

VOLUME 40

Number 2

MISSOURI RADIOGRAPHER

July 1981



official publication of

**The Missouri Society of
Radiologic Technologists**

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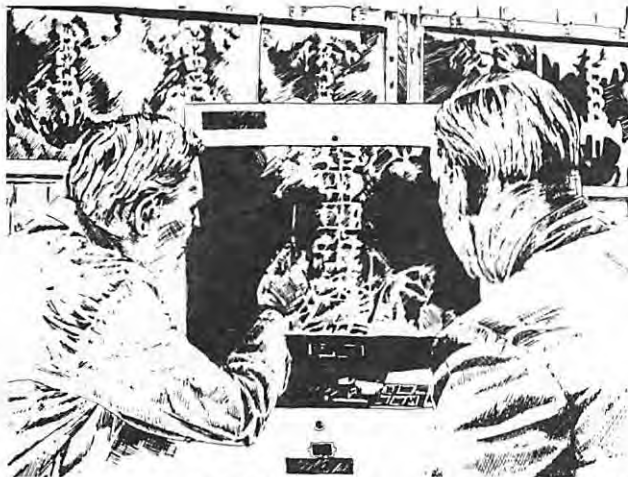
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MISSOURI RADIOGRAPHER

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The RADIOGRAPHER is the official publication of the Missouri Society of Radiologic Technologists, affiliated with the American Society of Radiologic Technologists.

The initials R.T. when used with proper names in this journal, refer to individuals certified by the American Registry of Radiologic Technologists.

ALL ADDRESS CHANGES SHOULD BE IMMEDIATELY REPORTED TO THE EDITOR.

Following is the 1st place Student Essay award winner from the 1980 MSRT Annual Convention - St. Louis, Mo., September, 1980.

AWARD WINNER

Employ the "Safeguard"

Debra Meeder, ST
Baptist Memorial Hospital
Kansas City, Mo.

I. INTRODUCTION

In the profession of diagnostic radiology, radiation protection should be a primary concern of the radiographer not only for the well being of the patient, but also for themselves. By using the best protection methods available, the radiographer is assured of providing the necessary protection from hazards of ionizing radiation. Although radiographers must work within limitations of the physical characteristics of the equipment at their disposal, patient and radiographer protection should be of primary concern.

In the healing arts properly used ionizing radiation is a great benefit and the somatic (body) risk to any individual is extremely small. Therefore, the patient need not be afraid of ionizing radiation, but should understand that maximum benefit is received with a minimum of exposure to all concerned.

Thus, the goal of this paper is to present a basic knowledge required to limit radiation exposure to both radiographer and patient.

II. BASIC CONCEPT OF PROTECTION

There are only three basic ways to protect either the patient or radiographer from excessive radiation exposure from external sources. They are as follow: time, distance, and shielding. The term external source applies to the source of radiation located outside the body, for example, the x-ray machine.

A. Time. The importance of time is that radiation exposure is directly

related to patient and radiographer exposure. And yet the duration of exposure should be maintained to a minimum. The longer the exposure, the more everyone is exposed to radiation. Therefore it is essential the radiographer carry out the procedures as efficiently as possible to minimize exposure time.

To help visualize this, take an exposure rate of 24mR/h for the exposure to anyone in the room during an entire 20 minute fluoro examination.

$$\frac{24\text{mR}}{\text{h}} \times \frac{1 \text{ h}}{60 \text{ min.}} \times 20 \text{ min.} = 8 \text{ mR}$$

Now suppose the next exam totalled only 10 minutes because everything was in order and things went smoothly.

$$\frac{24\text{mR}}{\text{h}} \times \frac{1 \text{ h}}{60 \text{ min.}} \times 10 \text{ min.} = 4 \text{ mR}$$

Since exam time was reduced, the exposure was also reduces by 4mR.

B. Distance. The farther away an object is from a source of radiation the less exposure will be received. This is based on the inverse square law which states: "the intensity (or) exposure rate of radiation at a given distance from a point source is inversely proportional to the square of the distance"¹ meaning that the intensity of radiation will vary inversely to the square of the distance as it changes. For example, if distance from the source is doubled, the intensity of radiation will decrease by a factor of four.

C. Shielding. The thicker the shield, or the greater attenuation ability, the greater the protection to patient or radiographer. Lead is the commonly utilized material in the absorption of the low-energy photons in diagnostic x-ray. It is not only the actual thickness of various materials that determines the attenuation ability, but also the type of material.

An important concept a radiographer should understand is the half-value layer (HVL) of an x-ray beam. This is defined as "that thickness of a specified material (usually a metal) which reduces the exposure rate to one-half its initial value."³ With greater photon energy, an increased HVL is required to reduce the intensity by one-half. As more absorbers are added to an x-ray beam the intensity decreases, since part of the beam is removed by the added absorbers.

III. BASIC PROTECTION EQUIPMENT

Methods of minimal patient exposure cover techniques such as proper positioning and proper patient instruction. Yet there are several specific ways to further minimize patient exposure.

A. Proper Collimation

Collimation to just the area of diagnostic interest will limit the primary beam to a specific area to be radiographed, as only the tissues in the area of the collimator's dimensions will be exposed. Thus, less scatter radiation produced due to less tissue being exposed will cause minimum exposure to the patient. In addition, it will provide a benefit to the radiographic quality since scatter reduces the visibility of the image.

State and Federal regulations have a maximum allowable x-ray beam size that coincides with the image-receptor size. Since patient protection is a major concern, the astute radiographer will further minimize exposure by limiting the x-ray beam by collimation to the area of clinical diagnostic interest.

B. Gonad Shields

The sole purpose of gonad shields is to minimize radiation dosage to the reproductive organs. "The primary beam dose reduction can vary from 90 percent with the use of shaped contact shields on male patients to a 50 percent reduction by the use of flat

contact shielding on female patients."⁵ These shields should be utilized when the organs are in or near a properly collimated beam.

There are various types of gonad shields. Currently, there are three general types available: shaped contact shields, flat contact shields, and shadow shields.

Shaped shields consist of a radio-opaque material contoured to enclose the testicles. This is the more common type and can be cleaned and reused. With the other type, the patient can privately place the shaped contact shield over the penis and testicles and secure it in place by a jockey style brief or athletic supporter. This type of shield can be most effective when doing lateral and oblique projections as well as anteroposterior and nonrecumbent views, and it can be used during fluoroscopic procedures. A disadvantage to this type of shield is that problems may arise when used in sterile fields or with an incapacitated patient.

Flat contact shields can be constructed from lead-impregnated material which can be placed directly over the gonads. These shields are most effectively used for PA or AP views. Since they are very difficult to maintain in place they are not recommended for fluoroscopy or nonrecumbent projections.

Shadow shields are composed of radiopaque material, suspended in the light field of the beam-defining light, covering the area of the patient to be radiographed. A shadow of the shield is demonstrated by the light beam. With the beam accurately aligned, the shaded body area will be protected from the primary x-ray beam. This shield is not recommended for fluoroscopic procedures because gonad protection is poor. The major advantage is it can be used during examinations in sterile field or on incapacitated patients.

At the present time, testicular shields have been demonstrated in more clinical procedures than have ovarian shields. However, ovarian shielding has been used for selected views in some examinations successfully. In some exams, male gonadal shielding may interfere with the objective of the exam. They will interfere with most cystourethrograms, oblique views of the hips, and occasionally with the visualization of symphysis pubis and rectum.

Under normal circumstances there are exams where gonad shielding should always be used; "these include the pelvis, hip (except oblique), and upper femur."⁶

C. Filtration

Medical radiography should employ at least 2.5mm of aluminum equivalent filter for proper filtration. Such filtration removed the majority of the lower-energy photons from the primary x-ray beam. These photons provide no value to radiographic image, and would be unnecessarily absorbed by the patient increasing the dosage. Therefore proper filtration, added to the diagnostic x-ray equipment, helps reduce the patient exposure rate.

