

# TECH'S TALK

CLINICAL LABORATORY SCIENCES PROGRAM  
UNIVERSITY OF MINNESOTA

## CLS 89TH GRADUATING CLASS

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December 17, 2010 marked the 89th graduating class of the CLS Program. Students from both the Twin Cities and Rochester campuses participated in a joint graduation ceremony within the Center for Allied Health Programs (CAHP) at the Ted Mann Concert Hall on the West Bank Campus in Minneapolis. Mr. Fuad Ali, the 2010 class president, delivered the welcoming address on behalf of the graduating class. Dr. Barbara

Brandt, the Associate Vice President for Education in the Academic Health Center, delivered the commencement address in which she noted the move to a hybrid course delivery format for all students in CAHP Programs and the opportunities they would now encounter.

Sixty-four Clinical Laboratory Sciences (CLS) students stood together to recite the Clinical Laboratory

Science Oath. They then walked across the stage to receive their diploma and a handshake from the new Program Director Dr. Janice Conway-Klaassen. Among the graduates both Ms. Alison Begeman and Mr. Ashirbad Panta graduated with honors.

A reception for graduates and guests followed the ceremony.

**Congratulations, graduates!**



Heba Abdel-Karim  
Abdi Abdigani  
Berento Abraham  
Samira Ahmed  
Adan Ahmed  
Fuad Ali  
Yonis Ali  
Vickram Awatar  
Alison Begeman  
Nathan Bell  
Brianna Berger  
Andrea Buck  
Matthew Budnick  
Edris Bullo  
Naroth Bun  
Kimberly Burke

Sherwin Chanakarnjanachai  
Nath Chhun  
Sonam Chodon  
LeAnn Cowan  
Sarah DiPasquale  
Erin Fox  
Vicki Giang  
Hillary Gyetvan  
Erica Hansen  
Charles Hoppe  
Spencer Hosman  
Ahmed Isse  
John Kaiyaethe  
Blythe Mayfield  
Kristen Meier  
Diana Michell

Raya Mijena  
Krista Mika  
Heidi Miller  
Omar Mohamed  
Dane Nelsen  
Julius Nfon  
Brenda Nelson  
Tammy Nguyen  
Anna Nguyen  
Benta Onsomu  
Ashirbad Panta  
Carolyn Peterson  
Susan Pierre  
Jessica Reinitz  
Nataliya Reznikova  
Mohamad Salat

Marie Schmitz  
Tracy Schneider  
Daniella Severiano  
Matthew Sexton  
Melinda Strehle  
Fitsum Teferi  
Abebe Teklu  
Ross Tervola  
KauChee Vang  
Beverly Weddle  
Merertu Weldesenbet  
Blake Willborg  
Tanisha Wright  
Yonas Wondafrash  
Kia Yang  
Amanda M. Zandlo

**CLS PROGRAM DIRECTOR**



I just arrived in Minnesota over the past Labor Day weekend. What a change it is from Las Vegas where I lived for the past 23 years. I am very pleased to be here amongst a University, a CLS Program and a state laboratory community steeped in wonderful history of collaboration and professional pride. It is great to be here!

It is critical for laboratory professionals to now embrace the changes that are happening around us. Not just in the economy which is on everyone's minds, but also the needs of the future of our profession. Most students these days are working and sometimes parenting as well. They are juggling their personal lives with the need to finish their education. Adding to these impact factors are the issues about the laboratory professional work force itself. The general population is also getting older as baby boomers reach retirement age and we as laboratory professionals are aging as well. At the same time we are also generating an increased demand for laboratory testing as we use more and more of medical services. Our professional societies estimate that we are currently graduating only half of the workforce personnel needed and that by 2016 we will face a shortage of 13,000 laboratory practitioners each year.

As an educational institution we have a responsibility to our profession and our stakeholders in and around Minnesota to address these issues head on. CLS faculty at UM Twin Cities are working with faculty at UM Rochester and faculty from MnSCU campuses to develop a uniform CLS curriculum for Minnesota providing a consistent skill set for graduates. We are working with UM coordinate campuses to offer the CLS program around the state (Rochester and soon Crookston). We are also working with laboratory managers around the state to provide the clinical experiences our students need.

Many of us who graduated from traditional "Med Tech" schools may be skeptical at first about all of these changes. How can this possibly provide the same education I had back in the day? Well the answer is frankly, we are not providing the same education we had 10, 20 or more years ago. We are providing the new educational model for CLS, developing competent individuals who are ready to begin their careers but also ready for the future developments in laboratory medicine. Laboratory medicine has changed but we also have many more teaching tools at our disposal than ever before. With the constant expansion of scientific techniques we need individuals who are ready to adapt and yet still have the skills that define our profession as it grows.

We have a lot of challenges in front of us but as always the faculty and staff of the CLS Program at UM are ready for them. The University of Minnesota's CLS Program will continue to be a leader in our field. This is a wonderful program and I am very glad to be a member of the team.

