

Division of Medical Technology
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TECH'S TALK

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	Barbara Bruer	Karen Karni	Pat Solberg
	Douglas Christie	Jean Linne'	Cheryl Swinehart
	Stella Cook	Karen Lofsness	Carol Wells

We hope you enjoy the 1988 issue of Tech's Talk - our 42nd consecutive year of publication. We would like to thank those who returned the alumni survey form in last year's issue. The information received was interesting and valuable to us for a variety of reasons. For a summary of the survey results, see the article in this issue. As always, we welcome suggestions for articles and comments on what you would like to see in future issues. Write or call the Medical Technology office with your ideas.

DONNA MEYER, U OF MN ALUMNUS SERVES AS ASMT PRESIDENT, 1987-1988

Donna Messerli Meyer, University of Minnesota Medical Technology B.S. graduate in 1964 and M.S. graduate in 1968, is the 1987-1988 President of the American Society for Medical Technology (ASMT). Dr. Meyer also earned a Ph.D. in Community Health Services from the University of Texas in 1984, and currently holds the title of Executive Assistant for Product Development, St. Joseph Hospital, Houston, TX. From 1964 through 1969, she worked in the clinical laboratories of the University of Minnesota Hospitals and Bethesda Lutheran Hospital.

Donna has been active in ASMT for a number of years, and has served on its Board of Directors since 1983. In June, 1987, she was elected national President. Among her many awards include membership in Alpha Mu Tau, 1985 ASMT Board Award, TSMT Member of the Year, and Outstanding Young Woman in America.

Dr. Meyer joins a number of distinguished U of MN alumni who have also served as national President of ASMT. These individuals include Ruth Hovde (1954-1955), Ruth Heineman (1959-1960), Verna Rausch (1966-1967) and Nancy Preuss (1975-1976). Other Minnesotans who have held this high office include Frieda Claussen (1936-1937), Lucille Wallace (1947-1948), Sadie Cartwright (1952-1953), and Mary Nix (1953-1954). Thus, since its inception in 1933, ASMT has had five University of Minnesota graduates and nine Minnesotans as Presidents of the Society.

We of the University are proud to claim Dr. Meyer as one of our own. She has served the Society and our profession with enthusiasm, grace, and decorum.

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 1938 (50th anniversary)

Lois Johnson Bailey	Artis Leistiko Lott
*Catherine Wilkins Ballou	Margaret Stevens Loyd
Ruth Gibb Barron	*Margaret Taylor Lundblad
Fern Waterson Bates	*Miltza Peinovich Luper
Jane Roedell Bayliss	**Anitra Vadheim Maves
Ann Nylander Broadwell	Dora Jean McClintock
Betty Comfort	Barbara Lewis Moen
Lorraine Bardsley Dahl	Frances Fletcher Moore
Mildred Patterson Deans	Abner Neeley
Frances Rosenblum Firestone	Mary Long Ness
Arlene Burglove Frost	*Helen Johnson Osborne
**Erika Rogalsky Gunderson	*Marcella Frazee Peterson
*Marjorie Pagenkopf Hines	Betty Rich Riley
Ruth Hovde	Ruth E. Robinson
**Betty Mitchell Kendall	Harriette Anderson Schneider
*Marilyn Greenberg Koff	*Ethel Segal
*Goldie Lee Kozberg	**Daisy Austin Tweedy
Mary Wilson Lohman	Martha Bowler Waterstradt
C. Rosemary Nostdal Longmire	Louise Combs Weber
Marjorie Dale Looman	Ione Presnall Yarbrough
Marjorie Ward Lostetter	

Class of 1963 (25th anniversary)

Helen Kaplan Abramson	Idella Seiberling Larson
Geraldine Havrilla Anderson	*Patricia Iverson Lehman
Sandra Palmer Appelen	Dorothy Trossen Mankvitz
*Karen Corder Brown	Jean Michales Marble
Mary Jo McCann Carlson	Kathleen Kryewinske-Nadreau
Eddie Goldstein Clark	Sandra Viker Pearson
Dzintra Dombrovskis	Cleone Miller Peterson
Virginia Dahlberg Dronen	Thelma Jean Purcelli
Karin Johnson Grossman	Linda Osgood Schaefer
Kathryn Little Hager	Joyce Larson Schampel
Marilyn Wainio Halonen	Audrey Arline Smart
**Joan Wallestad Henderson	Marilyn Johnson Stall
Sandra Munter Holm	Susan Sprague Stroebel
Ferol Bangstad Hylander	Kathleen Olson Thompson
Karen Soderberg Karni	Michael A. Tischler
Marlys Breberg Keefe	JoAnn Grover Wallgren
*Carol Klessig	Gwen Varner Wildermuth

*Address unknown

**Deceased

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

FACULTY NEWS

Many special events highlighted the careers of some of our faculty this past year. **Karen Lofsness** (hematology) served as a consultant for a unique documentary on the bone marrow transplant program at the University. The documentary was produced and directed by Otteau Christiansen of Video Syncrasies. Christiansen, a bone marrow transplant recipient who formerly had chronic myelogenous leukemia (CML), wanted to do something to promote this life saving technique that had so benefited him. Karen did the photomicrographs on patient blood and bone marrow samples, both pre- and post-transplant, and also helped consult on the project. The documentary, which will be aired this spring, should be worth seeing. In addition, several University faculty members were featured in the December 1987 issue of Laboratory Medicine for their work with transplantation. In particular, **Larry Bowers** (chemistry) has an excellent article on therapeutic drug monitoring for transplant patients which focuses primarily on some of the controversial aspects of cyclosporine monitoring. Larry also had the opportunity to spend a single quarter leave at Cornell University, Ithaca, NY, doing tandem mass spectrometry with anabolic steroids and cyclosporine.

