

TECH'S TALK

Editor: Karen Lofsness

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	Pat Brennecke	Helen Hallgren	Pat Solberg
	Barbara Bruer	Dolores Harvey	Cheryl Swinehart
	Stella Cook	Karen Karni	Carol Wells
		Jean Linne	

As most of you know, 1984 marked the end of an era in Medical Technology at the University of Minnesota. Ruth Hovde, Verna Rausch, Lorraine Stewart, and Dorothy Sundberg retired last year. These four highly regarded faculty members were the nucleus of our Division for many years, and we miss them. Among their many "shoes" that we are attempting to fill is the publication of this newsletter. Tech's Talk is a tradition that we did not want to retire, and we hope that you agree.

For the past couple of years, the most popular "parlor" game among many of us has been "Trivial Pursuit." Hopefully, you won't consider the entire newsletter trivial, but we would like to invite you to add to your collection of esoteric facts about Medical Technology, as we bring you up to date with the latest from the big state "U". Anyone who gets all of the answers right (without peeking) deserves a gold star * !

THE TIMES, THEY ARE A 'CHANGIN'

*** Trivial Question: Who was the Dean of the Medical School between 1972 and 1984.*

A number of new faces in old and new positions have marked a summer and fall of change in the Laboratory Medicine and Pathology Department. In addition to the retirement of Professors Hovde, Rausch, Stewart, and Sundberg, a number of other changes have had or may have an effect on Medical Technology.

Dr. David Brown left his position as Director of Clinical Laboratories to assume the post of Dean of the Medical School. Replacing him as Director of Clinical Laboratories is Dr. Michael Steffes, who was Director of Clinical Chemistry prior to his promotion. Dr. Steffes is committed to more clinical laboratory involvement for the Medical Technology faculty which should benefit faculty and students alike. Dr. Benson has also appointed Dr. Richard Brunning as Associate Head, to assist him in the complex operation of the department.

Closer to home, searches are still under way to replace Professor Sandra Carter (Blood Bank), who emigrated to Canada, Professor Stewart (Chemistry), and Professor Hovde. In the interim, there has been some belt-tightening to meet the teaching obligations with reduced faculty. Dr. Karen Karni has served as Acting Director since Professor Hovde's retirement with the able help of Pat Solberg, our new Associate Administrator. We expect to have filled out the crew by summer. So if you have an opportunity to stop and visit, you may notice some new faces--and some new friends.

*** Trivial Answer: Dr. Neal Gault*

ANNIVERSARY CLASSES - THIS IS YOUR YEAR!

*** Trivial Question: What member of the class of 1935 taught at least 1000 of us to do electrocardiograms?*

Class of 1935 - 50th Anniversary Group

Charolette Arnoldy Buchen*	Dorothy Ferguson**	Margaret Norman Halsted
Helene Berens Youel	Audrey Fjelde*	Margaret Peterson Rasmusson
Eleanor A. Brenny**	Beatrice Goldstein Soloski*	Evaline Purdon Jonnston*
Mary J. Bushfield Work*	Nancy Harrison Butler*	Dorothy Reger*
Gertrude Braufman Stein*	Frances Mary Hilden Pliske	Priscilla B. Ritchie Brill*
Elsie M. Carlson Carlson	Edna K. Houge Urenn*	Elizabeth Robinson
Frances M. Clark Plaas*	Francis Ida Jacobs Levine*	Dorothy Schroeder Eginton
Alta Davis Kuhn	Grace Elaine Johnson*	Marcia Shellenbarger Dalrymple*
Marion Diehl Templeton	Linnea M. Johnson Rovainen*	Genevieve Simser Coombs**
Phyllis Downey*	Cecelia G. Kramer Naegeli*	Helen Louise Spittler Seltz*
Thelma Erickson**	Alice Lee*	Ruth Tessman
Minnie L. Evanson*	Loanna Miller Norris*	Catherine Van Sickle Stone*
John L. Fahey*	Martha Morgan Park*	Anna Weiner*

