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TECH'S TALK

Celebrating 50 consecutive years of publication

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UMHC and Fairview Consider Alliance

One of the most dramatic changes to occur in recent years at the University Hospital is the proposal that UMHC and the Fairview Hospital System integrate to form a new medical campus. Academic Health Center provost Dr. William Brody recently stated, "Given market pressures, partnership with another health system was the only alternative to eventually closing the hospital. With a consistent 5 percent market share and the fact the University Hospital is not the dominant provider in any clinical market segment, it became clear that, in the future, the hospital would not survive alone."

Phase I and II negotiations have been proceeding for several months. According to a memorandum of understanding signed by the Board of Regents in January 1996, the purpose of the affiliation is to create an integrated, cost-effective, accessible health care delivery system that would also protect the University's education and research missions. The memorandum states that Fairview Riverside Medical Center and UMHC will integrate as a division of Fairview Health System. This division will have a new name and its own Board of Trustees, which will report to the Fairview Health System Board.

The UMHC campus will be the principal Twin Cities site for inpatient care; Fairview Riverside will be the principal site for ambulatory care. The Fairview Health System will acquire specified UMHC assets and debts, assuming overall risk, as well as managerial and fiscal control. In exchange, the University Academic Health Center will gain access to the patient base it needs for research and teaching. The University will retain control of all educational programs in the new entity.

Discussions with the Fairview Health System are continuing, with details of the proposed integration to be determined in Phase III negotiations, including thorough legal and financial reviews. Human resources issues such as wages, pensions, seniority, health insurance and University benefits will also be addressed during this phase. Current hospital employees will no longer be employed by the University; they will become Fairview employees. The target date for a definitive agreement is June 30, 1996.

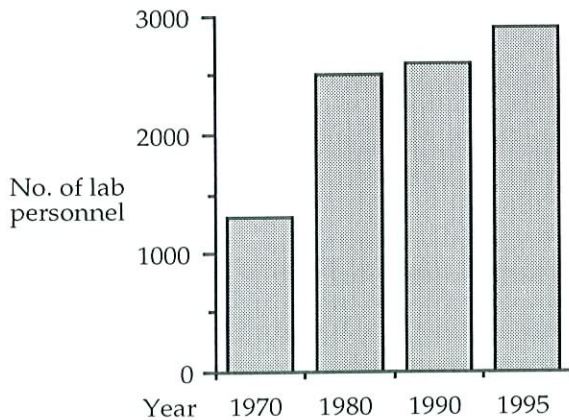
A Message from the Director

For the past 25 years—at 5-year intervals—we have surveyed the administrative directors of major clinical laboratories in the Twin Cities area to determine their employment patterns. Laboratory personnel included in the survey are listed in the table below, including total numbers of employees, and the percentage of the total that each category of professionals represented in 1995.

Category and Numbers of Personnel—1995				
	Full time	Part time	Total	% of all Personnel
CLS/MT	1155	309	1464	50%
CLT/MLT	464	168	632	22%
Cytotechs	72	13	85	3%
Histotechs	69	15	84	3%
Other	265	117	382	13%
Phlebotomists	175	92	267	9%
Total	2200	714	2914	100%

Cumulative numbers of laboratory personnel by year are seen in the figure below.

Numbers of Laboratory Personnel in Major Laboratories in the Twin Cities Area



No. of labs surveyed: 36 37 31 28

Between 1970 and 1980, total numbers of laboratorians doubled. Despite the Prospective Payment System (PPS) enacted in 1983, which was intended to reduce laboratory, radiologic and other testing, numbers of laboratory personnel rose slowly. In addition, between 1980 and 1995, ten major hospitals in the Minneapolis-St. Paul area closed or were converted to other facilities, and only two small suburban hospitals were built. Again, due to these hospital closures, one would expect fewer laboratory personnel to be needed. Instead numbers rose. What are some of the reasons for this phenomenon?

First of all, despite the intent of PPS, laboratory testing has increased. In 1995, administrators from 75 percent of the laboratories surveyed reported greater laboratory test volume in 1995 than in 1990. Secondly, the emergence of three large independent (reference) laboratories gave rise to employment of more laboratory personnel. Finally, laboratory testing has become increasingly specialized as new technologies have been developed in molecular diagnostics, flow cytometry, electron microscopy, biochemical genetics, cytogenetics and other areas. The detection and diagnosis of conditions and diseases can now be made at the molecular level—aided by new and increasingly sophisticated technologies. Consequently, these laboratory specialty areas have necessitated additional personnel, usually at the baccalaureate level.

Often we are asked whether two-year trained medical laboratory technicians will supplant baccalaureate-level technologists. I think not. The influence of “managed care” has given impetus to the utilization of associate degree-level technicians, who predominate in clinics and HMOs. In these settings, standardized equipment, less complex testing and a healthier patient clientele have supported the employment of personnel at this level. However, baccalaureate-level technologists will be needed increasingly in several capacities: in performing the new and emerging procedures; in working in and supervising personnel in non-traditional settings; and in consultative roles, e.g., as advisors to physicians. The “end point” may mean that some technologists will have to leave the bench and move to patient wards, to different health settings such as ambulatory or emergency care, HMOs, and to the corporate world. An earlier emphasis on technical and judgment skills will be needed along with skills in communications, business acumen, and flexibility in the sites in which one works.

Since 1923, the University of Minnesota has graduated almost 2600 medical technologists, the largest number from a single program in the nation. We have a reputation for being in the forefront of the education of laboratory professionals. This year we will be involved in curriculum revision—to assess our strengths, the effects of inside and outside forces, and future directions to be taken. From these assessments, we anticipate a new curriculum, one that not only reflects our history of excellence, but also meets the needs and expectations of the future.

Let us know your thoughts!


Karen R. Karni, Director

1995 Major Contributors

The following persons contributed \$100 or more to the Division of Medical Technology in 1995:

\$1,000

Mary Moriarty Galvani

\$500 - \$999

Lorna Henderson Canfield
Ruth A. Cardinal
Neal L. Gault
General Mills Foundation

\$300 - \$499

Cigna Foundation
Marilyn M. Klein
Elizabeth Hall Perry
Verna L. Rausch

\$100 - \$299

Abbott Laboratories
Aetna Life & Casualty Foundation
Joanne Samuelson Arvid
Elizabeth Kirker Bixby
Ruth Bienhoff Brauer
Marilyn Tucker Budge
Marlys Hawkinson Campbell
Kathleen Quast Carlsen
Marilyn Scovil Cavanaugh
Ruth Minor Chamberlain
Ann Deis Claesgens
Irma Koskella Coleman
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Dorothy Carlson Duffell
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Grace Mary Ederer
David Ellis
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Marilyn Postier Haglund
Helen Nordine Hallgren
Marilyn Wainio Halonen
Carol Luck Harris
Janet Smith Hoeft
Karen Kloss Huff
Idelle Hanson Hultgren
Mary and Todd Jacobson
Billie Anne Herranen Juni
Karen Soderberg Karni