Research continues to have a strong emphasis in the Division with several members of the faculty having opportunity to present their findings at national and international research conferences. In particular, **Carol Wells** (microbiology) attended conferences in Versailles, France, The Hague in Holland, and a very special symposium in Monte Carlo. Although tempted by all of this international attention to her work, we think Carol will stay in Minnesota since she did not like the weather in The Hague, felt overwhelmed by the grandeur of the Palace of Versailles, and wasn't certain how a scientist would fit into the rich and famous life style of Monte Carlo. Another traveler, **Doug Christie** (immunohematology), attended the IX International Society of Thrombosis and Haemostasis meetings in Brussels in July where he presented two papers on his work in drug-induced blood dyscrasias. Since this was his first trip to Europe, he also managed to work in a side trip to The Netherlands for a visit with relatives and to give a guest lecture for The Netherlands Red Cross in Amsterdam. **Karen Karni** (Program Director) presented a workshop and talk at the VI Congreso Nacional II Internacional de Laboratorio Clinico in Panama City, Panama, in February 1987. Her trip was sponsored by Project HOPE, for which she has served as a short-term consultant, working to re-establish the Medical Technology program at the University of Panama. The program is now underway, with 18 students in the junior class. All in all, our faculty have been very active in establishing national and international recognition for their research and administrative accomplishments.

NEWSWORTHY ITEMS FROM PREVIOUS TECH'S TALKS

1947 - Ancker is going modern; last year they purchased two new Evelyn Photoelectric colorimeters; one for hematology, and one for Chemistries. The present instructors at Ancker are: Elizabeth Schneider '45, head of BMR-ECG Lab, Doris Hanson '45, head of Bacteriology, and Mary Louise Souther '46, of Chemistries.

1955 - On October twenty-first and twenty-second, 1954, the formal dedication of the Mayo Memorial Building was held. This dedication was the fulfillment of an idea that began in 1939 when Governor Harold E. Stassen appointed a committee to propose a memorial for Doctors Charles and William Mayo of the Rochester Clinic.

1964 - Tuition and regular fees at the U for a resident is now \$110 per quarter so you see education, even public, tax-supported, is not cheap.

1978 - This June the 2000th student will receive a baccalaureate degree in Medical Technology from the University of Minnesota! We're proud of this accomplishment and trust that you are too.

1983 - Ruth Hovde, Director of the Division of Medical Technology, will receive an honorary doctorate degree from Thomas Jefferson University in Philadelphia, PA in June. To the best of our knowledge, Ruth is the first medical technologist in the country to be so honored.

WHAT EVER HAPPENED TO.....???

Ione Pressnall Yarbrough, class of 1938, accumulated a total of 38 years of laboratory experience before her retirement in 1983. Ione's first employment after graduation was in Elgin, IL, followed by several years at Fairview Hospital in Minneapolis. During the war, she worked at Bushnell Army Hospital in Brigham City, UT, a 5000 bed hospital housed in 75 buildings. Although the laboratory was located in one building, a lot of time was spent travelling to the other areas to draw blood. From 1946 to 1950, Ione was supervisor of the TB culture laboratory at the Mayo Clinic in Rochester. Upon moving to Minneapolis, she became the supervisor of the Rh laboratory at the Minneapolis Memorial Blood Bank for a year. From 1962 to 1978, Ione worked at the Glen Lake State TB Sanitarium, doing routine laboratory work for patient care, including a large amount of TB bacteriology and drug sensitivity testing. In addition to the routine patient care work, the laboratory was involved in many public health service studies. She was laboratory supervisor at Glen Lake for the last few years. In 1978, following her mandatory retirement as a state employee, Ione worked part-time at the same laboratory, which had been taken over by Lufkin Laboratories as one of their satellite labs.

Margaret Strane, class of 1940, was trained in both general laboratory work and X-ray. Although now retired and living in St. Paul, MN., she can look back on two rather exotic employment experiences. She did both laboratory and X-ray work on a Navajo reservation in Arizona from 1949-1960. From 1962 until retirement in 1983, she worked in a small Christian hospital in Thailand. She came back to the U of M for refresher training in Medical Technology and presented a program to the then current students regarding her work and life there.

Shirley Nordgaarden Orth, class of 1956, has retained her interest in the health-care field, although her emphasis has changed from the laboratory to evaluation and marketing of health care systems. Following graduation, Shirley worked in a variety of laboratory positions, and returned to the University in 1964 as a Teaching Assistant and Assistant Laboratory Administrator. In 1972, she went to Honeywell as a developmental engineer for computerized laboratory instrumentation and laboratory computer systems. Following this, she worked for the Foundation for Health Care Evaluation as Marketing Manager, developing a DRG information system for hospitals. In 1984, Shirley became the Manager for New Business Development with Health Risk Management in Minneapolis, designing and implementing a nationwide system of managed health care programs for large employers, including utilization review, quality assurance and second opinion programs. Shirley started her own company, MediStar, in 1987. She provides consulting services to hospitals and health care corporations; developing, evaluating and implementing programs for managing costs and assessing quality of health care.