Class of 1960 - 25th Anniversary Group

Joan Aldrich	Loretta Evenocheck Lorenzo*	Mary Jane Klun Cameron
Judy Baker	Joanne Floeder Stemper	Aija Kancitis Vikmanis
Karen Bisset	Lynn Flory Shaw*	Patricia Maser Koors
Ruth Brown Anderson	Phyllis Horovitz Hoffman*	Lucia B. Mandil
Mary Ruth Cervenka Zweber	Jessie Hansen	Paula Makinen Orland*
Anna Mae Cihac*	Betty Hanson Hayes*	Carole Jean Sahlstrand
Kathleen Dahle Moss*	Marilyn Hopp Koepcke	Linda Mack Schloff
Donna Dauwalter Dzubay	Jean Hyslop Carlson	Sydne Nolden Hellmer
Patricia Evans Pichering	June Inoshita Fukanaga	Carol Nelson Tiernan*
		Carol Timmons Wallestad

*Address Unknown

**Deceased

If you have kept in touch with any of the people that we have lost contact with, please send us their addresses.

Also, please note the special area on the banquet reservation form.

*** Trivial Answer: Margaret Norman Halsted, better known as "Bonnie"*

OUR ALUMS ARE THE GREATEST!

***Trivial Question: How can you help the Division of Medical Technology purchase new equipment for the student laboratories?*

Our thanks to all alumni who have contributed to the University of Minnesota Foundation. Last year Medical Technology received over \$8,400 in contributions from nearly 300 donors! We would especially like to recognize these generous folks, who according to available records, contributed \$100 or more in the past year:

Dr. Ellis Benson
Marilyn Cavanaugh
Bessie H. Dewell
Dorothy F. Duffell
Esther F. Freier
Helen M. Hallgren
Janet S. Hoeft

Ruth F. Hovde
Mary E. Jacobson
Karen R. Karni
Karin J. Libby
Dora J. McClintock
Aldora M. Miller

Toni Okada
Patricia Olsen
Verna L. Rausch
Joanne J. Samuelson
Cheryl D. Swinehart
Phyllis J. Weiss
Lila Wengler



Macintosh
Self Portrait

During 1984, we acquired two blood serofuges through these funds, but our major purchase was an Apple Macintosh Computer. Our "Fat Mac" (512 K) is "user friendly" and is capable of more than we ever dreamed. In fact, this entire newsletter was processed and printed by the computer.

In addition to word processing, we will be using our Mac for student and alumni records, grade sheets, test items, admissions, budgeting and finance, and self instructional units. It will also be of great assistance in preparing grants, charts, and data analysis for our research. This will be an enormous help to Medical Technology and is possible only because of the gifts of our alumni.

***Trivial Answer: It's easy! Designate your tax deductible donation for Medical Technology, and send it to:*

University of Minnesota Foundation
P.O. Box 70870
St. Paul, MN. 55170-0034

ALUMNI HONOR SENIORS

***Trivial Question: How many seniors will graduate in the class of 1985?*

There will be a reception for the graduating Senior Medical Technology students given by the Medical Technology Alumni Society. This reception is scheduled for Thursday, May 30 from 4 - 6 p.m., at Eastcliff (the home of the University of Minnesota President). It should be a beautiful place for this event, and we hope all the graduates-to-be will be able to attend. The reception is also open to all members of the Alumni Society and any faculty and staff persons from the University of Minnesota Hospitals laboratories. More information will be available at a later date.

***Trivial Answer: 28. (22 women and 6 men). Their home towns range from such familiar places as Adams, Echo, and Hinckley to Teheran and Saigon.*

IS THERE LIFE AFTER MED TECH?

***Trivial Question: The Campus Club is nice for us older folks, but what local "watering hole", on the NE corner of Oak and Washington, was and continues to be a favorite with Med Tech students?*

On November 14, 1984, an overflow crowd of 244 people gathered at the Campus Club for dinner and a panel discussion entitled "Versatility and Opportunity with Your M.T. Degree". Included on the panel were Cheryl Olander, Betsy Perry, Margaret Perryman, John Roesler, and Kathy Standing. Karen Karni served as moderator.

