All the testimony suggests that the positive clinical advantages offered by Positron Emission Tomography are second to none. When combined with Siemens experience servicing the world’s largest installed PET base, the same positive clinical advantages can be yours.

Providing you with unequalled patient throughput, Siemens is your partner in PET from beginning to end. The positive clinical advantage is gained with:

- Complete and flexible product line able to meet any institution’s research and clinical demands
- Retractable septa for 3-D acquisition and increased sensitivity
- High speed reconstruction processing with Advanced Computational System (ACS)
- SUN® SPARCstation with software tools for qualitative and quantitative analysis
- Superior image quality with less than 5 mm equal resolution in all 3 dimensions
- High patient throughput resulting from system’s ease-of-use

For positive clinical advantages in PET Neurology, Cardiology and Oncology — look for Siemens from beginning to end.

**NEUROLOGY**

“PET has the ability to measure biochemical responses to disease in the brain prior to gross changes in anatomy and, in some cases, prior to symptom onset resulting in early diagnosis and improved patient management.”

**John C. Mazziotto, M.D., Ph.D.**
President of Institute for Clinical PET (ICP)
Vice-Chairman of Neurology
Professor of Neurology and Radiology
UCLA School of Medicine

**CARDIOLOGY**

“PET is the only reliable technique currently available to assess myocardial viability. This information is often invaluable in making therapeutic decisions.”

**Peter Alagona, Jr., M.D.**
Associated Medical Director
St. Joseph’s Positron Center
"PET provides unique non-invasive information on behavior, treatment response, and recurrence rate of solid tumors. Clinical PET promises to greatly impact the practice of oncology."

Mathis P. Frick, M.D.
Professor and Chairman
Department of Radiology
Creighton University School of Medicine

Circle Reader Service No. 75
See us at RSNA in Chicago, IL
Booth 1108
DOES YOUR WIPE TEST COUNTER MEASURE UP?

The CAPRAC™ Wipe Test Counter from Capintec measures up from the outset because it gets right down to basics - it saves time and improves your results.

The NaI drilled well crystal lets you perform your wipe tests using short counting times while detecting very low levels of activity (seconds for 1 nCi). All this with the accuracy to meet NRC and state regulations.

Another very important measure is "what's on the wipe". That's no prob-

lem with CAPRAC because of its energy discrimination and isotope identification through gamma spectroscopy, specific isotopes can be identified at the touch of a button.

The final measure? Permanence! CAPRAC excels here, too, with its optional printer that allows permanent printed records of all data and gamma energy histograms.

CAPRAC has many more features you should know about. Please contact us for complete details.

CAPINTEC, INC.

See us at RSNA in Chicago, IL
Booth 2120

6 ARROW ROAD, RAMSEY, N.J. USA 07446
TOLL FREE: (800) 631-3826 OR
(201) 825-9500 FAX: (201) 825-1336
Circle Reader Service No. 11
NRC REQUIREMENT:

“A licensee shall survey for removable contamination, once each week, all areas where radiopharmaceuticals are routinely prepared for use, administered or stored.”

NUCLEAR REGULATORY COMMISSION
Publication 10CFR35, “Medical Use of By-Product Material,” Paragraph 35.70, “Surveys for Contamination and Ambient Radiation Exposure Rate.”

DELUXE WIPE TEST COUNTER

Specifically designed so you can EASILY and QUICKLY comply with ALL NRC and State Regulatory Requirements for Wipe Test Counting!

- Digital LED readout plus pass/fail lights.
- Can be calibrated for all important isotopes, including sealed sources.
- Can be used as a scaler displaying counts up to 999 x 10^5.
- Easy to use, low in cost.
- Includes a ^{137}Cs, 1 μCi test source, plus 200 pre-numbered 1/2" diameter wipes.

Circle Reader Service No. 60
Phone or Write Today for FREE Bulletin 4071-35

NUCLEAR ASSOCIATES
A Division of VICTOREEN, INC.
100 VOICE ROAD
CARLE PLACE, NY 11514-1593 U.S.A.
(516) 741-6360
FAX (516) 741-5414
See us at RSNA in Chicago, IL
Booth 5723
Here come two important new benefits in cardiac imaging
1 hour after injection

The superior image clarity of technetium...
and the time you need to use it best

Slow washout and lack of significant redistribution let you image at any point up to 4 hours after injection.
Permits imaging at the best time and place for patient, clinic, and physician.
Eliminates need to image immediately after injection.
Suitable for routine and acute use.