Janet M. Hiller, class of 1968, worked briefly in the bone marrow transplant microbiology laboratory at the U of M before a trip to Europe and a brief sojourn working in San Francisco. She worked at George Washington University in Washington D.C., and rose to the position of Head Technologist in Chemistry under Dr. Mario Werner. She spent three years ('73-'76) in another cosmopolitan city working at the New England Deaconess hospital in Boston with Dr. Bradley Copeland. Janet returned to Washington, D.C., and worked for ASCP as an associate scientist helping Dr. Edward Gall catalog cancer diagnoses. In addition to being named Medical Technologist of the year in the D.C. area, she earned an MBA degree and is now working for a firm called ANSER in Arlington, VA., that contracts work for the Department of Defense, (DOD). Initially she was an analyst working on Health Information Systems for DOD hospitals, but with the current administration's emphasis on strategic weapons, she is now an Operations Research Analyst working on Defense Analysis and Informations Technology.

Rita M. Garvick Dvorak graduated in the class of 1974 and worked for a year at Golden Valley Medical Center. She spent the next eleven years ('75-'86) doing general laboratory work at Bethesda Medical Center. During her last year there, she worked evenings at the laboratory and days as a carpenter. Now, she is self-employed with her own business, Emerald Remodeling. Besides remodeling, including carpentry, tiling, and painting, her firm, which has employees of both sexes, also does furniture repair and cabinetry.

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Whatever happened to....continued

Roselyn Wynne Tacheny, after working as an MLT in Grand Rapids, MN, decided she would like to continue her education, and graduated from our Medical Technology program in 1981. Following graduation, she worked in Microbiology at St. John's Hospital for a year. Rose then accepted a position as a user support tech for Compucare and Health Central, Inc. during installation of computers in Unity and Mercy Hospitals. She did systems analysis of current usage, was involved in installation of the hardware and user training. In 1984, Rose began working as a medical technologist at the Public Health Service Hospital in Red Lake, MN and in 1986 moved to the United States Public Health Service Indian Hospital in Cass Lake, MN. The laboratory employs three full-time medical technologists, and one part-time person. A substantial portion of the work load is related to the large number of diabetics in the population. Rose also has the opportunity to get involved in some teaching of the use of home care products, such as Chemstrips. She enjoys the personalized atmosphere of a small hospital, but misses the stimulation of seminars and educational opportunities offered in a larger institution.

SALARY SURVEY

In a 1987 nationwide salary survey of six allied health disciplines, from 252 programs and 83 four-year colleges and universities, we found the average yearly starting salaries of each profession to be as follows:

Physical Therapy	\$25,000	Occupational Therapy	\$22,500
Medical Records Admin.	\$20,500	Medical Technology	\$20,000
Dietetics	\$20,000	Radiologic Technology - (two-year program)	\$18,000

In the Twin Cities, the average starting salary for a Medical Technologist is approximately \$21,500.

A historical review of salaries from years past, provided by Donna Wieb, UMHC Laboratories Administrative Director, shows these minimum hourly salaries for various health professionals at the University Hospital and Clinic:

	<u>1945</u>	<u>1963</u>	<u>1968</u>	<u>1972</u>	<u>1976</u>	<u>1980</u>	<u>1984</u>	<u>1987</u>
Dietitian	0.81	NA	2.91	4.07	5.46	7.12	8.70	9.61
Radiologic Technologist	0.92	NA	2.30	3.09	4.25	6.05	7.94	8.55
Physical Therapist	0.87	NA	2.91	4.07	5.24	6.63	9.29	10.29
Gen. Staff Nurse	0.81	2.30	2.91	3.47	5.04	7.12	9.29	10.31
MT/CLT (Stud. Tech. Sup)	1.04	2.69	2.91	4.07	5.24	6.87	8.70	10.37

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

Thus, while national figures show medical technologists at the lower end of the salary scale, this is not true at UMHC. And, for all of you who recall starting out at \$150/month, we know from which decade you were a graduate.

SOME THINGS CHANGE - SOME REMAIN THE SAME

It is said that medicine has both a changing and an unchanging face: nowhere is this more evident than in the field of Medical Technology. High-tech analyzers now identify specimens by reading bar codes, and in a few seconds give us more data than we can assimilate. Pathogens in spinal fluid are identified in minutes by their antigenic structure; molecular genetics and DNA probes are assuming a diagnostic role; yet we continue to perform many of the old die-hard tests. It still takes an hour to read a sedimentation rate, and sputum cultures are usually not completed in less than two to three days.

One of the biggest changes that has taken place in the clinical laboratories recently is in our policy for handling clinical specimens (or biohazards, as they are now classified). Gone forever is the Ostwald pipette; in fact, mouth pipetting of any sort is forbidden. All persons handling blood or other body fluids in the laboratory are required to wear gloves. Phlebotomists now wear gloves when collecting blood from everyone, not just from "high-risk" patients. Needless to say, this has created a tremendous shortage of gloves.

We are not only experiencing internal changes, but our external surroundings are also in transition. Stub and Herb's is still on the corner of Oak and Washington, and as popular as ever with the students. However, within a half-block radius of that corner are three (yes - 3!) Vietnamese restaurants. The grassy field of Memorial Stadium will soon be occupied by a multimillion dollar sports complex - including an Olympic-sized swimming pool. The brick stadium itself has been spared so far, but its days are probably numbered.

Although the face of Medical Technology at the University is changing as a whole, our individual faces remain much the same. We enjoy seeing the faces of our graduates and other friends, and invite you to stop by and visit us the next time you are on campus.