*Jan*

Janice M. Conway-Klaassen, PhD, MT(ASCP)SM  
 jconwayk@umn.edu  
 612-626-9408

**CAHP DIRECTOR**



I am pleased to announce that Janice M. Conway-Klaassen, Ph.D., MT(ASCP)SM, joined the Center for Allied Health Programs as the Director of the Clinical Laboratory Sciences (CLS) program on September 1, 2010. As Director, Jan will lead the CLS program at both the Twin Cities and Rochester campuses. Dr. Conway-Klaassen has a strong background in CLS program management including professional program accreditation administration along with expertise in computer-


based and distance learning instructional design. She was one of the founding faculty members of the CLS program at the University of Nevada, Las Vegas (UNLV) and was instrumental in converting the curriculum to distance education options for all lecture and clinical courses. In addition, she expanded clinical affiliation training sites to surrounding states and rural areas where workforce shortages in CLS were most severe. Dr. Conway-Klaassen is a member of the American Society for Clinical Laboratory Science, the American Society for Clinical Pathology (ASCP), and the American Society for Microbiology. She is an active faculty participant in the annual Clinical Laboratory Educators Conference and was recently elected to the NAACLS Program Approval Review Committee which provides oversight for accredited/approved medical laboratory educational programs. Dr. Conway-Klaassen served as director of the Clinical Laboratory Science program at UNLV since 2001 and was a faculty member there since 1988. She received her BS in Medical Technology from Michigan State University in 1974 and her MS in Medical Technology from Wayne State University in 1978. She is also certified as a Medical Laboratory Scientist and Specialist in Microbiology by ASCP. She received her PhD in Educational Psychology/Learning and Technology from the University of Nevada, Las Vegas.

Dr. Conway-Klaassen is actively involved with faculty and directors from Minnesota State Colleges and Universities (MnSCU) and Healthforce Minnesota, a statewide workforce development group, to design a statewide competency-based "model curriculum" for laboratory education. This effort has great promise to be a national model for CLS education.

The "model curriculum" is just one example of how the program in clinical laboratory sciences is committed to advancing the profession in Minnesota and beyond.

Cindee Quake-Rapp, Ph.D.  
 Director, Center for Allied Health Programs

*Cindee*



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 CLS Faculty & Staff**

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 E-mail: [cls@umn.edu](mailto:cls@umn.edu)  
 www.cls.umn.edu**



At the 2010 CLS Alumni Banquet, **Jean Linné, Class of 1958**, was named the Alumna of the Year. Jean began her career as a generalist, working nights at the University of Minnesota Hospital. Recognizing a good teacher when they saw her, Jean was hired one year after her graduation as an instructor for the Medical Laboratory Assistant program that had begun at the U of MN. This program was developed into the first Medical Laboratory Technician program and was eventually moved to St. Paul Technical Vocation Institute (now St. Paul College) in 1968.

Jean left the MLA program when her first son, David, was born.

Jean, along with Karen Ringsrud, has authored and edited a number of textbooks. They started working on the first book in 1968, "Basic Laboratory Techniques for the Medical Laboratory Technician". This book is now in its 4<sup>th</sup> edition. In addition, Jean and Karen produced an Atlas of Urinalysis and Body Fluids which was published in 1995.

Jean worked closely with Dr. G. Mary Bradley, Course Director for Laboratory Medicine and Pathology courses, first, as a part time instructor in the Laboratory Medicine Course for Medical students and eventually becoming full time teaching faculty and Course Coordinator. She was also Course Coordinator for the Pathology Course for Allied Health Students. Jean eventually helped develop and facilitate the Distant Learning Course as an alternative for the Pathology for Allied Health Students unable to attend when the class was offered during Spring Semester.

In 1993, Jean was appointed as an Assistant Professor in the Department of Laboratory Medicine and Pathology. She retired in 2006 after 48 years of service to the University of Minnesota. Jean is a strong supporter of the Medical Technology/Clinical Laboratory Sciences program and we are proud of the influence she has had on the lives of many laboratorians and medical professionals through her textbooks and teaching. Jean's kindness and generosity are exemplified by her chauffeuring numerous alumni to the banquet every year.

Jean states "I consider myself to be most fortunate to have been a graduate of the University of Minnesota's Medical Technology Program". She along with her husband David are happy retirees. They have two married sons and four grandchildren.

## WHAT'S IN A NAME ...? MT ? CLS ? MLS ?

How apropos this phrase is to the alphabet soup that enmeshes our profession today. Because of the changes in credentialing agencies that took place in October of 2009, we thought it worthwhile to clarify the old and new professional designations seen in the laboratory today and what they signify.

On October 23, 2009 the credentialing activities provided by the National Credentialing Agency (NCA) and the American Society for Clinical Pathology, Board of Registry (ASCP BOR) were consolidated into a single credentialing program newly named the Board of Certification (BOC). The impetus for this merger was to create a unified standard for entry-level competency in our profession. Other benefits of unification were to provide the public and other healthcare professionals with a better understanding and recognition of our credentials, to reduce confusion, and facilitate employers in standardizing job descriptions and salaries.

With this merger came a "new" designation for baccalaureate-level *certified* individuals. The terms Medical Technologist [MT(ASCP)] and Clinical Laboratory Scientist [CLS(NCA)] have been replaced with "Medical Laboratory Scientist" or MLS(ASCP). However, this change in credential only applies to the following: 1) individuals that have taken the NCA or BOR exams since 2004 and have maintained "active" status through continuing education or certification maintenance (CM), 2) all "active" NCA credentialed professionals, i.e., those that have maintained their credential through recertification, and 3) ASCP BOR credentialed professionals certified prior to 2004 that are currently participants in the BOR's Certification Maintenance program (CMP).