As a general rule, higher kilovolt peak (kVp) range of technical factors reduces the patient radiation exposure. While the actual number of photon interactions is not necessarily reduced, the probability of the photoelectric effect is reduced, resulting in a reduction of the patient's skin dose.

"Although increased kVp does decrease the patient's skin dose, the higher-energy photons that are scattered internally (and the released electrons) can travel further prior to their complete interaction with the tissues of the body. This results in a slight, but measurable, increase in internal organ dose. The consensus is that while kVp does slightly

increase internal organ dose, it is more than compensated by the marked reduction in patient skin dose."⁷

While the use of high kVp techniques will somewhat lower patient radiation dosage, this does not hold true in the case of personnel. With high kVp there is a predominant factor of Compton reactions.

"Scatter radiation from Compton reactions is also a major safety hazard ... it still retains most of its original energy. This means that the scatter radiation that arises in the patient during a fluoroscopic examination is almost as energetic as the primary beam. It creates a real safety hazard for the fluoroscopist and other personnel who must be in exposure rooms."⁸

D. High Speed Image-Receptor System

The high speed image-receptor system of film-screen combination using the least amount of radiation to consistently produce a good diagnostic radiograph in the fastest time possible.

While a decrease in patient dosage does occur, this process can not be used in every situation because of the loss of image quality. The radiographer's knowledge of the combined sensitivity becomes very important in protecting the patient from radiation while producing a good quality radiograph.

E. Film Development Technique

Proper film development is an important role in protection, not in the sense of direct protection like the other methods, but as related to repeat radiographs. Retaking a radiograph because of poor darkroom management or wrong exposure technique will cause needless repeat exposure to the patient.

Cont.....

IV. RADIOGRAPHER PROTECTION

In the early years of radiologic technology the operators were exposed to large amounts of radiation, mainly due to the lack of knowledge about radiation effects. This caused an increased number of radiographer deaths due to cancer. As time progressed, increasing knowledge of radiation risks improved the protection practices.

A. Practices.

Minimizing scatter radiation plays a big part in protection. By using proper collimation, the x-ray beam size will be reduced, which will decrease the dose of scattered x-rays to the radiographer.

Proper filtration goes along with proper collimation, in that filtration removes low-energy photons from the primary beam within the collimator so they do not scatter externally.

Systems of high-speed receptor also help reduce scatter. The shorter time an x-ray unit is on, the fewer photons are produced, causing a decrease in radiographer exposure.

B. Shields.

The radiographer should protect from scatter radiation whenever possible. Whether using fixed or mobile radiographic equipment, the use of standard shielding devices (lead aprons, gloves, etc.) should be maintained to receive the full benefit of protection. One must stand entirely within (behind) the protective shield to benefit.

"Everytime x-rays scatter, the intensity at 90° and 1 m from the scattering object is decreased by a factor of approximately 1,000."⁷

One way to make sure the distance between the x-ray field and radiographer is correct is the following:

Fixed Equipment (Stationary):
Length of exposure cord should be short, so it requires the radiographer to make exposures behind lead-shielded glass.

Mobile Equipment (Portable):
Length of exposure cord must be long, at least 13 feet from the tube head assembly during exposure.

C. Fluoro Unit.

The fluoroscopic unit produces a high level of exposure rate. This type of unit should be equipped with a continuous audible signal when in use. All personnel should remember to use the protection methods of time, distance and shieldings. With exposure rate being high, the time period should be short, and distance should be as far as possible from the fluoroscopic table. In addition to time and distance, shielding devices such a lead gloves and wrap around aprons should be used.

D. Mobile Unit.

The mobile x-ray machine is the type with no available protective barriers. All personal should be protected from scatter radiation coming in all directions from the patients body. In all cases, make sure that the patient is the only one facing the direct x-ray beam. During exposure, provide any person who must be near with protective shielding.

E. Assisting Patient.

Occasionally, a petient needs another person to help stabilize him for exposure. No single person should be used routinely for this assistance. It is best to use the help of someone who does not work around radiation all day. This individual should be protected by using a lead apron and gloves, and by staying the farthest away from the primary beam as is possible. Making sure the area of clinical interest is carefully collimated will minimize exposure

to all concerned.

F. Personnel Monitoring.

Recording radiation dosage to the personnel is achieved by wearing a film badge, pocket dosimeter or TLD. These are the most commonly used in the radiology medical profession. Every personnel in the field of medical radiology should wear a monitor when at work. These monitoring devices tell how much exposure is received over a period of time. When worn in a consistent place they will properly interpret exposure reading. In cases of a high reading or a sudden marked increase in the reports it will be easier to find the reason if monitors are consistently worn. When wearing a lead apron, make sure the device is worn on the outside at collar level, "This procedure will approximate the dose to the eyes which, as critical organs, have the same maximum permissible dose equivalent as whole body or gonads."⁸ Failure to wear a monitor during radiation exposure will cause a false reading of actual exposure.

CONCLUSION

The protection of the patient is of primary concern to the practicing radiographer. Several methods have been discussed which assist the radiographer in protecting the patient, but the primary factors remain time, distance and shielding. While the radiographer is limited by facilities, equipment, and accessory devices, if proper attention is paid to these essentials the patient exposure is kept to a minimum. This provides maximum benefit of medical radiography while minimizing radiation exposure to both patient and personnel.

FOOTNOTES

1. Joseph Selman, MD, The Fundamentals of X-ray and Radium Physics, C.C. Thomas Pub., Springfield, Il. 1977, p.343.
2. Robert Frankel, Radiation Protection For Radiologic Technologists, McGraw-Hill Inc., p.91, 1975.

3. Joseph Selman, Op.Cit., p. 177
4. Robert Frankel, Op.Cit., p. 94
5. Ibid., p. 104
6. Ibid., p. 108
7. Ibid., p. 108
8. Edward Christensen, et.al., An Introduction to the Physics of Diagnostic Radiology, Philadelphia Lea and Febiger, 1980, pp. 55-56.

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- Cahoon, J.B., Formulating X-Ray Techniques, Duke Univ. Press, 1974.
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- NCRP, Radiation Protection for Medical and Allied Health Personnel, Washington, D.C., 1976.
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- Sweeney, R.J., On the Technical Side, Radiologic Technology, Sept/Oct., 1979
- Winkler, N.T., Radiation Protection, Radiologic Technology, Jan/Feb., 1980
- Winkler, N.T., Radiation Protection, Radiologic Technology, Nov/Dec., 1979

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April 25, 1981 Board of Directors Meeting, M.S.R.T.

The April 25, 1981 Board of Directors meeting was called to order by President Judy Foeste at 10:30 am at HENRY VIII Lodge, St. Louis, Mo.

Board Members Present:

- J. Foeste, President
- B. Anderhub, Board member
- M. Ward, Vice-President
- C. Huesgen, Secretary
- R. Jerden, Treasurer
- R. Feldhaus, 4th Dist. Representative
- D. Hobbs, 6th Dist. Representative
- D. Umfleet, 7th Dist. Representative

Non-Board Members Present:

- U. Murray, Parliamentarian
- B. Hente, Editor, RADIOGRAPHER
- G. Schaumburg, 1981 Convention Chm.
- N. Hente, Eastern Counselor
- A. DeClue, Chm, Public Relations
- K. Reynolds, Chm., Education
- C. Schroer, Chm., Membership

Board Members Absent:

- J. Watson, President-Elect
- P. Maynard, 1st Dist. Representative
- D. Hurst, 3rd Dist. Representative

Non-Board Members Absent:

- T. Robinson, Chm., Nominating
- J. Roach, Western Counselor
- A. Hulsey, Chm., Legislative Comm.

Previous Meeting Minutes:

The minutes of the January 24, 1981 Board of Directors meeting were accepted as printed.

Treasurer's Report:

Treasurer Roy Jerden submitted a written report showing a balance on hand (4/25/81) of \$1,817.79 in checking and \$246.45 in savings.

Committee Reports:

Education Committee:

Chairman Kathy Reynolds presented a written report stating that the Spring Seminar was scheduled for May 29 & 30, 1981 in Columbia, Mo. This was to have been co-sponsored by The Missouri Hospital Association. Due to a lack of publicity and therefore very low pre-registration, the seminar had to be cancelled.

