

Division of Medical Technology  
 Department of Laboratory Medicine and Pathology  
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# *TECH'S TALK*

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The 1991 issue of *Tech's Talk* marks the 45th consecutive year of publication of this newsletter. Each year it is sent to all program graduates, former faculty and teaching associates, and graduates of the Master's degree program, for whom we have addresses. This year we will mail out approximately 2,100 copies. The Editor wishes to thank everyone who has helped in this annual effort.

## **THE YVONNE C. COOKE ENDOWED SCHOLARSHIP FUND ESTABLISHED**

Yvonne Chenoweth Cooke recently provided the Division of Medical Technology with \$50,000 to establish a scholarship program in her name. Mrs. Cooke, a 1937 alumnus, wishes to help deserving students in the completion of the medical technology program. One of her goals for this scholarship program is for awardees to eventually repay the money, if they are able to do so. Like other scholarship programs, the endowment will be maintained in perpetuity, and yearly interest on the principle will be distributed for student scholarships.

Following graduation, Yvonne Chenoweth worked for four years in the laboratories of the Minnesota State Department of Health. She remembers performing "hundreds of Wassermans each day." When her husband, Louis Cooke Jr., was in the service in World War II, she worked as a technologist in South Bend, Indiana, for three years. Following the war, she and Louis started Workman Service, a business service company, now called Scientific Computers. Yvonne supervised the office and said that of all of her "med tech skills," it was her organizational abilities that helped most in the management of their business.

Mrs. Cooke also remembers fondly her late father-in-law, Dr. Louis J. Cooke, Sr. This gentleman, for whom Cooke Hall, the athletic building, is named, was instrumental in starting basketball at the U of M, where beginning in 1897, he coached for 27 seasons. During this time he had ten national championships. "Doc" Cooke was also the initiator of the student health service of the University.

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This 1905 photograph of Dr. Louis Cooke (rt) and Fred Schweitzer (lft) taken in their armory office is of considerable interest. The office was located in the Armory, home of Physical Education from 1897 to 1934 when the athletic building (now Cooke Hall) was built. Note the turn of the century furniture and "Little Brown Jug" hanging from the ceiling.

Mrs. Cooke is a gracious and charming woman. When we met to discuss the endowed scholarship, she noted that she "didn't want any accolades." Nevertheless, we believe her contribution is significant and will help many medical technology students in the future. Through this publication we wish to say THANK YOU!

## PROFESSOR HALLGREN ELECTED DIRECTOR OF GRADUATE STUDIES

Professor Helen Hallgren, who teaches immunology in the Division of Medical Technology, was elected in 1990 to the position of Director of Graduate Studies for the Master's degree program in Clinical Laboratory Science. This program is administered in the Department of Laboratory Medicine and Pathology, and grew out of a merger of the previous Master's programs in Laboratory Medicine and Medical Technology. Each degree candidate chooses a program to reflect a specialization in one of the areas of clinical laboratory science. Approved areas of specialization include clinical chemistry, hematology, immunology, immunohematology, microbiology, and biochemical genetics. Seventeen students are currently enrolled in the program as either full time or part time students. The program is open to anyone who has a bachelor's degree in medical technology or in a basic science. Graduates have obtained supervisory or managerial positions in clinical laboratories and in industry, and a substantial number have entered related Ph.D. programs or medical school. Under Professor Hallgren's leadership, this successful program has already expanded and flourished. Anyone interested in obtaining information about the M.S. program in Clinical Laboratory Science can contact her through the Division of Medical Technology.

# GOLD AND SILVER CLASSES HONORED

Each year we continue our tradition of honoring the 50th and 25th anniversary classes. This year they include the following:

## Class of 1941 (50th Anniversary)

Dorothy Carol Anderson  
\*Marjorie Mead Brownfield  
L. Jane Weber Carr  
Marilynn Jenne Coulter  
Lorayne Kolb Cummings  
Mary Nerby Daleiden  
Phyllis McCoy Davis  
\*Joyce Armagost Ervin  
\*Dorothy E. Fleming  
Elizabeth Kneip Fruenchte  
Mary Griffith Gilman  
\*Dorothy Emerson Haselby  
Lucy Loomis Irvin  
Ann Banker Isle  
\*Imogene Kincaid Jenson  
Catherine Adams Johnson  
Millicent Arnold Johnson  
Phyllis Garr Jones

\*Jeanne Marie Jorgenson  
Evelyn Seeger Karsh  
Bette Steele Keyes  
\*Margie Smith Kring  
\*Annabelle Lee  
\*June Werner Lewis  
Marcella Lilygren  
\*Dorothy Whitney Lyttle  
Nancy Dennison Malmquist  
\*Doris Nelson McNairy  
\*Janet Gable Moe  
\*Evelyn Clarke Miller  
Mary Jean Murphy  
\*Sylvia Punkari  
Mary Geddes Randall  
Helen Huch Ratermann  
Franziska Melzer Sandler  
Dorothy Peterson Sanford

John F. Schmid  
Betty Bjoin Shimp  
\*\*Mary Lou Shoemaker  
\*\*Mary Slattery  
\*Dorothy Hanley Smith  
\*E Marie Smith  
\*Beverly Barlett Snyder  
\*Carole Beckwith Stinger  
Merle Thysell Stoa  
\*Vivian Holmes Turnbolt  
\*Jeanette Grest Walliser  
\*Louise Freedland White  
Marion Mathy Wiedl  
\*Jerry Evelyn Young  
Irma Gue Zarrow  
\*Ruth Zaun  
Mildred Oswald Zumwalt

## Class of 1966 (25th Anniversary)

Marilyn Jacobson Anderson  
Lynette Anderson Berg  
JoAnne Nordine Biros  
\*Kathleen Pothen Bohrer  
Laura Lindorfer Budde  
\*\*Margaret Doi Burcsu  
Marie Coyer Clark  
Mary Gilmer Drawbert  
Georgette Ehnstrom  
Carol Brower Evans  
Dianne Carlson Fallstrom  
Joan Davis Feickert  
Mary Gaspard Fowler  
Judith Morrisette Grout  
Eric A. Hesse

Susan Wood Hoff  
Susan Johnson Forsberg  
Carol Woodke Kernes  
Alice Hulten Larson  
Howard S. Lee, Jr.  
Karin Ulrich McCall  
Patricia Warhol McCormick  
Patricia Ann Montain  
David E. Nevalainen  
Patricia Goodrich Nevalainen  
Judy Rosier Nyagiro  
\*Raija Salonen Oscarson  
Mary Jerkovich Palcich  
James Parkin  
Joan Pennig Patten

Janet Marsh Peller  
Elizabeth Hall Perry  
Karyl Beste Peterson  
Ruth S. Peterson  
Elberta Seavey Prestegard  
Lynn Knutsen Quam  
Betty Dworschak Roskos  
Patricia Igou Schmid  
Mary Sherwood Sielaff  
Susan Carlson Smith  
Kathleen Bianchi Standing  
Kay S. Townsend  
Patricia Rotter Wells

\*Address unknown

\*\*Deceased

If you are a member of either class, please make a special effort to attend the annual alumni banquet (reservation form on the last page). You and your classmates will be seated together, so you will have the opportunity to renew friendships.

We like to keep track of our graduates, and you can do us a favor by sending us the addresses of any of the people with whom we have lost contact. Thanks.

## SEVENTH ANNUAL ALUMNI SOCIETY FALL PROGRAM

"Birth Order: Does it Affect Management Style and Problem Solving?" was the topic of the Seventh Annual Fall Program cosponsored by the Medical Technology Alumni Society of the Minnesota Alumni Association and the Minnesota Society for Medical Technology.

The event was held on November 7, 1990, at the Hubert Humphrey Center on the West Bank Campus of the University of Minnesota. The special Hubert Humphrey exhibit was open for browsing prior to the meeting. This was especially interesting on the day following a controversial and surprising Minnesota election. Approximately 75 individuals attended.

Our speaker was Professor Vernon Weckwerth from the School of Public Health. Dr. Weckwerth had many interesting insights into how birth order affects the way we solve problems and relate to others in the work place. For example, according to Weckwerth, the first child tends to follow rules, may be rigid, and as a manager, follows corporate policy. Second children look at a problem, determine a solution, and then work backward from it; they tend to be able to manage persons creatively (and sometimes deceptively). Many recent United States Presidents have been second in birth order. A third child is the peace-maker and conciliator; they are the most people oriented and often the sweetest kids to have. The child born fourth never gets enough data and often cannot make a decision. With more children, the one through four pattern continues, e.g. the fifth child is like a first child. Based on a survey of participants, we found many first and/or only children in our profession.