So you may ask, "What am I?" If you do not fall into one of the three categories described, you retain the original credential conferred and its designation, such as CLS(NCA) or MT(ASCP). Over the years to come, these designations will eventually disappear from the workplace through retirement of these individuals. Basically, the new MLS(ASCP) designation indicates baccalaureate-level *certified* individuals that maintain "active" status in the profession through documentation of their on-going continuing education or by examination.

Note that the BOC recommends an additional acronym superscript (CM) be used by credentialed individuals, i.e., MLS(ASCP)<sup>CM</sup>. The CM to designate "active" certification maintenance has not been universally embraced by all credentialed laboratory professionals. The need to add initials to designate "current" certification status has been questioned. What other professions do so? Do physicians? Do dentists? Do attorneys? Do pharmacists? Do occupational therapists? Therefore, you may encounter *actively credentialed professionals* that chose to use the designation MLS(ASCP) or simply MLS.

So, next time you are hospitalized and interact with a laboratory professional, attend a professional laboratory meeting, or read a journal article written by a laboratory professional, the following designations may be encountered and they all indicate a *baccalaureate-level certified* laboratorian: MLS, MLS(ASCP), MLS(ASCP)<sup>CM</sup>, CLS(NCA), MT(ASCP).

**What's in a name? . . . a laboratorian by any name is an awesome professional!**

**ANNIVERSARY CLASSES HONORED**  
EACH YEAR WE CONTINUE OUR TRADITION OF HONORING  
THE 75TH, 50TH AND 25TH ANNIVERSARY CLASSES

Page 4

**CLASS OF 1936 (75TH ANNIVERSARY)**

Frances Anderson**	Flora Gilmore Mitchell	Gladys Nyborg McKenzie
Mary Behrens Williams*	Beatrice Goldstein*	Adrienne Odlaug Mullin*
Loretta Bell Martin*	Mabel Gordon Graeber*	Cornelia Pautsch Bogart*
Jane Blomquist*	Annis Gould Smith*	Gertrude Peterson Kirkham**
Ardus Bottge Windhorst	Dorothy Greenberg*	Rhea Post Chandler**
Kathleen Casey*	Eloise Greenwood**	Virginia Sparks Green*
Gayette Clarkson Anderson*	Helen Heino*	Caroline Stutzman Hall**
Marion Cody	Lucille Hoiland**	Alice VanKrevelen**
May Collins*	Mavis Johns Nelson	Gertrude Wooldrik Nessa*
Ruth Cooperman Greenberg*	Dorothea Kryewinske	Leah Zeesman Lewis*
Joan Cress*	Ruth Mayne*	Nancy Witstine
Max Eil*	Elizabeth McClean	
Ruth Evarts Hanold*	Gerald Miller**	
Margaret Fawcett Coughlin	Louise Miller Varco	
Barbara Fishbein Friedell	Evelyn Norquist Gardner*	

**CLASS OF 1961 (50TH ANNIVERSARY)**

Gloria Bagnas*	Renelda Hess Sather	Laurie Reinhart
Harriet Block*	Susan Johnson Caquelin	Alice Saari Martella
Constance Cave Verre	Mary Johnson Grewe	Cheryl Schleif Luckow
Nancy Christiansen Ballot	Marianna Juhl Jergenson	Vizma Strauman Podnieks
Dorothy Engelbretson Lannon	Martha Jurkovich Arko*	Gretchen Tronnes Johnson**
Donna Fruen Prewitt	Jane Lafayette Lender	
Harriette Goldstein Burstein	Joanne Laine Koski	
Karen Halverson Wasson	Donna McKeone Gustafson	
Rhoda Hanson Drake	Joanne Myhre Kerns	
Catherine Harrison Hanson	Clareyse Nelson	
Carolyn Hart Albrecht*	Sheila Nilan Seifert	

**CLASS OF 1986 (25TH ANNIVERSARY)**

Julie Anderson Obritsch	Kiz Oftedahl Linton	
Christina Fox Gramlich	James Osborn**	
Nancy Haines Sprang	Sheryl Pust Knox	* No current address on file. If you have an address for these people would you send it to us?
Karen Harris Chatt	Mary Rolfzen Vehrenkamp	
Barbara Jensen Luebering	Marta Shahsavand	
Jean Kramber	Julia Smith Stady	
Heidi Ludwig	Laurel Trammel Pettit**	
Stephanie McCreadie Church	Bradley Uhrig	
Anne Mettler		
Carolyn MoriartyDonald Naatz		**Deceased
Timothy O'Donnell		

If you are a member of an anniversary class, please make a special effort to attend the annual alumni banquet. The reservation form is on page 7. Classmates from the anniversary classes will be seated together, so you will have the opportunity to renew friendships.