Legislative Committee:

In the absence of Chairman Aileen Hulsey, Vice-Chairman Beth Anderhub presented a written report. Beth reported that Aona DeClue, Dennis Hroening, Judy Foeste braved the blizzard for the February 10th hearing on our bill in Jefferson City. She further reported on the phenomenal progress the occupational therapists made in getting their licensure bill passed in only 2 years, and the type of committment made by them is what MSRT must have in order to see our bill passed into law. The committee further suggested a man-power study (computerized) would be of help to us.

Membership Committee:

Chairman Coretta Schroer supplied the following statistics: (Membership #)

Active	149	Students	113
Associate	30	Life	10
Supportive	8	Honorary	3
Inactive	15		

It was with regret that the Board accepted the letter of resignation from Coretta as Chairman of this committee. She reassured the Board that she will remain active in MSRT.

Public Relations Committee:

Aona DeClue, Chairman, reported that a Health Day was held in Columbia with the purpose of informing the public of radiation exposure and licensure. Roy Jerden announced that a Health Fair was aired on TV in St. Louis. This is a very good way of informing the public what we're all about.

Nominating Committee:

Tom Robinson, Chairman submitted a written report noting that a total of 189 nomination ballots were mailed to all active, associate and life members of the Society.

RADIOGRAPHER Report:

Editor Barbara Hente reported that postage costs have gone up to 10.4 cents and there has been a two dollar per page printing cost increase.

District Representative Reports:

1st District: Gerald Schaumburg reported that their membership is 130, with an average of 150 attending meetings.

3rd District: Debbie Hurst was not notified of the meeting and will not be counted as officially absent.

4th District: Robert Feldhaus reported on meetings and speakers.

6th District: Deanna Hobbs submitted a written report and asked for suggestions as to ways of getting members involved in district meetings.

7th District: Dennis Umfleet also submitted a written report.

Counselor Reports:

Eastern: Norman L. Hente stated that there has been some requests for E.C.E. points in his area.

Western: No report received.

Convention 1981: A written report was presented by Gerald Schaumburg. He noted that both the ARRT and ASRT have committed speakers for the convention. He then moved that the Board accept the Convention 1981 package (proposed program and budget). Second by Bob Feldhaus. Discussion followed. Motion carried.

50th Anniversary Issue, RADIOGRAPHER:

Barbara and Norman Hente related that there are many gaps in the information available for publishing this edition. Ron Ott and Millie Burns were sited as being good contacts for additional material. The cost involved would be approximately \$2,500 for 500 copies.

Bob Feldhaus suggested the possibility of selling advertisements. The MHA has expressed an interest in helping with this MSRT project.

The Board was asked to think of ideas for this project and bring suggestions to the July Board meeting.

Correspondence:

Judy Foeste read a letter from Ward Keller (ASRT) concerning the Les Wilson Scholarship Fund. Roy Jerden moved the MSRT respond to the request of the ASRT Board and give permission to make an A/V Educational program honoring Les Wilson. Second by Michael D. Ward. Discussion followed. Motion carried.

A letter of welcome from the Utah Society was read by President Foeste. They are requesting that we bring a list of topics for discussion to the national meeting.

Phil Maynard (1st District - 1982 annual convention site) received a letter from the Medical Technologists requesting permission to share exhibit space at the 1982 convention in Kansas City. It was the feeling of the Board that this would be helpful to both parties.

Unfinished Business:

The Essay and Exhibit rules and regulations are being finalized.

Roy Jerden moved the MSRT account be transferred from Columbia Mo to an interest bearing/checking account. Second Bob Feldhaus. Motion carried.

Cont.....

Coretta Schroer has an estimate of \$33.00/thousand for envelope printing. Bob Feldhaus moved we accept the estimate for envelope printing from the TJM Corp. Second by Beth Anderhub. Motion carried.

Judy Foeste instructed the Board to submit possible speakers for the 1982 Sante Memorial Lecture. This was done and a list of five names was constructed.

New Business:

Aona DeClue submitted a Convention Planning booklet for the Board to examine. She requested the Board read the material and forward to her any suggestions by June 1, 1981.

Meeting adjourned at 3:00 pm.

Next Board meeting:

Convention Site

July 25th, 1981, 10:00 a.m.

Tan-Tar-A
Lake of the Ozarks, Mo.

submitted by:

Connie D. Huesgen, Secretary, MSRT

DISTRICT NEWS

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Crestwood, Mo 63126

President-Elect

John M. Bryan, RTT
112 W. Thurman
Columbia, Mo 65201

7

Secretary-Treasurer

Steven H. Schaffner, RTT
415 Country Downs
Ballwin, Mo 63011

On Friday June 5, 1981 the newly elected officers of the Seventh District were installed in their respective offices by Eastern Counselor, Norman L. Hente, RT.

The very next day at the Holiday Inn, Westport Plaza, St Louis, a program for therapy technologists was held.

The speakers were; Dr Fred Zivnuska, Dr William B. Mill, David J. Keys, M.A., Robert Dupont and Millie Burns, RTT.

The Seventh District expresses its appreciation to all of the speakers and to the Siemens Corporation for their invaluable assistance.

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

Essay Title: _____

Membership fee enclosed _____

OR

Proof of membership enclosed _____



DEADLINE: **14 Sep 1981**

Send by CERTIFIED MAIL to;

Beth Anderhub
2099 B Maverick
Maryland Heights, Mo. 63043

1981 ESSAY APPLICATION

ESSAY COMPETITION

** PLEASE READ AND FOLLOW ALL RULES AND INSTRUCTIONS CAREFULLY TO AVOID DISQUALIFICATION

1. Awards 1st, 2nd and 3rd place awards will be offered in both student and graduate technologists categories. Awards will be made at the discretion of the judges.

2 Eligibility

- a. Only active members of the Missouri Society of Radiologic Technologists are eligible to compete in the graduate technologist category.
- b. Only student members of the MSRT are eligible to compete in the student category and must be the sole author with no secondary contribution by a graduate technologist.
- c. Proof of current membership in the MSRT must accompany the essay application OR MSRT application with membership fee must be enclosed ~~or~~ the essay will not be accepted for competition.
- d. The following are not eligible for competition: Essay judges, Essay chairman, Essay committee members and the President of the MSRT.

3. Judging

- a. Handling and judging of the essays will be the responsibility of the essay committee. At least three judges will be appointed with the approval of the President of the MSRT.
- b. Judging will be done on unidentified manuscripts on the basis of the following evaluation scale:

1. Originality

- a. Development of, or major improvement in new techniques, positioning device etc., or significant contribution to such work carried on jointly by others. 0 - 15 pts.
- b. Evidence of original effort or ingenuity, individual investigation research. Negative results of such research should not detract from point value. 0 - 15 pts.

2. Educational or Technical Value

contribution to higher radiologic Technology standards. Treatment of known technology so as to be better understood or applied. Value to technologists with little experience or to those with limited facilities. 0 - 40 pts.

3. Organization of Material

- a. development: is material orderly and presented in logical sequence. 0 - 10 pts
- b. Visual material: Are drawings or illustrations used to support or promote understanding of the text? A paper will not be penalized for lack of illustrations if the text is self-explanatory. 0 - 5 pts
- c. reference: if applicable, is material properly referenced? 0 - 5 pts.

4. Mechanics

grammar, spelling, punctuation, neatness etc. 0 - 10 pts.

c. Identified manuscripts shall be retained by the essay chairman until the judging has been completed.

Manuscripts

A. Manuscripts must be original with the author or authors submitting them and cannot have been previously published or accepted for publication prior to the annual meeting for which they are submitted for competition. Direct quotes and references must be so indicated.

B. Manuscripts must be at least 1500 words long and reading time should be 15 to 20 minutes.

C. A minimum average score of 70% must be obtained from the judges for the essay to be eligible for awards.

D. Manuscripts must be typed, double spaced on one side only of good quality white paper 8½ by 11 inches in size with wide margins and numbered pages securely fastened on the left side.