The panelists, representing various areas of medical practice, management, industry, and administration, offered practical advice on how to "branch out" using a Medical Technology degree. Sponsor of the program was the University of Minnesota Medical Technology Alumni Board, which plans to continue exploration of this topic.

***Trivial Answer: Slub and Herb's*

LABORATORY GROWTH ENCOMPASSES NEW AREAS

***Trivial Question: How many tests did the University of Minnesota Hospitals laboratories perform in 1984?*

The Department of Laboratory Medicine and Pathology has grown over the years to include much more than the four basic areas we all studied in school. Today the Department employs approximately 580 people in the 24 laboratories listed below:

Autopsy/Pathology	Electrocardiography	Oncology/Hematology
Biochemical Genetics	Electroencephalography	Outpatient
Blood Bank	Electron Microscopy	Pediatric Chemistry
Cell Marker	Heart Catheterization	Pulmonary Function
Chemistry	Hematology	Serology
Coagulation	Immunology	Special Hematology
Cytogenetics	Immunopathology	Surgical Pathology
Data Division	Microbiology	Virology

***Trivial Answer: All of you smarties who said "Too many" are undoubtedly right, but the real answer is 2,480,000 tests.*

ASMT RECOGNIZES FACULTY ACHIEVEMENT

***Trivial Question: In what city was the 1984 ASMT convention held?*

At the June 1984 Annual Meeting of the American Society for Medical Technology, three members of our faculty received Scientific Assembly Awards for excellence in their respective fields. Because the awards are given to only one person per year for each scientific area, these honors attest to the quality of the faculty of the Division. Ruth Hovde was selected for her contributions in Education, Karen Lofsness for Hematology and Helen Hallgren for Immunology. Each recipient was awarded a cash prize, a wall plaque and a desk thermometer.

***Trivial Answer: Kansas City, MO.*

NEW HOSPITAL TO OPEN NEXT YEAR

***Trivial Question: When was the first unit of the University Hospitals built, and how many patients did it serve?*

The University of Minnesota Hospitals Renewal Project, Unit J, is well underway, and scheduled to begin serving patients in March, 1986. Unit J is on East River Road on the site where Powell Hall once stood. The nursing stations currently in the Mayo building will all move to the new 432 bed facility. Masonic, Heart Hospital, and Rehabilitation will continue in their present locations.

Most of the clinical laboratories will remain in their present locations in Mayo or the Phillips-Wangensteen Building. However, Unit J will be the home of Central Specimen Receiving and Processing (CSRP) and a 24 hour emergency chemistry lab.

