We can't encourage you to nail down the deck chairs any longer

**Medi-Physics announces the Professional Partnership Program**

**A new alternative in the age of DRGs**

When crisis strikes—whether it's an iceberg or prospective reimbursement—some people waste time on empty gestures... like nailing down deck chairs on the Titanic... or trying to negotiate with isotope suppliers for lower prices after DRGs.

For too long, the decision to purchase radio-pharmaceuticals has been based primarily on price. And for too long, prices have been reduced to win and keep your orders. As your partner in nuclear medicine, Medi-Physics can offer you an alternative to “nailing down the deck chairs,” and you have a right to expect that from a partner.

**Increasing patients means increasing revenue**

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**Now, from Medi-Physics:**

“The Professional Partnership Program”

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To learn more about PPP, available exclusively from Medi-Physics, contact your local Medi-Physics representative, or call 1-800-MEDI-123.

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SCIENTIFIC PROGRAM

Plenary Sessions:
Instrumentation by A. Todd-Pokropek, UK
Radiopharmacology by A.P. Wolf, USA
Endocrinology by G. Riccabona, Austria
Cardiology by R. Ihi, France
Neurology by I. Podreka, Austria

Scientific papers (the deadline for Abstracts is over):
Technicians (Technologists) Program, Pre- and Post-Congress Meetings
Works in Progress: Full manuscripts can be submitted up to August 5, 1987, to the Congress Secretariat: Prof. L. Czernay, Institute of Nuclear Medicine, University Medical School, H-6720 Szeged, Koranyi fasor 8, Pf., 469, Hungary.

EXHIBITION

Comprehensive scientific exhibitions (Hevesy Memorial Exhibition & History of Nuclear Medicine in Europe) and commercial exhibition of equipment and radiopharmaceuticals.

SOCIAL PROGRAM

An elaborate social program has been planned, including: the Opening Ceremony with a concert in the Congress Palace of Budapest, a wine-and-cheese welcoming party; an evening in the Castle of Buda, featuring renowned opera singers, organ music, and a reception in the National Gallery; a banquet and dance; a farewell luncheon; and the first European Nuclear Medicine Tennis Championship. Ladies' programs: Sight-seeing, fitness program, cooking course, walking tour in Buda Castle. Excursions to Szentendre, to Esztergom and to the Hungarian puszta. Possibility to take part in further optional tours before and after the Congress.

Registration: Members of the Society of Nuclear Medicine–Europe (SNME) and of the European Nuclear Medicine Society (ENMS) will be admitted free of charge. Registration fee for all others: 210 Swiss francs by June 20, 1987, and 300 Swiss francs after June 20, 1987

Travel Arrangements: Garber Travel, the officially appointed U.S. agent for the SNM in the coordination of travel arrangements to the European Nuclear Medicine Congress, will offer the lowest possible fare and hotel accommodations in Budapest. Garber has agreed to receive Congress Registrations in U.S. dollars for all registrants who are booking air and land arrangements. Call Toll-Free from outside Massachusetts 1-800-225-4750 or (617)787-0600. Ask for Nuclear Medicine Congress Desk. For detailed information contact: GARBER TRAVEL, P.O. Box 404—Dept. 91-7023, Brookline, MA 02146

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As nuclear medicine professionals, we confront the risks associated with radiation on a daily basis. While accidents are rare, every precaution should be taken to insure the safety of all involved.

The Society of Nuclear Medicine has produced the following audiovisual programs on the subject of radiation safety. The authors are experts in the field, and all nuclear medicine professionals can benefit from their experience.

These programs are presented on 35mm slides with the authors’ lectures on audiocassette tape, for use in any manual or automatic projector/tape player. CEL 31 is also available on videotape in VHS, Beta, and ¾" U-matic formats, conforming to NTSC standards.