The evening ended with pie and coffee. It was a good time for all to get together and decide whether we agreed with Professor Weckwerth!

### ITEMS FROM PREVIOUS ISSUES OF TECH'S TALK

**1951** - The new Health Service building, located across Church Street from the hospital, and behind Botany, opened. The Variety Club Heart Hospital was inaugurated with an open house; Loretta Young and Vera Ellen were guests at the dedication ceremonies. The fee for the annual Medical Technology banquet was \$1.75.

**1961** - The Department personnel consisted of 10 faculty members, 7 administrative personnel and 64 medical technologists. The Division of Medical Technology was responsible for teaching 64 students in the junior and senior years, 60 MLA students, 6 students in the graduate program, and 4 refreshers. Banquet cost was \$2.75.

**1971** - In a reorganization move, the College of Medical Sciences was dissolved, to be replaced by the Health Sciences. Dr. Lyle French was named as the first Vice President for Health Sciences, which consists of five units (dentistry, hospital, medicine, nursing, and public health), each with its own dean or director. No banquet was held this year.

**1981** - The first phone-a-thon to raise money for the Division was held. A benefactor contributed money to allow the completion of the 15th floor of the Phillips-Wangensteen building, and architectural drawings of the space for the Division of Medical Technology were in progress. Banquet cost was \$15.00.

## SYMPOSIUM TO MARK THE RETIREMENT OF ESTHER FREIER

Mark your calendars for June 18, 1991! This day marks the recognition of Esther Freier's retirement. Yes, after 45 years of dedicated service to the University of Minnesota Hospital & Clinic, the Division of Medical Technology and the professions of laboratory medicine and medical technology, Esther is going to retire. To honor Esther and to help her celebrate her retirement, there will be a symposium and dinner. The details of June 18 are still in the planning stages. However, a preliminary program includes several lectures at the University, followed by a cocktail hour and dinner at the Campus Club.

Esther Freier graduated with distinction from the University School of Medical Technology in 1946 and began her career at the University Hospital clinical chemistry laboratory where she served as a staff technologist, taught students, and worked on methods development. In 1951, Esther joined the faculty as an instructor in the Division of Medical Technology. Somehow during all of this, Esther found time to earn her M.S. degree in physiological chemistry (biochemistry) in 1956, and was given the title "Hospital Chemist" in 1957. She holds that title today along with others she has accrued since that time. By 1968, Esther had been promoted to full professor rank. In 1972, she became associate director of clinical chemistry and in 1976, Esther was made co-director of clinical chemistry.

Throughout the years, Esther has received numerous awards for her work and expertise. Among these are five different awards at the 1958 ASMT National Meeting for her paper with Verna Rausch, "Quality Control in Clinical Chemistry". The two were again honored for this work in 1977 when ASMT presented them with the Professional Achievement Award. In 1980, the Academy of Clinical Laboratory Physicians and Scientists (ACLPS) presented Esther with the G.T. Evans Award for her work in teaching laboratory residents and fellows. Esther will begin a term of office as ACLPS president in June 1991. Her most recent honor was being named as the first recipient of the Mildred King Rohwer Endowed Professorship in Medical Technology.

All in all, an impressive list of accomplishments! We hope many former students, colleagues and friends can join Esther in this special celebration. Remember to mark your calendars for June 18. If you would like to attend and need more information, contact Linda Wessels at Box 198 UMHC, Minneapolis, MN 55455, (612) 626-5910.

We are looking for items for a scrapbook for Esther's retirement. Please take a few minutes to record your memories, sentiments or anecdotes. Any pictures or other memorabilia will be appreciated. Please send to:

Mary Fowler  
Clinical Chemistry  
Box 198 UMHC  
Harvard Street at East River Road  
Minneapolis, MN 55455

## RECRUITMENT AT AN EARLY AGE

Have you ever been asked to talk about the profession of medical technology to grade school students, a Girl Scout or Brownie troop? Have you declined because you didn't really know how to proceed or what to say? Recently, I (Helen Hallgren) was asked to talk about medical technology at a "Women and Careers" session for a group of second grade Brownie Scouts. Although initially hesitant about accepting the invitation, I became excited about the prospect, and eventually had more fun than I have had in a long time!

Circumstances may vary, but there are several things to keep in mind when preparing for a presentation like this. The attention span of 7- and 8-year olds is short, so do not plan on talking for a long time. They really like hands-on experiences, so if you can bring demonstrations or experiments they can do themselves, it makes much more of an impression. I talked only briefly, describing what a medical technologist is and what education is required, and then briefly outlined what they were going to see and do at each of the areas where they could actually do something themselves. I set up four stations, as examples of the kinds of procedures that are done in a laboratory. The first included two microscopes, one with a slide of normal blood, and one with an example of a chronic lymphocytic leukemia. The second was a demonstration of blood typing (slide typing with anti-A and anti-B), and I also brought an outdated unit of whole blood. For the third station, I had prepared several tubes of water, to which I had added dextrose, protein, sodium hydroxide or a combination of these, and the students were allowed to do dipstick "urinalyses." The fourth consisted of a bottle of colored water (using food coloring) and a variety of pipettes, pipette guns etc., that they could use to try to measure accurately into empty tubes. At the end of the presentation, I gave them disposable gloves, a heart-shaped blood donor sticker, and a plastic disposable pipette to take home.

This setup was quite elaborate, and required two of us to monitor; keeping 13 young girls busy at the same time was quite a challenge. Any presentation others might consider doing certainly does not need to involve quite this much material, but is much more effective if the students can really take part in the demonstrations. I had a wonderful time; the questions from the students were delightful (and sometimes quite different than one might expect); but the thank you letters from the students were most rewarding! Excerpts from these letters (with original spelling):

- Dear Mrs. Helen, I like looking in the microscope; I like looking at the big sack of blood.
- The blood in the miprascawpe looked very diffrent.
- Dear Mrs. Helen Hallgreen, I liked doing the experiments! I will tell my dad all about it when he gets back from New Jersey.
- Dear Mrs. Halgren, I liked the stuff that you brought. You are a good med tech!
- I like your med tech stuff, it's neat! I love the blood, it was cool!
- I might be a med tech when I grow up. I wore the gloves to school the next day.
- Dear Mrs. Helen, I hope you come again som day. Bufor you deuw, call me. Here is my phone number.

The next time someone asks you to do something like this, don't hesitate! It really is an enjoyable experience, both for the audience and for you.

## DID YOU KNOW?

The University of Minnesota Hospital has long been known as an excellent transplant center. However, the statistics on numbers and types of transplants may surprise you. The first kidney transplant was done in 1963, and the recipient is still alive and well, enjoying her six children and lots of grandchildren. The first bone marrow transplant was done in 1968, and this recipient is also alive and well. Since those original, pioneering transplants, 3,200 kidney, 1,360 bone marrow, 405 pancreas, 236 liver, 211 heart, 22 heart/lung, and 19 lung transplants have been performed at the University of Minnesota Hospital.

## U OF M ALUMNUS HONORED

Those of you who listen to WCCO radio may have heard the Good Neighbor Award being given last May to **Constance Olson Bakken**. She was cited for her ten years of work in banking, community service, and her support of women in leadership positions. In addition to the WCCO award, Mrs. Bakken was also honored on May 23, 1990, with "Connie Bakken Day," proclaimed by both Governor Rudy Perpich and Lyle Hanks, mayor of St. Louis Park.

Following graduation in medical technology in 1946, Mrs. Bakken worked for six years in the laboratory of Northwestern Hospital. The 1946 staff numbered eight employees. It was at this time that her husband, Earl Bakken, became interested in medical equipment. While waiting for her to complete the laboratory work, he fixed the EKG machines, centrifuges, and other lab instruments. His early years with Medtronic, Inc., which he cofounded, included the repair and later the sales of Sanborn equipment. In 1952 Connie Bakken left laboratory medicine to begin a family. She has four children, all of whom are University of Minnesota graduates--Wendy in psychology, Jeffrey in electrical engineering, Bradley in sociology and criminal justice, and Pam in psychology.

In 1980 Mrs. Bakken purchased the Citizens State Bank in St. Louis Park, Minnesota. Immediately she began to learn the banking business. In 1983, she graduated with high honors from the Bank Administration Institute, held at the University of Wisconsin-Madison. She completed a three-year course in bank management with a major in community bank management. She also completed coursework at the Minnesota School of Banking at St. Olaf College, Northfield, Minnesota.