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Laboratory Medicine & Pathology
Associates Memorial
Karin Rittgers Libby
Karen Gates Lofsness
McConnell Memorial
James McConnell
Donna Messerli Meyer
Shirley Lindquist Michel
David E. Nevalainen
Michael T. Newell
Raymond Newman
Alan G. Olson
Kay Nelson Olson
Kathleen M. Pflighaar
Margaret Peterson Rasmussen
Debra C. Rodahl
John L. Roesler
Eileen Leipus Rogers
Ruth M. Rosendahl
Shelly Lepisto Russ
Melicent Hane Schmidt
Paul Schreckenberger
Mary T. Skupa
SmithKline Beecham
Harriet Broman and J.R. Snoga
Ella M. Spanjers
Lorraine Gonyea Stewart
Elizabeth Stone
Cheryl Damien Swinehart
Dorothy Bennett Trach
Phyllis Hanson and Verne Weiss
Lila Wicklund Wengler
Joyce Clarke Wian

The Academic Health Center Moves into the 21st Century

"Mergers, restructuring, reengineering"—these catchwords of the 90s represent ongoing processes that will continue at the University. The last major reorganization in the medical center occurred 25 years ago in 1970 when the College of Medical Sciences was dissolved. The new Health Sciences unit was created in response to concerns by faculty, administration and professional staff that changes were needed in the way the schools in the college carried out their missions. The principle of the new unit was to promote multidisciplinary and interdisciplinary collaboration among the 11 disciplines in the 7 professional schools in a coordinated and effective manner.

Dr. Lyle French was named vice president for Health Sciences which included the Schools of Medicine, Dentistry, Pharmacy, Nursing, Veterinary Medicine and Public Health, each with its own dean, as well as the U of M Hospital and its director. The Division of Medical Technology remained within the School of Medicine.

A need for change was again realized in the 1990s as funding sources decreased and access to patients was reduced, together with a shifting demand for health professionals' skills. The designation Health Sciences was changed to the Academic Health Center (AHC), a name created recently by the federal government and the Association of American Medical Colleges, to designate an institution that includes a hospital, a medical school and at least one other health sciences professional school. The title of vice president was changed to provost. Dr. William Brody was named the first provost in 1994.

In 1995 the AHC began the process of reengineering, which differs from restructuring in that all previous paradigms are thrown out and everything is on the table for change. A Quality Reengineering Technology Committee (QRTC) was formed and worked for six months through Phase I, performing research that included interviews and surveys of students, employers, industry leaders, and other key customer groups. Dr. Leo Furcht, department head of Laboratory Medicine and Pathology, was named as a member of the committee and in December 1995 was named vice provost of the AHC. The goal of the new AHC is to increase multidisciplinary education, research, and patient care (which is being demanded by customers); to emphasize organizational over individual performance; and to replace outdated, ineffective management practices.

The result of Phase I is that the new AHC will be organized into three separate divisions: research, education, and clinical services/outreach, each designed to meet specific customer requirements. Vice provosts will be named for the education and research divisions, and an

executive director will lead the clinical affairs division. All will remain under the general leadership of a provost. Academic focus groups are being formed, and all faculty must select a primary group to which they will belong. These groups will be based on common disciplinary interests such as bone marrow transplantation or pain research and include faculty from a variety of schools and departments.

As the QRTC moves into Phase II, ten faculty/staff design teams are being formed to develop the specifics over the next six to eight months. These teams will look at the issues of organizational structure, human resources, tenure, management information, funding and budgets, curriculum, research support, patient flow, communications, and information technology.

Provost Brody emphasizes that the AHC needs to take a proactive role in changing, or it will be transformed by external forces. Clearly reengineering will mean significant changes for most of us. What will be its impact on medical technology? Stay tuned!

Health Sciences News

- The Minnesota Vascular Diseases Center has been named one of 15 National Institutes of Health Centers of Excellence for research, early diagnosis, and treatment of vascular diseases. The center will provide regional and national leadership in the performance of numerous vascular research studies, including clinical trials to assess new medications for the pain associated with leg arterial disease, nonsurgical methods to open blocked blood vessels and optimal surgical approaches to vascular disease.
- The organ transplant program at UMHC continues to thrive. During 1994, transplant teams performed 222 kidney transplants, 76 pancreas transplants, 30 liver transplants, 30 lung transplants, 23 heart transplants, and 5 heart-lung transplants.
- A six-year-old Twin Cities girl is the first nondiabetic person in the United States to receive insulin as part of a national diabetes prevention study. The child received her first dose in January 1995 at UMHC. She was enrolled in the NIH sponsored Diabetes Prevention Trial, because of a family history of insulin-dependent diabetes. Subjects will receive small insulin doses (about half the amount given to diabetics), in hopes the treatment will prevent diabetes.
- Dr. Frank Cerra, professor of surgery, was named dean of the medical school by Dr. William Brody, provost of the Academic Health Center. Cerra, a faculty member since 1981, began his new duties in May 1995. He replaced Dr. Shelley Chou, who served as interim dean for two years.

The Changing Face of the Health Science Complex



The University Hospital (built in 1986) is the larger building on the right forefront of the photograph. The tall towers behind the hospital are the Phillips Wangenstein Building (foreground) and Moos Tower (background). The Medical Technology offices are located on the 15th floor of the Phillips Wangenstein Building (PWB). Medical School departmental offices and outpatient clinics occupy most of the rest of the building. The School of Dentistry and various teaching and research laboratories are located in Moos Tower. The new Masonic Cancer Center is in the center foreground of the photo. Four new floors were added to the Dwan Cardiovascular Research Center (or KE) to house the Cancer Center. Under construction in the back left of the picture is the new Basic Sciences Building, built on the site of the former Botany and Zoology Buildings. Research laboratories from several of the basic science departments will be housed in this facility.

Trends in Clinical Laboratory Science Education

During the past 25 years, four-year programs in laboratory science/medical technology have declined by 55 percent, with numbers of graduates reduced by 19 percent. Most of the MT program closures have occurred in hospitals where financial constraints have diminished educational capabilities among laboratory staffs. Numbers of NAACLS accredited clinical laboratory science programs and numbers of graduates for selected years are shown in the table below.

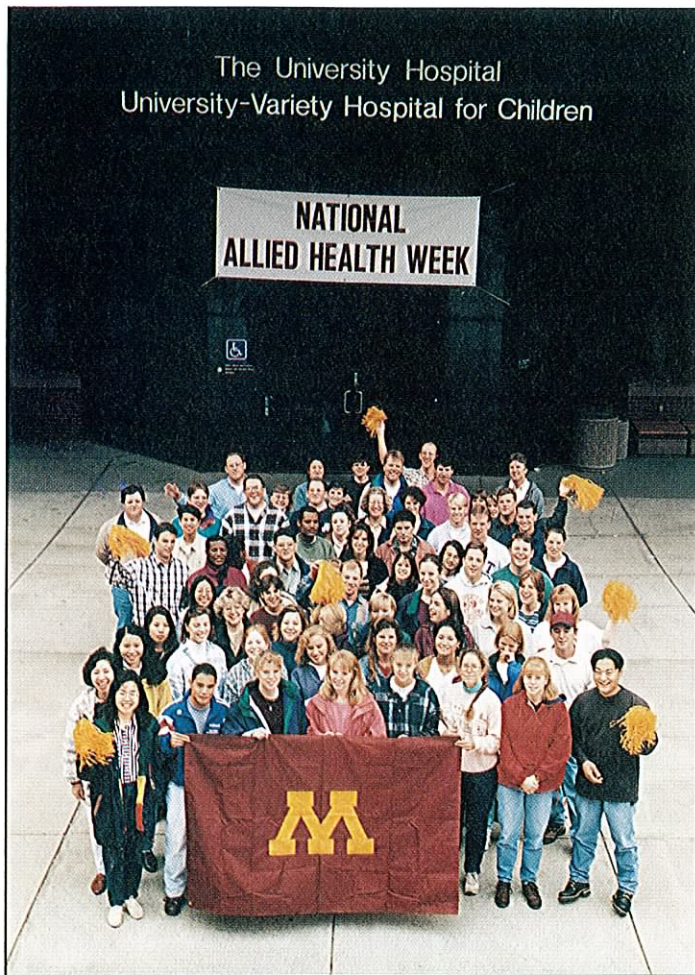
In contrast, over the past 15 years, the number of associate degree MLT programs has increased by over 100 percent, and their graduates by 59 percent. There has also been a trend for certificate level CLT programs to convert to the associate level, reinforced by regulations of the Clinical Laboratory Improvement Act-1988. These regulations require at least associate level personnel when highly complex testing is being performed.

