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MISSOURI RADIOGRAPHER

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**The Missouri Society of
Radiologic Technologists**

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2 year term
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1 year term
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Columbia, Mo. 65202

VOL. 45

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BOARD OF DIRECTORS MINUTES: January 25, 1986

The January, 1986 Missouri Society of Radiologic Technologists Board of Directors meeting was called to order by President Pam Fulmer at 10:05 am in Columbia, Mo.

BOARD MEMBERS PRESENT

Pamela S. Fulmer	President, Chairman of the Board
John Bryan	Board Member (Past-President)
Ruby Givens	President-Elect
John Desch	Vice-President
Kathryn Parsons	Treasurer
Barbara Hente	4th District Representative, Ways & Means Chm., Editor, <u>RADIOGRAPHER</u>
Nikki Thielmann	5th District Representative, 1985 Annual Meeting Co-Chm.
Jennifer Ewert	7th District Representative, Nominating Chm.
Michael D. Ward	2 year MSRT delegate to ASRT House of Delegates, Eastern Counselor

NON-BOARD MEMBERS PRESENT

Linn Neely	Membership Chm.
James Watson	1986 Annual Meeting Chm.
Dr. Kenneth Steiner	UMC, Office of Continuing Ed.
Debra A. Nicholson	Student Affairs Committee member
Norman L. Hente	ASRT Region V, Regional Director, MSRT Historian, Parliamentarian

BOARD MEMBERS ABSENT

Lee Ann Ackerman	Secretary
Debra Hurst	1 year MSRT delegate to ASRT House of Delegates
Mildred Burns	Western Counselor

The minutes of the October 9, 1985 Pre-Convention; October 10-11, 1985 Convention and October 12, 1985 Post-Convention meetings were accepted as printed in the RADIOGRAPHER (Vol. 44, No. 4).

Treasurer Kathy Parsons presented a written report for the first quarter of our 1985-1986 fiscal year.

1985 Convention Dr. Steiner presented a profit & loss statement detailing all items of income and expenses handled by the University of Missouri for our 1985 Annual Meeting. He corrected his written statement to reflect a net loss of \$1709.22. After the statement had been prepared, more income had been received and the net loss incurred by UMC was \$613.04. Motion #1: Michael D. Ward moved that the MSRT reimburse the U. of Mo. \$613.04 for 1985 convention balance. Second by John Desch. Motion carried. Treasurer Parsons gave Dr. Steiner a check for \$613.04. (Brief discussion held here regarding 3 part Motion forms: it was decided that the white copy would go to the Secretary, the pink to the Historian and the yellow copy to the President. Division of copies will allow for follow up action if needed.) Dr. Steiner discussed the fees charged by UMC for use of their services: \$2500 vs. percent of gross receipt collected.

1986 Convention: Convention chairman Jim Watson confirmed the dates of September 24-27, 1986 for the Breckenridge-on-the-Lake, Lake of the Ozarks. He further indicated that it will be a multi-track educational program. There will be specific tracks for students, managers, RT's and a Saturday program for Ultrasound, Radiation Therapy. There will be no Saturday program for Nuclear Medicine due to the Missouri Valley Chapter (SNM) program being held only 2 weeks prior to our meeting. Jim also provided the following information: there will be no ARRT representative (ARRT only provides a representative every other year), probable educational program(s) on Wednesday evening, various ideas for improving the attendance at the Presidential Ball-Sante Lecture-Receptions and the results of the survey regarding the need/interest in a program for radiology managers.

1987 Convention: President Fulmer reported a bid for the 1987 Annual Meeting had been received. Motion #2: I move that the 1987 MSRT Convention be held in St. Louis, Mo., sponsored by the 4th District membership. Made by Nikki Thielmann, second by Ruby Givens. Motion passed.

Committee Reports

Education Committee: Chairman Connie D. Huesgen was not present. John Desch reported that he had contacted schools in Farmington and St. Louis for input regarding Student Affairs. The possibility of RT/Student "trivial pursuit" competitions were discussed.

Membership Committee: Linn Neely is sending letters to selected Missouri ASRT members who are not MSRT members providing information about the MSRT. This information includes an application along with a letter. Treasurer Parsons also brought to our attention that we no longer have any 1/2 year memberships. A few old applications were received with 1/2 year membership fees, these will be accepted, but any future 1/2 year fees will be returned.

By-Laws: The committee was asked to look into changes needed regarding the ASRT House of Delegates.

Ways & Means: Chairman Barbara Hente reported that preliminary contacts have been made regarding the Scholarship fund raffle. Tickets will be available for District Representatives and Board members at the April Board meeting. Enough tickets will be ordered to allow for state wide distribution as well as some to be mailed with membership renewal applications. Discussion was held regarding offering logo/lapel pins and bumper stickers through our journal, to be purchased from the Editor; arrangements will be left to the discretion of the Editor.

Scholarship Fund: Ruby Givens will update the information/applications as necessary and forward to the Editor for publication. Ruby will also contact other professional organizations for possible donations to the scholarship fund.

Nominating Committee: Jennifer Ewert reported that she needs envelopes to begin the process of sending out nominating ballots. The 1986 Convention Chairman, Jim Watson, will obtain a P.O. Box near the convention site for return of election ballots. Jennifer will update the position descriptions for each officer that are mailed with the nominating ballots. She will also make the appropriate changes in the actual nominations needed.