Mrs. Bakken currently serves as Chairman of the Board of Citizens State Bank. From 1980 to 1990 assets of this bank nearly tripled in size; currently they stand at \$124 million. Mrs. Bakken attributes the bank's success to the dedicated people who work there. She is a member of six banking associations, as well as the National Association of Women Business Owners. In addition to coordinating bank community relations, she serves as an outstanding role model by being personally involved in the Southwest Exchange Club, Rotary, and the Twin West Chamber of Commerce. She also serves on the Board of Directors of Lutheran Youth Encounter, Inc., its Foundation, and the Methodist Hospital Foundation.

In addition to "Connie Bakken Day," she was honored with the 1990 Woman of Achievement Award from the Twin Cities Chamber of Commerce, and the 1990 Employer of the Year by the North Hennepin Business and Professional Women. In 1983 Connie was named Woman of the Year by the St. Louis Park Business and Professional Women's Association.

One of Mrs. Bakken's objectives is the development and promotion of her staff through a career pathing program, available to every employee. This is an educational program designed to achieve career goals. Mrs. Bakken is an excellent role model, particularly for the women of Citizens Bank. Since she has acquired the bank, the number of women officers has increased from four to thirteen. She is also committed to pay equity and reinvesting bank resources in the community.

Mrs. Bakken recalled her undergraduate experiences from 1942 to 1946 at the University of Minnesota. Because of World War II, she remembers the University being almost an "all-girls school," without sports teams and with few social activities. She also reflected that she worked hard to become a med tech, and made the comment, "any educational background, fits in--knowingly or unknowingly--with one's present professional life." Thus, the switch from medical technology to banking may not be as unique as one would think.

Mrs. Bakken presently lives in New Brighton, only a few miles from the home in which she grew up in Columbia Heights. She has been a member of the First Lutheran Church for over 50 years and currently serves on its long-range planning and endowment committees.

Connie Bakken is a woman of strong personal and high ethical values. Thoughtful, introspective, and caring of others, she defined success in the following way, "Being one's own person, having a sense of self-esteem, appreciating what you have, and understanding the importance of family, friends, and colleagues." A remarkable woman indeed.

# MEDICAL TECHNOLOGY ALUMNI SOCIETY

As some of you know, the Minnesota Alumni Association (MAA) voted last June to change the structure and governance of the organization. The size of the National Board of Directors was reduced from 77 to 37 members, making it a more manageable working body. Each constituent society was required to be associated with their collegiate unit, leaving Medical Technology, Mortuary Science, Nurse Anesthesia, Journalism, Industrial Relations, University Women, Black Alumni, Band and ROTC to study various options for continued involvement.

Placement of Medical Technology within the alumni structure of the Medical School was rejected bilaterally (somewhat to the surprise of the MAA planners). After negotiation the MAA accepted, as part of the restructuring, formation of a *coalition* society for allied health disciplines--unique because it is the only society not aligned with a specific school or college.

The Society of Allied Health Professionals (SAHP) currently represents three prior alumni societies: Medical Technology, Mortuary Science and Nurse Anesthesia. It also includes the programs of Occupational Therapy and Physical Therapy who have long wanted to form alumni groups but have not been supported by the MAA. Representatives from each profession are meeting this year as a planning board and are making great progress in establishing a society structure, constitution and bylaws, society goals and a funding formula. It is proving, so far, to be a very positive experience. Your representatives on the planning board are **Salli Clysdale, Karen Karni and John Roesler** (alternate). **Billie Anne Juni** chairs the board and represents SAHP on the MAA national board.

You will notice a few changes as members of the Medical Technology Alumni Society. When you renew or join for the regular fee, you will now mark Allied Health and specify Medical Technology on the membership form. (Membership in a second society will still cost extra.) You can expect to hear about a combined SAHP event each year. Funding from MAA directly to Medical Technology alumni functions will no doubt decrease, but we are already exploring additional sources of funding. The Medical Technology Alumni Board plans to continue, with structure unchanged, to support the profession, the Division of Medical Technology and its students. Many of the events and activities you have come to expect will continue, and we have begun the planning which will lead to presentation of one or more awards each year. Your support will be especially important in 1991 and beyond.

The current Board of Directors and Officers are:

Sarah (Salli) Hastings Clysdale, '68, President  
Nancy Coley, '64, Vice President  
Eileen Leipus Rogers, '71, Secretary/Treasure  
Billie Anne Herranen Juni, '70, Past President  
Mary Ellen Anderson, '68  
Jane Dunham, '90, Ex-officio, Student Representative  
Karen Soderberg Karni, '63, Ex-officio

Brian Lauber, '84  
Fran Horwitz Lebahn, '74  
Karin Rittgers Libby, '69  
John Roesler, '77  
Monica Lee Rosin, '80  
Carmela Kranz, Ex-officio, MAA Staff Representative

## MSMT SPRING MEETING

The annual Spring Meeting of the Minnesota Society for Medical Technology will be held May 15-17, 1991 at the Radisson Metrodome Hotel in Minneapolis. The keynote address "Leadership and Leaders For a New Era" will be presented by Sharon Zabloney, Associate Vice President for Research and Dean of the College of Graduate Studies at Mankato State University. Dr. Zabloney is also a past president of ASMT. Several excellent workshops and general scientific sessions are planned. Information regarding registration for this meeting may be obtained from Mary Fowler, Box 198 UMHC, University of Minnesota, Minneapolis, MN, 55455 (telephone 612-626-3938).



# OATH FOR MEDICAL TECHNOLOGISTS REVISED

Most of you probably remember taking an oath for medical technologists during your senior year at the University. You might even have saved your copy of the oath, and tucked it away somewhere with other memorabilia. For those of you who graduated fairly recently, this oath was part of your commencement ceremony. For those of us who are a bit more mature, there was actually a separate oath ceremony, complete with corsages and piano music, which marked the beginning of our clinical rotations.

Students in our medical technology program have taken some sort of professional oath for almost 50 years. The first version, written by a physician in about 1942, epitomized what we sometimes refer to as the "handmaiden mentality." It closed with the statement that "since the physician has the ultimate responsibility in diagnosis and treatment, my results must be made known only to him or those designated by him." We revised this original oath in 1975, mainly to eliminate the sexist and subservient language.

Recently, the ASMT published a new Code of Ethics for Medical Technologists. With this code in mind, we decided to again update our own oath, and we used the new version for the first time during the 1990 graduation ceremony. We believe that our new oath retains the best features of the previous versions. It also emphasizes high standards of practice, sound clinical judgment and the responsibility to pursue continuing education - qualities which were not stated in our earlier oaths. This oath, which is reproduced below, sets forth the principles, duties and obligations that new graduates should uphold throughout their professional lives.

## UNIVERSITY OF MINNESOTA

### *An Oath*

## FOR MEDICAL TECHNOLOGISTS

UPON ENTERING at this time into the practice of Clinical Laboratory Science, I accept, with full realization of their implications, the responsibilities associated with my profession. To the best of my ability, I will endeavor to

- practice, maintain and promote standards of excellence in the art and science of my profession;
- exercise sound judgment and integrity in the establishment, performance, and evaluation of all laboratory testing;
- promote the highest standards of care for patients served, and to personally demonstrate faithful caring to them;
- respect each patient as an individual, remembering the rights of each to dignity, privacy, and confidentiality;
- establish cooperative working relationships with my colleagues;
- continue to maintain my competence by pursuing appropriate educational activities;
- contribute to the advancement and well-being of the community and society as a whole; and
- actively demonstrate my commitment to these responsibilities throughout my professional life.



*To these principles I hereby subscribe, promising to conduct myself at all times in a manner appropriate to the honor of my profession.*

WITNESSED

\_\_\_\_\_ for the University of Minnesota

\_\_\_\_\_ Date \_\_\_\_\_

## ALUMNI SOCIETY TO HOLD SPRING RAFFLE

The Board of Directors of the Medical Technology Alumni Society is pleased to announce our first fundraising raffle. Proceeds from the raffle will be used to help defray expenses for the Spring Banquet and to fund a student award program. The drawing will be held on May 29th at the Annual Spring Banquet. You do not need to be present to win.

Thanks to the generous contributions from sponsors, you will have the opportunity to win some great prizes including a hand-made quilt, wall hangings, U.S. Savings Bonds, culinary classes at Byerly's, chocolate truffles, movie tickets, gift certificates and tickets to various functions.