Cardiolite®
Kit for the preparation of Technetium Tc99m Sestamibi

Clarity that lasts
Cardiolite
Kit for the preparation of Technetium Tc99m Sestamibi

Clarity that lasts

1 hour after injection 4 hours after injection

short axis

horizontal long axis

vertical long axis

High degree of accuracy in detection of myocardial abnormalities

In blinded studies, CARDIOLITE imaging was 83% to 96% sensitive and 79% to 100% specific in detecting myocardial infarction, when compared with final diagnoses.

Reassuring safety profile

No known contraindications
Few adverse reactions

Of 2780 patients in worldwide trials, approximately 8% experienced a transient metallic taste following injection. A few cases of transient headache, mild nausea, flushing, and non-itching rash have also been reported. In worldwide commercial experience, one patient showed signs and symptoms consistent with seizure 8 to 10 min after injection. No other adverse reactions specifically attributable to the use of CARDIOLITE have been reported.

Reference

© 1991, Du Pont Pharma
Radiopharmaceuticals
using aerosols to determine the patency of the pulmonary airway system? Use a gas (that’s what the airway system is for), and Xenon (127 or 133) are gases which are safe, economical and easy to administer with the XENAMATIC™ 3000.

- Shielded for Xe 127 and Xe 133 (radiation profile available on request).
- World’s only system that allows you to study patients on Ventilators.
- Largest and most efficient Xenon trap with a built-in monitor alarm system.
- Built-in O₂ monitor with digital display and control.
- A rebreathing system that saves Xenon.
- Low breathing resistance so you can study sick patients.
- Semi-automatic operation.
- Remote Control Capability.

Get out of the FOG-making business, and call today for more information on putting gases where gases belong, with the XENAMATIC.

Also available, Model 2000.

For more information, please call or write,

DIVERSIFIED DIAGNOSTIC PRODUCTS, INC.
11603 Windfern
Houston, TX 77064
713-955-5323
OUR NUCLEAR IMAGING SYSTEMS NOW COME IN THREE SPEEDS: FASTEST, FASTEST AND FASTEST.
Before, our three-head PRISM™ was merely the fastest. But now with two new systems, the one-head PRISM 1000™ and two-head PRISM 2000,” we’ve added two more speeds. Fastest. And fastest.

Like our current PRISM 3000, our new PRISM systems are incredibly quick. Reconstructing a 64 x 64 slice literally 4 times faster than other nuclear computers on the market.

Their 1/4-second reconstruction time, and the resulting accelerated throughput they create, are due to their unsurpassed hardware and software.

Parallel and integral vector processing gives the ODYSSEY,” the PRISM visual supercomputer, unprecedented power and speed for long-range versatility. And its ability to network gives you faster physician review. But speed is only part of the PRISM advantage.

Both our new PRISMs are capable of superb whole body, SPECT and planar imaging. An enlarged 20” x 15” rectangular FOV requires fewer scans, while the smallest footprint in the industry maximizes space. And predefined setups encourage easy, push-button operation.

PRISM 1000, 2000 and 3000. Clear victors in the race against time. Again, and again, and again.

For more information on the new PRISMs, call us at 1-800-323-0550. Or write: Picker International, Inc., 595 Miner Road, Dept. CC, Cleveland, OH 44143.

Visit us at RSNA booth 1557 • East Hall
AMR's AccuSync provides R-wave detection with precision and reliability. The finest R-wave Triggering device available for computerized gated cardiac studies.

**AccuSync-5L Features**
- Isolation Amplifier for Patient Safety
- Digital CRT Monitor
- ECG Strip Chart Recorder
- Heart Rate/R-R interval
- Trigger Pulse LED
- Trigger Control for Ease of Lead Placement and Precise Location of Trigger Pulse
- R-Trigger Output, Compatible with all Computers
- No Delay
- ECG Output
- Playback Mode (optional)
- Event Marker (optional)
- Audio Indicator

**MODEL**

**AccuSync-6L**
- All AccuSync-5L features with the exception of the Strip Chart Recorder.

**AccuSync-1L**
- All AccuSync-5L features with the exception of the Digital CRT Monitor.

**AccuSync-3R**
- All AccuSync-1L features with the exception of the Strip Chart Recorder and Playback Mode.

**AccuSync-4R**
- All AccuSync-3R features with the exception of the Heart Rate/R-R interval display.

Circle Reader Service No. 5

ADVANCED MEDICAL RESEARCH CORP

148 Research Drive/PO. Box 3094
Milford, CT 06460/Telephone: (203) 877-1610
Fax: (203) 877-8972
sophycamera DST
THE NEW GEOMETRY IN NUCLEAR MEDICINE
A unique variable-angle multi-head system