		1970	1975	1980	1985	1990	1995*
Clinical Lab Scientist (MT)	Programs	791	709	652	584	420	357
	Graduates	4408	6121	6184	4862	3024	3563
Clinical Lab Technician (Assoc Deg)	Programs	-	24	105	225	215	223
	Graduates	-	173	1501	2275	1444	2378
Clinical Lab Technician (Certificate)	Programs	210	167	99	56	41	37
	Graduates	1570	1463	1010	1003	848	842

*Note: Numbers of graduates are from 1994.

Source: Allied Health Education Directory various editions (latest: 1995). American Medical Association, Chicago, IL 60610

National Allied Health Week Photo Shoot!



Students representing programs in medical technology, mortuary science, occupational therapy and physical therapy gathered beneath the allied health banner at UMHC to celebrate National Allied Health Week in October. These programs are some of the earliest professional programs at the University of Minnesota. The program in mortuary science was initially established in 1908. Medical technology graduated its first two students in 1923. Occupational therapy and physical therapy began at the University in 1946, following World War II and the need to rehabilitate wounded veterans.



Entry-Level Salaries for UMHC Employees

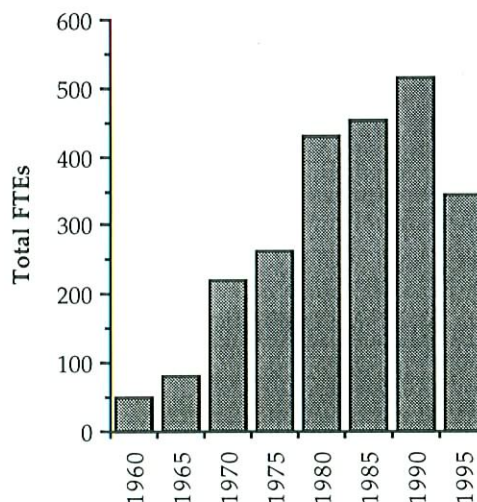
The following table shows beginning hourly salaries for various health care practitioners within the University Hospital and Clinic from over the past 50 years. It is interesting to note that the nursing shortage of 1980 "bumped" staff nurse salaries above that of medical technologists for the first time. That increase continues today.

	1945	1968	1980	1995
Dietitian	\$0.81	2.91	7.12	13.33
Radiologic Technologist (2 yr)	0.92	2.30	6.05	11.50
General Staff Nurse	0.81	2.91	7.12	16.01
Occupational Therapist	0.92	2.91	6.63	13.99
Physical Therapist	0.87	2.91	6.63	14.53
Medical Technologist	1.04	2.91	6.87	13.65

(Note: to convert hourly to yearly salaries, multiply by 2080.)

Decrease in UMHC Clinical Laboratory Personnel

The number of laboratory personnel employed at UMHC increased every year from 1945 to 1988. However, laboratory restructuring undertaken in response to the changing environment in health care, has resulted in a decrease in full time equivalents (FTEs) as shown in the graph below. A major reorganization of the clinical laboratories was implemented in the past year. The 21 existing laboratories were divided into 5 groups, each with a group administrator. The resulting reductions in personnel are intended to provide a more cost-effective and responsive laboratory system at UMHC.



Medical Technology Scholarship Winners Announced

Congratulations to Jacquelyn Andres, Reeman Ansari, Renee Bellrichard, Rebecca Biege, Maria Brown, Janete Dela Cruz, Susan Ewanga, Anna Hahm, Brian Howell, Becky Huebner, Steven Mattson, Shane McCoy, Inessa Molodan, Ngoc-Hien Nguyen, Trang Nguyen, Anita Oakman, Stacy Read, Tiffany Stuart, and Michelle Vaneps, who have been awarded scholarships from the Division of Medical Technology. A total of \$12,500 was granted in scholarships to these 19 deserving students. Individual scholarships ranged from \$500 to \$1000.

Generous contributions from alumni, faculty, staff, and friends provide the monies for the scholarships. All medical technology students are eligible, and recipients are chosen on the basis of scholastic standing, financial need, and professional potential. The Division of Medical Technology administers four scholarship programs that provide funds exclusively for our students.

- The **Hovde-O'Brien Scholarship Fund** is named in honor of William O'Brien, medical director of Medical Technology from 1925-39, and Ruth Hovde, a member of the faculty since 1946 and professor and director of the Division of Medical Technology from 1964-84. The fund has continued to grow over the years because of consistent donations from our alumni, faculty, staff, and friends.
- The **Gonyea-Stewart Scholarship Fund** and the **Gonyea-Stewart Loan Fund** were established in 1986 by Lorraine Gonyea-Stewart, an emeritus member of our faculty. In addition to the scholarship monies provided, students may utilize the loan fund to obtain short-term, emergency loans.

- The **Yvonne C. Cooke Scholarship Fund** was established in 1990 by Yvonne Chenoweth Cooke, a 1937 alumna of our program. The Cooke fund helps deserving students complete the program and asks awardees to eventually repay the money, if they are able to do so.
- The **Betty Rae Kramer McConnell Scholarship Fund** was established in 1992 by the family of Mrs. McConnell, a 1945 alumna of our program. As with the other scholarship programs, interest on the principal is awarded each fall as scholarships to worthy students.

These scholarships are more important than ever because of increasing tuition costs, living expenses, and a decline in available financial aid. The recipients of these scholarships, along with the Division of Medical Technology, thank the many contributors to the scholarship programs. Contributions may be sent to the Division of Medical Technology, Box 609 UMHC, University of Minnesota, Minneapolis, MN 55455.

Recent Class GPAs



Admission to the program in medical technology is competitive and based largely on grade point average (GPA). In 1995 we received 90 applications for 40 student openings in the junior and senior years. This is the largest number of applications we have received in recent years.

While a good GPA does not guarantee success as a professional, it does help to predict success. The following are cumulative GPAs for recent incoming classes in medical technology (A = 4.0):

1988	2.85	1992	3.05
1989	2.90	1993	3.00
1990	2.95	1994	3.20
1991	3.00	1995	3.25

Can You Help Us?

For the past several years, we listed the names and graduation dates of alumni with whom we had lost contact in the preceding year. We are asking for your assistance again this year. If you know any of these individuals, or any other alumni who are 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!