Recess at 12:15 for lunch: Reconvene at 1:45 pm.

RADIOGRAPHER: Editor Barbara Hente gave a report regarding changes made in the last issue (Vol. 44, No. 4). She further reported on items needed for the next journal with a deadline of Feb. 14th for the March issue. Other deadlines will be May 9th (June issue), August 8 (September issue). Barbara requested the dates for the next two Board meetings and President Fulmer reported April 26th - 10 am - Parklane Medical Center (Kansas City) and July 19th (at the convention site). Barbara will investigate the costs involved in offering logo/lapel pins and bumper stickers for purchase and if feasible, will include the information in the next journal.

District Representative Reports:

District 4: A verbal report was given by Barbara Hente. Barbara also reported on the bid for the 1987 convention: tentative dates will be October 8-10, 1987. Hotel visits have already been made and written

proposals are being received. Dr. Steiner has been contacted for information. The district plans to have committee chairman and general program outline for the April MSRT Board meeting. Barbara indicated that the district meets monthly, on the 3rd Thursday. The February meeting will be a student presentation, March will be CT Pathology, April will be Essay and Exhibit Competition, May is planned to be a joint meeting with the 11th District (Illinois Society) and election of officers. June will be a dinner meeting with installation of officers.

District 5: Nikki Thielmann gave a verbal report. The March meeting will be at Freeman Hospital, May will be a dinner meeting. The district meets every other month.

District 7: Jennifer Ewert reported that the March 8 meeting will be at Bethany Medical Center in Kansas City and will be a full day seminar with ECE points available. The June meeting will be in St. Louis.

Counselor Reports:

Eastern Counselor Michael D. Ward reported he has approved ECE credit for the 4th District. He has given out applications for MSRT, ASRT, and ECE.

Western Counselor Mildred Burns was absent, report given by Ruby Givens that approval for ECE credit has been given for the Radiation Therapy Seminar to be held in March.

Regional Director Report: Norman L. Hente, Director, Region V ASRT reported that he had received a reply to our inquiry regarding requirements for a picture donation to the ASRT office. Ward Keller, Executive Director of ASRT, responded that there are no specific requirements. Motion 3: Ruby Givens moved that the MSRT Board of Directors allot \$200.00 to purchase a framed print to send to ASRT that is representative of the State of Missouri. Second by Nikki Thielmann. Motion carried. Norman further reported that the ballots for ASRT officers and regional modality representatives will be out in April to be returned in May. Norm reported the request for the Regional Director to attend our 1986 Annual meeting has been received. A written acceptance will be forthcoming.

Unfinished Business:

By-laws: Norman Hente to contact Debbie Hurst. John Bryan: reported our viewboxes were rented to an outside group for a fee of \$40.00. (Ruby will check on "contract" for viewbox rental and will have an informal agreement for the Board to review at the April meeting.)

Ruby Givens: will report at the April meeting regarding the certificates-plaks-gifts policy for outgoing Board members.

Nikki Thielmann: proposed changes in the convention manual are being made with typing being done now. As soon as proposed revisions are made a copy will be forwarded to 1986 convention chairman Jim Watson. The Board will review the proposed changes at the April meeting.

Proposed Sante Lectureship names were given to President Fulmer; proposed life membership nominees were given to Membership Chairman Linn Neely by Barbara Hente. Linn will contact Barbara for further clarification of guidelines for Life/honorary membership. Linn is also contacting the current life/honorary members to check on their status.

Other deadlines for reports were reported as: John Bryan: Convention deadline for: officer duties update; calendar; and officer manuals.

New Business:

Ruby Givens requested information regarding the logo used on our letterhead. Norm will forward hard copies of any logos in the history files.

Information was received from Saint Joseph's College, Roanoke, VA, regarding their External Degree Services. Further information can be obtained by calling 1-800-336-2781.

President Fulmer reported that Debbie is aware that the Articles of Incorporation renewal notice should be forthcoming.

Discussion was held regarding including phone numbers in the Board listing printed in the Radiographer. Each person listed is to advise Barbara if they wish their phone number listed.

With no further business the meeting was adjourned at 4:45 pm.

Submitted by:

Barbara W. Hente, BA, RT-N(ARRT), CNMT
in the absence of the Secretary

MISSOURI SOCIETY OF RADIOLOGIC TECHNOLOGISTS

APPLICATION FOR MEMBERSHIP

New ___ Renewal ___ July 1, ___ to June 30, ___

ACTIVE MEMBER: RADIOLOGIC TECHNOLOGIST REGISTERED BY AND IN GOOD STANDING WITH A NATIONALLY RECOGNIZED CERTIFYING BODY \$15.00__

SUPPORTING MEMBER: THOSE PERSONS INTERESTED IN RADIOLOGIC TECHNOLOGY BUT NOT HAVING QUALIFICATIONS FOR OTHER CATEGORIES \$15.00__

IN-ACTIVE MEMBER: FORMER ACTIVE MEMBERS \$10.00__

STUDENT MEMBER: ENROLLED IN TRAINING PROGRAM ACCEPTED BY ARRT OR OF 24 MONTH DURATION \$ 7.50__

MAKE REMITTANCE PAYABLE TO: MSRT
Send completed application and fee to: Kathryn Parsons
206 Pine Ave.
Camdenton, Mo.
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NAME: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

IF THIS IS A NEW NAME/ADDRESS: PLEASE INDICATE PREVIOUS NAME/ADDRESS:

Please fill in the information below to enable us to serve you better. All information is for MSRT information/use only.