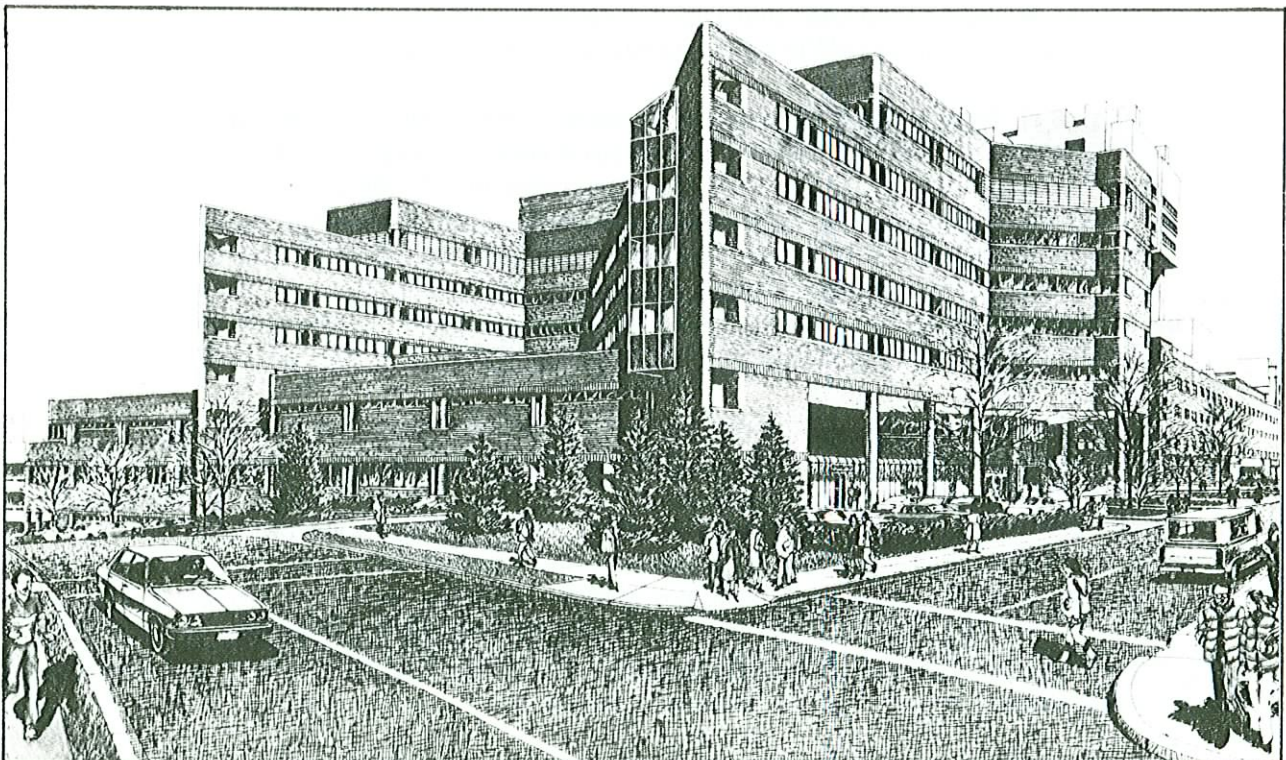
CSRP will receive and process specimens for all of the laboratories. Specimens will be sent from the nursing stations to CSRP and on to the appropriate laboratories via a pneumatic tube system or a mechanical transport system.

The emergency chemistry laboratory in Unit J will be located in close proximity to the operating rooms and the intensive care units.

By the time the move to Unit J takes place, all nursing stations will be equipped with computer terminals and printers. This will give the stations immediate access to laboratory results. Stations will also order supplies and drugs, schedule x-rays, and order laboratory tests by computer.

The construction of Unit J is currently on schedule and under budget.

***Trivial Answer: The first unit, Elliot Memorial Hospital, opened September 15, 1911, and accommodated 120 patients. The charge for outpatients was 10 cents per visit.*



Unit J, from the corner of Harvard and East River Road.

KUDOS TO THE FAMOUS FOUR

***Trivial Question: Match the person in Column I with the corresponding "little known" fact in Column II.*

<u>Column I</u>	<u>Column II</u>
A. Ruth Hovde	1. Plays a mean violin
B. Verna Rausch	2. Took flying lessons
C. Lorraine Stewart	3. Had an infamous pogo stick accident
D. Dorothy Sundberg	4. Made a living tinting baby pictures

Four well known members of our faculty retired in 1984. These women were active in graduate as well as undergraduate education, contributed to scientific journals, and participated in state and national professional organizations. They were leaders and role models for those to come. We wish each of them well-deserved years of active and happy retirement. Since they were too modest to write about themselves last year, we are providing you with a brief biographical sketch of each:

Ruth F. Hovde, Professor and Director, received her degree in Medical Technology in 1938 and a master's degree in Anatomy in 1949. Throughout her career she was a member of many national committees, consultant to other Medical Technology programs, and in 1954-55 served as president of ASMT. In recognition of her distinguished career she was awarded the Honorary Doctor of Science degree from Thomas Jefferson University in Philadelphia in 1983. Among the faculty, Ruth's ability to manipulate all the factors (and there were many) that affect scheduling of classes and students was admired. She could make workable programs out of chaos.

Verna L. Rausch, Professor and Associate Director, received her degree in Medical Technology in 1945 and a master's degree in Physiological Chemistry in 1952. Verna was president of ASMT in 1966-1967 and served on many national committees. In 1984 she was one of nine University of Minnesota faculty to receive the Horace T. Morse-Amoco Foundation Award for Outstanding Contributions in Undergraduate Education. Recipients of this award are selected in a university-wide competition for their contributions to undergraduate education through teaching and advising, curriculum development and leadership. Last, but not least, Verna was responsible these many years for Tech's Talk. The current edition has required input from 14 people. That speaks for itself.