## 2010 CONTRIBUTORS

THE FOLLOWING CONTRIBUTED \$100 OR MORE TO THE  
CLINICAL LABORATORY SCIENCES PROGRAM IN 2010

Page 5

### \$5,000-\$100,000

John W. & Eileen A. Sands                      Beckman Coulter Foundation  
James K. Ferderer                                      Verna DeLeo Mallek

### \$1,000-\$4,999

Marcine J. Forrette                      Ella M. Spanjers                      Margaret A. Gabrik                      Karin J. Libby  
Phyllis J. Weiss                              Christine N. Stenman                      Marilyn D. Olson

### \$500-\$999

Clareyse Nelson Foundation                      Dr. Paul C. Schreckenberger                      Mary K. Weimer  
Clareyse E. Nelson                                      Todd C. & Mary E. Jacobson                      Joanne S. & Lee W. Arvid  
General Mills Foundation                              Andrew R. Yue

### \$300-\$499

Dr. Bruce & Jean Hyslop Carlson                      Jean S. & Ronald D. Halverson                      Kathryn Hammer Glen  
Mrs. Robert A. Dahl                                      Ethel V. Rodriguez                                      Jacquelin A. Heggernes  
Gerald R. Mulcahy                                      Dr. Igor N. Semenenko                                      James H. & Elberta L. Prestegard

### \$100-\$299

Ruth A. Anderson	Marilyn R. Haglund	Joetta G. DuBois McClintock	Ruth M. Rosendahl
Sara Barnes	Dr. Marilyn Halonen	Betty L. McMartin	Lynn J. Rosvold
Ann C. Benson	Ruth M. Hartman	Arlene M. Meadows	Laura G. Rude
Harriet I. Brown	Rosemary K. Hartung	Barbara G. Melamed	Dr. James G. Ruggles
Marilyn T. Budge	Karen Kloss Huff	Diane M. Michalik	Jean M. Rysavy
Michelle V. Wieland-Cain	Phyllis Jacobs	Mary Lou G. Mohn	Norynne M. Schiminsky
Stanford & Elise Church	Marlys J. Jensen	Toni D. Muckala	Melicent E. Schmidt
Ann D. Claesgens	Patricia A. Joecks	Joann M. Nelson	Janet E. Schultz
Virginia R. Coxe	Dorothy K. Karlen	Beverly R. Ness	Kathleen B. Standing
Larry M. Davidson	Cheryl A. Kaup	Patricia L. Norgren	Dr. James K. Struve
Dr. Robert Dexter	Shirley E. Kenning	Lou Ann O'Brien	Ha T. Su
Robin L. Donner	Patricia L. Koors	Jeanne C. Olsen	Dr. Michael & Kathleen Tekautz
Sally J. Economon	Betty J. Kopps	Sheryl Fisher Olson	Tulsa Family Medical Care
Grace Mary Ederer	Dr. Sridhar & Usha R. Kota	Dr. Darwin D. Olson	Specialists, Inc.
David E. Ellis	George Kuprian	Bonita Parkman	Aija K. Vikmanis
John E. Fetzer Institute, Inc	Vicki L. Larson	Susan A. Piesecki	Marcia K. Wall
Janet E. Flemming	Mary M. & Keith Lerick	Dr. James W. Quaday	Nettie M. Warwood
Linda L. Fredrickson	Jean J. Linné	Kathryn L. Rantala	Dr. Robert D. & Karen Wasson
Reggie L. Gausman	Connie J. Luebke	Janet S. Redman	Donna J. Wieb
Nancy Geier	Marilyn J. Lueck	Kathleen Reimers	Anthony B. Williams
Mardie G. Geiser	R. Lucille Malmo	Debra C. Rodahl	Dr. Judith A. Winter
Marjorie E. Giesen	Jane F. Mayer	John Roesler	Nancy W. Witstine

CLASS OF 1960 REUNION

From left to right,  
Judy Baker Schelde  
Jessie Hansen  
Jean Hyslop Carlson  
Joan Aldrich  
Marilyn Hopp Koepcke  
Joanne Floeder Stemper  
Ruth Brown Anderson



Students Berento Abraham and Godana Halake with  
CLS Teaching Specialist Mary Jane Yue



Claryse Nelson



Jean Linné and Karen Ringsrud

**ANNUAL BANQUET NEWS  
FOR ALUMNI AND FRIENDS OF CLINICAL LABORATORY SCIENCES**

Join us at the Ramada Plaza Minneapolis for this year's annual banquet and reunion.  
Friends and spouses are welcome!

**Date: Friday, April 15, 2011**  
5:30 p.m. Social hour with cash bar  
6:30 p.m. Dinner with the program to follow

**Place: Ramada Plaza Minneapolis**  
1330 Industrial Boulevard  
Minneapolis, MN 55413 (612) 331-6827  
Free parking available



**Menu: Grilled Marinated Flank Steak**  
Served with green peppercorn sauce and mashed red potatoes  
or  
**Herb Baked Tilapia**  
Served with coconut shrimp, sweet and sour sauce, and rice pilaf  
or  
**Chicken Breast Marsala**  
Served with wild mushroom marsala sauce and angel hair pasta

**Includes:** Garden salad, seasonal vegetables, warm rolls and butter  
**Dessert:** Chocolate Fudge Cake

If you prefer a vegetarian option, please call the CLS Office at 612-625-9490

**Cost:** Alumni Association Members ..... \$36.00  
Nonmembers ..... \$38.00

Special recognition will be given to the classes of 1936 (75 years), 1961 (50 years), 1986 (25 years), and to the 90th graduating class of 2011.