Registered by: ___ ARRT; ___ RDMS; ___ NMTCB; ___ Other (please indicate)

Are you a District member: ___ yes ___ no District(s): ___

Employed by: _____

Position: _____

Please write any comments or suggestions below;

Dear Friends,

As the midpoint of my term approaches, I am looking at past accomplishments and determining priorities for future goals.

For the MSRT to progress we need your help, we need your support. That statement has been repeated for many years. Sometimes the Board of Directors of the Missouri Society of Radiologic Technologists is at fault. We get so busy trying to accomplish our set goals, that we forget to ask our membership for help. If a Board member asks for help please set a small amount of time aside to help us.

There are many things happening. The 1986 Annual Meeting is being held at the Lake of the Ozarks. Jim Watson (Chairman) would love to have volunteers to help plan and work at the convention. John Desch is coordinating the student activities. All students please contact him, he would appreciate it greatly. Linn Neely is tackling the membership problem. If you know of someone who is not a member, please contact Linn so she can send them information. Barbara Hente needs articles for the Radiographer. So as you can see, we're busy, but we would like to get to know each one of you better. Please let us by volunteering your help.

Sincerely,

Pam Fulmer, RT
President

Student Affairs Committee

As chairman of the Student Affairs Committee, I have concentrated by efforts in the Columbia Area. I have met with students from the University of Columbia Radiologic Technology Program seeking information regarding their interests and needs. Sample responses from the students include: 1. networking with other students/professionals in radiology 2. including information in the Radiographer relevant to the field of radiology 3. expanded educational opportunities and activities for students at the annual MSRT meetings.

Having acquired a database of interested students in the Columbia area, I will now be calling on other members throughout the state to help organize and communicate to more of the student population.

If you are interested in helping or know of students who would be interested, please contact me;

John Desch
1307 Gary
Columbia, Mo. 65203

1985-1986 Membership Roster

We will be publishing the MSRT membership roster again this year. Please make sure your membership is up-to-date, and your name/address is correct. If there are any changes, please notify the treasurer now.

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EVALUATION OF ANKLE SPRAINS BY ARTHROGRAPHY

Before the 1940's little on the subject of ankle arthrography appeared in American literature. Drs. Berridge and Bonnin in 1944 discussed ankle arthrography and pointed out its value in the diagnosis of ruptures of the tibio-fibular syndesmosis. They originally did not think that this procedure had a wide sphere of use and preferred radiography of the joint with strain, under general anesthesia for testing the integrity of the medial and lateral ligaments.

Anatomy The ankle is a ginglymus or hinge-joint, formed by the lower ends of the tibia and fibula and the upper surface of the talus (or astragalus). The joint capsule is attached at the bone-cartilage border of these bones. Anteriorly and posteriorly the capsule is lax and forms prominent recesses that allow plantar flexion and dorsiflexion at the joint. Laterally and medially the capsule is taut and reinforced by collagenous fibers called ligaments. The synovial membrane of this joint is extensive, being very loose and extending beyond the actual articulation. Synovial membranes line the walls of the cavity and secrete synovial fluid to lubricate the joint. A ligament attaches to processes on one of the articulating bones, runs alongside the joint, and attaches to processes on the other bone.

The ligaments of the ankle are the structures of interest in this discussion and will be described in some detail. The ankle has four thickened bands of ligaments, namely the Anterior, Posterior, Internal lateral or Deltoid ligament and the External lateral ligament.

The Anterior ligament is a broad, thin, membranous layer, attached (above) to the anterior margin of the lower extremity of the tibia; below, to the margin of the talus, in front of its articular surface.

The Posterior ligament is very thin, and consists principally of transverse fibers. It is attached above, to the margin of the articular surface of the tibia, blending with the transverse tibio-fibular ligament; below, the talus behind its superior articular facet.

The Internal lateral or Deltoid Ligament is a strong, flat, triangular band, attached (above) to the apex and anterior and posterior borders of the inner malleolus. The most anterior fibers pass forward to be inserted into the navicular bone and the inferior calcaneo-navicular ligament; the middle fibers descend almost perpendicularly to be inserted into the os calcis; and the posterior fibers pass backward and outward to be attached to the inner side of the talus.

The External lateral ligament consists of three distinctly specialized fasciculi of the capsule, taking different directions and separated by distinct intervals; for which reason it is described by some as three distinct ligaments namely; A) the anterior fasciculus (anterior astragalo-fibular), the shortest of the three, passes from the anterior margin of the external malleolus forward and inward to the talus. B) The posterior fasciculus (posterior astragalo-fibular), the most deeply seated, passes inward from the depression at the inner and back portion of the external malleolus to a prominent tubercle on the posterior surface of the talus. Its fibers are almost horizontal in direction. C) The middle fasciculus (calcaneo-fibular), the longest of the three, is a narrow, rounded cord passing from the apex of the external malleolus downward and slightly backward to a tubercle on the outer surface of the os calcis.

The movements of the joint are those of flexion and extension. The malleoli tightly embrace the talus in all positions of the joint, so that any slight degree of lateral movement which may exist is simply due to stretching of the inferior tibio-fibular ligaments and slight bending of the shaft of the fibular ligaments and slight bending of the shaft of the fibula. Of the ligaments, the internal, or deltoid, is of very great power - so much so that it usually resists a force which fractures the process of bone to which it is attached.