UNDERGRADUATES IN RESEARCH

Congratulations to **Tammy LeGeault Miller, Tina Putzier, Sheryl Luthi, Lori Wischnack, Charlotte Wetzel, and Ann Sullivan**, undergraduate Medical Technology students who successfully competed for 1987-1988 awards from the University's Undergraduate Research Opportunity program (UROP). UROP is a competitive program which offers financial support to students for a 120-hour research project undertaken in collaboration with a faculty member.

Faculty sponsors for these students included **Esther Freier** and **Naomi Hanson** (chemistry), who advised **Tammy** in her investigation of apolipoproteins in cardiovascular disease, and **Charlotte** and **Ann** in their measurements of homovanillic acid and vanilmandelic acid by dual column capillary gas chromatography. **Walid Yasmineh** (chemistry) sponsored **Tina** and **Sheryl** who studied guanase as an indicator of hypoxia and lactate dehydrogenase isoenzymes, respectively. **Doug Christie** (immunohematology) advised **Lori** in determination of the molecular mechanism of drug-induced thrombocytopenia.

UROP has been a worthwhile experience for both students and faculty. The students' work has provided data for publication of research articles, abstracts to scientific meetings, and additional grants. Students participating in the program have been enthusiastic about it. **Tammy**, whose work on apolipoproteins was published in the October, 1987 issue of Clinical Chemistry said, "The research I did was rewarding to me in terms of knowledge, experience and confidence." **Charlotte** summed up her feelings about UROP: "I think the UROP program is great. It gives students a chance to work closely with professors and to learn to work independently. It's a great way to gain experience in clinical lab work, research, and in the skill of writing."

Four of the students have submitted abstracts for possible presentation at the 1988 National Conference on Undergraduate Research, in April at the University of North Carolina at Asheville. We wish these students success, and know that the quality of their research work and abstracts will reflect highly on this program.

CLINICAL LABORATORIES 1945 - 1987

Many changes have taken place in the clinical laboratories since the first Tech's Talk was published in 1947. In addition to the number of laboratories increasing from five to twenty separate clinical laboratories, the number of tests performed has increased remarkably. Shown in the table below are some representative figures for 1945, 1967 and 1987.

U of MN - Laboratories	# Tests/Year		
	1945	1967	1987
Blood Bank	26,335	282,051	329,388
Chemistry	31,050	318,607	831,164
Main Chemistry*	67,544		
Coagulation		12,566	194,304
Hematology		169,555	205,888
Special Hematology		4,666	16,542
Diagnostic Microbiology	12,555	68,757	171,136
Surgical Pathology	6,414	40,192	180,628
Immunology		12,424	35,404
Outpatient		48,244	146,196
Total	143,898	957,062	2,110,650

*Main chemistry statistics for 1945 may also include tests done in coagulation and hematology.

The number of technologists performing these procedures in the clinical laboratories has increased from approximately 16 in 1945, to 90 in 1967 and to 510 in 1987. These figures include technologists in all of the clinical laboratories, some of which are not included in the table above.

Blood bank attributes its increased number of tests to new procedures being added all the time; particularly HIV and hepatitis testing to ensure the safety of the units being distributed. Special hematology is doing more stains and procedures with bone marrow. Outpatient tests have dramatically increased due to the increased number of "outpatients." It has been reported that approximately 20% of all laboratory tests in the clinical chemistry lab were a result of transplantation activities. And of these, only 30% were inpatients.

The University hospital continues to make healthy progress. The census has continued to be in the 65% range. Robert Dickler, Director of Hospital Administration spoke to the Laboratory Medicine and Pathology faculty about the financial health of the institution. To remain strong, the UMHC must continually be responsive to the rapid changes in health care financing and third party payers. The University will continue to support out-state Minnesota and its surrounding states as well as the metropolitan area as a tertiary care center.

SPRING EVENTS FOR SENIORS

This year Senior Medical Technology students will be the guests of the Medical Technology Alumni Society at the Annual Banquet April 21, 1988. Special invitations will be sent by the Alumni Society to the seniors; alumni attending the banquet will have the chance to meet them.

The Graduation and Oath Ceremony will be held on Sunday, June 5 in Moos Tower 2-650 (East Bank) at 1:00 p.m. Dr. Michael Steffes, Director of the Clinical Laboratories, will deliver the commencement address, and a reception for families and friends will follow the ceremony.

Please join us in congratulating the class of 1988.

MEET OUR TEACHING SPECIALISTS!

The Division of Medical Technology would like to pay tribute to our loyal teaching specialists, all of whom are graduates of our program. The number of years these MTs have taught in our preclinical teaching labs totals sixty-six--that's right, sixty-six years! (These individuals have assisted with the lab medicine course for second year medical students as well.) The joy of working with students, plus keeping up to date academically is the challenge and benefit of these positions. Setting up the labs, keeping the lab exercises running smoothly, troubleshooting instruments, grading papers and tutoring students are a few of the duties of the teaching specialists.

Sarah Hastings Clysdale began teaching in 1974 in the clinical chemistry course and has been at it ever since. She is a member of ASMT and is on the program committee for MSMT's Spring Meeting. She has two daughters, Beth - 14 and Karen 12 years of age. Husband Joe works at Unisys and also sells used computer hardware and software. Salli's hobbies include quilting and aerobics. She is the secretary of the St. Mark's School Board in St. Paul as well. Salli is currently working in clinical chemistry at UMHC and has taken on extra duties of assisting in all hospital corridor deliveries--babies that is, (ask Salli about that one)--and participating in the pediatric venipuncture team.