**CEL 31 NUCLEAR ACCIDENT MANAGEMENT (1984)**
James J. Conklin, M.D.

It is important that all individuals in nuclear medicine be familiar with radiation accidents and their implications. This program presents, through the use of multiple diagrams, cartoons, charts and actual illustrations of radiation injuries, a comprehensive review of the types of accidents, their incidence, a review of cellular radiation biology and radiation physiology, and how one would treat various radiation injuries. Most importantly, there is a comprehensive discussion of how the administrative process that must be put into place in the hospital setting in order to deal effectively with a radiation accident is accomplished. The personnel required, design of a radiation decontamination room, equipment and the step by step monitoring and decontamination procedures utilized in a radiation accident are discussed and illustrated. (86 minutes)
150 slides/tape $100.00  VHS or Beta $120.00  ¾" $145.00

**CEL 43 RISK AND RADIATION PROTECTION (1984)**
Warren K. Sinclair, Ph.D.

The author, an acknowledged expert in the field of radiation protection, discusses the present status of risk estimation and the uncertainties associated with such estimates. Defined are the risks associated with radiation protection levels for occupationally exposed workers and the general public. The activities and role of national and international bodies such as the National Commission on Radiation Protection (NCRP) are discussed. Various comparative risk estimates are presented to place the problem in perspective. The trends in risk estimates and the data supporting these changes are also discussed. Various NCRP publications which relate to nuclear medicine are cited (35 minutes)
40 slides/tape $65.00  This program not available on videotape

**CEL 82 NUCLEAR ACCIDENT MANAGEMENT (1986)**
Eugene L. Saenger, M.D.

The potential for nuclear radiation accidents is real as evidenced by our experience at Three Mile Island and the Russian experience at Chernobyl. The incidence of such accidents is rare in comparison with other industrial accidents. Nevertheless, nuclear physicians must be aware of the types of injury which can occur, the acute radiation syndrome, the methods of monitoring such victims and the available treatments for radiation injuries. This audiovisual program also discusses the important factors affecting the acute radiation syndrome such as the dose and dose rate, the volume exposed and tissue and organ sensitivity. Case examples are illustrated. Lymphocyte monitoring enables an early prediction of the severity of the injury and subsequent outcome. Decontamination procedures are described. (57 minutes)
94 slides/2 tapes $95.00  This program not available on videotape

**CEL 83 RADIATION PROTECTION CONSIDERATIONS IN NUCLEAR MEDICINE THERAPY (1986)**
James E. Carey, M.S.

Health safety considerations involved in the use of radionuclide therapy are presented and regulatory requirements are discussed. Occupational exposures and methods to manage exposures to levels that are considered safe are detailed.

New federal regulations pertaining to radionuclide therapy (10 CFR 20, 10 CFR 35 and Regulatory Guide 10.8) are explained, including bioassay, dose limits and the use of personnel radiation monitoring devices. (38 minutes)
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Positions Available

Physician
ASSISTANT PROFESSOR, DIVISION OF NUCLEAR MEDICINE. University of Kentucky, Lexington, is seeking applicants in nuclear medicine. Candidates should be Board certified in nuclear medicine, preferably with Board certification in radiology or medicine. The successful candidate will be expected to have expertise in the clinical activity of the division as well as participate in research and resident teaching. Please address replies to: U. Yun Ryo, M.D., Ph.D., Professor and Director. Division of Nuclear Medicine, University of Kentucky Medical Center (Room N-7), Lexington, KY 40536. An Equal Opportunity Employer.

Excellent opportunity—seeking Board certified RADIOLOGIST with additional training in interventional radiology or Board certification in nuclear medicine to join 12-man private practice group covering two hospitals in suburban St. Louis. Applicant should have experience in CT, NM, US, mammography. Very competitive salary with excellent benefits. Send CV to: A.C. Hooper, MD, Ernst Radiology Clinic, Inc., Ste. 110, 14377 Woodlake Dr., Chesterfield, MO 63017; (314) 878-4680.

Supervisor
NUCLEAR MEDICINE TECHNOLOGY SUPERVISOR. The Nuclear Medicine Laboratory of The Methodist Hospital has an opening for an experienced Supervisor. The successful candidate must have an Associate's or Bachelor's degree in nuclear medicine, certification and 2-3 years experience as a Nuclear Medicine Supervisor. In addition, the candidate must be proficient in the knowledge of computer and programs related to nuclear medicine. The Methodist Hospital offers competitive salaries, outstanding benefits, tuition reimbursement, and recreational facilities. Qualified applicants may submit their resumes in confidence to: The Methodist Hospital, Placement Office, 650 West Gray St., Suite 1425, Houston, TX 77030 or call collect at (713) 792-2268. An Equal Opportunity/Affirmative Action Employer M/F/H.V.