At only a dollar per ticket, we encourage you to buy them by the handful! We will be selling tickets during National Laboratory Week, the MSMT Spring Meeting (May 15-17) and at the Alumni Spring Banquet. Contact any Alumni Board member (see related article) or call the Medical Technology office at (612) 625-9490 if you wish to purchase raffle tickets.

Thank you for your generous support. We hope that you will be one of our prize winners at the drawing on May 29.

## 1990 MEDICAL TECHNOLOGY GRADUATION

The 1990 class in Medical Technology held graduation exercises on October 20, 1990, at the Saint Paul Student Center Theater. Twenty-three graduating seniors participated in the ceremony.

**Tamara Hoelzel**, president of the Medical Technology Student Council, began the ceremony with a welcome to all the family and friends of the graduating class. Introduction of the faculty and staff and greetings from the Department were given by **Dr. Richard Brunning**, professor and deputy department head of the Department of Laboratory Medicine and Pathology. **Dr. Carol Wells** was chosen by the students to give the graduation address. Dr. Wells is an associate professor in the Division of Medical Technology and has taught the students in several microbiology courses. Following the address, **Jean Goenner** and **Roseann Miller** of the graduating class showed a slide presentation of the students during classes, clinical rotations, and outside activities. They also presented the class gift. **Bob Jechorek**, associate scientist, then announced senior awards and scholarships.

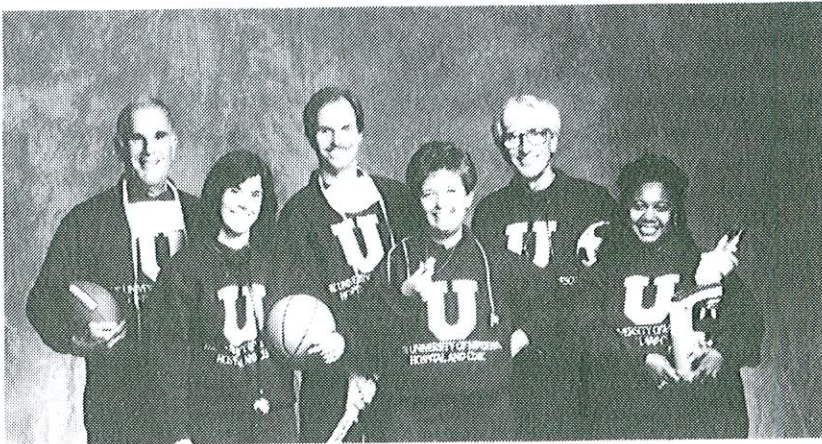
**Karen Karni**, director of Medical Technology, conferred degrees, and **Salli Clysdale** greeted the new graduates on behalf of the Alumni Association. After reciting the Medical Technology oath in unison, each graduate signed the oath as **Cheryl Swinehart**, assistant professor, read each graduate's name and home town. Following the ceremony, a reception was held for the graduates and their friends and families. The class of 1990 included:

Abye Bekele, *St. Paul, MN*  
Deborah Carlson, *Bloomington, MN*  
Kit Coffin, *Manitowoc, WI*  
Debra Dietrich, *Minneapolis, MN*  
Giang Van Do, *New Hope, MN*  
Jane Dunham, *Lakeville, MN*  
David Ellis, *Burnsville, MN*  
Jean Goenner, *Elk River, MN*  
Tamara Hoelzel, *St. Paul, MN*  
Monica Kohnke, *Glenville, MN*  
Christine Kulas, *White Bear Lake, MN*  
Denise Leja, *St. Paul, MN*

Rose Miller, *Edina, MN*  
Jim Peterson, *Luverne, MN*  
Tawni Reller, *Cedar, MN*  
Tammy Schluter, *Andover, MN*  
Laura Smith, *Excelsior, MN*  
Joel Sturm, *Brooklyn Park, MN*  
Jennifer Subra, *Duluth, MN*  
Gene Ugro, *Mahtomedi, MN*  
Susan Vesley, *Hudson, WI*  
Timothy Woolard, *Crystal, MN*  
Amira Youssef, *Cairo, Egypt*

## CHERYL SCOTT REPRESENTS MEDICAL TECHNOLOGY IN AD FOR U HOSPITAL AND CLINIC

Those of you who read Minneapolis-St. Paul magazine or attend University of Minnesota sports events may have noticed a recent color photo and advertisement for the University of Minnesota Hospital and Clinic. In it four physicians, John Najarian, Chief of Surgery; Chip Bolman, Chief of Cardiovascular and Thoracic Surgery; Al Michael, Chief of Pediatrics; and Margaret Arendt, Director of Sports Medicine are seen with Theresa Sims, R.N., and our own Cheryl Scott, in maroon and gold sweatshirts with logos advertising the University of Minnesota Hospital and Clinic. Cheryl, a 1985 medical technology graduate, looks marvelous in the photograph! Even more important, while the ad is intended for sports aficionados and includes many of the above personnel holding sports gear such as a football, basketball, or whistle, Cheryl holds a microscope--the most legitimate piece of medical equipment in the photograph.



Clareyse Nelson of the University of Minnesota blood bank was instrumental in having Cheryl included in this photograph. We're pleased to have "one of our own" not only in the advertisement, but also as a wonderful representative of the profession. Presently Cheryl works in the blood bank laboratory of UMHC, a position she has held since graduation.

Her other activities include serving as a very active member of Iota Phi Lambda Sorority, an organization which raises scholarship monies for minority students, as well as the long range planning committee of the Minnesota Society for Medical Technology. We're proud of you, Cheryl Scott!

## KAREN KARNI WINS ASAHP MEMBER OF THE YEAR AWARD

Karen R. Karni, Ph.D., Program Director, Division of Medical Technology, received the 1990 Outstanding Member Award from the American Society of Allied Health Professions (ASAHP) at its annual meeting November 14, 1990 in Philadelphia, PA. This is one of the Society's most prestigious awards, and is made in recognition of "significant contributions to the society, and who, by example, has inspired others".

The American Society of Allied Health Professions represents almost 3.5 million health care providers, including clinical laboratorians, occupational and physical therapists, dieticians and nutritionists, radiologic technicians, speech pathologists, and others. Its goals are to strengthen allied health academic units and programs; enhance public appreciation and support of allied health; and secure the recognition of ASAHP's position as the national coalition of allied health academic units and allied health professional organizations.

# CONTRIBUTIONS TO MEDICAL TECHNOLOGY

Each year, many of our alumni are contacted by mail or telephone and asked to donate monies to the Medical Technology teaching program. This year a direct mailing brought forth contributions from many loyal alumni and fewer calls were made.

In late 1989, some gift reports were not received in our office. Thus several individuals, who had contributed \$100 were not acknowledged in last year's *Tech's Talk*. We do wish to express our thanks to the following, who sent \$100 or more to Medical Technology in 1989:

Ruth Bienhoff Brauer  
Elise Andreassen Church  
Frieda H. Claussen  
Dorothy Carlson Duffell

Diane Olson Michalik  
Joanne J. Samuelson  
Ella M. Spanjers  
Portia P. Swain

As in the past, we thank our alumni and friends for providing donations to do those "extras" that maintain our program as the finest in the nation. We especially wish to thank and recognize the following individuals who, according to available records, have contributed \$100 or more to the Medical Technology Special Fund or to the scholarship programs this past year:

## \$1,000 or more

Yvonne C. Cooke  
Esther F. Freier  
Mary Moriarty Galvani  
R. Dorothy Sundberg

## \$500 - \$999

Lorna Henderson Canfield  
Minnesota Society for Medical Technology

## \$100 - \$499

Ellis and Ann Benson  
Ruth Bienhoff Brauer  
Marilyn Tucker Budge  
Dennis M. Cavanaugh  
Marilyn Scovil Cavanaugh  
Elise Andreassen Church  
Frieda H. Claussen  
Irma Koskella Coleman  
Yvonne Chenowith Cooke  
Mary J. Eaves-Raich  
Grace Mary Ederer  
Norma Glasson  
Kathryn Hammer Glen  
Mary Johnson Grewe  
Marilyn Postier Haglund