E. Four copies must be submitted: Three unidentified and one identified.

F. Manuscripts must be sent by certified mail.

Illustrations

A. A complete set of illustrations must accompany each copy of the manuscript. Slides can be included. Illustrations such as charts, graphs, anatomical drawings may be submitted with one original and two xerox copies.

B. Illustrations must be numbered to correspond with information in the text, labeled with a suitable legend, mounted and incorporated into the text in proper sequence or fastened to the paper in a group at the end of the manuscript.

C. Illustrations must be no larger than 8 by ten inches in size. They should carry no identification of author, place or persona. (Note: this means that faces of individuals appearing as patients, technologists or doctors which could lead to the identification of the author should be blocked out.)

D. ~~The~~ author is responsible for all visual media (slides, charts etc.) if his paper is selected for the annual meeting program. Additional visual aides to the paper may be used as long as the 20 minute time limit is adhered to.

DEADLINE

Manuscripts must be postmarked 45 days prior to the annual meeting and there will be no exceptions. The essay application and proof of membership or membership fees must be included with the manuscripts. First place winners in the student and graduate technologist categories will present their winning selections at the annual meeting. If the first place winners are unable to attend the meeting, it is their responsibility to provide a substitute.

FROM YOUR EDITOR:



Please note that at this past annual meeting many things happened. I have reference here primarily to items that need quick action.

Your Board of Directors has appointed Ulysses D. Murray, R.T. as Historian.

Ulysses will function in this position to find, keep and "look-for" information that is the history of this Society. He has a committee of two additional people: Norman L. Hente, R.T. and Barbara W. Hente, B.A., Editor, RADIOGRAPHER.

now -

Since the 1981 Annual Meeting will be the 50th anniversary of the M.S.R.T. we need to put together 50 years of history. At the time of the 25th anniversary (1956) a book was made that covers 1931-1956.

There are massive "holes" (some 2 and 3 years long) in the available information that this committee has assembled. I feel that a lot of our problem with assembling information is in finding those people within the state who have some data (issues of journals, convention programs, newsletters, 'memories') covering the last 25 years of the Society.

Time is very short. Ulysses and his committee need YOUR HELP and we need it NOW. If you have any items (or write your memories of this time) that might help us in this committee, please send them to one of the committee members. They will be returned, unharmed, to you. PLEASE HELP US TO MAKE OUR 50th ANNIVERSARY A MEMORABLE ONE!!

Addresses are printed on the Board of Directors listing in the front of this journal issue.

Thank you in advance for your effort.

OLD
JOURNALS

NEEDED
To Aid in
Compiling
OUR

50 YEAR
History!



P.O. Box 14333
St. Louis, Mo. 63178

EACH ONE, REACH ONE!

January 1981 the A.S.R.T. membership campaign began!!
Everyone who is presently a member of the A.S.R.T. is being
asked to enroll one new member.

WHY A.S.R.T.?

1. Up to date information about our profession in the
Scanner and the Journal RADIOLOGIC TECHNOLOGY.
2. E.C.E. program.
3. Low cost insurance programs.
4. Job placement service.
5. Plus other services including an improved Professional status.

WHO IN MISSOURI?

Regional Director: Coretta Schroer

State Director: Jim Watson

Team Captains: Barbara Boucher

Connie Huesgen

Ann Knaup

Mark Russell

Dennis Umfleet

GOAL FOR MISSOURI?

60 NEW MEMBERS

Do you belong to the A.S.R.T.?? If not, now is the time to
join - and make it a group effort - ask a fellow technologist
to join with you. If you do hold A.S.R.T. membership: why not
share the good news with a friend and ask them to join. The
advantages are many and the dues in YOUR PROFESSIONAL ORGANIZATION
are among the lowest available - the cost is small, but the
advantages are many!!





EXHIBIT

Third Place

RADIOLOGICAL TECHNOLOGIST
18th Annual Meeting
1980

Our district is in summer recess until September, when our first program of the year is scheduled. A notice will be mailed announcing the date, time, and place. The membership stands at about 80 members at the present time with renewals being returned.

Ms. Beth Anderhub, past president and chairperson of the Board of the District, presented a three hour program on ultrasonography in obstetrics and gynecology at the 1981 Annual Meeting of the A.S.R.T. Mr. Robert A. Feldhaus and Mr. Norman L. Hente made presentations on the activities of the research technologist under the title of Applied Research for Radiologic Technologists. Our delegate to the A.S.R.T. annual meeting was Robert Feldhaus, R.T., who will make a report of the meeting to the district membership in September.

Our Mallinckrodt Fellowship Award for Continuing Education in Radiologic Technology was awarded to Norman L. Hente this year.

Of news of the most importance to the membership of the state and the districts is the financial situation of our national organization, the American Society of Radiologic Technologists.

Last year, by mail ballot the A.S.R.T. failed in its attempt to increase dues. This year, the A.S.R.T. is again requesting ratification of the dues increase. If it fails, there will be no future requests because there will be NO ASRT. The national society will be bankrupted. Also to this extent, the M.S.R.T. and districts will be defunct, not counting technologist's representation of the A.S.R.T., J.R.C., and all the other representing boards and agencies. Down the tube goes our long fight for federal minimum standards.

Technologists should close ranks on this issue, for if we can't, we will lose clout to present any and all opinions concerning technology. Our individual voices will be a whisper in the darkness.

So, please go to your respective district memberships and tell them to support the A.S.R.T. and ratify the dues increase.

Robert A. Feldhaus, R.T. (R)
District 4 Representative

DISTRICT NEWS

4

DIAZ LECTURER - JAMES A. MOM

James A. Mom, RT, President-Elect of the ASRT, has agreed to present the Diaz Lecture on November 12, 1981, in Scarpellino Auditorium, The Edward Mallinckrodt Institute of Radiology, St Louis, Missouri.

Mr Mom is Administrator at the Grossmont District Hospital in La Mesa, California. He is and has been actively involved in the profession for many years and was most recently Director of Region One, our western-most region.

Mr Mom has selected the tentative title of "The Applications of Computers in Medicine ----- An Overview" for his topic. The lecture will be directed to the utilization of computers in almost every phase of patient care with emphasis on radiology.

While this lecture is sponsored by the FOURTH DISTRICT, the talk is open to technologists and students without reservation. The FOURTH DISTRICT INVITES YOU TO ATTEND THE DIAZ LECTURE ON THE TWELFTH (12) OF NOVEMBER, 1981.

Chairman of the Board
Beth Anderhub, BSRT, CNMT, RDMS
2099B Maverick Drive
Maryland Heights, Mo 63043

Senior Board Member
Mark Russell, Jr, RTT
1325 S. Grand Blvd
St Louis, Mo 63104

Junior Board Member
Aileen Hulsey, RT
315 A. Bolten
Ballwin, Mo 63011

President
Michael D. Ward, RT, BS
4460 Greenwich Apt A-1
St Louis, Mo 63108

President-Elect
Maureen Hulsey, RT
6425 Villa
St Louis, Mo 63139

Vice President
Thomas M. Hanson, RT
4557 Ridgewood
St Louis, Mo 63116

Secretary
Cindy Gillardi Miller, RT
4319 A. Via Veneto Drive
St Louis, Mo 63125

Treasurer
Terry Bevilaqua, RT
326 Turfwood
Ballwin, Mo 63011

Member-at-Large
Theresia Girresch, RT
3446 Wyoming
St Louis, Mo 63118

Committees

Program Chairmen
Aileen Hulsey, RT Thomas M. Hanson, RT

Nomination Chairman
Barbara Hente, BA

Diaz Lecture, Chairman
Norman L. Hente, RT

Education (Student Presentation)
Roy Jerden, BSRT - Jude Pleva, RT

Student Advisory Committee
Barbara Spitzer, Providence L. Tucker
Robert Knapp

Mailing Chairman
Sally Stranquist

DISTRICT

1

The District I organization held its final meeting of the 1980-1981 year in May. The speaker for this meeting was Gaylon Lowery, Administrative Technologist at St. Lukes Hospital. He provided an insight into our future with the timely topic of discussion "Current Trends in Radiology". Overall the organization had a very successful year providing both educational and social activities for its membership (average attendance for monthly meetings was 56); a monthly newsletter was printed and mailed to over 300 technologists in the metropolitan area and members are actively participating in our profession at the local, state and national levels. The final membership count reached 139, inclusive of all categories.