Lorraine M. Gonyea Stewart, Associate Professor, Clinical Chemistry, received her degree in Medical Technology in 1944, and in 1954 earned a master's degree in Anatomy. Lorraine was awarded a Fulbright Scholarship in 1955 and spent a year in Oslo, Norway. During her career at the University of Minnesota she taught and did research in both Hematology and Chemistry. For many years she was Senior Editor for the Clinical Chemistry Section of the American Journal of Medical Technology. Future Medical Technology students will benefit from Lorraine's research into the isolation of human ferritin. Results of this research led to a significant contribution by Lorraine to the Hovde-O'Brien scholarship fund, and on behalf of the students we thank her.

Dr. R. Dorothy Sundberg, Professor and Co-Director, Hematology Laboratories, attended the University of Minnesota, and received a bachelor's degree in Medical Technology in 1937, a master's degree in 1939, a Ph.D. in 1943 and a M.D. in 1953. She served as a Teaching Assistant for Dr. Hal Downey in the Department of Anatomy, a position which entailed teaching in gross anatomy, histology and hematology. "Sunny" has also received the Lucretia Wilder Award for research in anatomy. She has had numerous graduate students, and has served on the editorial boards for both Blood and for the Society for Experimental Biology and Medicine. To all former students who remember "Mickey Megakaryocyte", - "he" is still appearing on the hematology practical exam.

Since their retirement, our four friends have not been idle. Verna and Ruth took a safari trip to Africa last fall; Lorraine has been to Great Britain and Portugal; and Sunny has enjoyed her "second home" in Florida.

***Trivial Answer: A.-2; B.-4; C.-1; D.-3.*

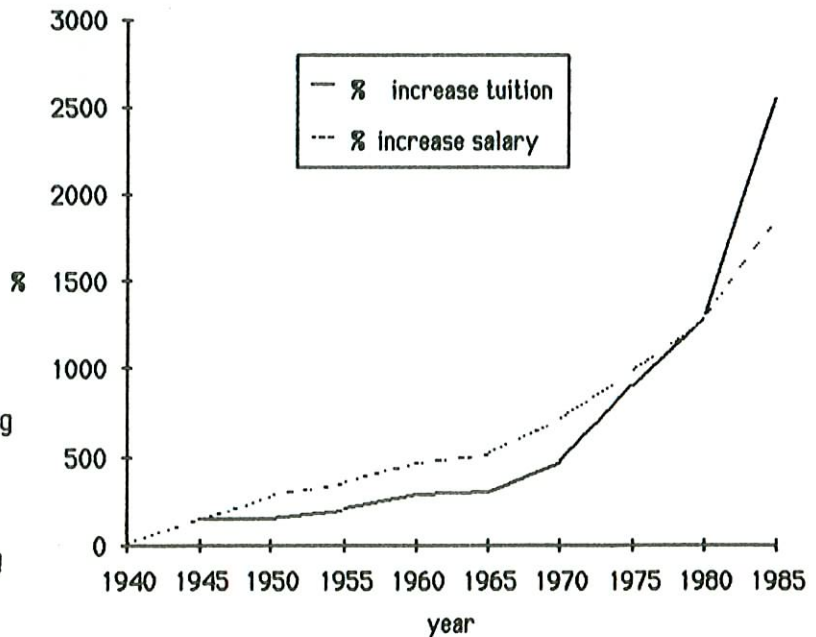
TUITION INCREASES SOAR

****Trivial Question:** *What is presently the most expensive undergraduate program at the University?*

Tuition for Medical Technology students has been rising rapidly. In 1940, resident tuition was \$30/quarter; it is now \$771 (an increase of 2570%).