## \$100 - \$499 continued

Helen Nordine Hallgren  
Janet Smith Hoeft  
Margaret C. Hovde  
Karen Kloss Huff  
Mary Lunzer Jacobson  
Billie Anne Herranen Juni  
Karen Soderberg Karni  
Marilyn M. Klein  
Catherine Leiendecker-Foster  
Karin Rittgers Libby  
Jean Jorgenson Linné  
Karen Gates Lofsness  
Dora J. McClintock  
Diane Olson Michalik  
Florence M. Misjuk  
Toni D. Okada  
Verna L. Rausch  
Joanne J. Samuelson  
Suzanne Agnew Snively  
Ella M. Spanjers  
Lorraine Gonyea Stewart  
Portia P. Swain  
Kathleen Moriarity Tekautz  
Naomi M. Thompson  
Nettie Conser Warwood  
Phyllis and Verne Weiss  
Joyce Clarke Wian

## HOVDE-O'BRIEN SCHOLARSHIP GONYEA-STEWART SCHOLARSHIP AND LOAN FUND

With increasing costs of education, the Hovde-O'Brien Scholarship Fund is an important source of financial aid for students in medical technology. The scholarship fund is named in honor of William O'Brien, head of Medical Technology from 1925-39, and Ruth Hovde, professor and director of the Division of Medical Technology from 1964-84. Each year, this scholarship is administered through the Medical Technology Division; all students in the professional program are eligible. Recipients are chosen on the basis of academic scholarship, financial need, and future potential. This year seven students, **Jean Goenner, Roseann Miller, Jennifer Subra, Toni Lyrenmann, Joan Olson, Laura Dirkes, and Daniel Kim**, received awards ranging from \$300 to \$1000 for a total of \$3700. The number and amount of these scholarships varies depending on the number of deserving applicants and the availability of funds. The available funds represent the interest generated by the principal in the scholarship fund. The Division of Medical Technology wishes to thank all alumni, faculty and staff who have so generously supported this fund and our students through the years.

The Gonyea-Stewart Scholarship Fund and the Gonyea-Stewart Loan Fund were both established in 1986 by Lorraine Gonyea-Stewart, a retired member of our faculty. This year **Toni Lyrenmann and Wendy Colbert** were awarded Gonyea-Stewart Scholarships of \$300 to \$600. The purpose of the Gonyea-Stewart Loan Fund is to provide short term, emergency loans to students who may need them in order to continue their education in a timely manner. This year one student utilized this fund. The Division of Medical Technology wishes to express its gratitude to Lorraine Gonyea-Stewart for her generosity in establishing these two funds for students in medical technology.

Contributions to either the Hovde-O'Brien Scholarship Fund or the Gonyea-Stewart Scholarship and Loan Fund may be sent to the Division of Medical Technology, Box 198 UMHC, University of Minnesota, Minneapolis, MN, 55455.

### CAN YOU HELP US???

Last year, for the first time, we listed names and graduation dates of alumni with whom we had lost contact in the preceding year. The response was so tremendous that we are asking for your help again this year. If you know any of these individuals, or any other alumni who is not receiving *Tech's Talk*, and can supply us with a current address, please call or write to Lillian Sarkinen (address and phone number of the Medical Technology office are listed on the front page). Thank you for your assistance!

Karen Meixner Tucker.....	1981	Marilyn Postier Haglund.....	1953
Linda Berglund .....	1980	Lorna Roper Brown.....	1947
Anh H. To.....	1980	Joyce Stolen Swanson.....	1947
Janet Moilan Bergeland .....	1979	Ardell M. Proctor .....	1945
Susan Anderson Blaine.....	1979	Barbara Whitney .....	1942
Steven Lang.....	1978	Ann Nylander Broadwell.....	1938
Nancy Bayer Flanagan.....	1976	Elsie Stampe .....	1937
Marcia Baker Larson.....	1974	Frances Hilden Pliske.....	1935
Mardie G. Geiser.....	1973	Verna DeLeo Mallsek.....	1934
Cynthia Kaley Thompson.....	1969	Martha Ekola Strolberg.....	1929

# THE DYNAMIC FUTURE OF LABORATORY MEDICINE: ONE VIEWPOINT

Laboratory medicine has changed dramatically in the past few years; so much so, that the bulk of scientific knowledge gained in the past decade has exceeded exponentially all prior scientific accomplishments. Laboratorians are thus assured of continuing excitement and continuing change. We must influence this change by playing a dynamic role in shaping the future. We must not only stay abreast of current issues, but be active in their formulation. Issues such as education, legislation, personnel requirements, research funding, accreditation, laboratory instrumentation technology, decentralized testing and development of centralized patient information systems all affect the environment in which we work. With a constantly changing economic climate, the healthcare industry must seek to maintain a dynamic equilibrium - one that allows the quest for knowledge and improved methodologies to advance, balanced with limited financial resources and an expanding service base. The clinical utility of new and improved technologies must be balanced with their cost and practicality. The search for knowledge must now be justifiable, clinically and economically.

The literature abounds with prospective changes to laboratory medicine, and the roles that medical technologists will play. Our increasingly scarce numbers, combined with our professional training and expertise will result in the evolution of our responsibilities. We will actively assist practitioners in the appropriate utilization of laboratory services, as well as the evaluation and interpretation of laboratory results. These changes will reduce the amount of inappropriate testing and high costs, yield information in a timely manner, and ensure compliance with reimbursement schedules.

We will step out of the laboratory to become more visible and active members of the healthcare team. The future suggests roles such as:

- providing consultation for decentralized testing; identifying needs, evaluating available methods, monitoring quality control, monitoring instrumentation and performing in-service training of other healthcare personnel.
- actively assisting hospital patient care units in establishing protocols and procedures to fulfill patient care needs, ensuring dynamic communication among healthcare workers.
- assisting in the development of centralized information systems to integrate laboratory data with clinical impressions, physical diagnostic results, medical and surgical procedures, surgical pathology reports, medications and other patient related information and final diagnoses.

We will also have the unique opportunity of assisting in the development of direct patient access to laboratory services. People are taking increasing responsibility for their own physical well-being and are performing convenient over-the-counter tests, such as pregnancy tests, glucose and cholesterol tests, and blood pressure monitoring. We should not discourage this proactive approach to wellness; rather we should facilitate its implementation and educate users appropriately. As medical technologists, we should be actively involved in supporting regulators and legislators to ensure high-quality testing wherever it is performed.

Within the laboratory, many changes are anticipated in this decade. Robotics will take over simple and repetitive procedural tasks. A standardized system of bar-code labeling will enhance tracking of patient results and information. Increased use of image analysis and pattern recognition systems will find application in urinalysis and cytology histopathological grading. New improved antigenic and biochemical markers to identify tumor cells and autoimmune diseases will be used, as well as *in vitro* sensitivity testing of these cells to chemotherapeutic and therapeutic agents. The use of DNA probe based assays will become routine.

Our participation in the evolution of the laboratory of the 90's is vital. A proactive, resourceful and enterprising approach will guide the dynamic future of laboratory medicine and ensure the role of the medical technologist in it.

## LARRY BOWERS WINS AWARD FROM AACC

Dr. Larry Bowers, clinical chemistry faculty member, was selected as the recipient of the 1990 American Association for Clinical Chemistry Award for Selected Area of Research. This award is sponsored by Roche Diagnostic Systems and included a \$5,000 honorarium and a plaque. The award is conferred each year upon the one outstanding nominee whose career has most consistently been devoted to excellence in a selected area of research in clinical chemistry.

Dr. Bowers area of research is in drug metabolism and the action of drugs within cells. He is nationally recognized for his work on the metabolism of cyclosporine A and other immunosuppressive drugs using mass spectrometry.

## UNDERGRADUATES IN RESEARCH

For the past several years, many of our students have participated in the Undergraduate Research Opportunities Program (UROP). This is a highly competitive, university-wide, program that provides funds for up to \$750 in salary and \$250 in supplies. Typically students devote 6-8 weeks (or longer) on a research project under the supervision of a faculty advisor. Since the inception of this program in 1986, medical technology students have submitted 17 grant applications which have been funded among 14 different students. Three of our students have successfully competed for an unprecedented second award, once each in their junior and senior years.

Research topics have included such diverse subjects as cyclosporine analysis in cancer patients, thymidine kinase levels in patients infected with HIV, and bacterial attachment to epithelial cells related to postsurgical infection. For the entire University, \$300,000 a year is provided for approximately 300 funded grants. All students at the University (Crookston, Duluth, Morris, Twin Cities, and Waseca campuses) are eligible to apply, which means many more students submit proposals each year than can be funded. In 1990-1991, three of our students received UROP awards, **Tamara Hoelzel** (Adherence of *Staphylococcus epidermidis* to Biomaterials; advisor, Dr. John Eaton), **Monica Kohnke** (An Evaluation of Reticulocyte Counting by Flow Cytometry; advisor, Karen Lofsness), and **TJ Berg** (Attachment of *Escherichia coli* and *Salmonella typhimurium* in Cultured Epithelial Cells; advisor, Dr. Carol Wells).