Jean Sonstegard Sevcik, 1985
 Marjan Ahmadi, 1983
 Melissa Love Martindale, 1983
 Laurine K. Jessen, 1977
 Gloria J. Boettcher, 1973
 Betty McMartin, 1965
 Diane Davis Schmidt, 1954
 Elizabeth Ziaskas Haugen, 1953
 Jacqueline Irons Swigart, 1952
 Patricia Taylor, 1939
 Mary Thelmer Knutson, 1939
 May Collins, 1936

If you have changed your address, please let us know. Many of you have faithfully kept us current, because this year, out of a possible 2,600 alumni, nearly 2,150 will be receiving *Tech's Talk*.

Alumni News

We value those of you who have corresponded with us this past year or who responded to last year's "Keep in Touch" column. Here is a sampling from some of these individuals regarding their lives and whereabouts.

Allegra Pedersen Stehr (1940) of Cathedral City, California, wrote, "Long time retired, but proud to have been a MN graduate, and not having to take a back seat for anybody but the more recent graduates who have had a different education. This MT had jobs all over from east to west, short times or vacation fill-ins, sometimes giving ether to set bones, or scrub nurse in OR, removing casts, giving shots, keeping books, typing records—probably not real technical, but fun."

Teena Bruich Fletcher (1945) retired from the Boynton Health Service Laboratory in 1988. She belongs to the senior tennis league and for 10 years has taken literature courses through continuing education for women.

Pearl Engelstad McDonald (1945) worked in chemistry research at NIH and Yale University, earning a master's degree in 1969. Currently she is a sculptor in Seattle, WA.

Elizabeth Dornbusch (1946) spent 38 years in laboratory work, primarily in cardiovascular research and retired in Oregon in 1987.

Ruth Mlekoday Downing (1948) of Minneapolis, spent 40 years "med teching." Currently she is involved in voluntary activities—as a teacher's aid, with Meals on Wheels and House of Charity.

Jean Smaltz Hulbert (1949) of Manhattan, KS, worked in the field for 20 years and now volunteers with peace and justice organizations, dealing primarily with international issues of women and children.

Janice Annis Sharp (1954) of Beavercreek, OH, retired from medical technology in 1987. She now manages a garden center and also holds an amateur radio license.

For the past 11 years, **Nancy Christiansen Ballot** (1961) has been a biology teacher at Lodi High School, Lodi, CA. Travel and bird watching are her favorite activities.

Judy Fresk Winter (1967) of Sioux Falls, SD, is a managed care specialist at Corning Clinical Laboratories and is studying for a Ph.D. in health care.

Marilyn Meinke Koenst (1970), M.S. (1985) earned a doctorate in biochemistry and currently is on the faculty of the College of St. Benedict, St. Joseph, MN.

Carol Ferguson Ladwig (1970) of Moorhead, MN, is on the school board of the Moorhead School District. She

worked for many years in the laboratories of Hennepin County Medical Center, Children's Hospital (Cincinnati), and Dakota Hospital before assuming a variety of civic duties in western Minnesota.

Marba Sanders Mohn (1972) of Plymouth is senior laboratory information systems applications specialist with the Fairview System. Previously, she was supervisor of the blood bank and donor center at Torrance Memorial Blood Center in California.

Janet D. Donlin (1977), D.V.M. (1981) is working for the American Veterinary Medical Association, overseeing the accreditation of U. S. veterinary technology programs. She lives in Lake in the Hills, IL.

Mary Dignin Belden (1978) worked as a computer manager with Hartford Insurance before retiring in 1989. That year, she and her husband spent a year traveling around the world. Now she's a full-time mother of two daughters.

Shalimar Meyer Baldry (1979) is the chemistry supervisor in the Health Partners Central Laboratory. She and her husband also farm 800 acres in western Minnesota.

Lori Holdridge Opsal (1980) of Coon Rapids is the laboratory information systems manager for Allina Consolidated Laboratories.

Terese Sandkamp Shearer (1981) finished medical school in 1987 and now is a family practice physician in Eagan.

Kimberly Russ Butler (1982) is the regional director of marketing for NovaCare Inc., a geriatric rehabilitation company. After 10 years in Chicago, she and her husband returned to the Twin Cities in 1994.

Brenda Baker (1983) spent 12 years in the coagulation laboratory of UMHC and currently is enrolled in the cardiopulmonary perfusion program at the University.

Payam Tristani-Firouzi (1985), a fourth-year medical student at the U of M, was elected to membership in Alpha Omega Alpha, a national medical honor society.

Michelle Wieland-Cain (1988) of Apache Junction, AZ, works in the blood bank of Scottsdale Memorial-North and is active in various equestrian activities.

Susanne Eibner Griak (1988) of Santee, CA, is a quality control medical technologist with "Scantibodies Laboratory Inc.," a biotechnology firm.

Jackie White Holien (1989) is a senior quality control technologist for Sanofi Diagnostics, Chaska, MN. Previously, she worked in the blood bank of Parkland Memorial Hospital, Dallas.

Class of Sixty-Eight Newsletter—27 Years of Publication

This year marks the 27th issue of the COSEN (Class of Sixty-Eight Newsletter). **Phyllis Maercklein** put together the first issue with the help of **Kaye Wolfe** and **Toni Okada**. **Kathy Cooper** joined “the staff” in 1972, and **Kay Young** became the permanent editor in 1976.

Letters asking for updated biographical information on all 1968 graduates are sent out in February. Planning for five-year reunions and class activities occurs at the same time. Of the 45 people on the mailing list, 12 have responded every year. Usually responses are received from at least 30 classmates, a 67 percent response rate!

While in school, the class of sixty-eight had the reputation of being a highly social group. The newsletter helps keep that tradition alive. The summer of 1995 brought many to the second annual tea party held at Kay Wolfe’s. With many of the class celebrating a significant birthday this year, a weekend slumber party is being planned for the summer.

Kay notes that it is always great to hear from her classmates, “Putting together the newsletter is a labor of love, not an obligation.” The rest of the class appreciates her work and offers heartfelt thanks for her efforts to keep everyone in touch.



We Need Your Help: Alumni Survey

The Spring Meeting of laboratory professionals, sponsored by the Minnesota Society for Clinical Laboratory Science, Clinical Laboratory Management Association and the Minnesota State Society of American Medical Technologists, will take place at the Earle Brown Heritage Center in Brooklyn Center on May 8-10. This year’s theme is *Weaving our Strengths*.

The program will feature “magnet” speakers: one on Wednesday and Thursday, and two on Friday. Wednesday’s magnet topic is “Ethical Leadership;” Thursday’s is “Legislation and the Future of Medical Technology;” and Friday’s are “Medical Informatics” and “The Diversity Journey: One Organization’s Perspective.” The keynote address, “Change and Opportunity: Maximizing our Potential,” will be on Wednesday evening. It will be given by Elissa Passiment, executive director of ASCLS, immediately prior to a reception honoring Kathy Hansen, the current president of the American Society for Clinical Laboratory Science. Other topics scheduled for the meeting include: antibiotic resistant enterococci, molecular diagnostics, hyperhomocysteinemia, cytogenetics in hematology, stem cell transplantation, diabetes testing in the 90s and several sessions related to management—reimbursement, performance evaluation, CAP indices, negotiating contracts, and others.

For more complete information or a registration brochure, please contact Mary Beech, SmithKline Beecham Clinical Laboratories, 600 West County Road D, New Brighton, MN 55112. Work number: 635-1564; fax: 635-1507.

We have been contacted by the Graduate School of Public Health, San Diego State University, to participate in a study assessing the competence of medical technologists. One of the SDSU faculty members is Dr. Louise Hofherr, who taught microbiology in our program from 1975 to 1979.