Salaries are also rising, but have not kept pace with tuition. Mid-range (not starting) salary at the University Hospitals in 1940 was \$1200/year; it is now slightly over \$22,000. (1850% increase)

The major increase in tuition has occurred during the last 5 years (see the accompanying graph). Part-time jobs - sometimes more than one - are a necessity to most of our students, even after a full day in the laboratories. Health Sciences is presently studying this problem. You, too, can help, by reading the following article.



****Trivial Answer:** *It's a lie. Medical Technology, Physical Therapy, Occupational Therapy, and Nursing all charge \$55.07 per credit for Minnesota residents, and \$151.44 for non-residents.*

HOVDE-O'BRIEN SCHOLARSHIP FUND

****Trivial Question:** *What now-defunct honorary society originally established the O'Brien loan fund for "needy Med-Techs?"*

In recognition of Ruth Hovde's many years of outstanding service to Medical Technology, and with the support of the O'Brien family, the William A. O'Brien Scholarship has been renamed the Hovde-O'Brien Scholarship Fund. This fund, which gives financial aid to Medical Technology students, has grown through the years due to donations from alumni, and most recently through a generous contribution from Lorraine G. Stewart.

Recipients of the scholarship award are chosen annually on the basis of academic scholarship, need, and potential. Awards for the 1984-1985 school year went to seniors Kathy Trettel, Brian Lauber, Beverly Ness, and Dana Taufen.

Contributions to the Hovde-O'Brien Scholarship Fund may be made c/o Division of Medical Technology, Box 198 Mayo Memorial Building, University of Minnesota, Minneapolis, MN. 55455.

****Trivial Answer:** *Orbs established the fund "many years ago" (prior to 1947, according to our records).*

MILESTONE IN THE MASTER'S PROGRAM

***Trivial Question: In what area of Medical Technology have most of our Master's graduates specialized? How many have graduated in each of the other fields?*

The Master's degree program in Medical Technology graduated its 50th student in December, 1984. Since its first graduate in 1962, the program has produced individuals with the necessary background to pursue careers in teaching, supervision and investigation in the clinical laboratory sciences. Current employment of some recent graduates includes:

Chemistry Supervisor, Lufkin Laboratories, Minneapolis, MN.
Laboratory Applications, Terano Assoc., (Computers), Lincoln NB.
Research Technologist, Fred Hutchinson Cancer Center, Seattle, WA
Assistant Professor, Medical Technology Program, University of Vermont
Bone Bank Technologist, American Red Cross, St. Paul, MN.
Assistant Professor, Division of Medical Technology, University of North Carolina
Chemistry Supervisor, Veteran's Administration Hospital, Minneapolis, MN.
Development of Vaccines for Tropical Diseases, Nigerian Government, Nigeria, W. Africa
Drug Analysis Methods Development, Chemistry Laboratory, University of Minnesota.
Assistant Professor, Division of Medical Technology, University of Texas, San Antonio

The program currently has six students enrolled who are at various stages of completion of their degrees.

***Trivial Answer: Chemistry has the most graduates: 20. Microbiology has 13, Immunology 12, and 5 people have specialized in Hematology (all outstanding, of course).*

GO FOR THE GOLD!

***Trivial Question: In what year was the gold Medical Technology pin designed, and what was the initial cost per pin?*

Some graduates are unaware that they may purchase University of Minnesota graduate Medical Technology pins. These pins are oval-shaped, engraved, and compliment a uniform, and the wearer, well. They also make nice gifts for our graduates. A pin is traditionally given each year by the University Hospitals clinical laboratories to the graduating senior with the highest grade point average.

The pins are available at: Campus Jewelers
1319 4th Street S.E.
Minneapolis, MN. 55414
(612) 331-5121

Present Cost is: 10 K -- \$41.00
Gold-filled -- \$24.33

Prior to ordering, an official order form must be obtained from the Medical Technology Office, 15-170 Phillips Wengensteen Building, (612) 373-9670. We will be happy to provide these forms to our graduates, whom we know, have always worn the pins proudly.