Recently, Monica was recognized for her excellence in research by being selected to present her findings at the National Conference in Undergraduate Research, which was held in Pasadena, CA in March 1991. This is indeed an outstanding accomplishment because only about 10% of the UROP students are so honored. Congratulations, Monica! In addition to presentations at meetings, the work performed by these students has been incorporated into published papers, abstracts, and grant proposals. Overall, UROP has provided many students with first hand experience in biomedical research and given them an opportunity to participate in exciting problems relevant to many of the advances in medical science today.

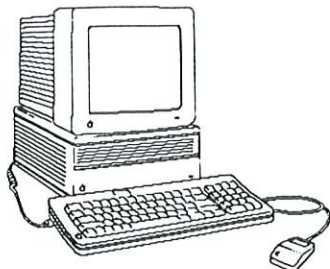


## 1992 BANQUET DATE SET

In response to a suggestion received last year, we are announcing the tentative date for next year's banquet in this issue of *Tech's Talk*. The 1992 Annual Spring Banquet will be held during the week of May 11 - 15, 1992. We hope that this early announcement will make it possible for more individuals to coordinate their vacation and travel plans, if they wish to attend the banquet.

## DIVISION OF MEDICAL TECHNOLOGY WINS TWO PROJECT MINNEMAC GRANTS

This year the Division of Medical Technology was awarded two Project MinneMac grants. Project MinneMac is a five year, 1.5 million dollar grant from Apple Computer Company and the University of Minnesota, whereby faculty develop "innovative teaching projects incorporating Macintosh microcomputer workstation technology into the classroom." Faculty and staff provide ideas, impetus, and labor; Apple Computer and the University provide necessary computer equipment. For the completion of these projects the division was awarded two Macintosh IIfx computers, with a retail value of over \$4000 each.



Two separate grants were awarded to our division. The first project is to develop *LabCalc*, an interactive computer program which will be used to introduce, reinforce, and evaluate students' understanding of basic laboratory mathematics for medical technologists. **Cheryl Swinehart**, assistant professor of hematology, **Patricia Solberg**, administrative associate, and **Laura Walker**, principal secretary, are collaborating on this project.

The second grant was awarded to develop *DiagUA*, a program simulating a complete laboratory urinalysis, including physical observations, reagent strip test reading, and using actual photographs of urine sediments to simulate microscopic examinations. Faculty and staff involved in this project are **Nancy A. Brunzel**, senior medical technologist, **Karen R. Karni**, associate professor and program director, and **Laura Walker**, principal secretary.

We hope that the proposed programs will be a valuable teaching aid not only for our students, but also for students in the 416 medical technology programs nationwide, for continuing education programs, or for use in remote areas where formal continuing education programs may not be available.

## CLINICAL LABORATORY CHANGES IN 30 YEARS

It has been said that if we fail to study history we're doomed to repeat it. On the other hand, it is sometimes interesting to assess where we are in light of where we've come from. The following comparisons between the UMHC clinical laboratory in 1960 and in 1990 were obtained from Donna Weib and Aija Vikmanis of Laboratory Administration.

<u>Budget</u>	<u>1960</u>	<u>1990</u>
Length	4 pages	1.5" thick
Pieces of equipment requested	4	132
Price of equipment requested	\$19,000	\$1,595,000
Price of cryostat	\$1500	\$23,000
Supplies	\$205,000	\$21,553,000
Total tests performed	770,000 (No platelet concentrates)	2,778,000 (49,000 platelet concentrates)
 <u>Staffing</u>		
Total Staff	56.5	544
Total Salary	\$383,000	\$18,402,000
Chemistry Staff	2nd senior technologist requested	Currently, 1 administrator; 4 lab managers; 15 senior techs; 27 MT specialists, 90 MTs and CLTs

However, some things never change at the University. Regarding a 1962 request to establish an isotope section (now endocrine) in chemistry, Dr. Ellis Benson wrote "Space, of course, now limits us in launching this endeavor."



## FACULTY MEMBERS AWARDED NIH GRANTS

Dr. Douglas Christie (immunohematology) and Dr. Carol Wells (microbiology) have been awarded National Institutes of Health (NIH) grants for a combined total in excess of \$879,000.

Dr. Christie's three year award titled "Immune Refractoriness to Platelet Transfusion", will focus on three specific areas of research. The first area will attempt to identify and characterize HLA, platelet-specific and drug dependent antigens and antibodies involved in refractoriness to platelet transfusion. The second area will attempt to determine the biological significance of these antibodies and the third area will attempt to define the frequency of formation of these antibodies and determine which are most likely to induce platelet destruction.

To accomplish these goals, Dr. Christie and his colleagues will be using a variety of immunologic assays including immunofluorescence, lymphocytotoxicity, protein A rosette formation, a sensitive new monoclonal antibody-specific antigen-capture ELISA method, immunoblotting and immunoprecipitation.

In addition to his NIH award, Dr. Christie has also received a five year established investigatorship from the American Heart Association.

The primary aim of Dr. Carol Wells' five year NIH grant is the clarification of events leading to bacterial translocation. Translocation is defined as the ability of indigenous intestinal bacteria to leave the gut tract through an intact intestinal mucosa. This research area is particularly important since there is evidence that translocating intestinal bacteria cause a significant proportion of complicating infections (including sepsis) in hospitalized immunosuppressed patients, post-surgical patients and trauma patients.

To elucidate the mechanisms underlying these events, Dr. Wells and her associates will correlate results from *in vivo* and *in vitro* experiments involving the interactions of nine different strains of translocating bacteria with cultured intestinal epithelial cells and with mononuclear phagocytes. In addition, these studies will involve immunofluorescence, histochemical and electron microscopic studies.

## JEAN HOUGER HENGESBAUGH TRAINS MEDICAL TECHNOLOGISTS IN SAUDI ARABIA

In a recent article in *Advance*, a weekly publication for laboratory personnel, Jean Hougur Hengesbaugh was featured for her work in teaching fourth year medical technology students in Saudi Arabia. Jean graduated from the University of Minnesota Medical Technology program in 1973 and received her M.S. degree in medical technology from the University of Utah. Two years ago, she accepted a Joint Commission for Economic Cooperation/U.S. Treasury assignment contracted by the University of Alabama to help upgrade the medical technology program at King Abdulaziz University in Jeddah, Saudi Arabia. This program was started in 1981 and the first class was graduated in 1985. However, it was decided that the program was not up to international standards, so the project was developed to improve the original program. Since 85 percent of the Saudi work force is composed of foreign workers, the ultimate goal of the program is to replace these foreign workers with Saudi nationals.

Teaching in Saudi Arabia provided Jean with unique challenges and rewards. She taught only the fourth year students in a 3 + 1 program in their clinical rotation at the hospital. Because the hospital was considered neutral territory, she was allowed to have contact with male students there. (She was not allowed to go into the medical library or the classroom building). Jean also taught a computer skills class to second year students, but to avoid the prohibition against meeting with male students, the students were brought to a classroom in the hospital building.

Because of the crisis in the Persian Gulf, and the threat of terrorism, Jean and her husband elected to return to Salt Lake City. Nevertheless, she found great satisfaction in the work she had done in Saudi Arabia. First, she reported that she knew she had made a difference. Second, she enjoyed learning about and working with persons of a different culture. In addition, with 60 vacation days each year, the Hengesbaughs were able to travel to Africa, Egypt and China. We, however, are glad they are safely back home.

## NEWSMAKERS

**Mary Weimer**, class of 1953, was recently featured in an article in the Department of Laboratory Medicine and Pathology Outreach Program newsletter. Mary has worked for many years in the Watson Laboratory at the University which is internationally recognized for its expertise in testing for the diagnosis of different types of porphyria.

**Wendy Kagin Engel**, class of 1970, ran for the District 44A seat in the Minnesota House of Representatives in 1990. She worked as a medical technologist at Methodist Hospital, and has been very active in community service. Although she lost a close race, we look forward to seeing her name and influence in Minnesota politics in the future.

**Jennifer Subra**, class of 1990, recently had an abstract accepted and presented her findings to the regional American Society for Microbiology meeting in Minneapolis. The title of her research project was "Comparison of Four Methods for the Detection of Cytomegalovirus (CMV) IgG and IgM Antibodies (Abs)". This work was carried out during a one week special rotation which Jenny completed in the Virology laboratory.