The University of Minnesota was chosen as a collaborating institution because of our reputation in education, total numbers of graduates (almost 2600), and access to the addresses of most of our alumni.

SDSU and U of M faculty have jointly developed a three-page survey which will be sent from San Diego to all U of M medical technology graduates for whom we have addresses. We ask your help in completing this questionnaire and returning it to SDSU. All information will be handled anonymously, and only summary data will be reported. Next year’s *Tech’s Talk* will include pertinent results.

Following this initial survey, a small sample of medical technologists will be asked to participate in a more in-depth study, which will include a vocational interest test and perhaps a brief psychomotor test.

Through the Laboratory Assurance Program, investigators at SDSU have a strong nine-year track record in assessing laboratory quality. We hope to learn more about competence to ensure that our students continue to have a meaningful educational experience. Please respond to this effort, and thanks in advance for your help!

Tech's Talk—The Golden Anniversary Edition

The first issue of *Tech's Talk* was published in April of 1947, and has continued for 50 consecutive years. While the appearance of the newsletter has changed over the years due to improved word processing and printing capabilities, the spirit and substance of *Tech's Talk* remains the same. We thought it might be interesting for you to read some of the items from the first issue, 50 years ago.

"Ancker Hospital is going modern; last year they purchased two new Evelyn Photoelectric colorimeters."

"The main speaker for the annual Medical Technology banquet is Dr. Richard Varco, speaking about congenital heart disease in children. Banquet tickets go on sale April first and are \$1.35 per plate."

"University Hospitals has a new laboratory rotation system. Each senior begins her training in either Hematology or Chemistry lab. The first rotation begins with six weeks in Hematology, followed by two weeks in Urinalysis and four weeks in tissues. Then she spends four weeks in BMR-ECG and two weeks in Parasitology Lab. The second rotation starts in Chemistry lab where ten weeks is spent, followed by three weeks in Bacteriology, three weeks in Blood Bank, and three weeks in Serology. The third rotation consists of four weeks of night duty, four weeks in Dispensary lab, and six weeks as a review period in different laboratories."

The Annual Fund Drive

Once again, the Division of Medical Technology benefited from alumni donations. In fiscal year July 1, 1994 through June 30, 1995, a total of 451 personal, matching, and miscellaneous donations were received. The average gift was \$48.10, and total contributions were \$21,697.

The success of the Medical Technology drive is due to the loyalty of graduates and their friends. Actually, 90 percent of our donors have contributed previously. They represent the heart and soul of the annual fund drive.

From these donations, we have been able to purchase used equipment for the teaching laboratories. The Division of Medical Technology also sponsored students' small research projects and the acquisition of texts and computer programs for the Diehl Hall Library. Nineteen students were recipients of scholarships, ranging from \$500 to \$1,000. This was the largest number and amount ever awarded by the Division.

On behalf of medical technology students, especially, we thank all of our contributors. You have enriched their lives and educational experience at the University of Minnesota.



Strandjord-Clayson Endowed Educational Fund

The University of Washington recently established the Strandjord-Clayson Endowed Educational Fund in honor of **Paul Strandjord** and **Kathleen Clayson** (class of 1951), founders of the Department of Laboratory Medicine there. This fund will help support the education of future clinical laboratory scientists.

Paul Strandjord received his M.D. from Stanford University and completed his residency in laboratory medicine at the University of Minnesota, where he also served as professor and director of Clinical Chemistry and department chair of Laboratory Medicine. In 1969 he became professor and chairman of the Department of Laboratory Medicine at the University of Washington.

Kathy Clayson began her career at the University of Minnesota Hospital as a medical technologist, and in 1961 became an instructor in the Department of Laboratory Medicine. She earned a master's degree in 1968 before leaving for the University of Washington in 1969 to continue her teaching career.

While at Minnesota, Paul and Kathy worked together in enzymology research and published numerous articles in this field. Congratulations to them on their distinguished careers and the establishment of the Strandjord-Clayson Endowed Educational Fund!

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 1946 (50th Anniversary)

Virginia M. Aluni	Esther F. Freier	**Betty Hawkins Ramsey
**Marion J. Anderson	Muriel Johnson French	Alice Lund Riddell
Jane Ames Bailey	Lois Belanger Gallinger	Etta Lazar Rikess
Constance Olson Bakken	Margaret Meriwether Gay	Margaret Wilkins Roberts
*Winifred Anderson Bankston	**Harriet Drasin Gull	Ethel Koster Rodriquez
Anne Dimunation Bas	Audrey Swensen Guttersen	Margaret Strunk Saetre
*Marjorie A. Baughan	*Avis Haga	M. Maxine Sanberg
Olga Leschisin Beck	Ruth Muir Hartman	Clara Hurwitz Savitt
Mary Halverson Berg	**Marjorie Kent Haugdahl	Melicent Hane Schmidt
Dorothy Misjuk Bianchi	Melva J. Hegland	Elaine Topka Schuman
Kathleen Walsh Bieri	Mary Souther Janda	*Lois M. Schwarz
**Sonia Braun	Barbara Gleason Jarl	Betty Larson Schwie
Marilyn Tucker Budge	Alice Larson Johnson	*Barbara R. Smith
*LeNora Burnell	**Martha E. Jolin	Kathryn L. Smith
Rosaline Mantel Butorac	*Bethel Lindeman	Joan Vallentyne Smith
Ruth Hodgson Cadwell	Joyce E. Lounberg	Annette M. Sorensen
Ruth A. Cardinal	Mary Bielefeldt Maedke	*Grace C. Spees
*Virginia Scholljegerges Carlson	Arlene Edwall Marcotte	M. Virginia Brimhall Theurer
*Ruth Cotton	Jean Hugos Mulvahill	Toby Gitis Titman
Mary Jane Cunnien	*Betty L. Ordahl	Helen Michaelson Ude
*Aletha Eilers	Vilaty Scriver Patnode	Theresa C. Kruse
Phyllis Ogburn Fall	*Virginia Bray Patterson	Joyce Clarke Wian
Edna Hoverson Finch	Peggy Pearce Pongratz	Dorothy Jorgenson Williams
*Vivian Foss	Verneil L. Priebe	

Class of 1971 (25th Anniversary)

Patricia Yaeger Ackerman	Jan Rohs Fouks	Kay Nelson Olson
Nancy Blake Anderson	Linda L. Fredrickson	*Linda Guenther Ottenbreit
Pamela Dibble Atwell	Reggie L. Gausman	Carole Otte Pesek
Marcia Stubbs Beese	Katherine M. Gornick	Leigh Cherry Paff
Mary Wise Berry	Judith Gunnerson Grev	Kathleen Strickler Reimers
Martha Doms Breard	*Jill Schwarze Grockett	Adrienne Levy Riley
Mary Kinzel Buchar	Marleen Tauer Hartjes	Eileen Leipus Rogers
Stephani L. Busian	Laura Peterson Hastings	James S. Rosen
Annie Onne Chow	Carol Bergmann Hoffman	Marjie Hajder Scahill
*David L. Christian	Sandra Stubstad Jenkins	Cynthia Nielsen Schumacher
Joan Esbjornsson Damhof	Zaiga Taube Johnson	Susan Menge Shafer
Rachel Posthuma Ecklund	Christine Erickson Langer	Kathleen Lang Shields
Judy Sivertsen Enroth	Deborah George Lawrence	Kathryn Loosbrock Thorngren
Linda Olson Feeney	Marilyn Neubauer Lueck	Sharon Grier Tweit
Jean Ernster Firl	*Victoria Martel-Chen	Nettie Conser Warwood
Catherine Leiendecker Foster	*Kathleen Ann Miller	
*Mary Jane Foster	*Nancy Follingstad Moore	

*Address unknown


**Deceased

If you are a member of either class, please make a special effort to attend the annual alumni banquet. The reservation form is on the last page. Classmates from 1946 and 1971 will be seated together, so you will have the opportunity to renew friendships.