Indications The ankle joint is more frequently sprained than any joint in the body and this may lead to acute synovitis (or inflammation of the synovial membrane). In this case, the synovial sac is distended with fluid. The term ankle sprain more properly describes a partial or complete tearing of one or more of the ankle ligaments. Some physicians believe "ankle sprain" should be reserved for a complete ligament rupture. Unfortunately, the signs and symptoms of complete ligament rupture are simulated by less serious injuries, and differentiation on clinical grounds is often impossible. The use of stress radiographs, while often helpful, may be misleading.

Two main indications for this procedure have been: (a) the evaluation of patients with persistent pain following sprains and (b) in some acute cases consideration of surgery as a possible method of treatment. This is done when one suspects a combined tear of the anterior talofibular and calcaneofibular ligaments.

Patients who present with massive injuries and clear cut instability probably would be offered very little by arthrography since the anatomic situation often speaks for itself. Patients with exceedingly mild injuries who do not have significant swelling, instability, or subjective symptoms are also not good candidates for arthrography as it is likely that their problems will resolve quickly and neither prolonged immobilization nor surgery is indicated. The group of patients who fall between these extremes constitutes the main patient population for whom arthrography is advised.

Technique Prior to the arthrogram procedure routine radiographs should be taken, which include an AP, oblique, and lateral projection. Unless a fracture has been sustained, these views are usually of little help in establishing a significant pathologic process. Occasionally, small flecks of avulsed bone or periosteum will be identified, and their presence as a consequence of recent ligament rupture may be surmised. Stress films can be useful in the radiographic analysis of soft-tissue injuries about the ankle joint. Stress films have to be used with a full knowledge of their limitations.

For preparation, the skin around the immediate site of contrast injection is scrubbed with a betadine solution, then is draped with sterile towels. Local anesthesia with 1% Xylocaine is administered. Under fluoroscopic control, the ankle joint is entered anteromedially with a 1 1/2 inch, 20 gauge needle. One can tell when the joint has been entered by the ease of the Xylocaine injection and by observing the position of the needle tip using fluoroscopy.

After puncture any fluid in the joint space is aspirated so as not to dilute the contrast agent. The syringe containing the remaining Xylocaine is disconnected and one containing contrast medium (either 50% Hypaque, Conray or Renografin) is attached. From 6 to 10 ml of medium is injected under fluoroscopic control and should spread rapidly throughout the joint. If the medium does not spread but remains near the needle tip, injection into an extracapsular site can be surmised. The point of the needle should be repositioned before the injection of any more contrast material.

Every patient should be advised that he will note a sensation of fullness in the joint which will disappear slowly, but he should not have any actual pain. By the time the films are developed, the discomfort is ordinarily gone. After the injection, the needle is removed, and any spilled contrast medium is carefully wiped away. The ankle should now be moved as vigorously as possible to spread the injected material throughout the joint and through any tears which may be present in the capsule or ligaments.

Films are then taken as rapidly as possible in AP, internal oblique, and lateral projections. In addition, AP views in forced eversion and inversion are taken. These radiographs are viewed and, if additional films are needed, they can be obtained immediately before contrast material absorbs.

Ideally, the examination should be done as soon as possible after injury. Delays of a week or more can result in false-negative studies, as the tears in the capsule or ligament may be sealed by an organized clot and adhesions. There are no contraindications to this examination except for known iodine sensitivity. The distension of the joint causes some pain but does not last long and is not severe. The contrast medium is absorbed rapidly, making this a short-lived, minor side effect of the procedure.

Normal Ankle Arthrograms In the normal arthrogram, no extra-articular leak of contrast occurs except for normal filling of the surrounding muscle sheaths. The synovial lining of the ankle normally forms lateral and medial pouches which, as seen on AP views, extend to the region of the tips of the malleoli. On lateral radiographs, additional somewhat baggy pouches are seen anteriorly and posteriorly. These pouches tend to enlarge and become irregular with age or trauma. The small recess in the region of the syndesmosis is best seen on the oblique view. About 10% of the cases show contrast filling of the posterior portion of the talocalcaneal joint. Other types of extra-articular contrast distribution following injection into the ankle joint are pathologic.

Abnormal Ankle Arthrograms The interpretation of abnormalities is not difficult if one has a clear understanding of the anatomic alterations produced by severe ankle sprains in which one or more ligaments may be ruptured. The contrast medium should extravasate in a predictable manner and renders radiographic interpretation relatively easy.

Rupture of the anterior talofibular ligament results in extravasation of contrast anterior to and laterally alongside the lateral malleolus. On the lateral view there is a clear space between the medium and the region of the anterior tibiofibular ligament; hence confusion with rupture of this ligament and the syndesmosis can be avoided.

Rupture of the calcaneofibular ligament is invariably associated with tearing of the anterior talofibular ligament; and there will thus be arthrographic signs of rupture of both. When the calcaneofibular ligament ruptures, tearing of the inner aspect of the tendon sheath causes it to fill with contrast medium.

A tear in the deltoid is rarely complete and usually occurs in its anterior portion. The site of the tear is localized by the site of extravasated medium in relation to the medial malleolus. With a complete deltoid ligament tear, massive extravasation about the medial malleolus is noted.

