rotations are no longer a clinical training of every bench procedure, but rather a clinical experience. Two main factors contributed to the change in rotations. First, the increase in class size to 65 students would have negatively impacted clinical sites that are already struggling with the economic stresses in healthcare, and second a review of our curriculum showed that most skills were already being taught on campus. Because the University education provides the theory and laboratory skills needed for the profession on campus, the extensive clinical training is no longer necessary.

In the beginning, the year-long clinical internship was needed to train students on all procedures of the specific hospital. Eventually we changed to a clinical training of 22 weeks. But with our updated curriculum we now have developed a 12 week clinical experience, three weeks in each of the 4 major disciplines. The clinical experience applies what students have learned on campus to the real world, and provides patient contact and learning the culture of the laboratory. Students do not experience every test or instrument as in the past, or become proficient in all areas. A focus is also placed on student affective domain, communications and other professional behaviors along with work flow and quality assurance. This is the transition time from student to employee.

Because we no longer need full-service laboratories as clinical sites, we have been able to expand to hospitals and clinics throughout the state of Minnesota and western Wisconsin. The diversity of sites provides students with a better understanding of career options and a willingness to consider employment opportunities outside of the Metro area.

Students still have the memories from student days in the clinical laboratory, but the experience will undoubtedly be different than it was in the past.

# CLS Program Emphasizes Writing

While most of us don't think about writing as a major component of the Clinical Laboratory Science Program, few would dispute that our need to accurately communicate the work we do in the laboratory to healthcare providers, patients, and the general public is of critical importance. The writing a clinical laboratory science major needs to learn is different from the writing in other majors. Clinical laboratory science graduates will be writing standard operating procedures, correspondence with healthcare providers, and interpretations of laboratory results, and they need to be able to express these in a clear and concise manner.

With this in mind, the Clinical Laboratory Sciences Program has become a part of the University of Minnesota's Writing Enriched Curriculum (WEC) Project. This project, that began at the university in 2007 with support from the Bush Foundation, works with academic units to infuse writing and writing instruction across the undergraduate curriculum. The WEC Project looks at how writing is used within the major, and helps faculty tailor the writing assignments to develop the skills their graduates need to succeed. Learn more about WEC at <http://wec.umn.edu/>.



Currently, one of the CLS courses - CLSP 4601W Management & Professional Issues - is designated as a writing intensive course. Although the writing intensive course will continue to be a part of our curriculum, the writing-enriched curriculum plan incorporates writing into almost all of the CLS courses. Over the past year, laboratory practitioners from across Minnesota were surveyed to determine which writing skills needed to be emphasized. Dr. Donna Spannaus-Martin has served as the WEC liaison, working with WEC and CLS faculty to develop a writing plan that would help students develop the communication skills necessary for clinical laboratory professionals. Over the next year, CLS faculty will be attending workshops to learn more ways to help students develop these writing skills.

## Changes in the Program Admissions Process

The program has revised its admissions process over the course of the last few years. First, the application process is entirely electronic and managed by Student Services staff. Students submit personal and academic information via an application portal on the Clinical Laboratory Sciences web page. This information is easily accessible to Student Services staff as they collate the information. As students complete the application process, they are asked which campus they'd prefer to attend, and as the performance site in Rochester has evolved, so has the number of applicants interested in attending the UMR campus.

After application information is collected, qualified students are invited to the campus for an interview so that the faculty can evaluate their interest in the program and get to know the students in person before making admissions decisions. Next, the applicants are asked to perform a basic skills test designed to evaluate their aptitude for laboratory work. Finally, the applicants are ranked based on both academic and affective attributes before letters are sent to those accepted for the upcoming term.

Hopefully, these changes will provide a streamlined process for applicants, increase the quality of candidates applying to the program, improve student retention, and help improve the financial stability in the long term. While this process has added to the faculty's already heavy workload, the benefits are clear as we have begun to see improvements in the quality of our students' work, which we hope will translate to higher passing rates and better scores on national certification exams.