The newly elected officers are currently planning activities for the 1981-1982 year. An extensive membership campaign is also being planned with a goal of 200 members set for the year. Wish us luck, cause we're going to need it!

Philip R. Maynard R.T. (T), B.S.
District I Representative

MANPOWER SURVEY IN RADIOLOGIC TECHNOLOGY

The ASRT is conducting a new Manpower Study for Radiologic Technologists in the United States. We are going to accomplish it by including a rather extensive survey form with your membership renewal. We will also be obtaining data from other technology groups to give us a broad data base. When you get this form, please take the time to fill it in and return it to us. The only way that we can get the data we need for this study is to get it from you. All of the data will be compiled in the computer in the ASRT Executive Office and will be reported out to the members as soon as we have significant statistics.

NEMA SCIENTIFIC PAPER COMPETITION

I have been asked how the NEMA papers are selected so I thought the Presidential Newsletter might be a good way to inform the members of this activity. There are three judges, with the current ASRT President selecting a new judge to replace the Chairman of the Committee each year. Only the President, Executive Director and Chairman of the Committee know the total composition of the committee. All manuscripts submitted for competition are unidentified when they are judged by the committee members. Each judge determines the value of the paper independently. The scores are then submitted to the Chief Judge and averaged. All of the judges have a strong background in scientific writing.

The papers are judged using the following criteria: Originality, Educational or Technical value to the profession, Scholarship demonstrated in writing, Organization of material and Mechanics of writing.

Now is the time to be thinking about writing a paper for the 1982 annual meeting in New Orleans, Louisiana. The deadline will be December, 1981. A scientific paper written by you could be an outstanding contribution to our profession next year.

EACH ONE - REACH ONE CAMPAIGN

The team captain reports are still coming in but all regions are not complete. As teams are being reported, recruiting kits are going out within two days. The excitement is mounting. This has got to be a true team effort by every member of ASRT if it is going to be successful. We all have a responsibility in this effort!

If you should happen to recruit a new member and not have one of the orange application forms, please use the regular forms but add a note at the top of the form that it is an EACH ONE - REACH ONE recruitment and add your name as the person who did the recruiting. These will then be counted into the campaign. If the team members do not use all of the orange application forms that are sent to them, please share your extras with fellow technologists.

ASRT PRESIDENTIAL NEWSLETTER

RADIATION PROTECTION LEGISLATION REINTRODUCED INTO CONGRESS

On February 16, 1981, Senator Jennings Randolph introduced the Consumer-Patient Radiation Health and Safety Act of 1981 into the United States Senate. This bill will be known as S 646.

On March 11, 1981, Congressman Norman Lent introduced the Consumer-Patient Radiation Health and Safety Act of 1981 into the House of Representatives. This bill will be known as HR 2457

Senator Randolph has been a long time supporter of the radiation protection legislation, having first introduced it into the 91st Congress (1969-70) and has been reintroducing it each session of Congress since that time. The bill ended up last year as an amendment to the Health Manpower Act and was passed 88-0 by the Senate. However, the conference committee ran out of time and did not act on the bill before the adjournment.

Congressman Lent was a strong supporter of the radiation protection legislation on the House side of the Congress last year. We are grateful for his leadership on the Oversight Committee last year as he provided outstanding leadership by calling the attention of the whole committee to this bill.

WE NEED YOUR HELP!!! The ASRT has spent a considerable amount of money and time over the past 12 years in an attempt to have minimum Federal standards become law. We feel that such standards are mandatory if we are going to be concerned about the radiation exposure to the public. We do need your help in moving this bill to passage. Congressmen do listen to what their constituents are saying!!! We need for you to write letters to your Senators and Representatives and ask them to support this legislation. A simple letter will do. Please take the time today to write to your representatives in Washington and ask for their support. It won't take you more than 30 minutes and may mean a great deal of difference in the lives of the American public.

THAT'S WHERE OUR MONEY GOES

From time to time I have been asked by members of the ASRT just where we do spend our money. If you were to go over the financial report each month, you might be very surprised at what certain procedures cost us. The legislative effort that I mentioned above costs us about \$30,000 per year of membership dues money. That's why it is so important that we all really work on the passage of this bill. Another item that I want to call to your attention is the voting procedure that we use for officers. At our Annual Meeting in Houston, Texas in July, 1979, the members proposed and passed a new method for voting that was utilized last year. It involves several envelopes in addition to the ballot being sent. We do use a balloting firm as mandated by the members and every step of the procedure costs us. We had bids from three different firms and chose the least expensive firm who could carry out the procedure that the members wanted implemented. It cost us \$11,353 to vote for our officers last year!

ASRT PRESIDENTIAL NEWSLETTER

EDITORIAL REVIEW BOARD EXPANDED

The size of the Editorial Review Board was expanded at the last ASRT Board Meeting to include three more technologists. This Board will have nine members appointed effective July, 1981. One of the nine will serve as Chairman. Technologists representing all disciplines of Radiologic Technology will be serving on this Board. They review a tremendous number of manuscripts each month and we hope that by expanding the number, they will be able to spread the work load out a little more. The members serve on this Board for three years when appointed. If you have editorial or publishing experience and would like to be considered for this Board, please send your curriculum vitae to ASRT President-elect, Cindi Easterling, for possible consideration.

1982 MEMORIAL LECTURER SELECTED

The ASRT Board of Directors accepted the recommendation of the Memorial Lecturer Selection Committee and has invited Daniel Donohue, R.T., FASRT, to be the lecturer at our 1982 Annual Meeting in New Orleans. Congratulations Dan!

CLARIFICATION OF REGIONAL DIRECTOR ELECTION PROCEDURE

A question was presented to the Board of Directors relative to which states would be eligible for regional director candidates if, during the previous term, a director had resigned and another been appointed from a different state. At our March meeting, the Board of Directors adopted the following policy to clarify the situation:

No state may be represented by a Regional Director for two successive terms. If a Regional Director resigns prior to completion of a full term, the State from which the replacement Director is appointed is the only State considered ineligible for the next Regional Director election.

NEW MEMBERS APPOINTED TO COUNCIL ON CONTINUING EDUCATION

LaVerne Gurley of Tennessee and Larry Zimmerman of Colorado will be completing their service to the CCE in July, 1981. Nadia Buga of Louisiana and Jane Ward of Utah have been appointed to replace them. These technologists will serve a three year term on this important committee

CHANGES IN ASRT PUBLICATIONS

You may have noticed in the last issues of RADIOLOGIC TECHNOLOGY and the SCANNER that there has been some rearrangement of content. We are attempting to bring you news about our profession on a more timely basis. The Journal has a very long lead time for printing and many items that have been in the Journal have been outdated before it reached you. Since the lead time for publication of the SCANNER is much shorter, we are transferring such information to the SCANNER. It is our hope that in the near future when finances permit it, the SCANNER will become a monthly publication, thereby giving you the news faster. You will notice that the Journal is becoming a forum for scientific material. We are attempting to make the Journal a true scientific publication. The SCANNER will be carrying information about the Meetings, Socio-Economics, Affiliates, pertinent ARRT news, Educational offerings, and related material. We are confident that this rearrangement of published material by the ASRT will better meet your professional needs.

ASRT PRESIDENTIAL NEWSLETTER

LONG RANGE PLANNING COMMITTEE REPORT

The Long Range Planning Committee of the ASRT met last Fall and, using input from many sources, formulated goals for our professional society. The goals were grouped into four categories: Ongoing, Short term (1-2 years), Intermediate (2-5 years) and Long Range (5-10 years). Following are the Ongoing and Short Term Goals that were set. Next month I will share with you the Intermediate and Long Range Goals.