A tear in the anterior tibiofibular ligament is identified by an escape of contrast medium anterior to the tibiofibular syndesmosis and by a disruption of the recess normally seen at the inferior aspect of the syndesmosis.

The arthrographic appearance of any ligament rupture is not altered by the presence or absence of an avulsed fragment.

Summary Ankle arthrography is an accurate method of evaluating these injuries, and evaluation is necessary if the physician wished to immobilize completely only those cases of ligament ruptures. If the treating physician is going to immobilize all ankle sprains, then perhaps accurate evaluation of the underlying pathology is not necessary. Given this set of circumstances, ankle arthrography will play its greatest role in evaluating patients with persistent ankle pain following adequate treatment.

The arthrogram provides more accurate and detailed information than can be obtained by stress films under anesthesia, and is less dangerous to the patient than spinal or general anesthesia. Arthrography of the ankle is a simple, safe, and effective method of studying certain aspects of the normal and pathological anatomy of the ankle joint. In cases where the diagnosis appears obscure, the method has frequently proved of benefit in establishing the proper diagnosis of ankle abnormalities.

Michael D. Ward, R.T., B.S.
Assistant Program Director
Mallinckrodt Institute of Radiology
Washington University School of Medicine
St. Louis, Missouri

References

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3. Merrill, V.: *Atlas of Roentgenographic Positions*, Vol. 1, St. Louis, C.V. Mosby Co., 1967. pp78-91.
4. Olson, R.W.: Arthrography of the Ankle: Its Use in the Evaluation of Ankle Sprains. *Radiology* 92: 1439-1446, 1969.
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Nominating Committee Report

Requests for nominations for MSRT officers will be mailed in early May. The eligibility requirements for nominees are that they be active or life members in good standing with the MSRT. All nominations to be considered must be postmarked no later than June 1st, 1986.

If you have questions, don't receive a nomination ballot, or "just can't wait", contact the Nominating Committee Chairman, Jennifer Ewert. Your nominating ballot should be received in early May.

On Joining a Professional Association

Thanks go to Pam Fulmer for this article from the November 10, 1985 Kansas City Star, by Michael Grimaldi, Assistant Business & Financial Editor.

"Here are some advantages to joining a professional association, according to one such group: the Society for the Advancement of Material and Process Engineering.

Professional associations provide an opportunity to band together or contribute expertise to solve and industry's problems.

Members increase their chances of being considered for hard-to-get and often unadvertised jobs.

There are opportunities for social interaction with people who have common career or professional interests.

Fellow members, often only a phone call away, serve as a network of information.

Some associations offer a database of research information, or perhaps a professional staff that can assist with unusual problems.

Associations offer as much moral support as its members desire.

Looking for an association? Try "The Encyclopedia of Associations", published by Gale Research Co. of Detroit, or other such directories in the reference section of the public library."

Attention Colleagues & MSRT Members

As the Eastern Counselor of the Missouri Society of Radiologic Technologists, I am encouraging and inviting all Districts in the Eastern half of the state to obtain Evidence of Continuing Education (ECE) point approval for all meetings.

ECE credit offers an added incentive for members to attend lectures and meetings. If your district wishes ECE point approval contact me and I can forward the necessary forms to you. It is best that you seek this approval at least 30 days in advance of the meeting.

If anyone wishes ECE membership applications, ASRT or MSRT membership forms, ASRT services information, or ASRT Educational Foundation information, please contact me.

Remember -- we are here to serve you.

Michael D. Ward, RT, BS
Eastern Counselor
Mallinckrodt Institute of Radiology
510 S. Kingshighway Blvd.
St. Louis, Mo. 63110

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SCHOLARSHIP INFORMATION

The Missouri Society of Radiologic Technologists is pleased to offer an opportunity for financial assistance to a second year technology student. This is the second year that we are able to offer assistance to a deserving student to continue their technology education.

All second year students with financial needs are encouraged to apply. The form of application is as follows:

1. Scholarship application form
2. Recent photograph of applicant (optional)
3. Two (2) recommendation letters (not over 200 words)
4. Transcript of credits: to include
 - a. rank in class
 - b. scores of College Aptitude Tests
 - c. if enrolled in college: the latest, most complete transcript

Educational requirements for consideration include: grant must be used at the institution of study, and will be paid directly to the institution; the student must sign an agreement for repayment of grant if student leaves school prior to the second semester; recipient must be a Missouri resident (this includes metropolitan St. Louis and Kansas City areas).

Required information should be sent to:

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

DEADLINE FOR APPLICATIONS: July 1, 1986

If you have further questions, please contact

Ruby Givens
1938 E. Stoneridge
Springfield, Mo. 65803



THE MISSOURI SOCIETY OF RADIOLOGIC TECHNOLOGISTS

SCHOLARSHIP APPLICATION

Applicant's name: _____

Address: _____ City: _____ State: _____ Zip: _____

Date of Birth: _____ Age: _____ Phone Number: _____

Spouse's Name (if applicable): _____

Number of Children: _____

Parent or Guardian's Name (if applicable): _____

Address: _____ City: _____ State: _____ Zip: _____

Present Place of Employment: _____

Address: _____ City: _____ State: _____ Zip: _____

Education:

	Dates Attended	Date Graduated	Degree (if applicable)
--	----------------	----------------	---------------------------

High School:

College:

Other:

Income:

Gross Salary _____

Spouse's Salary (if applicable) _____

Parent's Support _____

Other Sources (Grants, alimony, child support)

Attach all high school and college transcripts.