**From East**  
Follow I-94 west towards Minneapolis  
Take Highway 280 north  
Turn left onto Hennepin Avenue  
Go to the second stoplight and turn right  
onto Industrial Boulevard  
Hotel will be on the left

**From North**  
Follow I-35W South  
Take Industrial Boulevard exit (Exit #22)  
Go left on Industrial Boulevard  
The hotel will be on the right

**From MSP International Airport**  
  
Follow I-494 west out of the airport  
Take I-35W north to Industrial  
Boulevard (Exit #22)  
The hotel will be on the right as you exit

**From West**  
Follow I-94 east  
Take I-35W north to Industrial  
Boulevard (Exit #22)  
The hotel will be on the right as you exit

**From South**  
Follow I-35W north  
Take the Industrial Boulevard exit (#22)  
The hotel will be on the right as you exit

**Deadline for reservations: April 2, 2011. Send in your reservations early because seating is limited.**

*This is the only mailing you will receive for the Clinical Laboratory Sciences Alumni Society Annual Banquet.  
Please mark your calendar and return the reservation form below.*

-----  
Please reserve \_\_\_\_\_ place(s) for me at the Clinical Laboratory Sciences Alumni Dinner.

I enclose \$ \_\_\_\_\_ as payment.

Flank Steak \_\_\_\_\_ Tilapia \_\_\_\_\_ Chicken \_\_\_\_\_

Please reserve \_\_\_\_\_ seat(s) for me at the 1936 or 1961 or 1986 table (circle one).

M.A.A. Member: Yes \_\_\_\_\_ No \_\_\_\_\_

Name (please print) \_\_\_\_\_ Class \_\_\_\_\_ M.A.A. # \_\_\_\_\_

Address: \_\_\_\_\_ Phone # (area code) \_\_\_\_\_

Guest Name (please print) \_\_\_\_\_

Make check payable to **University of Minnesota**. Reservations should be received by **April 2, 2011**.  
**Mail to: Clinical Laboratory Sciences Program, MMC 711, 420 Delaware Street SE, Minneapolis, MN 55455**

JAMES K. FERDERER FACULTY DEVELOPMENT FUND



A generous donation from James K. Ferderer, MT Class of 1953, will help faculty keep up-to-date on the latest in technology and laboratory education. The James Ferderer CLS Faculty Development Fund was established after Mr. Ferderer visited the campus in June, 2010, after having been away from Minnesota for 30 years. Originally skeptical of the many changes in the program and the use of technology in the classroom, after touring the facilities and trying some of the virtual laboratory exercises, he was very impressed and convinced that the program

was heading in the right direction.

Mr. Ferderer worked for 39 years in research, hospital and commercial laboratories. In 1992, he retired from Bio Science Laboratories in Los Angeles, where he had worked for 20 years. From his experience during his years in the laboratory, he knew that effective change does not happen on its own. It takes dedicated and highly-educated people to facilitate these changes. Mr. Ferderer wanted to give faculty the opportunity to travel to meetings and other

institutions for the exchange of ideas and to gain new information, even in tough economic times.

“In this fast changing world, one has to stay abreast of what is new around the world. The new CLS program incorporates state-of-the-art technology,” he stated in a recent communication to the program. Thanks to the establishment of this faculty development fund, the CLS program can continue to be state-of-the-art in our curriculum.

Thank You Mr. Ferderer!

ROCHESTER UPDATE



Greetings from the University of Minnesota, Rochester (UMR)!

We are currently teaching our 3rd Clinical Laboratory Science (CLS) class. UMR graduated 13 CLS students 2009, 24 CLS students in 2010, and 20 students will graduate this year. Looking forward, the future is very promising for the Rochester campus. Approximately 525 students are currently enrolled at UMR, this includes students in undergraduate and graduate programs. In 2009, UMR

admitted its first freshman class of approximately 50 students under the new Bachelor of Science in Health Sciences program (BSHS) and has had successful recruitment ever since. In 2010 approximately 100 freshman were admitted, and the goal for 2011 is to admit 150 freshmen. The BSHS program is designed to attract students who want to enter the healthcare profession but are not committed to a particular healthcare discipline. This growth of the BSHS program is significant as it will feed students into the CLS program.

With the growth of the student body begins the growth of the physical campus. A nine story student apartment style housing facility in downtown Rochester, called 318 Commons, will be completed this summer and is just a couple blocks away from the main campus. In addition to housing a minimum of 180 students, 318 Commons will have classrooms, study lounges, recreation areas and be connected to the downtown skyways.

With the growth of UMR will come the growth of the CLS program!

“UMR graduated 13 CLS students 2009, 24 CLS students in 2010, and 20 students will graduate this year.”

LET'S KEEP IN TOUCH

As in the past, we are asking you to send us an update of what you've been doing personally and professionally. Contributions, including letters and pictures, will be displayed at the Alumni Banquet. Pictures will be returned if you wish. Please be sure to have your name and address on the back and a note asking that I be returned. Thanks for keeping in touch.

Name: \_\_\_\_\_ ( \_\_\_\_\_ ) Year of Graduation \_\_\_\_\_  
Name while in school if it has changed

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

Phone Number: \_\_\_\_\_ Email Address: \_\_\_\_\_

Career/Family Information: \_\_\_\_\_

Special Interests: \_\_\_\_\_

Please mail to the address on Page 2 or Email (preferred) to "cahpinfo@umn.edu"



## HEMOSTASIS LABORATORIES GO VIRTUAL

Five hemostasis laboratory exercises that have traditionally been taught using a water bath in the student laboratory have now been transformed into online exercises.