**Ilene Leipus Rogers**, class of 1971, was recently nominated as a candidate for the University of Minnesota Board of Regents. Although she did not qualify as a finalist for the position, we wish to congratulate Ilene on the honor of being nominated!

**Judy Moriguchi**, ('78), **Christine Senn** ('73) and **Esther Freier** ('46) presented the results of their research in a poster session at the American Society for Clinical Chemistry meeting in San Francisco. The title of the presentation was "Comparison of Kodak Ektachem 700XR and Micro Centrifugal Analyzer for Analysis of Cerebrospinal Fluid (CSF) Lactate".

**Kay Nelson Olson**, class of 1971, received the L.S. Palmer Award from the Minnesota Chromatography Forum. This award is given annually to recognize an individual who has made outstanding contributions to the organization. Kay has also served as president of the Forum.

**Terry Johnson Poindexter**, class of 1980, was featured on the cover of the SmithKline Beecham Clinical Laboratories Employee Annual Report. Terri is currently a territory sales manager with SmithKline Beecham, and was their top salesperson in 1989.

**Monica Kohnke**, class of 1990, recently completed an Undergraduate Research Opportunities (UROP) project with Karen Lofsness as her faculty advisor. Monica was selected to present her work "An Evaluation of Reticulocyte Counting by Flow Cytometry" at the national UROP conference at the California Institute of Technology in Pasadena, CA.

**Cathie Leiendecker Foster**, class of 1971, will be the laboratory manager of the newly established molecular diagnostics laboratory at the University of Minnesota. This laboratory will be responsible for clinical diagnosis of genetic disorders, such as Huntington's disease and cystic fibrosis, using DNA probe technology. Prior to accepting this position, Cathie was supervisor of clinical chemistry and toxicology at the Veteran's Administration Hospital in Minneapolis.

**Clareyse Nelson** ('61), **Susan Leszko Fautsch** ('77) and **Elizabeth Perry** ('66) are scheduled to present talks at a Continuing Medical Education conference entitled "Bone Marrow Processing for Transplantation: Current Practices and Future Directions", to be held at the University in April of 1991. Clareyse is also the current president of the Minnesota Society for Medical Technology.

## WHATEVER HAPPENED TO.....???

**Geraldine Dickerson** received her B.S. degree in medical technology in 1925 from the University of Minnesota program, after she had completed a B.A. in bacteriology. She worked at Minneapolis General Hospital (now Hennepin County Medical Center) for 32 years before she retired at the age of 65. She then started a second laboratory career at a hospital in Hollywood, FL, working in bacteriology and hematology until she retired again at the age of 75. Geraldine is now 96 years old, and lives at the Presbyterian Home in St. Paul.

**Louise Jernberg Yates**, class of 1951, retired in the summer of '90 from the out-patient lab at the University Hospital and Clinic where she had tamed the instrumentation. She has since left Minneapolis for Bellingham, WA where her brother, her father, and one of her sons have migrated to over the years. While Bellingham will be home base, she has also purchased an elaborate home on wheels for exploring the West.

Another retiree, **Barbara Goldberg Melamed** of the class of 1957, has been an active volunteer in the community since her retirement in 1975. She is currently in graduate school at Hamline University in their Master of Arts in Liberal Studies program.

**Gail Thorson Vukad**, of the 1976 class, is now Manager, Educational Projects Development, at the American Society of Clinical Pathologists headquarters in Chicago, IL. Previously, she had worked as a technologist for 10 years in Hibbing, 3 years in Duluth and 1 year at the University Hospital and Clinic.

**Pamela Tuveson Wymore**, class of 1981, graduated from the U of M Medical School in 1989, completed her internship at St. Paul Ramsey Hospital in June 1990, and is currently in a Diagnostic Radiology residency at the University Hospital and Clinic.

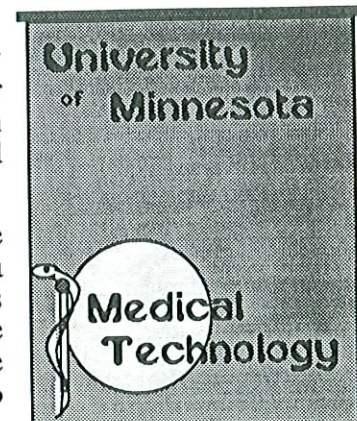
After working at the chemistry lab at the University Hospital since graduation, **Brian Lauber** of the class of 1985 has left to work in industry. He has joined INCSTAR in Stillwater, MN. INCSTAR has recently absorbed Atlantic Antibodies and is in a period of growth and expansion.

## STUDENT COUNCIL NEWS

One of the organizations in which medical technology students participate is the Student Council. The purpose of the Student Council is to promote student-faculty relationships, provide student input into the program, provide a means of enhancing communications among the students and stimulate social activities. The 1989-90 officers were **Tamara Hoelzel**, President; **Dave Ellis**, Vice President; **Jane Dunham**, Treasurer. The 1990-91 officers are **Jay Connors**, President; **Ghaleb Mohammed-Ibrahim**, Vice President; and **Emmy Fung**, Treasurer.

Fund raising activities for the past year included selling medical technology sweatshirts and class pictures. With the money earned, a Junior-Senior luncheon with the Seniors as hosts was held. A final pre-graduation celebration included a picnic and a ride on the Jonathan Padelford Riverboat.

The 1990 class also purchased a class gift which was presented to the Division of Medical Technology at graduation. This year's gift was a podium banner which was designed and constructed by Tamara Hoelzel's mother. The background of the banner is maroon with gold lettering at the top and white on the bottom. This gift is a welcome addition and will be used at many presentations as well as recruitment activities. Thank you to the class of 1990!!



# ASMT APPLICATION FORM

For those of you who wish to join us as members of the American Society of Medical Technology, we are including a membership application form. Active membership includes national dues of \$80, and state dues of \$10, for a total of \$90 per year.

## MEMBERSHIP APPLICATION

**Membership Categories** (check one)

**Active** (02) (Open to persons who possess: a baccalaureate/graduate degree in medical technology or related science; or, a license and/or certificate from an agency recognized by ASMT in an area of clinical laboratory science; or, two years' experience in clinical laboratory science; or, who have completed attendance at an accredited structured program of training in clinical laboratory science; or, who reside or are employed in a foreign country and are employed in the field of medical technology). Full voting privileges.

**Associate** (03) (Non-voting membership open to any individual who is not eligible for active or student

membership and who supports the purposes and goals of ASMT).

**Student** (05) (Open to any person enrolled in a structured program of training or academic instruction in clinical laboratory science, or to full-time graduate students in a related science area). Full voting privileges.

**Dues:**

National Dues: \$80 Active; \$54 Associate; \$25 Student, plus state dues (see table).

**Table of State Dues**

State Dues, Active	
CA	\$25.00
NY	\$20.00
TX	\$18.00
CO, HI, MI, MO, NE, NJ	\$15.00
FL, LA, NC	\$12.00
AL, AK, AZ, AR, CT, GA, ID, IL, IN, IA, KS, KY, MA/RI, MN, MS, MT, NV, NH, OH, OK, PA, PR, TN, UT, WA, WY	\$10.00
WV, WI	\$ 8.00
DC, MD, OR, SD	\$ 6.00
ME, NM, ND, SC, VT, VA	\$ 5.00
DE	\$ 2.00
State Dues, Associate	
TX	\$18.00
HI, MI, NJ, NY	\$15.00
CO, LA	\$12.00
CA	\$11.00
AL, AK, AR, CT, ID, IL, IN, MA/RI, MN, MS, MO, MT, NV, NH, OK, PA, PR, UT, WA, WY	\$10.00
NC, OH	\$ 9.00
AZ, FL, IA, KS, WV, WI	\$ 8.00
GA	\$ 7.00
DC, MD, TN	\$ 6.00
NM, ND, OR, SC, SD, VA, VT	\$ 5.00
KY, ME, NE	\$ 4.00
DE	\$ 2.00
State Dues, Student	
IN, MA/RI, NE, NH, NJ, NY, NC, PA, PR, SC	\$ 5.00
AL, MS, WI	\$ 4.00
FL, IA, OH, OK, WA	\$ 3.00
AZ, CT, GA, KY, LA, MI, NV, TN, VT, VA, WV	\$ 2.00
All other states	\$ 0.00

\*State dues are waived for foreign countries

Name \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Daytime Phone (        ) \_\_\_\_\_

Professional Credentials \_\_\_\_\_

*Special Interests (ASMT Scientific Assembly) Preferences:*  
(check one primary and one secondary):