Stella Sobotzak Cook, after working in clinical chemistry at Northwestern Hospital, came to the University in 1979. Her versatility and broad base of knowledge became apparent as she took on duties in the clinical chemistry, hematology and hematology morphology labs. She currently works in the UMHC clinical chemistry labs. Her husband Marv has been a long time faculty member at the University Electrical Engineering department. Her two daughters, Anne, second year at St. Benedicts College and Barb, a senior at Benilde High School are both competitive swimmers. Stella volunteers at Minneapolis Birthright and Minnesota Alumni Association, having served as President of both organizations.

Joan Davis Feickert has been a long time teaching specialist for MT, beginning in 1974. She has taught in the hematology and immunohematology labs. Her love of teaching has lead Joan to enroll in a Ph.D. program in education, having earned an M.A. recently. As you can well imagine, one of her hobbies is "paying tuition." Joan has two daughters, Robin who is heading to St. Olaf College this fall and Heidi who is a 16 year old junior in high school. Her husband Robert is a painter and decorator as well as an OSHA painting instructor for the VoTec system. Joan is currently employed by the Medical School Curriculum Affairs Office. One phase of her job is training physician residents how to teach. She loves traveling and reading but does she have time for that now? Not much!

Susan Kooda Feist is our newest teaching specialist, joining us in 1986. She worked at Abbott-Northwestern Hospital in clinical chemistry for ten years before joining our clinical chemistry teaching staff. Sue has two sons: Ben is six and a first grader and Chris is nine and in fourth grade. Her husband Richard is a physician in practice at White Bear Lake. Her hobbies include knitting, cross stitch, piano playing, calligraphy and high calorie cooking.

Francene Press Horwitz has been a teaching specialist in clinical chemistry and urinalysis since 1983. She is a member of ASMT and head of the Social Committee for the MSMT Spring Meeting. Her husband Tom is a management consultant specializing in communications. Fran is pursuing the French language and is a member of the French Alliance, travelling to France to practice her French and enjoy the cuisine. Fran is a cooking instructor as well as a gourmet cook, specializing in chocolates and desserts, special treats which she often shares with us. She is a board member of Friends of the St. Paul Chamber Orchestra and enjoys aerobics and fast walking. Currently Fran is working in clinical chemistry at the VA Medical Center.

Joan Winter Schmidt began teaching in hematology in 1980, and has also assisted in the immunohematology course. Prior to becoming a teaching specialist, she worked for many years at Abbott-Northwestern and taught at the Medical Institute of Minnesota. She became the full-time manager of our teaching laboratories in 1985. She is active in MSMT and church activities. Joan's husband Lloyd owns a piano refinishing business. Her children are all grown; Deanne is in California, married and has three children, Karla is in Colorado and will begin Law School in the fall,

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Teaching Specialists, con't.

David is a second year student at the University in Computer Science. Joan's interests include running marathons, cross-country ski racing, sailing, canoeing, and she has just begun a new sport - speed skating!

Lila Wicklund Wengler joined the teaching specialist ranks in 1976 in the immunohematology course. She began her career at the U of MN Hospitals Blood Bank and stayed there until the Navy called her husband East. For a time she was supervisor of labs at the VA Hospital in Washington, D.C. Lila has four children: Mike is a medical student at the U of MN, Kathy has her own thermography business in Minneapolis, Kirsten is a member of the U.S.A. swimming team travelling worldwide, and Robbie an eighth grade teenager! Her husband Bob is an orthopedic surgeon. Wengler's cabin on Lake Mille Lacs is enjoyed by the whole family for fishing and many good times.

MEDICAL TECHNOLOGY ALUMNI SOCIETY

The Medical Technology Alumni Society is a constituent part of the Minnesota Alumni Association. Its Board of Directors works actively to conduct the affairs concerning medical technology alumni and students - - to assist in recruitment of high ability students to the University of Minnesota (specifically to the program in Medical Technology) and to improve the student experience at the University of Minnesota; to support college and University fund-raising activities; to encourage membership in the MAA; to promote the professional interests of medical technologists and to cooperate with other professional organizations in promoting a high standard of professional service; and to work to benefit the program in medical technology at the University of Minnesota. The Board of Directors plans two main events each year - - the Annual Fall Program and the Spring Banquet and Meeting. Both events are described elsewhere in this publication. Board members serve for a period of three years (and sometimes more); the current Board of Directors and Officers are:

Jean Jorgenson Linne, '58 BS	President
Karen Munson Ringsrud, '62 BS	Vice President
E. Mary Skerik Damron, '34 BS	Secretary
Kay Nelson Olson, '71 BS	Past President
Karen Soderberg Karni, '63 BS, '83 Ph.D.	Ex-Officio
Dolores Gullickson Harvey, '45 BS	
Billi A. Herranen Juni, '70 BS	
Karen Wrabeck Kok, '58 BS	
Betsy Swanke, '83 BS	
Lauren Resner, '82 BS	
Eileen Leipus Rogers, '71 BS	
Leslie Mackichan	Student Representative

FACULTY AND STUDENTS ON TV

Several of our faculty had opportunities to be on television or to be filmed as part of a video during 1987. **Doug Christie** (immunohematology) was interviewed by CNN Cable News for his research and development of a new testing procedure for detection of drug-dependent platelet antibodies. He said it was a great experience, although he wasn't quite prepared for the national exposure that followed and the number of calls from concerned patients and physicians. **Karen Lofsness** (hematology) did a public service announcement for the Armed Forces Network. If you happened to be at a US military base somewhere in the world over Labor Day, you may have seen her lecturing to a laboratory class on the proper use of a microscope. **Marty Bazluke** and the junior chemistry class were featured in a unique video that was developed as part of Governor Rudy Perpich's promotional film to highlight Minnesota as a "high tech" state. The video will be aired nationwide.