Working with instructional designer Sheila Hoover, videographer Peter McLarnan, and programmer Jason Hill, CLS faculty member Cheryl Swinehart has created virtual laboratory exercises to replace each traditional wet laboratory.

Review of current workplace practices showed that basic hemostasis testing is all done with instrumentation. There was no longer a need for students to sit by a water bath, tipping a test tube to look for a clot. However the knowledge and principles of the assays are neces-

sary for laboratory scientists to interpret and troubleshoot the instruments.

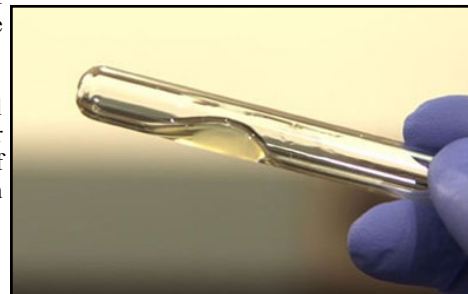
Laboratory exercises were created to allow the students to “add and mix reagents” “check water bath temperatures” and set up each test tube with the proper reagents in the proper order.

The student then performs the clotting test online by starting a stop watch when the reagent is added, watching a video of the clot forming and hitting the stop watch again when the clot is formed. A worksheet is completed for each laboratory exercise with the test results the student obtained. These are then turn in for Cheryl to review,

make comments and grade. Student feedback has been very positive on the exercises.

If you would like to try one of these exercises for yourself go to the web site listed below.

If you try it, Cheryl would love to hear what you thought of the exercise. You can email her at [swine001@umn.edu](mailto:swine001@umn.edu)



**Hemostasis Demo Web Site:**

[http://dlgdev.sph.umn.edu/test/cls\\_demo/CLS\\_PTLab.html](http://dlgdev.sph.umn.edu/test/cls_demo/CLS_PTLab.html)

## HEMATOLOGY MORPHOLOGY ONLINE WITH APERIO

At the University of Minnesota, the ongoing expansion of our curriculum in microscopic techniques to other affiliation partners throughout the state has necessitated the creation of a shareable curriculum. Fortunately, the University of Minnesota currently maintains hundreds of microscope slide sets used for instruction in normal and abnormal blood cell development and morphology necessary for clinical hematology training.

These slide sets represent a tremendous resource in the instruction of new clinical laboratory scientists for their roles as qualified professionals in the health care industry. However, duplication of our current slides sets would be an extremely time and labor intensive venture. Some of the diseases represented in these slide sets are exceedingly rare and additional physical slides cannot be

created. In addition, physical glass slides can be damaged or broken, and fading of the glass slide over time is inevitable. For these reasons, we have digitized the slide sets used in the teaching laboratories at the University of Minnesota.

To explore opportunities emerging for teaching and learning in virtual worlds, as well as to expand the CLS curriculum, digitized microscopic images are being made available via the internet. This is accomplished by utilizing Aperio, Inc. instrumentation software (Viewer available for free download) that allows users to access the images via the internet and manipulate the images as if viewing them through a microscope.

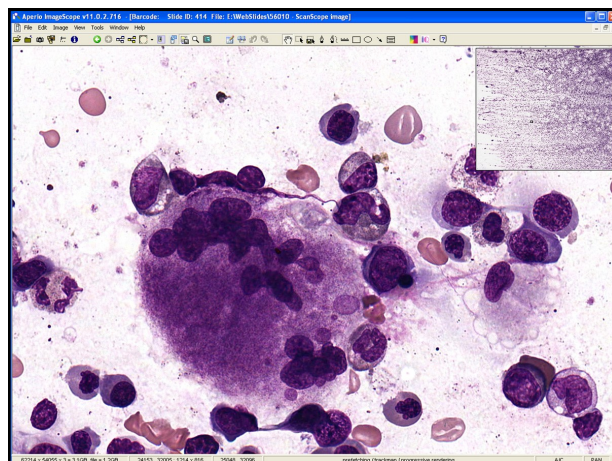
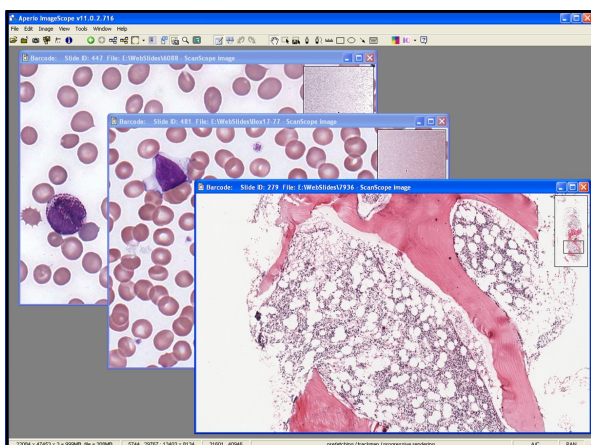
Slides have been scanned under 83X oil immersion. Most slides are accompanied by associ-

ated clinical data, patient presentation and interpretation of the slide. The database also includes 21 complete case studies of hematologic disorders including special stains, cytogenetics, flow cytometry and relevant molecular tests. Blind duplicates are also provided of some slides for use as unknown specimen differential training.