ONGOING GOALS:

1. Increase membership in ASRT by 100% within 10 years.
2. Improve the professional status of the Radiologic Technologist.
3. Have involvement in relevant legislation that is related to health care.
4. ASRT will be the educational resource center for the profession.

SHORT TERM GOALS:

1. Broaden the role of the ASRT in the total health care community.
2. Assist States in implementing federal minimum standards for licensing.
3. Establish a national political action committee within the ASRT.
4. Increase and broaden the financial resources of the Society.
5. Establish a review process for goals and objectives.

Objectives were written for these goals. These goals will be used to direct the actions that the Board of Directors take as well as to give direction to the Executive Office Staff. The implementation of all of these goals is dependent upon future funding of the ASRT.

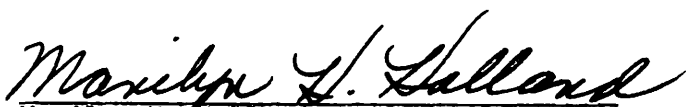
DUES INCREASE PROPOSAL TO BE PRESENTED AT ANNUAL MEETING

The ASRT cannot continue to operate much longer under the present dues structure. The economy continues its upward spiral which deflates the dues dollar that we receive. The Board of Directors voted at the recent Board meeting to present a new dues structure to our members at the meeting in Salt Lake City. We will also be holding a question and answer session relative to our financial situation so that the members will have all of the information regarding our financial structure.

Regional Directors making Affiliate visits this Spring and Summer will be presenting information to the Affiliate memberships in an effort to help our members realize just what the ASRT membership does for you and why it is important for us to have a strong professional organization. They will also have information regarding where we stand in dues structure when compared to other health professions associations.

DID YOU KNOW???

It cost an average of \$68.32 per member last year to operate the ASRT. Your membership is a bargain!!!!



Marilyn H. Holland, R.T. (ARRT)

President, ASRT

1630 Quincent Drive

Iowa City, Iowa 52240

As a resource person for the American Society, I have been able to provide information and assistance to a number of technologists and students in recent months. I am typically contacted for ASRT, MSRT and Fourth District Applications for membership. I have also provided ECE applications/information on a regular basis, though approval of ECE programs has been light so far this year.

On June 5, 1981 I was a guest of the 7th (therapy) District and I was privileged to install their recently elected officers. Their meeting was held at the Holiday Inn-Westport Plaza in St Louis and they had a strong educational program on June sixth.

I was able to attend the Annual Meeting of the American Society in Salt Lake, Utah, and also able to attend the Zone III ECE meeting. Chaired by Clara B. Sanger and held Saturday, July 11, the session was very informative.

ECE SELF SUPPORTING

The membership fee for ECE covers all of its costs and does not cost the ASRT anything.

Membership in ECE is stabilized at approximately 30% of the ASRT membership.

Much talk was generated about including ECE membership in with the regular ASRT membership. It is not practical at this time, but is definitely a future consideration.

Much data has been gathered regarding ECE nationally and I hope to retrieve the data that is pertinent to MISSOURI and publish it in the RADIOGRAPHER.

The ASRT SCANNER is now publishing the names of those who complete participation in the program for a three year period. The most recent SCANNER also indicated those technologists who have completed a second three year program.

ECE participants may obtain credits by reading articles in RADIOLOGIC TECHNOLOGY. Certain articles as indicated have a quiz at the end which you fill out and send to the ASRT.

PLEASE CONTACT ME IF YOU HAVE ANY ????? OR PROBLEMS WITH EITHER ECE OR THE ASRT

(314)454-3250work (618)797-6817 home

COUNSELORS CORNER

Norman I. Hente, R.T. (R)
Eastern Counselor

NATIONAL RADIOLOGIC TECHNOLOGY

WEEK -- November 8-14, 1981

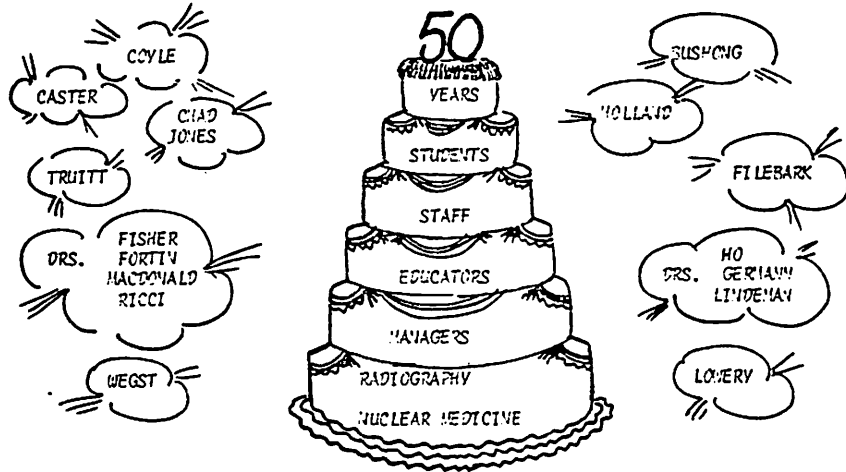
November 8-14, 1981 has been selected as the date for the 3rd Annual National Radiologic Technology Week sponsored by the American Society of Radiologic Technologists on behalf of its 54 Affiliated Societies. President Marilyn Holland announced that the new dates for this event will appropriately observe the 81st Anniversary of William Roentgen's discovery of x-rays.

In order to help affiliates, ASRT is providing a "National Week" programming session to be held at the Annual Meeting (1981) in Salt Lake. The session will address some of the effective methods and mechanics of "National Week" observance for the affiliate societies. This year, affiliate societies will be taking on more responsibility for local observances.

Look for additional information on National Radiologic Technology Week 1981 in future Affiliate press service news releases and in the ASRT publications.

1981 CONVENTION

M.S.R.T. ANNUAL MEETING



HAVE YOUR CAKE AND EAT IT TOO!

COME FOR THE EDUCATIONAL EXPERIENCE, PARTIES, AND SOCIALIZING!

OCTOBER 28-31, 1981

TAN-TAR-A — LAKE of the OZARKS

ACCOMMODATIONS

SINGLE OR DOUBLE OCCUPANCY ... \$39.00 per room per night + \$1.41 tax
 ONE BEDROOM SUITE \$80.00 per suite per night + \$2.90 tax
 TWO BEDROOM SUITE \$100.00 per suite per night + \$3.63 tax

A deposit of one night's lodging is required to confirm reservations. Deposits are refunded only when cancellation notice reaches our office 10 days prior to arrival date. Your deposit will be forfeited if you arrive later or depart earlier than indicated date.

PLEASE RETURN CARD AND DEPOSIT TO: **MARRIOTT'S TAN-TAR-A
 RESERVATIONS DEPARTMENT
 OSAGE BEACH, MO. 65065**

ALL MAJOR CREDIT CARDS WILL BE ACCEPTED; HOWEVER, ONLY AMERICAN EXPRESS & CARTE BLANCHE, WITH EXPIRATION DATES, WILL BE ACCEPTED FOR DEPOSIT.



**MISSOURI SOCIETY OF
 RADIOLOGIC TECHNOLOGISTS**
 October 28 - November 1, 1981

NAME _____
 ADDRESS _____ CITY _____
 STATE _____ ZIP CODE _____ TELE. NO. _____
 ARRIVAL DATE _____ DEPARTURE DATE _____
 NUMBER OF PERSONS _____ NUMBER OF ROOMS _____
 AMOUNT OF DEPOSIT _____

Reservations requests must be received at least 30 days prior to arrival. Reservations will be accepted and confirmed up to the opening day of the conference providing accommodations are still available. Reservations run from 4:30 p.m. on day of arrival until 12:00 noon day of departure.

PLEASE LIST NAMES OF ALL PERSONS SHARING SAME ACCOMMODATIONS.