***Trivial Answer: The first pins, in 1949, cost \$4.80 each.*

UNDERGRADUATE PROGRAM: A HISTORICAL PERSPECTIVE

***Trivial Question: Who was the first person to receive a degree in Medical Technology from the University of Minnesota, and when did she graduate?*

Few of us remember the beginnings of Medical Technology at the University, more than 60 years ago. The course was organized under the direction of Dr. Richard Olding Beard. Although we would not recognize the original curriculum, which contained such essentials as Metabolism (1 credit); Colloids (3 cr); and Roentgenology (4 cr); other aspects are very familiar. Then, as now, the program consisted of four years of college courses, with credit given for practical laboratory work. To quote from the 1922 bulletin:

"These courses lead to a calling in which scientific accuracy is a matter of personal responsibility and public safety. Good moral character is, therefore, an important prerequisite for the degree".

The program obviously filled a need, and grew rapidly (Good things often do!). Dr. Beard retired in 1925, and Dr. William A. O'Brien became chairman. The senior year schedule of the 1930's was 12 months long, and included: blood, urine, feces, gastric contents, blood chemistry, bacteriology, serology, basal metabolism, electrocardiography, tissue technique, and radiology.

In 1940, Dr. Gerald Evans was appointed Director. The program continued through the World War II years, and as of 1945, there were 607 graduates. Familiar faces began to appear on the scene: Ruth Hovde was head instructor; Verna Rausch, Dorothy Sundberg, Dolores Harvey, Lorraine Gonyea, and Esther Freier were all part of the staff during the late 1940's.

The 1950's and 60's saw a tremendous increase in the utilization of clinical laboratories. Even with the advent of automated techniques, Medical Technology was hard-pressed to graduate enough technologists to meet the demand. A Medical Laboratory Assistant program was developed to train more laboratory workers for the job market.

In 1965, the Division of Medical Technology was defined, with Ruth Hovde as Professor and Director. During the late 1960's and early 70's, the traditional "3+1" program was replaced by the present "2+2" model, with expansion of pre-clinical science courses, and the opportunity to study more liberal arts subjects.

What does the future hold? Supply and demand have evened out; HMO's and DRG's are upon us. We will continue to reevaluate and restructure the curriculum to meet the future needs of Medical Technology and modern day medicine.

***Trivial Answer: Katherine Francis Stahman, In March 1923.*

ANNUAL BANQUET NEWS

***Trivial Question: What was formerly on the site of the new Radisson University Hotel (on Washington, between Harvard and Walnut)?*

This year the annual banquet, sponsored by the Medical Technology Alumni Association, will return to campus. For those with a touch of nostalgia, the Radisson University is as close as we can come to Powell Hall.

Date: Tuesday, April 23, 1985
Social Hour: (cash bar) 6 p.m., Faculty Room

Dinner: 7 p.m., Ballroom

Caesar salad
Chicken with white wine sauce
Ratatouille
Rolls/dessert/beverage

Place: Radisson University Hotel
615 Washington Avenue S.E.
Minneapolis, MN. 55414

Parking: Ramp A - Washington Avenue
Harvard Ramp - hourly rates/valet service available

Cost of Dinner: \$15.00 per person - Alumni Association member
\$17.00 per person - Nonmember
(gratuity included)

*Nonmembers may take advantage of a special membership offer in conjunction with the April 23 annual meeting only. Single memberships are available to nonmembers at \$17.00 (annual membership fee is regularly \$22.00)

Program: "The Natural History of the Lymphocyte or You've Come a Long Way Baby" -
Helen Hallgren, M.S., Associate Professor

Special recognition will be given to the class of 1960 (25 years) and 1935 (50 years).

Deadline for reservations: April 17, 1985.

***Trivial Answer: Northrup Practice Field, an apartment building and, of course, a parking lot.*

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

I enclose _____ as payment (\$15.00 or \$17.00 per reservation). Make check payable to the Medical Technology Alumni Association.

Please reserve _____ seats for me at the 1935 table.

Please reserve _____ seats for me at the 1960 table.

Signature: _____

Mail by April 17, 1985 to: Medical Technology Alumni Association, 100 Morrill Hall, University of Minnesota, 100 Church Street S.E., Minneapolis, MN. 55455