Because virtual microscopy closely mimics actual glass microscope slide examination in the clinical laboratory, students will be able to relate these online experiences to the psychomotor experiences provided in the laboratory sessions while working with actual microscopes.

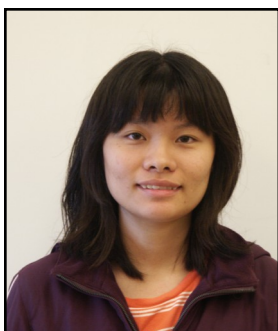
For more information, visit:

[http://www.license.umn.edu/Products/Digital-Pathology-Virtual-Microscope-for-Hematology-with-Online-Database\\_20110025.aspx](http://www.license.umn.edu/Products/Digital-Pathology-Virtual-Microscope-for-Hematology-with-Online-Database_20110025.aspx)



### CLS PROGRAM IN ROCHESTER

**Defina Jaya** is from Indonesia. She has a sister who lives in Virginia, a brother who live in Iowa with their Mom, and her Dad resides in Indonesia. Defina's hobbies include listening to the radio, playing games, painting and cooking. In the spring of 2010, Defina received a Bachelor's degree in Biochemistry from Iowa State University. Her love of science led her to CLS, she wanted to relate her knowledge of science to the clinical setting and discovered CLS through the internet. Once she graduates from the CLS program, she would like to work in a small hospital initially and then specialize in one area.



**Nick Jirsa** was born in North Carolina, lived in Italy and graduated from high school in Rochester, MN. Nick has 2 brothers. His parents live in Rochester. Nick's hobbies include road biking, long distance bicycle touring, rock climbing, ice climbing and camping. Nick has an AA degree in Liberal Arts and Sciences and learned about the CLS program when the U of M CLS program visited his community college. Nick chose CLS because he enjoys working in the laboratory. Nick's plans are to work at the Mayo Clinic and continue his schooling.



### CLS PROGRAM IN TWIN CITIES

**Miessa Gemed** was born in the Oromia region of Ethiopia, East Africa. He has lived in the US since he was eight years old. He has three sisters and three brothers and heard of the CLS program from family and friends who have graduated from the program. He was drawn to the program because he likes the laboratory work, the program has a high work placement rate, and because it will be good preparation for graduate school. Miessa enjoys traveling, soccer, basketball, reading and spending time with family. When he graduates, he would like to work for two years and then go to graduate school.



**Pam Mossey** was born in Chicago. She and Jim, her husband of thirty-eight years, moved to Minnesota from Evansville, IN to be close to grandchildren. She first learned of the CLS program from Pat Solberg while attending Normandale Community College. She completed a BS in biochemistry and worked as a junior research scientist. She enjoyed research, but she wanted to be part of healthcare. Her hobbies include spending time with family, sewing, and playing cello with the St. Micheal's Lutheran Church Orchestra in Bloomington.



### BECKMAN COULTER FOUNDATION SCHOLARSHIP

Two members of the CLS Class of 2012 will have an easier time getting through their senior year thanks to a grant from the Beckman Coulter Foundation. The grant, written by Donna Spannaus-Martin and the University of Minnesota Foundation, will allow the program to award two students \$20,000 each to cover the costs of tuition, laboratory fees and books for their senior year in the CLS program.

With the costs of a college educa-

tion rising each year, many students are working more and more hours to help pay their tuition and other bills. In a rigorous program like the Clinical Laboratory Sciences Program, working too many hours can have a serious impact on grades. Compounding the problem is the fact that a number of our students already have previous degrees, which makes them ineligible for many of the other financial aid programs.

The students selected for this scholarship will have the opportunity to spend some time at the Beckman Coulter Corporation's Chaska facility during their clinical experience. Although the grant must be submitted every year, we are hoping it will continue to be funded so future students will have this opportunity.

**Thank You Beckman Coulter Foundation!**



**YVONNE CHENOWETH COOKE ENDOWED PROFESSORSHIP**

The **Yvonne Chenoweth Cooke Endowed Professorship** is named after a 1937 graduate of the Medical Technology Program. Mrs. Cooke worked for the Minnesota State Department of Health for four years, but eventually joined her husband in starting a business service company. Her father-in-law, Dr. Louis Cooke, Sr., was the initiator of the student health service of the University of Minnesota. He was also instrumental in starting basketball at the university and is the person for whom Cooke Hall is named.

Yvonne Chenoweth Cooke donated funds for the endowed professorship and for the Yvonne Chenoweth Cooke scholarship in order to serve as a lasting impression of the value she placed on education.

**Cheryl Swinehart** was named the Yvonne Chenoweth Cooke Endowed Professor during the 2010 Graduation Ceremony.

Cheryl Swinehart is a graduate of the University of Wisconsin, Madison's Medical Technology Program, and received her Master's in Clinical Labo-

ratory Sciences from the University of Minnesota. She has been a part of the University of Minnesota for forty-two years and has been teaching hematology and hemostasis in the Medical Technology/Clinical Laboratory Sciences Program for thirty years. Her most recent teaching innovation is the creation of virtual hemostasis laboratory exercises (see page 9).