PROGRAM

WEDNESDAY, OCTOBER 28

5:00 P.M. Registration
7:30 P.M. Pizza & Beer—Courtesy of Siemens Corporation

THURSDAY, OCTOBER 29

A.M.
7:00 Registration
8:15 Welcome and Business Session

General Seminars

Presiding: Beth Anderhub, R.T., CNMT, RDMS, B.S.
Past President, MSRT
9:10 "Image Visibility" Chad Jones
10:10 "Professionalism—Is It Earned or Learned" Marilyn Holland, R.T.
11:10 "Relative Risks" Stewart C. Bushong, ScD.
Noon Lunch—Included in Registration

P.M.

Presiding: Michael Ward, R.T., B.S.
Vice President, MSRT
2:00 "Ultrasonography—The Wave of the Future" Robert Truitt, R.T., RDMS
3:00 "Space—The Unknown Accessory" Philip Maynard, R.T.(R), B.S.

Special Seminars—Education

A.M.
Presiding: Ann Thompson, R.T., B.S.
Program Director, Avila College
9:10 "Developing a Self-Study" Robert L. Coyle, R.T., Ed.M.
11:10 "Individualizing Instruction" Philip Maynard, R.T.(R), B.S.
Noon Lunch—Included in Registration

P.M.

Presiding: Mary Kimberlin, R.T., B.A., Program Director, Mallinckrodt Institute of Technology
2:00 "Mr. Coyle Responds" (question and answer session of JRC) Robert L. Coyle, R.T., Ed.M.
3:00 "Making Physics Fun to Learn" Stewart C. Bushong, ScD.
7:30 Halloween Costume Party—(Bring Your Own Costume) Courtesy of E.I. DuPont de Nemours & Co. (Inc.)

MSRT OFFICERS

Judy Foeste, R.T. President
James Watson, R.T. President-Elect
Michael Ward, R.T. Vice President
Connie Huesgen, R.T. Secretary
Roy Jerden, R.T. Treasurer

FRIDAY, OCTOBER 30

A.M.
8:00 Registration

General Seminars

Presiding: Michael Ward, R.T., B.S.
Vice President, MSRT
9:10 "Special Imaging I" David Fortin, M.D.
10:10 "Special Imaging II" David Fortin, M.D.
11:10 "Pathology of the Thoracic Cavity" Robin MacDonald, M.D.
Noon Lunch—On Your Own

P.M.

Presiding: Deanna Hobbs, R.T.
6th District Representative, MSRT
2:00 "Mammography—Pros, Cons & Technical Considerations" Robert G. Ricci, D.O.
3:00 "Technical Aspects of Gastrointestinal Radiography" James K. Fisher, M.D.
4:00 Essay Presentations

Special Seminars—Management

A.M.
Presiding: Mary Woolridge, R.T., B.S.
9:10 "Superior-Subordinate Employee Relations" Robert W. Thompson, MPA
10:10 "Quality Control—Why It's Good For Your Department" Teryl Filebark
Noon Lunch—On Your Own

P.M.

Presiding: Ron Ott, R.T., Administrative Technologist, Bethany Medical Center
2:00 "Special Consideration For Purchasing New Equipment—Are You Getting Your Money's Worth?" James B. Caster
3:00 "Time Is Money—Time Management" Robert W. Thompson, MPA

4:00 Business Session
7:30 Country-Western Party—Courtesy of Eastman Kodak Company

SATURDAY, OCTOBER 31

A.M.
7:30 Registration

General Seminars

Presiding: Doug Byron, B.S.R.T., President Elect, District 1, MSRT
8:30 "Stress Management" Barbra A.B. Horrell, B.S.
11:00 "Current Trends In Radiology" Gaylon C. Lowery, R.T., B.S.
Noon Lunch—On Your Own

P.M.

Presiding: Linda Carter, R.T.
Supervisor, North Kansas City Memorial Hospital
1:30 "Close Encounters" Peggy Stephens, R.T., B.S.
2:30 "What You See Is What You Did" Gerald Schaumberg, R.T., B.S.

Student Seminars

A.M.
Presiding: Philip Rix, Student, Baptist Memorial Hospital
8:30 "Radiology Is A Patient Service" Robert G. Ricci, D.O.
9:30 "Why So Many Views in G.I. Radiography" James K. Fisher, M.D.
10:30 "Student Rights" Robert L. Coyle, R.T., Ed. M.
Noon Lunch—On Your Own

P.M.

Presiding: Mary Baker, Student, Providence-St. Margaret Health Center, V.Pres., District I, MSRT
1:30 "You Know More Than You Think" (Student Review) Chad Jones
2:30 Student Review (continued) Chad Jones

3:30 Business Meeting
5:30 Sante Memorial Lecture Marilyn Holland, R.T.
Reception—Courtesy of Picker X-Ray Corporation
7:30 Presidential Banquet—Included in Registration Award Presentations

SPECIAL NUCLEAR MEDICINE PROGRAM

SATURDAY, OCTOBER 31

A.M.

8:30 "Radiopharmaceuticals—New Agents and Methods" Jay A. Spicer, M.S.
9:00 "Clinical Aspects of Bone Imaging" Gretchen H. Courtney, R.T.(R), CNMT
9:30 "What You Should Do for Quality Control in Nuclear Medicine" Audrey Wegst, PhD.
10:00 "An Overview of Nuclear Cardiology" Donald R. Germann, M.D.
10:30 "Comparative Hazards of Power Production" Audrey Wegst, PhD.
11:00 "Technical Aspects of Hepatobiliary Imaging" Andrea Burson, R.T.(R), CNMT

P.M.

1:30 "Current Assessment of Thyroid Function" John F. Lindeman, M.D.
2:30 "Thallium Imaging—Technical Aspects and Literature Review" Timothy Myers, B.S., CNMT
3:00 "A Clinical Approach to Pediatric Nuclear Medicine" Judith Ellen Ho, M.D.
4:00 "Clinical Uses of Gallium 67 Citrate" Donald R. Germann, M.D.

FACULTY

SANTE MEMORIAL LECTURER—

MARILYN H. HOLLAND, R.T., President, American Society of Radiologic Technologists. Program Director, Mercy Hospital School of Radiologic Technology, Iowa City, Iowa

ANDREA BURSON, R.T.(R), CNMT, Staff Nuclear Medicine Technologist, St. Luke's Hospital of Kansas City, Missouri

STEWART C. BUSHONG, ScD, Professor of Radiologic Science, Baylor College of Medicine, Houston, Texas

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ACCREDITATION

Application has been made to the American Society of Radiologic Technologists for Evidence of Continuing Education (ECE) points for each session.

ACKNOWLEDGEMENTS

We gratefully acknowledge the cooperation and support of this program by the following parties:

- Eastman Kodak Company
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Thursday's luncheon entertainment produced by the students of the School of Radiologic Technology, Providence-St. Margaret Health Center, Kansas City, Kansas.

COMMITTEE CHAIRPERSONS

- Convention
 - Judy Foeste, R.T.
 - Gerald Schaumburg, R.T.
- Program
 - Ann Thompson, R.T.
 - Philip R. Maynard, R.T.
- Entertainment
 - Deana Hobbs, R.T.
- Exhibit
- Essay
 - Beth Anderhub, R.T.

REGISTRATION FORM — Advanced registration must be postmarked by Oct. 11, 1981
*(includes meal functions)

(Please circle your choice)	Thurs. only	Fri. only	Sat. only	Thurs., Fri. & Sat. (advanced)	Thurs., Fri. & Sat. (on site)
Member	\$35.00*	\$25.00	\$40.00*	\$90.00*	\$100.00*
Non-Member	\$45.00*	\$35.00	\$50.00*	\$120.00*	\$130.00*
Student	\$20.00*	\$15.00	\$25.00*	\$60.00*	\$60.00*
Nuclear Medicine Seminar only			\$40.00*	\$35.00*	

Make checks payable to:
M.S.R.T. Convention Fund

Nuclear Medicine Seminar only
M.S.R.T. Registration Committee
1315 West Truman, W. Apt.
Independence, Missouri 64050

Name _____ Employer _____

Address _____ street _____ city _____ state _____ zip _____

Membership Status: Active Student Associate Non-member

HOTEL RESERVATION

M.S.R.T. 1981 ANNUAL CONVENTION
Return to: MARRIOTT'S TAN-TAR-A RESORT
Osage Beach, Missouri 65065

Please reserve: _____ rooms \$39.00*

Arrival date _____ time _____

Departure date _____ time _____

*Each room regardless of the number of persons, is \$39.00.
All rooms contain two double beds. ONE NIGHT'S DEPOSIT REQUIRED IN ADVANCE FOR THIS SPECIAL RATE.