STUDENT HIGHLIGHTS

Students are the reason we exist at the University of Minnesota, and each year we are pleased with the talents and gifts our students bring with them. When talking to our students, all have different goals in mind but the common goal shared by all is the desire for more education. Meet some of the people currently enrolled in the program.

Linda Johnson is a junior from Richfield. She transferred to the University from Normandale Community College. Linda likes to ski, skate, and run and also enjoys cross-stitch and sewing. She works part-time on the UMHC venipuncture team and looks forward to learning laboratory work. The new MT curriculum provides her upper division biology courses that she enjoys and will put to work in her future education.

Heena Patel is a real world traveler. She was born in Africa but calls India home. She arrived in this country in 1985 and did all of her pre-med tech studies at the University. She has been active in community projects such as the Festival of Nations. Heena plans to work in a hospital lab after graduation, before deciding on a plan for further education.

Ry Rybar hails from Cambodia. She came here in 1981 and attended John Marshall High School and Rochester Community College. Ry is married and enjoys skiing in the Minnesota winters. She also enjoys hiking and reading. Last summer Ry worked at the Mayo Clinic. She would like a career in hematology or perhaps medical school is in the future.

Kris Arsenault is the oldest of eight girls in her family and has spent all of her college career on the campus of the University of Minnesota. She currently works part-time for 3M in the industrial consumer research and development department. Kris likes to read and attend movies. She hopes to get a job in research and development after graduation.

Steve Benson is from Osseo. He has attended the University all four years and finds the program challenging. In his spare time he enjoys golf and long walks. After graduation Steve plans to find a job in a clinical laboratory perhaps in the blood bank area. Five years down the road he would like to be in graduate school or medical school, or working as a tech.

Beth Young took a longer road to the University. Beth is from Pequot Lakes and attended Brainerd Community College. She then attended Duluth Vo-Tech and became a CLT before deciding to get a degree in Medical Technology. Beth likes to swim, run, and play softball. She also likes live theater and has done some acting. She currently works week-ends in the UMHC hematology lab and plans to work in a hospital laboratory following graduation.

PAT SOLBERG RECEIVES GORDON L. STARR AWARD

Patricia Solberg, Administrative Associate in Medical Technology, was one of 23 recipients of the Gordon L. Starr Award for "outstanding service to the students of the Minneapolis-St. Paul campuses, academic year 1986-1987." Awardees were chosen by members of the Minnesota Student Association.

Gordon L. Starr was the Director of Planning for Coffman Memorial Union. For nearly 30 years he was involved in Union activities, Senate and Assembly committees, and was prominent in developing student scholarships and cultivating student leaders. The award commemorates his lifelong dedication to serving students by recognizing those faculty and staff who contribute to enhancing student life.

Pat has been with the Division for 3 1/2 years; her major responsibilities include student advising, recruitment, and placement. She is known for her caring attitude, patience and follow-through with both pre-MT and Medical Technology students. Members of the Medical Technology Student Council nominated her for the award, which is a fitting one for this warm and thoughtful staff member. Congratulations again, Pat!

ALUMNI SURVEY 1987

Last year in Tech's Talk we included a survey form to be completed by our alums and returned to us. Of approximately 1600 surveys distributed, 378 were returned (24%) and computer tabulated. The data provided some interesting comparative information.

The 378 responses were grouped by year and decade of graduation. There were 3 responses from the 1920s, 19 from the 1930s, 61 from the 1940s, 44 from the 1950s, 78 from the 1960s, 115 from the 1970s, and 58 from 1980-1987.

Two hundred-fifty respondents (two-thirds) still live in Minnesota. Seventy-two graduates (19%) have gone on to complete advanced degrees. Two hundred fifty-seven (68%) are still employed full or part-time, 69 (18%) are retired and only 22 (6%) unemployed. Twelve (3%) are enrolled in graduate school. Two hundred ninety-eight graduates (79%) are or were still working in a laboratory-related area in their present or last position.

Our graduates have shown relative stability in positions held, as 51 have had only one position, 71 have had two, 75 have had three, 69 four, and 52, five positions. Only 31 have had six or more jobs. The average number of positions for all graduates has been three.

We also calculated total years of laboratory work experience by decade. These figures are seen below.

Total Years of Laboratory Work Experience

<u>Decade</u>	<u>No. Responses</u>	<u>Years</u>		
		<u>Mean</u>	<u>Median</u>	<u>S.D.</u>
1923-1929	3	40.7	41.0	1.5
1930-1939	19	20.8	20.0	15.3
1940-1949	60	21.4	19.5	12.9
1950-1959	44	23.6	27.5	10.2
1960-1969	76	16.6	18.0	6.8
1970-1979	103	10.8	10.9	4.5
1980-1987	<u>52</u>	<u>4.5</u>	<u>4.5</u>	<u>2.8</u>
Total for all decades	357	15.0	13.0	10.6

Present work settings of graduates can also be seen in the chart that follows.