**Congratulations Cheryl !**



Cheryl Swinehart (L) and Janice Conway-Klaassen (R) wearing the medallions of their endowed positions.

**MILDRED KING ROHWER ENDOWED CHAIR**

**Mildred King Rohwer** was a 1933 graduate of the Medical Technology Program. She worked as a medical technologist at Gillette State Hospital for Crippled Children and later became the hematology supervisor for the University Hospital. Although she did not seek employment after she married Carl Rohwer, her love for the profession and her alma mater continued. The Mildred King Rohwer Endowed Professorship was established in 1987, the same year that she passed away from leukemia. Carl

Rohwer stated that he did not know how he could have been more blessed than by meeting Mildred King, and in 2001, in honor of his wife of thirty-seven years, provided additional funds for the Endowment to become the Mildred King Rohwer Endowed Chair in Medical Technology.

**Dr. Janice Conway-Klaassen** was named the Mildred King Rohwer Endowed Chair in Medical Technology during the 2010 Graduation Ceremony.

Dr. Janice Conway-Klaassen received her baccalaureate degree in Medical Technology from Michigan State University, her Master's degree from Wayne State University, and received her Ph.D. in Educational Psychology, Learning and Technology from the University of Nevada, Las Vegas. She became the Director of the Clinical Laboratory Sciences Program in August, coming from the University of Nevada, Las Vegas.

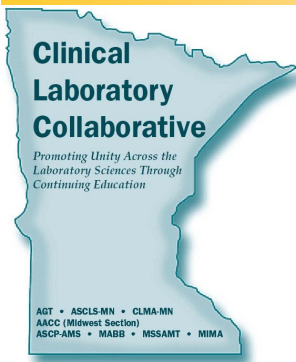
**Congratulations Jan !**



**CLS and Occupational Therapy faculty gather just prior to the 2010 graduation ceremony.**

From left: Corey McGee-OT, Cindy Jacobs-OT, Cheryl Swinehart-CLS, Virgil Mathiowetz-OT, Erica Stern-OT, Stephen Wiesner-CLS, and Nancy Brunzel-CLS.

## 2011 CLINICAL LABORATORY COLLABORATIVE MEETING



The **2011 Clinical Laboratory Collaborative** meeting will be held **April 25-27** at the Duluth Convention Center. The meeting will again run Monday to Wednesday. This year's theme is "**Bridging Technology with Quality HealthCare**". This year's keynote speakers are:

**Monday** – Deb Rodahl - "Laboratory Professionals Get Results—and It's All About the Results"

**Tuesday** – Bobbi Kochevar – "Statewide Effort to Address the Laboratory Workforce Shortage"

**Wednesday** – Mike Metcalf – "Customer Service"

The three day sessions will include a variety of topics and the exhibit hall will feature all the latest in equipment and technologies in the laboratory field. Topics include Lyme Disease; Vitamin K, POC Quality Control; the I-35 Bridge Collapse; overviews of Blood Bank and Microbiology; and more. The social event will be held at the Great Lakes Aquarium. Registration forms and meeting program are available at the ASCLS-MN web site ([www.asclsmn.org](http://www.asclsmn.org)) under upcoming events.

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### REMEMBER THE TIME WHEN ....? ANECDOTAL MUSINGS FROM THE LAB

We all have funny stories from our work. These are just some of the ones we have been told. We hope they bring a smile to you as well.

#### ...How'd she do that?...

Back in the sixties, there were no plastic urine cups for outpatients to put their specimen in so they were instructed to bring the urine in glass jars or containers. One time, a patient brought in her urine in an expensive perfume bottle, you know the kind where the top is sealed and the hole is minute. To this day, no one can figure out how she got her urine in there!!! -KR

#### ...Don't try this at home...

I was working in one of the chem

labs in the 80's. I went into another room to get some supplies and made a quick exit to catch some fresh air. It turned out my co-worker was doing a fecal fat test in that room. The 3 day stool collection came in a paint container. The procedure called for a solvent like methanol or ether to be mixed and shaken with the total collection to extract the fat. In the past, the lids would occasionally pop from all the pressure. However, this time when my co-worker shook the container, the lid exploded off and all of the contents spewed all over the hood! -MR

#### .... Spelling bee ...

I was working in the ER laboratory

for a large city hospital when I had to call a panic value to the floor for an admitted patient. I diligently reported the patient's results including a very high CPK. The nurse recorded all the lab results and repeated them back to me to make sure she had them right, then we exchanged names per protocol. I was just about to hang up when she asked me – "Can you spell CPK for me?" -JC

#### ...Better sit down for this one...

When I worked in hematology back in the day, we were sent to assist on bone marrow aspirations and biopsies. It was not uncommon to go into the patient's room and find many others (besides the physician)

there to observe the procedure.

As I entered the patient's room I saw eight medical students all standing around the patient's bed to watch the procedure. The doctor barely finished administering the local anesthetic into the sternum when the first student buckled under the knees and fell sitting down onto the floor. Moments later in a domino effect, a few more did the same. The patient turned his head to the side of the bed and asked, what are you all doing sitting down there? Soon after, the rest of the students fell to the floor with the last student falling over the bed across the patient's legs! ES

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Center for Allied Health Programs  
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