We appreciate having the correct addresses of alumni. You can help by sending us any addresses of those graduates with whom we have lost contact. Thanks!


Medical Technology Student Demographics

Information shown below is from students in the 1995-96 professional program.



Home

22%	Twin Cities Metro
30%	Greater Minnesota
20%	other states
28%	other countries



Level of Education


Having previous degrees:

15%	bachelor of science
10%	bachelor of arts
3%	associate of arts

25


Age

Average age 24.5
Range 20-46



Gender

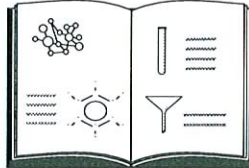
37%	male students
63%	female students



Transfer Credits

52% of students transfer credits from other institutions


Program Prerequisites



Science Courses (quarter credits)

General Biology	5
Human Anatomy	5
Math	8-10
General Chemistry	8-10
Organic Chemistry	12
Statistics	4
Physics	10

Admission Data



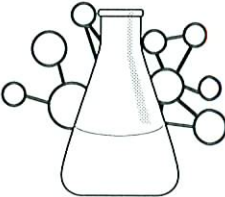
Class Size 27-30

Cumulative GPA
Class average 3.2
Minimum 2.5

Required Science Course GPA
Class average 3.0
Minimum 2.5

Ethnic Background
12% African American
37% Asian/Pacific Islander

Placement



1994 Class Employment Data

92%	Employed
62%	Employed in Twin Cities
8%	Employed in another state
56%	Employed in a hospital
12%	Employed in research
12%	Employed in a reference lab
8%	Employed in a clinic
4%	Employed in industry

Billie Anne Juni Wins Distinguished Alumni Award

Billie Anne Herranen Juni (B.S. 1970, M.S. 1978) was awarded the second annual Medical Technology Distinguished Alumni Award in May 1995. She was chosen by the Medical Technology Alumni Society for her contributions as the first allied health representative to the National Board of the University of Minnesota Alumni Association (1989-93); for her service on the Medical Technology Alumni Board (1990-92), serving as its president in 1989-1990; for her 25 years of service to UMHC; and for her long-term support of the profession and this program.

After her graduation in 1970, Billie Anne worked as a senior medical technologist in the mycology and parasitology section of the UMHC diagnostic microbiology laboratory. Since 1984, she has served as practitioner in the Infection Control Department of UMHC. She is responsible for the development and review of hospital policies relevant to infection control, nosocomial infection surveillance, infectious disease exposure management, outbreak management, consultation and education. Billie Anne is the author of 5 publications and 11 abstracts, primarily dealing with infection control.

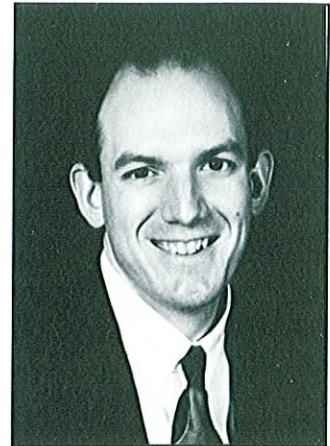
In addition to her professional accomplishments, Billie Anne serves as president of the congregation of Christ the King Lutheran Church, White Bear Lake. She and her husband Howard, who is active in pharmacy alumni activities, have two daughters.

Our congratulations to Billie Anne Juni—an exemplary professional, role model, and distinguished alumna!



Brad Feltis Wins Medical School Research Award

Brad Allen Feltis (Medical Technology, 1987) was one of two graduating medical students who received an Undergraduate Student Research Award at commencement ceremonies, June 2, 1995. The award of \$500 was made to “members of the senior class for the most meritorious papers on a research topic.”



Brad worked part time in the research laboratories of Dr. Carol Wells for four years while he was a medical student. During that time, he made major contributions to two refereed manuscripts. As second author, he was responsible for designing and executing many of the experiments for the following paper: Wells CL, Feltis BA, Hanson DF, Jechorek RP, Erlandsen SL: Oral infectivity and bacterial interactions with mononuclear phagocytes, *J Med Microbiol* 38:345-353, 1993. Brad was the first author on a subsequent manuscript: Feltis BA, Jechorek RP, Erlandsen SL, Wells CL: Bacterial translocation and LPS-induced mortality in genetically macrophage deficient op/op mice, *Shock* 2:29-33, 1994. This second manuscript resulted in the research award.

Dr. Feltis is currently a first-year resident in surgery at the University of Minnesota. He and Lori Horning Feltis (Medical Technology, 1987) became the parents of Jacob Gary, March 14, 1995.

On the Lighter Side...

Below are statements from science test papers and essays by junior high, high school and college students around the world. It is amazing what scientific principles can be created under the pressures of time and grades.

“Water is composed of two gins. Oxygen and Hydrogin. Oxygen is pure gin. Hydrogin is gin and water.”

“The moon is a planet just like the earth, only it is even deader.”

“Artificial insemination is when the farmer does it to the cow instead of the bull.”

“The body consists of three parts; the brainium, the borax and the abominable cavity. The brainium contains the brain, the borax contains the heart and lungs, and the abominable cavity contains the bowels, of which there are five—a,e,i,o and u.”

“Blood flows down one leg and up the other.”

“A permanent set of teeth consists of eight canines, eight cuspidors, two molars and eight cuspidors.”

Faculty Scholarly Activity and News

As in the past, members of the Medical Technology faculty have been highly productive in research activities in addition to their teaching and service responsibilities.

Karen Karni continues her research in management and education and presented some of her work in October at the Atlanta meeting, "Frontiers in Laboratory Practice Research," sponsored by the Centers for Disease Control and Prevention. **Carol Wells** has written six book chapters in addition to seven papers this past year. **Helen Hallgren** maintains her work on a grant concerned with the effect of advanced age on human memory and naive T cells. In June **Mike Tsai** attended an international meeting on homocysteine metabolism in Dublin, Ireland, and continues his research on hyperhomo-cysteinemia and cardiovascular disease. **Naomi Hanson** is working with Dr. Tsai on the genetic contribution of the enzyme cystathionine β -synthase to hyperhomocysteinemia. They presented their research in October 1995 at the American Society of Human Genetics meeting in Minneapolis. **Karen Lofsness** was awarded a grant from the F. A. Davis Company to prepare Macintosh and Windows versions of her computer instructional program, Hematography I, for distribution on CD-ROM.

Some selected publications/abstracts of our faculty are listed below:

Karni KR, Lang A, Beck JB: Why a School of Allied Health? *Journal of Allied Health* 1995;24:3:187-202.