## Program Report on Class of 2012: Admission & Graduation Data

<b>Seniors matriculated in 2011*</b>	<b>66 (41 Twin Cities, 25 Rochester)</b>	<p><b>The CLS Program Report on 2012 Graduates provides details on the senior cohort that began the CLS curriculum in Fall of 2011. This cohort is the combined result of the admissions processes for Fall 2010 and 2011. To date, 92% of the graduating class has passed the ASCP Board of Certification.</b></p> <p>*2<sup>nd</sup> major and students from affiliate programs are included.                  ** Nine students from this cohort anticipate graduation in 2013.</p>
<b>No. of students graduating in 2012**</b>	<b>57</b>	
<b>Average Age</b>	26 yrs	
<b>Gender</b>		
Female	42	
Male	24	
<b>Ethnicity</b>		
Native American/Hawaiian	2	
Asian	11	
Black	13	
White	39	
Not reporting	1	
<b>ASCP Board of Certification Pass Rate</b>	92%	

# Register for the 90 Year Celebration!

## Schedule of Events on Saturday, May 4<sup>th</sup>, 2013:

Registration – Moos Tower 2nd floor Informal Social Coffee and treats will be available throughout the afternoon Maps will be available for self-guided tours around campus	1:00-5:00
Guided Tours Student laboratories UMTC campus and connection with UMR campus Clinical laboratories, University of Minnesota Medical Center, Fairview	1:30-3:30
Meet the Program Director and Faculty Demonstrations of digital technology in our courses New curriculum	2:30-4:30
Gathering at McNamara Alumni Center Cash bar	5:00-6:00
Annual CLS Banquet	6:00-9:30

### To Register Online:

1. Go to <http://cahp.umn.edu/> and look under Upcoming Events
2. Click on More Information
3. Click on Register Now
4. Banquet payments can be securely paid by check or credit card through this registration site.

Please contact Claire at 612-625-8952 for assistance with on-line orders, or use the form below to register and pay via US mail.



(Please mail us 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 90 Years Strong!**

I plan to attend the following events:

- An Afternoon Event
- Annual CLS Banquet -- I would like to purchase the following number of banquet dinners for me and my guest(s):
- |   |           |
|---|-----------|
| ___ Grilled Salmon with Tangerine Cream Sauce and House salad                                   | 39.00 ea. |
| ___ Roasted Pork Tenderloin with Peach Barbeque Sauce and House Salad                           | 39.00 ea. |
| ___ Grilled Chicken Breast with Sage-Peppercorn Sauce and House Salad                           | 32.00 ea. |
| ___ Ratatouille Stuffed Yellow Pepper with Herbed Basmati Rice and Pumpkin Seed and House salad | 32.00 ea. |

Check enclosed amount: \$ \_\_\_\_\_ for total of \_\_\_\_\_ dinners listed above

Name: \_\_\_\_\_ Phone: (\_\_\_\_) \_\_\_\_\_

Address: \_\_\_\_\_

I graduated with Class of: \_\_\_\_\_ Former last name: \_\_\_\_\_

Mail checks payable to the University of Minnesota and send to:  
Please indicate CLS Banquet in the memo line

Debra Markert, Office Manager  
Center for Allied Health Programs  
MMC 714 - 516 Delaware Street S.E.  
Minneapolis, MN 55455

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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## CLEC in Minneapolis in 2016!

The Clinical Laboratory Educators' Conference (CLEC) will be returning for a third time to Minneapolis in 2016. CLEC had its beginnings in Minneapolis in May, 1985, when a two day conference titled "The Future of Clinical Laboratory Science - A Crisis in Education" was held. The first conference was such a success, it has been held annually ever since then. It returned to Minneapolis in 1998, and will now be returning to the Twin Cities again.

The conference will take place at the Hyatt Regency Minneapolis on the Nicollet Mall on February 25-27, 2016. If you are interested in helping with planning the conference, or if you think your organization would be interested in being a sponsor for a speaker or refreshment break, please contact Donna Spannaus-Martin at [spann003@umn.edu](mailto:spann003@umn.edu).

Clinical Laboratory Sciences Program  
Center for Allied Health Programs  
University of Minnesota  
MMC 711, 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](mailto:cahpinfo@umn.edu)  
Web | [www.cahp.umn.edu](http://www.cahp.umn.edu)



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Center for Allied Health Programs

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