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MSRT BOARD OF DIRECTORS

M.S.R.T. BOARD UNANIMOUSLY APPROVES
A.S.R.T. DUES INCREASE

At the July 25, 1981 M.S.R.T. Board
of Directors Meeting, the Board
voted unanimously to publish a
statement of support in relation to
the A.S.R.T. dues increase passed at
the 53rd A.S.R.T. meeting in Salt Lake.

In a related motion the M.S.R.T. voted,
again unanimously, to donate \$100 to
the A.S.R.T. for Communications, i.e.,
the Scanner and the Presidential
Newsletter.

Numerous of the 50 states made donations
for the Presidential Newsletter and
Scanner at the Salt Lake meeting.

continuing education

JOIN!

PARTICIPATE!

**EXHIBIT COMPETITION RULES AND REGULATIONS OF
THE MISSOURI SOCIETY OF RADIOLOGIC TECHNOLOGISTS**

I. AWARDS

EXHIBIT COMPETITION

First, second and third place awards will be offered in both Graduate and Student Technologists categories. Awards will be made at the descretion of the judges.

II. ELIGIBILITY

- A. Graduate Technologist Category: Only Technologists who are active members of the Missouri Society of Radiologic Technologists are eligible to compete. However, student technologists may be designated as co-exhibitors if they make a significant but secondary contribution to the work.
- B. Student Technologist Category: Only Student Technologists who are members of the Missouri Society of Radiologic Technologists are eligible to compete.
- C. The following are not eligible to compete in the exhibit competition: The president of the MSRT, chairman and members of the exhibit committee and exhibit judges.

III. JUDGING

Three judges shall be selected by the exhibit committee chairman with the approval of the president. The following scale shall be used to judge all exhibits:

Exhibit Judging Evaluation Scale

	CLASSIFICATION	POINTS
Practical value to science of radiologic technology	Outstanding	30
	Above average	20
	Average	10
	Little or none	0
Originality of thought or preparation	Outstanding	20
	Average	10
	Little	5
	None	0
Educational value	Outstanding	20
	Average	10
	Little	5
	None	0
Technical Quality	Excellent	20
	Above average	15
	Average	10
	Below average	5
	None	0
Presentation (includes descriptive material, photographs, graphs, charts, etc.)	Excellent	10
	Average	5
	Below average	0

IV. RULES FOR PRESENTATION OF EXHIBIT

A. Subject matter

- 1. Exhibit subject matter will be chosen by the exhibitor.
- 2. The subject matter must be pertinent to radiologic imaging, and may be supplemented by such charts, discriptave material, technical factors, photographs, etc, as are deemed necessary and that can be contained within the allotted space.

3. The exhibit should demonstrate originality of subject matter, general interest and value to other technologists from practical and educational viewpoints, and technical excellence.
4. Exhibits should show no image or markings on either side that could identify the technologist, department, hospital, institution, or patients in any way.
5. Category in which exhibit is entered must be displayed on the front of the exhibit along with the title.
6. The name of the exhibitor and place of employment or training must be turned in to the exhibit chairman before receiving permission to set up the display. A card displaying this information will be added to the exhibit after judging is completed.

B. Mechanics

1. The MSRT will provide a maximum of four (4) 14"x17" viewing spaces, or the technologist(s) may furnish their own light sources and one(1) 6'x30" table for each exhibit.
2. Exhibits will not be considered for an award if they have been displayed at any radiological meetings(ACR, RSNA, AMA, etc.). However, they may be displayed on a non-competitive basis.
3. Exhibits must be the original work of the exhibitor(s).
4. All exhibits and displays must be up by 12:00 P.M., Thursday, October 29, 1981, and taken down no later than 12:00 P.M., Saturday, October 31, 1981.
5. Exhibits that do not conform to these regulations will not be considered for competition.

V. DEADLINE

All applications shall be sent by certified mail, and shall be postmarked no later than September 29, 1981 (thirty days prior to the Annual Meeting).

EXHIBIT

APPLICATION FOR EXHIBIT SPACE

application

Name _____

Address _____

City _____ State _____ Zip _____

Exhibit Title: _____

Number of VIEWBOXES required; _____ (Maximum of four)

Student _____ Technologists _____

Mail application to: Exhibit Chairman
 (CERTIFIED MAIL) James L. Watson, R.T.R.
 3705 Rutledge Drive
 Columbia, MO 65202

DEADLINE: 29 Sep 1981

Missouri Society of Radiologic Technologists

Application for Membership and/or Renewal Notice

I hereby make application for membership and/or renewal in the Missouri Society of Radiologic Technologists for period of July 1, 19~~81~~⁸¹ to June 30, 19~~82~~⁸²

The M.S.R.T. Dues Year begins July 1 and ends June 30

Applications made between March 16 and November 30 will be for a full year

1981-82 DUES RENEWAL

FEES:

ACTIVE MEMBER

Only a paid-up active member of the American Society of Radiologic Technologists may join the Missouri Society of Radiologic Technologists as an active member.

Missouri Society (Annual) \$15.00_____

ASSOCIATE MEMBER

Those persons actively practicing the art and science of Radiologic Technology and who are not members of the ASRT.

Missouri Society (Annual) \$15.00_____

SUPPORTING MEMBER

Those persons interested in Radiologic Technology but not having qualifications for other categories.

Missouri Society (Annual) \$15.00_____

IN-ACTIVE

Those persons who were former Active Members but no longer engaged in the practice of Radiologic Technology.

Missouri Society (Annual) \$10.00_____

STUDENT MEMBER

(Annual) \$7.50_____

Make remittances payable to:

MISSOURI SOCIETY OF RADIOLOGIC TECHNOLOGISTS.

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St Louis, Mo 63144

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Member of Missouri Society of Radiologic Technologists

1981

dates to remember

- August 9 - 13 American Association of Physicists in Medicine
 (AAPM), BOSTON
- 17 - 21 American Institute of Ultrasonic Medicine
 (AIUM) SAN FRANCISCO
- 23 - 27 American Hospital Radiology Administrators
 (AHRA) WASHINGTON, D.C.
- September 13 ESSAY DEADLINE - Missouri Society of Radiologic
 Technologists
- 17 - 19 Iowa Society Annual Meeting
 DUBUQUE
- 17 - 19 Illinois Society Annual Meeting
 CHICAGO
- 29 EXHIBIT DEADLINE - Missouri Society of Radiologic
 Technologists
- October 13 - 17 American Society of Therapeutic Radiologists
 (ASTR) MIAMI
- 29 - 31 MISSOURI SOCIETY ANNUAL MEETING
 Tan-Tar-A
- November 6 Missouri Hospital Association
 (MHA) Tan-Tar-A
- 12 Diaz Lecture - Mallinckrodt Institute
 ST. LOUIS
- 14 Radiological Society of North America
 (RSNA) CHICAGO
- December 1 NEMA Essay Deadline - A.S.R.T. Competition

* * * * *

RADIOGRAPHER EDITOR

THE MISSOURI SOCIETY OF RADIOLOGIC
TECHNOLOGISTS IS ACCEPTING APPLICANTS
FOR THE POSITION OF:

Editor, RADIOGRAPHER

Applications and resumes should be
submitted to the President, MSRT.

This position reports directly to the
Board of Directors and Board meeting
attendance is required.

For a listing of duties and re-
sponsibilities, contact the President

* * * * *



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