Karni KR: Clinical Laboratory Personnel Employment Patterns: Hiring Practices and Quality Issues. *Frontiers in Laboratory Practice Research*, CDC, Atlanta, October 2, 1995. (Abstract)

Wells CL, **Jechorek RP**, Erlandsen SL: Inhibitory effect of bile on bacterial invasion of enterocytes: possible mechanism for increased translocation associated with obstructive jaundice. *Crit Care Med* 1995;23:301-307.

Wells CL, Juni BA, Cameron SB, Mason KR, Ferrieri P, Rhame FR: Stool carriage, clinical isolation, and mortality during an outbreak of vancomycin-resistant enterococcal infections in hospitalized medical/surgical patients. *Clin Infect Dis* 1995;21:45-50.

Wells, CL, van de Westerlo EMA, **Jechorek RP**, Erlandsen SL: Exposure of the lateral enterocyte membrane by dissociation of calcium-dependent junctional complex augments endocytosis of enteric bacteria. *Shock* 1995;4:204-210.

Jackola D and **Hallgren HM**: Defective cell-cell binding by lymphocytes from healthy, elderly humans: evidence for altered integrin-mediated function with age. *J Gerontol: Biol Sci* 6: B368-B377, 1995.

Degelau J, Guay D and **Hallgren H**: DHEAS as a supplement to influenza vaccination in aging adults. Presented at American Geriatric Society, Los Angeles, CA, December 1995.

Tsai MY, Garg U, Key NS, **Hanson NQ**, Suh A, Schwichtenberg K: Molecular and biochemical approaches in the identification of heterozygotes for homocystinuria. *Atherosclerosis*. In Press.

Tsai MY, **Hanson NQ**, Schwichtenberg K, Garg U: Amplification refractory mutation system to identify mutations in cystathionine β -synthase deficiency. *Clin Chem* 1995; 41:1775-7.

Tsai MY, **Hanson NQ**, Bignell MK, Schwichtenberg KA: Simultaneous detection and screening of T833C and G919A mutations of the cystathionine β -synthase gene by single-strand conformational polymorphism. *Clin Biochem*. In Press.

Dr. Douglas Christie Accepts Position in Miami



Doug Christie, a faculty member in the Division for over 10 years, resigned in January to take a position with Dade International Inc., in Miami, FL. Doug taught the blood bank portion of the spring quarter immunohematology course for senior medical technology students. His research focused on the pathogenesis of immune-mediated refractoriness to platelet transfusion therapy. Doug is currently group leader of Research and Development Hemostasis at Dade, and is responsible for directing development of new technology for assessing platelet function for diagnostic purposes, including prolonged bleeding and thrombosis. Dade International is the largest privately held diagnostic company in the world. The primary emphasis of the company is the production of products for the clinical laboratory setting.

Graduation Ceremony–1995

The graduation ceremony for the 73rd class in medical technology was held on October 7 in the St. Paul Student Center Theater. Piano music by Jonathan Hahm, father of one of the graduates, greeted families and guests as they arrived. **Shane McCoy**, president of the Medical Technology Student Council, welcomed those attending. **Douglas Christie**, associate professor, was chosen by the students to present the graduation address.

Senior **Matthew Spethmann** presented a slide show of classes, clinical rotations, and outside activities. **Robert Jechorek**, scientist, announced awards, scholarship recipients, and students who had been on the Dean's List, a recognition of academic excellence. Awards were presented to **Teresa Barela**, **Becky Huebner**, and **Kelly Ann Vaught** for achieving the highest grade point averages in the class.

Salli Clysdale, teaching assistant, led the graduates in reciting the Medical Technology Oath. Following the oath-signing ceremony, degrees were conferred by **Helen Hallgren**, associate professor. Remarks by **Karin Libby**, president of the Medical Technology Alumni Society, concluded the program. After the ceremony, a reception was held in the St. Paul Student Center Terrace.



The class photo was taken by **Anita Sime Jader** (class of 1977), whose hobby is photography.

Front row (left to right):

Susan Bie Ewanga, Limbe, Cameroon (West Africa)
Viet Nguyen, Minneapolis, MN
Tiffany Stuart, Elk, WA
Becky Huebner, South St. Paul, MN, with *high distinction*
Anita Louisa Oakman, Brooklyn Center, MN
Tanya Trang Nguyen, Minneapolis, MN
Anna Marie Hahm, Caledonia, MN
Maria Helene Brown, Eagan, MN, with *distinction*
Diem-Khahn Nguyen, Minneapolis, MN, with *distinction*
Nancy Olson, Edina, MN

Back row (left to right):

Stephen Wiesner, Neenah, WI, with *high distinction*
Tedla Abebe Belayneh, Ethiopia
Craig Cameron Stenzel, New Hope, MN
Jacquelyn Marie Andres, Antigo, WI
Shane McCoy, Inver Grove Heights, MN, with *distinction*
Matthew Spethmann, Northbrook, IL
Teresa Barela, Duluth, MN, with *high distinction*
Kelly Ann Vaught, Savage, MN, with *high distinction*
Michelle Marie Vaneps, Andover, MN
Not pictured: **John Hui**, Brooklyn Park, MN

Frieda Claussen Recounts “Growing Up in St. Paul”

Frieda Claussen, a pioneer in medical technology and lifelong resident of St. Paul, recalled her childhood, college, and early professional years in a recent article, “Growing Up in St. Paul.” Published in *Ramsey County History* by the Ramsey County Historical Society, Ms. Claussen’s account of turn-of-the-century family life and the beginnings of laboratory medicine makes fascinating reading.

The youngest of four children, Frieda grew up in the well-established Laurel Avenue neighborhood of St. Paul. Her father was the St. Paul city engineer, responsible for planning and coordinating the physical expansion of the rapidly growing city. He was also the designer of the famed spiral bridge in Hastings. Frieda’s mother was the daughter of a prominent St. Paul banker. Throughout the years, the Claussens hosted many neighborhood and social activities.

In her article, Frieda describes the everyday activities of a busy household in a time before automobiles, electricity, or running water. She also recalls her family’s holiday celebrations, with a traditional Christmas Eve supper of herring salad, the tree decorated with lighted candles, and carols sung in German.

After attending St. Paul Central High School, Ms. Claussen went to Smith College in Northampton, Massachusetts, where she graduated with a major in science and honors in chemistry. She returned to Minnesota to start a career in the new field of laboratory medicine. Because there were no formal courses in medical technology, Frieda attended summer school at the University of Minnesota Medical School. She started working in the Miller Hospital laboratory on December 1, 1920—the day the hospital opened—and headed the laboratory until she retired.

Throughout her remarkable career spanning more than four decades, Frieda Claussen was an active participant in the growth of our profession. She helped organize the Twin Cities Society of Medical Technology (in 1924), the Minnesota Society (MSMT), and finally the American Society (ASMT). She served as president of all three organizations.

By recording her personal and professional memories, Frieda Claussen has once again served us well. She continues to be a dedicated advocate of medical technology and an exemplary role model for laboratorians everywhere.

ASCLS Officers



The American Society for Clinical Laboratory Science (ASCLS) recently elected **Karen Karni** to the office of secretary/treasurer for the term 1995 to 1998. Karen is director of the Division of Medical Technology and is well known, both nationally and internationally, for her efforts on behalf of the profession.

Kathy Hansen is the 61st and current president of ASCLS. She is employed as the administrative director for the clinical laboratories of the University of Minnesota Hospital and Clinic.