Technologist
ADMINISTRATIVE DIRECTOR OF NUCLEAR MEDICINE. Memorial Hospital, a leading tertiary care facility in southeastern Tennessee, is currently seeking a dynamic and qualified individual to assume the position of Administrative Director of Nuclear Medicine. A private, nonprofit center operated as a part of a multi-hospital system by the Sisters of Charity of Nazareth, Kentucky, Memorial Hospital performs over 3,000 "major" surgeries each year with primary service lines in cardiac and oncology services. The Nuclear Medicine Department is equipped with three GE 400T cameras, a multitechnical camera and two MDS A/B computers. The current staff of three technologists and three ancillary personnel perform over 3,000 complex studies annually, with 40% cardiac related. The Administrative Director will be responsible for the planning, organizing, directing, and coordinating of department services on a daily basis. Qualified individuals should be a graduate from an AART approved program for nuclear medicine technologists and successful completion of the registry examination for x-ray technologists, and 3 years of active nuclear medicine work including 1 year of experience in a supervisory capacity is preferred. Successful completion of a BS degree in nuclear medicine is also preferred. The salary is negotiable and is based upon the individual's education and work experience. To apply for the Administrative Director of Nuclear Medicine position, please forward a personal resume in confidence to: Director of Human Resources, Memorial Hospital, 2500 Cinco Ave., Chattanooga, TN 37404. EOE.

NUCLEAR MEDICINE TECHNOLOGIST. As Central Florida's 1,000+ bed premier teaching hospital and referral center, we offer excellent career prospects to experienced Nuclear Medicine Technologists. You will have frequent patient contact as you work with nursing and medical staff to assure the accurate administration of therapeutic and diagnostic procedures and attendant quality control. You should have 1 year of extensive clinical training and be a graduate of an accredited school of nuclear medicine technology. Registry with the ARRT or certification by the Nuclear Medical Technology Board is required. We offer a competitive salary, comprehensive benefits, and plenty of challenges. For consideration, call 1-800-322-6402, toll free outside Florida, or (305) 841-5860; collect within Florida; or send your resume to: Orlando Regional Medical Center, Personnel Dept. JNM/0793, 144 S. Kahl Ave., Orlando, FL 32806. An Equal Opportunity Employer.

SR. NUCLEAR MEDICINE TECHNOLOGIST. Opening for a technologist certified as a Nuclear Medicine Tech by NMTCB and/or ASCP and/or ARRT, w/ nec. med. exp. $2,208-$2,655 monthly. Please refer to job #76-47. Position will remain open until filled. Apply to: UC Davis Medical Center, Personnel. 2315 Stockton Blvd., Sacramento, CA 95817. EEO/AA Employer: Minorities, Disabled, M/F.

NUCLEAR MEDICINE TECHNOLOGIST. Midwest metropolitan, free-standing diagnostic center seeks a highly motivated registered technologist with emphasis in nuclear cardiology. Very busy center with the opportunity to work in both fixed and mobile settings. Salary commensurate with experience: excellent benefits. Please send resume to: Box 701, The Society of Nuclear Medicine, 136 Madison Ave., New York, NY 10016-6760.

NUCLEAR MEDICINE TECHNOLOGIST. The University of Utah Medical Center is accepting applications for a registered or registry-eligible imaging technologist. Our division provides a full range of imaging, cardiac, and research procedures with multiple cameras and computers. Competitive salary and benefits. Salt Lake City is a pleasant city located near mountains, ski resorts, and other recreational areas. Contact: Paul E. Christian, Nuclear Medicine, University of Utah Medical Center, Salt Lake City, UT 84132; (801) 581-2766. Equal Opportunity Employer.

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NUCLEAR MEDICINE REVIEW—1987  
AUGUST 24th–27th, 1987  
MOUNT SINAI MEDICAL CENTER, NEW YORK, NY

This course will provide an intense review of nuclear medicine including the basic science of radiation physics, instrumentation, radiochemistry and pharmacy, in vitro and radiobioassay, scintigraphic imaging, radionuclide in vivo function tests and radionuclide therapy. It is a supplement to residency training in nuclear medicine and nuclear radiology and is not designed to substitute for this type of training. The course may serve as a survey of nuclear medicine science for physicians or others seeking an overview of this subject.