MISSOURI SOCIETY OF RADIOLOGIC TECHNOLOGISTS

Rules and Regulations for SCIENTIFIC EXHIBIT COMPETITION

I. AWARDS

First, second, third place and honorable mention awards will be offered in both graduate and student technologist categories. Awards will be made at the discretion of the judges.

II. ELIGIBILITY

A. Graduate technologist category: Only active members of the MSRT are eligible to compete. Student members may be designated as co-exhibitors if they have made a significant but secondary contribution to the work.

B. Student technologist category: Only student members of the MSRT are eligible to compete. The exhibit must be the sole work of student member(s). No secondary contribution by others is permitted.

C. Exhibits which have previously been displayed at any state or national radiological or technologist meeting will not be considered for an award. However, they may be displayed on a non-competitive basis.

D. Exhibits must be the original work of the exhibitor(s).

E. The President of the MSRT, the exhibit committee, and the exhibit judges are not eligible to compete.

III. RULES FOR PRESENTATION OF EXHIBIT

A. Subject matter

1. Subject matter will be chosen by the exhibitor(s).

2. The subject matter must be pertinent to the science and/or practice of radiologic technology. For this purpose, the term radiologic technology shall include all those modalities employed in the field of radiology for the diagnosis or treatment of disease.

3. Subject matter should be of educational and/or practical value to other technologists.

B. Mechanics

1. All applications for exhibits must be sent by certified mail and shall be postmarked no later than thirty (30) days prior to the annual meeting. Proof of membership or membership application with fees must accompany the exhibit application.

2. The MSRT will provide four (4) 14 x 17 viewing spaces and one 6 foot by 30 inch table for each exhibit. Exhibitors may provide their own light sources and/or exhibit frames.

3. Exhibits submitted for competition must not show any images or any markings on either side which could identify the exhibitor(s), patients or institution in any way.

4. Exhibits submitted for competition must display the category for which they are competing. (ie., student, graduate technologist)

5. Exhibit space will be assigned by the chairman of the exhibit committee. The name of the exhibitor(s) and place of employment or training must be given 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 complete.

6. Exhibits and displays must be set up by 9:00 a.m. on the first full day of the meeting. Exhibits must remain on display until two (2) hours after the awarding of prizes. Exhibits must be down and removed from the exhibit area by 12:00 p.m. (noon) the last day of the meeting. The exhibit chairman may grant exceptions to this rule under unusual circumstances, such as emergencies.

IV. JUDGING AND AWARDING OF PRIZES

A. Three judges will be selected by the exhibit chairman with the

approval of the president of the MSRT.

B. All protests regarding eligibility and/or rule violations must be lodged with the exhibit chairman and be resolved before judging. No protests will be heard after judging is complete.

C. Awards shall be made only to those exhibits receiving a minimum score of 65 on a scale of 100 points.

D. Results of judging shall be made known at the last regular business session before the banquet.

E. Awarding of prizes shall be made at the banquet.

F. Judging shall use the following scale:

CRITERIA	POINT VALUE
1. EDUCATIONAL VALUE	0-40
a. Contribution to higher standards.	
b. Illustration of new or unusual technology.	
c. Treatment of current technology so as to be better understood.	
d. Treatment of technology from an historical perspective.	
e. Value to technologists with little experience or limited facilities.	
2. ORIGINALITY	0-20
a. Development of new technique or idea.	
b. Improvement of existing methods.	
c. Evidence of original investigative effort.	
d. Originality of exhibit idea or concept.	
3. PRACTICAL VALUE	0-20
a. Can information illustrated be used by most technologists to whom the exhibit applies?	
b. Ease of application under current state of the art.	
c. Will the exhibit concept improve practice or standards if it is applied?	
4. TECHNICAL QUALITY AND PRESENTATION	0-20
a. Organization: is material orderly and placed in logical sequence?	
b. Visual material: do images and other visual materials effectively promote understanding of the exhibit.	
c. Text: is the text clear, neat, easy to read and free from errors?	
d. Esthetic appeal: quality of models, illustrations, graphics, images and overall appearance and neatness.	

V. DEADLINE

POSTMARKED BY: AUGUST 25, 1986

NO EXCEPTIONS

RADIOLOGIC TRIVIA

Questions provided by Judy Taylor, student at Forest Park Community College in St. Louis. Answers elsewhere in this issue.

Questions:

1. Who invented the Bucky tray, and when?
2. Give two synonyms for Bremsstrahlung radiation.
3. The literal meaning of odontoid is:
4. The abbreviation p.r.n. means:
5. To demonstrate the sacrum in the P.A. projection, the central ray will be directed:

APPLICATION FOR EXHIBIT SPACE

Name (s) : _____

Address: _____

_____ zip code: _____

Telephone number: Area Code: _____ Number: _____

Place of employment or training: _____

___ Student ___ Technologist (check which category applies)

Proof of membership for all exhibitors if competing OR --- copy of current membership card application with fees enclosed

Number of view boxes requested _____ (Maximum of four)

Mail application by certified mail to:

Bryan M. Zionczkowski, R.T.
6529 South West Way
Columbia, Mo. 65201

DEADLINE AUGUST 25, 1986

NO EXCEPTIONS

Name of exhibit: _____

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Central Missouri
800-543-3000 Ext. 2251

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JOE PYLE
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Don R. Beussink
Regional Manager

MISSOURI SOCIETY OF RADIOLOGIC TECHNOLOGISTS

Rules and Regulations for ESSAY/SCIENTIFIC PAPER COMPETITION

I. AWARDS

First, second, third place and honorable mention awards will be offered in both graduate and student technologist categories. Awards will be made at the discretion of the judges.