- |   |  |
|---|--|
| <p><b>Primary</b></p> <p><input type="checkbox"/> (01)        biochemistry/urinalysis</p> <p><input type="checkbox"/> (02)        microbiology</p> <p><input type="checkbox"/> (03)        laboratory administration</p> <p><input type="checkbox"/> (04)        immunology/immunohematology</p> <p><input type="checkbox"/> (06)        histology</p> <p><input type="checkbox"/> (07)        hematology/hemostasis</p> <p><input type="checkbox"/> (08)        ligand immunosassay</p> <p><input type="checkbox"/> (09)        industry</p> <p><input type="checkbox"/> (10)        education</p> <p><input type="checkbox"/> (12)        phlebotomy</p> <p><input type="checkbox"/> (13)        cytotechnology</p> | <p><b>Secondary</b></p> <p>(01) <input type="checkbox"/></p> <p>(02) <input type="checkbox"/></p> <p>(03) <input type="checkbox"/></p> <p>(04) <input type="checkbox"/></p> <p>(06) <input type="checkbox"/></p> <p>(07) <input type="checkbox"/></p> <p>(08) <input type="checkbox"/></p> <p>(09) <input type="checkbox"/></p> <p>(10) <input type="checkbox"/></p> <p>(12) <input type="checkbox"/></p> <p>(13) <input type="checkbox"/></p> |
|---|--|

VISA     MC# \_\_\_\_\_

Expiration Date \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Check Payable in US Dollars to ASMT

National	State	Total
Dues \$	+ Dues \$	= Dues \$

*Please Mail Completed Application and Payment to:*

**American Society of Medical Technology**

Department 5144  
Washington, DC 20061-5144  
(202) 785-3311

# 50 YEARS AGO IN THE AMERICAN JOURNAL OF MEDICAL TECHNOLOGY

## Help Wanted:

Bacteriologist with degree and two years' experience in public health bacteriological work; municipal health department; \$150/month.

Medical technologists for appointments in hematology and chemistry divisions of fairly large New York hospital; must be experienced; \$97/month, meals.

Young woman, well qualified in all laboratory procedures; degree and eligibility for registration required; well-established group; winter resort town.

Young man with considerable experience in clinical pathology to assist director of laboratories in university hospital.

## Articles:

"Blood Grouping Tests in Relation to Transfusion" Alexander S. Wiener, A.B., M.D.

"The Role of the Medical Technologist in the Post Mortem Investigation of Disease" Theodore J. Curphey, M.D.

"A Study of Hematopoiesis in a Group of Female Students Ages Fifteen to Twenty-three Years Through a Study of Gastric Secretions and Correlated Blood Counts" Sr. M. Alcuin Arens, O.S.B., M.T., R.N., M.S.

"Removing "Frozen" Plungers from Syringes by a Hydraulic Pressure Method" Milan Novak, Ph.D., M.D. and Anna Margaret Lacy, B.S.

## SHOULD WE CHANGE OUR NAME?

As the oldest baccalaureate degree granting program in the United States, the University of Minnesota's Medical Technology Program has earned the respect of many colleagues and friends. However, in these times, the name "Medical Technology" may not be as appropriate as it once was. Would "Clinical Laboratory Science" be a better designator for our program?

Those who believe we should keep our present name point to our rich 69 year history, easy recognition by alumni, and costs associated with a name change, e.g. new stationery, rewriting of the Bulletin and other printed materials. On the other hand, the public views Medical Technology as the application of technology to Medicine. Thus, we recently received two pieces of correspondence inquiring whether we could perform liposuction to remove a woman's excess fat, and whether we could use laser surgery to treat a man's enlarged prostate. While these anecdotes are amusing, they point out the problem we have in recognition by the public. Does the name "Clinical Laboratory Science" better describe our profession? Will this name help in recruitment efforts? The accrediting agency acronym NAACLS stands for the National Accrediting Agency for Clinical Laboratory Sciences; thus, precedent has been set nationally for a name change. Other programs are using the designator Laboratory Science as well.

The opinions of our alumni are important to us. Next year we will be asking you to complete an alumni profile; it has been five years since we surveyed our alums. At that time we will also ask you about a name change. Let us know your thoughts.

# LET'S KEEP IN TOUCH

Have you often wondered whatever happened to the classmates you haven't seen since graduation? Once again, there will be a display at this year's Medical Technology Alumni Society Annual Banquet which will give you the opportunity to find out what they are doing.



Each year, the "Let's Keep in Touch" display is a big success and is enjoyed by all present at the banquet. Please help us continue this tradition by contributing some personal information about your life since graduation. (Even if you sent information last year, please contribute again this year---we'd like to hear from you again.) Submitted information will be displayed at the banquet. Whether you attend the banquet or not, we would like to hear from you.

It is not necessary to limit the information you submit to that requested on the form. Letters and especially pictures would be greatly appreciated, and the pictures will be returned if you wish. Otherwise, we will place the photos in your student file. Yes, we still keep a file of each of our graduates!

.....

Name \_\_\_\_\_ Year of Graduation \_\_\_\_\_

Address \_\_\_\_\_

Career Info: \_\_\_\_\_

Family Info \_\_\_\_\_

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

Please mail to: Medical Technology Alumni Society  
100 Morrill Hall  
100 Church Street S.E.  
Minneapolis, MN 55455

# ANNUAL BANQUET NEWS

## For Alumni and Friends

This year's Annual Banquet will be held at the Woman's Club of Minneapolis, a lovely setting noted for its exceptional cuisine.

- Date:** Wednesday, May 29, 1991  
Social Hour (with cash bar) 5:30 p.m.  
Dinner with program to follow 6:45 p.m.
- Place:** Woman's Club of Minneapolis  
410 Oak Grove  
Minneapolis, MN 55403  
*Please note: Parking is complimentary at this Club*
- Menu:** Boneless Breast of Chicken with Champagne Sauce  
or  
Roasted Prime Ribs of Beef au Jus  
Dinner includes: Woman's Club Salad  
Baked Potato with Sour Cream  
Green Beans Amandine  
Truffles
- Cost:** M.A.A. or MSMT Members \$23.00  
Nonmembers \$25.00  
Seniors (Age 60 and over) \$20.00  
(Gratuity and tax are included in price)

**Program: "Bone Marrow Processing" presented by:**  
**Betsey Perry, MT(ASCP), M.D.**, Board Certified pediatrician and Assistant Medical Director of both UMHC Blood Bank and St. Paul Regional Red Cross Blood Center. Betsey is a member of the 1966 class.  
Special recognition will be given to the classes of 1966 (25 years); 1941 (50 years); and to the 69th graduating class of 1991.

**Deadline for reservations: May 17, 1991.** Send your reservations in early as seating is limited.

### FIRST ANNUAL MEDICAL TECHNOLOGY ALUMNI SOCIETY RAFFLE

The drawing for raffle prizes will take place on the night of the Annual Banquet. Winners need not be present to win. Prizes include U.S. Savings Bonds, hand-made quilt, wall hangings, culinary classes at Byerly's, chocolate truffles, movie tickets and more!!! Support the Medical Tech Alumni Society by purchasing raffle tickets at \$1.00 each. For more information, see article about the raffle elsewhere in this issue of *Tech's Talk*.

.....  
Please reserve \_\_\_\_\_ places for me at the Medical Technology Alumni Dinner.

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

Please reserve \_\_\_\_\_ seats for me at the 1941 table.

Please reserve \_\_\_\_\_ seats for me at the 1966 table.

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

Address \_\_\_\_\_ MSMT # \_\_\_\_\_

Mail by May 17, 1991, to: Medical Technology Alumni Society  
100 Morrill Hall, 100 Church Street S.E.  
Minneapolis, MN 55455

# Looking for your ideas



As regular readers of this publication are aware, the Division has been publishing this newsletter annually since 1947. We try to inform you of recent happenings within the Division and the Department, current trends in the profession, and to serve as a vehicle for alumni news. However, we would really like to know what the readers would like to see in future issues. Would you like more features about individual alums, more about the University as a whole, news from ASMT or MSMT, less of anything?? We would greatly appreciate your feedback on recent issues, and suggestions for future articles. *Tech's Talk* is really for you, and we need your input.

If you have any comments, or ideas for future issues, please fill out the section below and return it to:

Editor of *Tech's Talk*  
Division of Medical Technology  
Box 198 UMHC  
University of Minnesota  
420 Delaware St. S.E.  
Minneapolis, MN 55455

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