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Rutland Regional Medical Center

Nuclear Medicine Technologist

Progressive medical center located in the heart of the Green Mountains of Vermont is seeking a Nuclear Medicine Technologist for expanding, progressive Imaging Department. Successful candidate must have A.R.R.T.; N.M.T. registration or certification in nuclear medicine technology. Position requires Nuclear Cardiology experience. Submit resume in confidence to Nancy Brower, Personnel Department

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NUCLEAR MEDICINE TECHNOLOGIST

Pitt County Memorial Hospital, a 550+ bed acute care teaching hospital, is currently accepting applications for a Nuclear Medicine Technologist. Qualified candidates must possess an Associate degree in Radiologic Technology and have ARRT or SNMT certification or be registry eligible and obtain either certification within one year. Pitt County Memorial Hospital offers competitive salaries and excellent benefits package. For immediate consideration, send resume to:

Employment Office
PITTMAN COUNTY MEMORIAL HOSPITAL
P.O. Box 2507
Greenville, NC 27834
(919) 757-4556
EOE/AA

NUCLEAR MEDICINE TECHNOLOGIST

Staff Technologist experienced with computerized cardiac studies, tomography and general nuclear medicine procedures. Require AMA approved Nuclear Medicine training program. Experience preferred. Competitive salary and excellent benefits. Apply to:

NAPLES COMMUNITY HOSPITAL
P.O. Box 2507
Naples, FL 33939
(For more information contact Administrative Manager, Department of Radiology (813) 263-5140.
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Schaumburg, IL 60196
312/884-3621

**Syncor International Corporation**
Chatsworth, CA 91311 800/435-0165 818/886-7400
Desktop Computer Color Image Recorder

Polaroid Corp. has introduced its PallettePlus computer image recorder, which produces color instant prints, slides, and overhead transparencies from IBM-compatible personal computer systems using enhanced graphics adaptor boards. The recorder can produce 640 x 600-pixel resolution hardcopy, and can offer resolutions up to 920 x 700 pixels depending on the user's hardware and software, according to the company. The system can also be used with color graphics adapter boards.

The recorder includes a Polaroid 3 1/4" x 4 1/4" film back, autowind 33-mm camera back, Polaroid 35-mm PowerProcessor, an illuminated slide mounter, and cables. Polaroid Corp., 575 Technology Square-9F, Cambridge, MA 02139.

Circle Reader Service No. 101

Compact Color Graphics Film Recorder

Matrix Instruments, Inc., has introduced its Model 3000 color graphics film recorder, a compact desktop device that can generate 33-mm color slides, and transparencies or instant prints in 4" x 5" and 8" x 10" sizes. The video-based recorder accepts computer-generated data from scanner mainframes and personal computers, and it also has the capability to produce black and white images and motion picture film, according to the company.

To maximize resolution, the exposure method is based on the principles of color separation. Red, green, and blue video components of the image are sequentially displayed on the monochrome CRT in the film recorder. Each color component is exposed through the corresponding red, green, or blue filter, which is automatically placed in the optical path, explained Matrix.

The Model 3000 measures 10.5" high x 16.5" wide x 22" deep and weighs 45 pounds. It operates on 115 VAC, and input video signal requirements are RS-170, RS-330, or RS-343 (optional). Matrix Instruments, Inc., One Ramland Rd., Orangeburg, NY 10962.

Circle Reader Service No. 102

Publication on Medically Related Low-Level Radioactive Waste

The American College of Nuclear Physicians (ACNP) recently published a document, "Characteristics of Medically Related Low-Level Radioactive Waste," originally prepared for the United States Department of Energy (DOE) and designed for use by lay personnel, including media representatives and legislators. The publication indicates that the production of low-level radioactive waste from all medical sources has dramatically decreased from 1979 levels. In addition to nuclear medicine departments, other sources, such as biomedical research facilities and pharmaceutical research and development groups, generate significant amounts of low-level waste. American College of Nuclear Physicians, 1101 Connecticut Ave. NW, Suite 700, Washington, DC 20036.

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THE NEW
THYROID UPTAKE
SYSTEM II:
DEDICATED PERFORMANCE

If you're looking for the best uptake system, designed for patient comfort and easy operation, take a look at the Thyroid Uptake System II from Atomic Products.

It sets new performance standards because it is "truly dedicated" to thyroid uptake activity studies.

Operation is simple, and straightforward, thanks to the user friendly menu selection and logical control panel design. All operations and calculations are handled by a high-speed microprocessor with data displayed on the built-in video monitor. An optional printer is available for hard copy.

The isotope menu is preselected for 7 isotopes (I-123; I-125; I-131; Co-57; Cr-51; Tc-99m; Cs-137), with a manual override.

Patient measurements are automatically decay corrected, and it calculates the final uptake percentage. It has a memory capacity for 8 separate patients, 3 measurements per patient.

The system can be configured as a free-standing unit, or used in a tabletop setting, depending on your needs and patient requirements.