II. ELIGIBILITY

A. Graduate technologist category: Only active members of the MSRT are eligible to compete. Student members may be designated as co-authors if they have made a significant but secondary contribution to the work.

B. Student technologist category: Only student members of the MSRT are eligible to compete. The paper must be the sole work of the student member(s). No secondary contribution by others is permitted.

C. Papers submitted for competition at any other state and/or national radiological or technologist meeting or which have been accepted for publication prior to the meeting are not eligible.

D. Papers must be original with the author(s).

E. The president of the MSRT, the essay/scientific paper committee and judges are not eligible to compete.

III. RULES FOR SUBMISSION OF PAPERS

A. Subject matter

1. Subject matter will be chosen by the author(s).

2. The subject matter must be pertinent to the science and/or practice of radiologic technology. For this purpose the term radiologic technology shall include all those modalities employed in the field of radiology for the diagnosis and/or treatment of disease.

3. Subject matter should be of educational and/or practical value to other technologists.

B. Mechanics

1. All manuscripts must be sent by certified mail and shall be postmarked no later than forty-five (45) days prior to the annual meeting. The manuscript must be accompanied by an essay/scientific paper application. Proof of current MSRT membership or membership application and fees must also be included.

2. Four (4) copies of the manuscript must be submitted: three (3) unidentified and one identified.

3. Manuscripts must be typed and double spaced on one side of good quality white bond paper, eight by eleven and one-half inches in size with wide margins and numbered pages securely fastened on the left side.

4. Manuscripts should be at least one thousand five hundred (1,500) words in length. Reading time should be ten to fifteen (10-15) minutes.

5. When used, references and quotes must be identified. Non-indication of references shall be construed as plagiarism. Evidence of plagiarism shall immediately disqualify the paper.

6. When used, illustrations must be incorporated into the text or may be fastened to the paper in a group at the end of the manuscript. They must be properly numbered and labeled to correspond with information in the text. Illustrations must be no larger than 8x10 inches. Slides may be used if appropriate. The illustrations used must not show any images or markings which could identify the author(s), patients, or institution in any way.

IV. JUDGING AND AWARDING OF PRIZES

A. Three judges will be selected by the essay/scientific paper committee chairman with the approval of the president of the MSRT.

- B. All protests regarding eligibility and/or rule violations must be lodged with the essay/scientific paper chairman and be resolved prior to judging. No protests will be heard after judging is complete.
- C. Awards shall be made only to those papers receiving a minimum score of 70 on a scale of 100 points.
- D. 1st place winners shall be notified prior to the annual meeting. First place winners may be asked to read their paper at the meeting. Reading is limited to 20 minutes. Additional visual aids may be used if desired. Author(s) are responsible for preparation of these visual aids.
- E. Awards shall be announced to the membership at the last regular business session before the banquet.
- F. Awarding of prizes shall be made at the banquet.
- G. Judging shall use the following scale:

CRITERIA	POINT VALUE
1. EDUCATIONAL VALUE	0-40
a. Contribution to higher standards.	
b. Illustration of new or unusual technology or practice.	
c. Treatment of current technology or practice so as to be better understood.	
d. Treatment of technology or practice from an historical perspective.	
e. Value to technologists with little experience or limited facilities.	
2. ORIGINALITY	0-20
a. Development of new technique or idea.	
b. Improvement of existing methods or practices.	
c. Evidence of original investigative effort.	
d. Originality of essay concept.	
3. PRACTICAL VALUE	0-20
a. How well can the information illustrated be used by most technologists to which the paper applies?	
b. Ease of application under current state of the art.	
c. Will the paper improve practice or standards if it is applied?	
4. TECHNICAL QUALITY AND PRESENTATION	0-20
a. Organization: is material orderly and placed in logical sequence?	
b. Visual material: do images and other visual materials effectively promote understanding of the paper?	
c. Text: Is the text neat, clear, easy to read and free from errors?	
d. References: if applicable, are quotes, research results and all references properly acknowledged?	
e. Style: is the writing style used appropriate to the content of the paper and consistent throughout?	

V. DEADLINE

POSTMARKED BY: AUGUST 8, 1986

NO EXCEPTIONS

Trivia Answers

- 1. Dr. Hollis Potter; 1920
- 2. Polyenergetic; heterogenous
- 3. tooth-like
- 4. as needed
- 5. 8-10 degrees caudad

(How did you do??)

APPLICATION FOR ESSAY/SCIENTIFIC PAPER COMPETITION

Name(s) : _____

Address: _____

Telephone Number: Area Code: _____ Number: _____ Zip code: _____

Place of employment or training: _____

Title of paper: _____

___ Student ___ Technologist (check category which applies)

Proof of membership for all authors -- copy of current membership card
OR application with fees enclosed

Mail manuscript (four copies as indicated in rules) by certified mail to:

Bryan M. Zionczkowski, R.T.
6529 South West Way
Columbia, Mo. 65201

DEADLINE: AUGUST 8, 1986

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DISTRICT NEWS

The following companies, hospitals and persons were involved in the 1985 Annual Meeting as sponsors or donors. We wish to say THANK YOU for their help and assistance!! Listing is in random order.