From 1937-1938, **Frieda Claussen** served as the 4th president of ASCLS, then termed ASMT or American Society for Medical Technology. Ms. Claussen retired in 1963 after 43 years at Miller Hospital in St. Paul, MN, where she supervised both the clinical laboratory and the medical technology educational program.

A recent photograph shows Frieda, Karen and Kathy. Over the years, ASCLS has been fortunate to have three such capable and dedicated leaders from Minnesota.

Clinical Laboratory Science Master's Program

The Clinical Laboratory Science master's degree program is a multidisciplinary program designed to prepare the medical technologist or basic science undergraduate for a career in research, teaching or industry within a specialized area of laboratory medicine. Students concentrate their studies in one of six major areas: clinical chemistry, hematology, immunohematology, immunology, biochemical genetics or microbiology. Twenty students are currently enrolled in the program. Four students finished their degree programs this year.

- **Lu Tang**, advised by Dr. Douglas Christie, completed her studies of "Molecular Characterization of HLA Antibody-Mediated Platelet Activation." This work was presented at the American Society for Hematology meeting in Seattle in December of 1995, and has been submitted for publication.
- **Muhadditha Mehdi** successfully defended her thesis research, "Insensitivity of Stool Toxin A and Cytotoxin Assays in Detecting Stools Which Contain Toxin-Producing Strains of *Clostridium difficile*." Her adviser was Dr. Keith Willard.
- **Dale Cooper**, advised by Dr. Connie Gebhart, received his degree in March 1996 following completion of his thesis research, "Proliferative Enteritis in the Hamster, Horse, Deer and Ostrich; Detection and Characterization of *Lawsonia intracellularis*." Dale is also nearing completion of a three-year veterinary residency in Laboratory Animal Medicine.
- **Tao He** presented his research, "Antibody-induced Resistance to Complement-mediated Killing in Xenogeneic Endothelial Cells," at his final oral examination. Dr. Agustin Dalmaso was Tao's adviser.

Clinical Laboratory Science students have also been active in presenting their work at national and international meetings. Presentations given during the past year include:

- **Michelle Bignell**, Schwichtenberg, DA, Hanson, NQ, Garg, UC, Tsai, MY: Screening for Mutations of the Human 5,10-methylenetetrahydrofolate Reductase Gene. Presented at the American Society of Human Genetics meeting, October 1995, Minneapolis, MN.
- **Dale Cooper**, Gebhart, CJ, Swanson, DL: Specific Amplification of Ileal Symbiont Intracellularis from Several Animal Species with Proliferative Enteritis. Presented at the 8th International Workshop on Campylobacters, Helicobacters, and Related Organisms, July 1995, Winchester, UK.
- **Dale Cooper**, Delong, D, Gillett, CS: Analgesic Efficacy of Acetaminophen Elixir Added to the Drinking water of Rats. Presented at the 46th National Meeting of the American Association for Laboratory Animal Science, October 1995, Baltimore, MD.
- **Lucia More**, Litz, CE: A Nested PCR Technique for the Detection of Parvovirus B19 in Fresh and Archival Bone Marrow Specimens. Presented at the Society of Armed Forces Medical Laboratory Scientists annual meeting, March 1996, Washington, DC.
- **Lisa Pierson**, Allauzen, S, Kravis, B, Daniels, L, Rosenberg, A: New Methodology to Measure Average Affinity of Specific IgG Response in Patients with Allergic Disease. Presented at the American Academy of Allergy, Asthma and Immunology annual meeting, March 1996, New Orleans, LA.



Did You Know...???

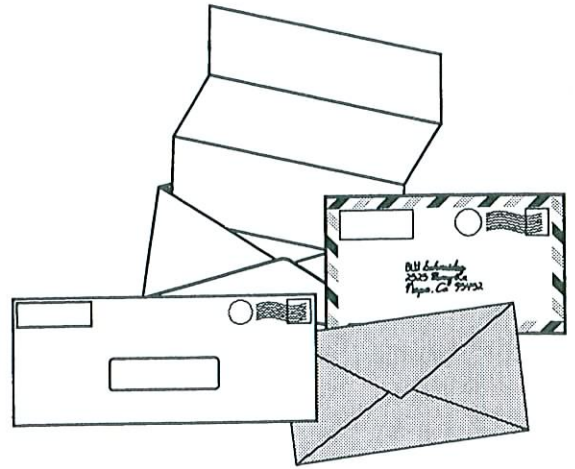
The Department of Laboratory Medicine and Pathology has a home page on the World Wide Web. For those who are interested, the address is: <http://www.borg.labmed.umn.edu> The home page for the University of Minnesota is located at: <http://www.tc.umn.edu> Both of these pages contain a lot of information and have links to other interesting sites.

Let's Keep in Touch

Have you often wondered what has 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 that will give attendees the opportunity to find out what their colleagues are doing.

Each year, the "Let's Keep in Touch" display is a big success 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.) Submitted information will be displayed on bulletin boards at the banquet. Whether you can 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 appreciated, and the pictures will be returned if you wish. Otherwise, we will place the photos in your student file. Yes, we still have a file on each of our graduates!



Name: _____ (_____) Year of Graduation: _____
Name while in school (if different)

Address: _____

Phone Number: _____

Career Information: _____

Family Information: _____

Special Interests: _____

Please mail to: Division of Medical Technology
Box 609 UMHC
420 Delaware Street S.E.
Minneapolis, MN 55455-0374

Annual Banquet News

for Alumni and Friends

Join us at JAX Cafe for this year's banquet. Friends and spouses are welcome! JAX Cafe is located about three miles from the University, and there is ample free off-street parking.

Date: Monday, May 6, 1996
 5:30 p.m. Social Hour (with cash bar)
 6:30 p.m. Dinner with program to follow

Place: **JAX Cafe**
 1928 University Avenue N.E.
 Minneapolis, MN (612) 789-7297

Menu: Roast Sliced Ribeye
 Oven-browned potatoes
 or
Honey Dijon Chicken
 Rosemary new potatoes
 or
Baked Filet of Salmon
 New potatoes
 Salad, vegetable, bread basket, beverage and dessert

Note: Tables are reserved for the honored classes: 1946, 1971, and 1996. For others who wish to sit together, we suggest you arrive a little early to meet your dinner mates and choose your seats.

Cost: Alumni Association Members \$24.00
 Nonmembers \$25.00
 Seniors (Age 60 and over) \$22.00

Program: To be announced

Special recognition will be given to the classes of 1946 (50 years), 1971 (25 years), and to the 74th graduating class of 1996.

Deadline for reservations: April 26, 1996. Send your reservations in early because seating is limited.

This is the only mailing that you will receive for the Medical Technology Alumni Society Annual Banquet. Please mark your calendar, and return the reservation form below.

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

I enclose \$_____ as payment. Roast Ribeye _____ Honey Dijon Chicken _____ Baked Salmon _____

Please reserve _____ seats for me at the 1946 table.

Please reserve _____ seats for me at the 1971 table. M.A.A. Member: Yes ___ No ___

Name (please print) _____ Class _____ M.A.A.# _____

Address _____

Make check payable to: Medical Technology Alumni Society

Mail by April 30, 1996, to: Division of Medical Technology
 Box 609 UMHC
 420 Delaware Street S.E.
 Minneapolis, MN 55455-0374

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 ASCLS or MNSCLS, less of anything? We would greatly appreciate your feedback on recent issues and suggestions for future articles. *Tech's Talk* is really for you—we need your input.

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

Editor of *Tech's Talk*
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