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For complete prescribing information, consult package insert.

Thallous Chloride TI 201 is supplied in isotonic solution as a sterile, nonpyrogenic diagnostic radiopharmaceutical for intravenous administration. The aqueous solution at calibration time contains 37 MBq (1 mCi) / mL. Thallous Chloride TI 201 adjusted to pH 4.5-6.5 by the addition of hydrochloric acid and/or sodium hydroxide solution. It is made isotonic with 0.9% sodium chloride and is preserved with 0.9% benzyl alcohol. Thallium TI 201 is cyclotron-produced with no carrier added. Radiocinetic purity at calibration is at least 97.0%.

INDICATIONS AND USAGE: Thallous Chloride TI 201 may be useful in myocardial perfusion imaging for the diagnosis and localization of myocardial infarction.

It may also be useful in conjunction with exercise stress testing as an adjunct in the diagnosis of ischemic heart disease (atherosclerotic coronary artery disease).

It is usually not possible to differentiate recent from old myocardial infarction, or to differentiate exactly between recent myocardial infarction and ischemia.

CONTRAINdications: None known.

WARNINGS: If studying patients in whom ischemia or myocardial infarction is known or suspected, care should be taken to assure continuous clinical monitoring and treatment in accordance with safe, accepted procedure. Exercise stress testing should be performed only under the supervision of a qualified physician and in a laboratory equipped with appropriate resuscitation and support apparatus.

PRECAUTIONS: Data are not available concerning the effect on the quality of Thallous Chloride TI 201 scans of marked alterations in blood glucose, insulin, or pH (such as is found in diabetes mellitus). Attention is directed to the fact that thallium is a potassium analog, and since the transport of potassium is affected by these factors, the possibility exists that thallium may likewise be affected. Data are not available concerning the effect of drug treatment (such as antihistamines and choline, either alone or in combination).

A myocardial imaging study was unsuccessful in one clinical study involving a patient taking cortisone and choline the day of the study.

Pharmacokinetics: Radiopharmaceuticals should be used only by physicians who are qualified by training and experience in the safe use and handling of radiopharmaceuticals and who have experience and training in the use of radiopharmaceuticals.

As in the use of any radioactive material, care should be taken with Thallous Chloride TI 201 to minimize radiation exposure to the patient consistent with proper management and to ensure minimal exposure to occupational workers.

This drug should not be used after the expiration date on the label. The expiration date will be six (6) days or less after the calibration date.

Do not use if contents are turbid.

It is recommended that the product be administered close to calibration time to minimize the effect of higher levels of radiopharmaceutical contamination pre- and post-calibration.

Carcinogenesis: No long-term animal studies have been performed to evaluate carcinogenic potential, mutagenicity potential, or whether Thallous Chloride TI 201 affects fertility in males or females.

Pregnancy Category C: Adequate reproduction studies have not been performed in animals to determine whether the drug affects fertility in males or females, has teratogenic potential or other adverse effects on the fetus. Thallous Chloride TI 201 should not be used in pregnant women except when clearly outweigh the potential risks.

Ideally, examinations using radiopharmaceuticals are particularly helpful in those situations, especially those elective in nature, in women of child-bearing capability should be performed during the first (approximately 10) days following the onset of menses.

Nursing Mothers: It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, a general rule nursing should not be undertaken when is administered radioactive material.

Pediatric Use: Safety and effectiveness in children below 18 years of age have not been established.

ADVERSE REACTIONS: A single adverse reaction to TI 201-Thallous Chloride TI 201 product has been reported consisting of injection site pain followed by pruritis and rash which resolved with antihistamines and steroids within one hour.

HOW SUPPLIED: Thallous Chloride TI 201 for intravenous administration is supplied as a sterile, nonpyrogenic solution containing at calibration time 37 MBq (1 mCi). Thallous Chloride TI 201 is 5 mg/mL sodium chloride and 5 mg/mL of benzyl alcohol and is adjusted to between 4.5-5.5 with hydrochloric acid or sodium hydroxide. This product is supplied in a 244 MBq (6.8 mCi) size. Each package contains one vial.

The contents of the vial are radioactive. Adequate injectate (and handling) precautions must be maintained.

STORAGE: Store Thallous Chloride TI 201 at 15-25°C.

Hoffmann-La Roche Inc.
140 East Ridgewood Avenue
Paramus, NJ 07653

To learn more call 1-800-MEDI-123
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