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- Ozark X-Ray
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- Eugene Hughes, M.D.
- 7th District, MSRT
- St. John's Regional Health Center
- Schaffitzel's Greenhouses, Inc.
- Ted Betzen, D.V.M.
- Springfield Office Supply
- Springfield Area Chamber of Commerce
- Lawrence Photo-Graphic Supply, Inc.
- Radiation Consultants of Mid-America

District 4: Barbara Hente

The 4th District meets on the 3rd Thursday of each month at 7:30 p.m. The March meeting will be held at Forest Park Community College, Highlander Lounge. April will be the essay and exhibit competitions with a speaker. May will be a joint meeting with the 11th district (Illinois Society) held at Mallinckrodt Diagnostics, and will include election of officers. June 12th will be a dinner meeting, installation of officers and award presentations.

District 5: Nikki Thielmann

The 5th District meets every other month. January was at St. John's in Springfield, with Dr. Barry Farber as speaker on "Lithotripsy". The May meeting will be a dinner meeting.

District 7: Jennifer Ewert

March 8th will be a seminar at Bethany Medical Center in Kansas City. ECE credits have been approved. June will be another seminar to be held in St. Louis. The last seminar will be in conjunction with the Annual MSRT meeting in September. Announcements for these seminars are forthcoming in your mail.

THERAPY CORNER

The MSRT has an affiliated district specifically for radiation therapy technologists - the 7th District. The district is state wide and is always pleased to have new members. If you are interested, please contact any of the following district officers (dues are only \$5.00 per year):

Jan Dyer, President
St. Louis University
St. Louis, Mo.

Jennifer Ewert, President-Elect
Lester E. Cox Medical Center
Springfield, Mo.

Marilyn Wolfe, Secretary-Treasurer
Lester E. Cox Medical Center
Springfield, Mo.

If you are at an office or center that does not get a lot of news about the radiation therapy world, a quarterly publication is available from Ed VanArsdale.

Contact any of the above for more information.

If you are in contact with representatives from any of these companies listed, please let them know how much we appreciate their support of our Annual meetings.



NEED TO GIVE US A Call?



If you have a question/problem/suggestion and want to discuss it - the following should help: (remember, we are here to assist all technologists in Missouri)

Pam Fulmer, President and Chairman of the Board
home phone: (816) 373-3262
work: (800) 824-7888, Ext. M1065

Ruby Givens, President-Elect
home phone: (417) 833-3301
Work: (417) 836-3436
(volunteer for committee work 1986-1987, questions on Scholarship)

Lee Ann Ackerman, Secretary
home phone: (314) 487-7869

Jennifer Ewert
home phone: (417) 881-8215
Work: (417) 836-3436
(nominating committee, 7th District questions)

Barbara Hente
home phone: (618) 797-6817
(toll free from the city of St. Louis)
(Radiographer, Ways & Means, 4th District questions)

Nikki Thielmann
Work: (417) 836-8988
(5th District questions)

Norman L. Hente
Work: (314) 362-2990
(ASRT, MSRT History, parliamentary questions)

Joint Review Committee on Education in Radiologic Technology

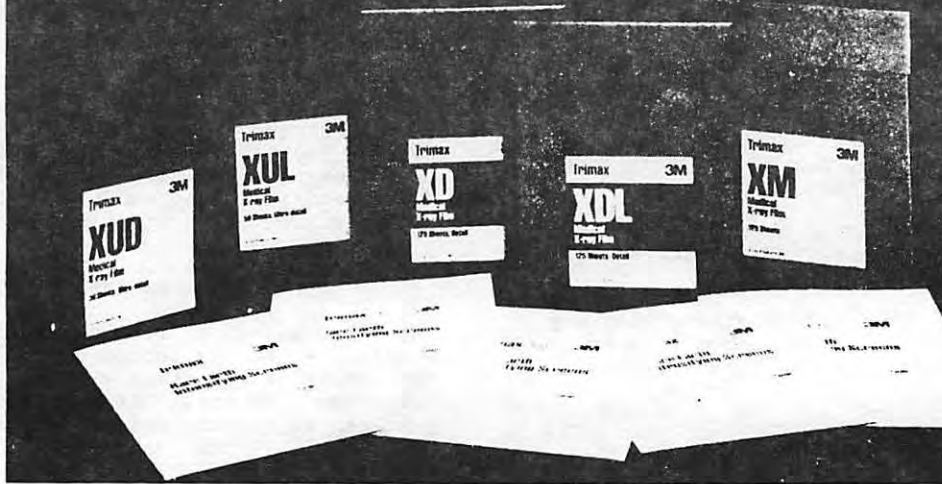
The JRCERT has an opening for the Executive Director position. Candidates should submit a curriculum vitae with three references by May 15, 1986 to:

Robert Sagerman, M.D.
Department of Radiotherapy
S.U.N.Y. - Upstate Medical Center
750 E. Adams Street
Syracuse, NY 13210

- Preferred Qualifications:
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(information received from Assistant Director, JRCERT, Marilyn Fay, B.A., R.T.)

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