Kind of Position Held

<u>Area</u>	<u>No.</u>	<u>%</u>		<u>No.</u>	<u>%</u>
Generalist	59	15.6	Blood Bank	16	4.2
Chemistry	52	13.8	Coagulation	14	3.7
Administration	32	8.5	Industry	10	2.6
Medicine (physician)	26	6.9	Cytogenetics	6	1.6
Microbiology	23	6.1	Cytology	5	1.3
Education	22	5.8	EKG	3	0.8
Research	21	5.6	Other	26	6.9
Hematology	20	5.3	Blank	<u>43</u>	<u>11.4</u>
			Total	378	100.0%

It would appear that the U of M Medical Technology program has served a distinct role in producing a steady work force of medical technologists for a variety of positions in the state. In addition, our rigorous curriculum has helped graduates prepare for further graduate and professional study. Thus, we have held fast to our mission of preparing medical technologists of quality and excellence.

MEDICAL TECHNOLOGY ALUMNI SOCIETY SPRING MEETING AND BANQUET

The annual alumni Spring Meeting and Banquet is planned for Thursday, April 21, 1988 at the Women's Club of Minneapolis, 410 Oak Grove Street (see reservation form in this publication for details). This event is planned to coincide with the Spring Meeting of the Minnesota Society for Medical Technology which is scheduled for April 20-22. Those attending the MSMT event can also include the dinner and meeting of the University of Minnesota Medical Technology alumni in their plans for the week. This banquet traditionally honors the 25th and 50th anniversary classes in Medical Technology from the U of M. This year for the first time, the graduating class of Medical Technology students will also be honored. These students will receive special invitations to be the guests of the alumni society for the dinner and meeting. The alumni society Board of Directors is making every effort to make this a special evening for these students.

This event is also a time for reminiscing in general and there will be a display of photographs and other memorabilia from alumni who provide them. We encourage all alumni to send in any interesting information for this purpose (see form provided with reservation). The Women's Club provides a wonderful atmosphere for this gathering and is well known for its excellent food. We look forward to another well-attended and entertaining Spring event.

ALUMNI CONTRIBUTIONS

The Division of Medical Technology wishes to thank the generous alumni who have contributed to the University of Minnesota Foundation during 1987. This year over \$10,000 was collected from over 330 donors. University of Minnesota faculty and staff were also asked to contribute to a separate fund, the Minnesota Campaign this year.

The money collected in the Medical Technology Fund was used in several ways. The Division purchased a new SE Macintosh computer and upgraded two of our older computers. A new dual head Olympus microscope was purchased for the hematology student rotation. Reference books were also purchased. Part of the money contributed was transferred to scholarships for Medical Technology students.

We would especially like to recognize the following individuals, who according to available records, contributed \$100.00 or more to the University of Minnesota foundation during 1987.

Bakken, Constance
Bates, Fern Yvonne
Duffell, Dorothy
Hall, Muriel
Ederer, Grace Mary
Galvani, Mary
Glen, Kathryn
Grewe, Mary
Hengesbaugh, Jean

Hovde, Ruth
Jacobson, Mary
James, Helen
Rausch, Verna
Ripley, Donna
Robinson, Ruth
Snively, Suzanne
Stewart, Lorraine Gonyea
Weiss, Phyllis

If you have made a donation this year, we thank you. Our 1988 drive will continue, with students trying to reach all of our graduates by phone. These calls will be placed in the spring this year, as compared to the fall in past years. When you receive your call, please consider a gift. Private support from alumni is invaluable to the Medical Technology program. It is your contributions that allow us to do the "extras" which set this Medical Technology program apart from many others.

ALUMS NEEDED FOR MEDICAL TECHNOLOGY STUDENT RECRUITMENT

As one of twelve units within the Health Sciences, the Division of Medical Technology is participating in a recruitment effort aimed to increase student applications to our respective programs. Alumni may know that applications are down for entrance into the medical, dental and nursing programs. Our applicant pool remains fairly stable; nevertheless, we wish to enlist the help of alumni in assisting with potential student recruitment. We are aiming to attract "high ability" students in particular.

Whom do we need? Practicing technologists to serve as resource persons, and who would provide tours of their laboratories, meet informally with students interested in the profession, and perhaps talk at local schools about the profession and the University. (We have 2x2 slides for presentations and information packets for distribution).

If any of you are willing to help - - are upbeat about the profession and your University experience, please volunteer! Just call, or write, and say, "Sign me up to help with student recruitment."

In addition, alumni associations from the Health Sciences are sponsoring their Third Annual Forum, Wednesday April 6, on "Recruitment", at the Campus Club. All MT alumni who are interested are welcome to attend.

ALUMNI SOCIETY FALL PROGRAM AGAIN IS SUCCESSFUL

The Medical Technology Alumni Society of the Minnesota Alumni Association sponsored its 4th Annual Fall Program, "Medical Economics and the Medical Technologist - The Big Picture", on November 12, 1987. The program was co-sponsored by the Minnesota Society for Medical Technology, a partnership that worked well for both groups. About 150 people attended, 132 for a delicious buffet dinner and the remainder for the program only. Since one of the objectives of the MT Alumni Society for the year is to encourage and support the student experience at the University of Minnesota, we were happy that several students attended the program as guests of the Alumni Society. Dr. Richard Reece was the keynote speaker for the evening. He was followed by a panel discussion moderated by Donna Wieb. Panel members included Robert Cooper, Gary Hemphill, Barbara Jackson, Duane Tiseth and Richard Reece.

Dr. Reece is a pathologist, writer, editor, publisher and consultant. From his understanding of current medical economics, Reece presented many thought-provoking facts to those in attendance. He based his presentation on experience from his own consulting firm, including recent extensive travels where he has tried to explain to the rest of the country just how the Twin Cities' health care delivery system is working. He stated, "There is turbulence now, but quieter waters lie ahead". The panel addressed many questions submitted by members of the audience; some of which included a vision for the future for those practicing Medical Technology. Although these are challenging times in the whole field of medicine, the strengths and skills of medical technologists are apparent, and should be built on as we continually re-evaluate our positions and ourselves.

Reece closed out his remarks on the panel with his general philosophy that one should look to the future and not at the past, look at opportunities and not at problems, create one's own bandwagon rather than jumping on someone else's, and do something big - something that makes a difference.

We hope to continue with a 5th Annual Fall Program in 1988, with dinner followed by a timely program. Look for further information next autumn.

HOVDE-O'BRIEN SCHOLARSHIP

The Hovde-O'Brien Scholarship Fund was initiated to help provide scholarship money for students in Medical Technology. Any student admitted to the professional program may apply and recipients are selected on the basis of financial need as well as on the basis of scholarship and future potential. Throughout the years, this scholarship program has provided a significant source of funding for our students and three to five students receive an award each year. The amount of the award varies from \$200 to \$1200 per student and represents the accumulated interest from a scholarship fund. It is hoped that this fund will continue to grow, so that an increasing number of students can benefit each year. This year, a \$500 Hovde-O'Brien scholarship was awarded to each of five senior students: **Kristin Arsenault, Michelle Cain, John Chan, Sheryl Luthi and Lori Wischnack**. These students would like to thank those of you whose donations made this scholarship fund possible. Anyone interested in donating money to the Hovde-O'Brien Scholarship Fund can contact the Office of Medical Technology, Box 198 UMHC, University of Minnesota, Minneapolis, 55455.

GONYEA - STEWART SCHOLARSHIP ESTABLISHED

We are pleased to announce the establishment of the Gonyea - Stewart Scholarship for Medical Technology students. Lorraine Gonyea Stewart has contributed a generous amount of money to the Division in order to establish this scholarship. All students in the professional program are eligible, and recipients are chosen on the basis of academic scholarship, need and future potential.

This is not the first time Professor Stewart has shown her loyalty to the Division. Along with the establishment of this new scholarship, Lorraine also has a student emergency loan fund in her name. The fund was begun because the processing of student loans is a lengthy procedure and some students do not receive their loans on time. The emergency fund is used by students on a temporary basis until other loans become available to them.

Faculty of the Division and students in Medical Technology are grateful to Lorraine Gonyea Stewart for this new scholarship, the loan fund and for the generosity and support she has provided us in the past.

Anyone wishing to contribute to the Gonyea-Stewart Scholarship may send monies to the Division of Medical Technology, Box 198 UMHC, University of Minnesota, Minneapolis, MN, 55455.

Other alumni may also wish to consider establishing a scholarship for students. Any contribution of \$10,000 or more qualifies one to sponsor a perpetual scholarship named in his/her honor. Interest on the principle is used for the scholarship program.

CLINICAL LABORATORY TRIVIA WINS 1987 ASMT SCIENTIFIC CREATIVITY AWARD

You may remember that last year we reported on the development of a game called "Clinical Laboratory Trivia" by several Medical Technology faculty members. At the 1987 annual meeting of the American Society for Medical Technology, the game was selected as the winner of the Scientific Creativity Award. This award is given to "recognize and encourage the development of significant scientific materials in the area of media and equipment" by ASMT members.

Clinical Laboratory Trivia has now been sold in all states of the union, Puerto Rico, Fiji, several provinces in Canada, and France. The game has been used in various ways; as a method for continuing education, door-prizes at state meetings, sales incentives, gifts, and for students to review their laboratory knowledge prior to certification examinations.

ANNUAL BANQUET NEWS

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

Date: Thursday, April 21, 1988
Social Hour (cash bar) 5:30 p.m.
Dinner 6:45 p.m.
Program to follow

Place: Women's Club of Minneapolis
410 Oak Grove
Minneapolis, MN 55403
Please note: Parking is free at the Club

Menu: Boneless Breast of Chicken with Champagne Sauce
or
Roasted Prime Ribs of Beef au Jus
Women's Club Salad
Baked Potato with Sour Cream
Glazed Carrots
French Silk Pie

Cost: M.A.A. Members \$16.95
Nonmembers* \$18.95

Gratuity and tax are included in price

Program: *"Medical Technology in the 1990s: Forecasting the Future"*
Karen Karni, Assistant Professor and Director, Medical Technology Division,
University of Minnesota

Special recognition will be given to the classes of 1963 (25 years), 1938 (50 years), and to the 66th graduating class of 1988.

Deadline for reservations: April 12, 1988

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

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

Please reserve _____ seats for me at the 1938 table.

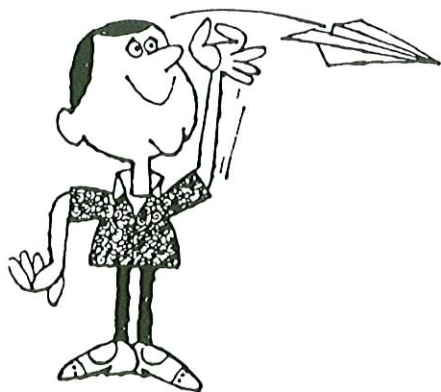
Please reserve _____ seats for me at the 1963 table.

Signature _____ Class _____ M.A.A. # _____

Mail by April 12, 1988, to: Medical Technology Alumni Society
100 Morrill Hall
100 Church Street S.E.
Minneapolis, MN 55455

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.



Last year, the "Let's Keep in Touch" display was a big success and was enjoyed by all. 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.

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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