Optimized design for cardiac SPECT
With 90° detector angulation, the sophycamera DST is 33% more efficient than triple-head systems for cardiac SPECT (180°)

High throughput general-purpose imager
With heads parallel, the DST provides twice the efficiency of single-head systems in whole-body, general SPECT, and general imaging

Unique flexibility for specialized exams
With heads angled at 30°, the system provides high-efficiency brain SPECT using slant-hole collimation
With heads angled at 75°, the DST provides unique biplane first pass angiography

sophycamera DST
Multihead imaging without compromise
Booth 1132 RSNA '91

sopha medical USA 301-290-0100
sopha medical France (worldwide headquarters) 33.1.39.56.06.89
Circle Reader Service No. 76
A breakthrough development in radiology.

Eliminate wet chemical processing. See the dry.

High spatial resolution and 256 shades of gray.

Dry film technology eliminates chemical processors and darkrooms.
Capable of simultaneously interfacing to multiple modalities.

Environmental benefit—no liquid chemical disposal issues or costs.

You save time, effort and money with every image you develop.

Now you can have outstanding quality 8" × 10" radiographic films in seconds and in daylight, from a laser system that requires no chemicals, “wet” processing or the need for a darkroom.

Helios Laser Imaging System at RSNA booth #2942.

It’s Polaroid’s dry Helios Laser Imaging System, a revolutionary new film and imager for ultrasound nuclear medicine and other 8" × 10" imaging applications.

With the Helios system, your radiology staff can significantly cut patient exam time and increase patient throughput.

To find out how Polaroid’s new dry Helios Laser Imaging System can improve your image quality and your cost effectiveness as well, call Polaroid Medical Imaging Systems, (800) 435-4677.

Or see us at booth #2942, at the RSNA.
A complete range of kits, A 99m Tc generator CIS, the ideal duo.

ELUMATIC III
Your technetium generator for quality and security every day.

TCK
A complete range of cold kits to meet all your needs.
IT'S TIME TO TAKE THE NEXT STEP...

NUCLEAR MEDICINE INFORMATION SYSTEMS © (Software Package)

DATABASE

PURCHASING
RECEIVING - INVENTORY
RADIOACTIVE SHIPMENT RECEIPT REPORTS
INVENTORY PROFILE DATA
COLD KITS LIMITATION FACTORS
FILECARDS

MISC
KIT/SYRINGE LABELS
START-UP FILE
SYSTEM UTILITIES
REMINDER UTILITIES
TEACHING FILE
QUALITY CONTROL

ACCURACY TEST
CONSISTENCY TEST
QUALITY ASSURANCE PROGRAM

LINEARITY
GRAPHIC CAPABILITIES

PROCEDURE MANUAL
THYROID UPTAKE
SCHILLING TEST
WIPE TEST
SURVEYS
DAILY MONITORING

QUICK CALLS
SEALED SOURCES
BIOASSAYS
FILM BADGE READINGS

This Program and a Personal Computer is the answer to meeting your management needs ... and much more.

NUCLEAR MEDICINE CONSULTING FIRM
P.O BOX 824, GREENVILLE, PA 16125

PHONE: 412/932-5840/5430  FAX: 412/932-3176

Circle Reader Service No. 63
Now you can test the unstressable

A whole new patient population
including the elderly, arthritic, orthopedic, frail, and obese can now be evaluated for coronary artery disease by thallium imaging.††

Equivalent sensitivity and specificity
compared to exercise in thallium imaging for detection of CAD.²

Strong prognostic value
in stratifying cardiac risk prior to vascular surgery and following MI.²³

Established safety profile
in over 10 years of clinical testing.⁷⁸††

To order call: 1-800-225-1572.
For more clinical or technical information, call the I.V. Persantine® hotline: 1-800-343-7851.

I.V. PERSANTINE®
(dipyridamole USP) Injection 5mg/ml

The pharmacologic alternative to exercise in thallium stress testing

* As a coronary vasodilator, I.V. Persantine® increases coronary blood flow to the levels required for thallium imaging.
† Patients with a history of unstable angina may be at a greater risk for severe myocardial ischemia. Patients with a history of asthma may be at a greater risk for bronchospasm.
†† Side effects are usually mild and can include chest pain, dizziness, headache, hypotension and nausea.

Persantine® is a registered trademark of Boehringer Ingelheim International GmbH. I.V. Persantine® is manufactured and distributed by Du Pont Pharma under license from Boehringer Ingelheim Pharmaceuticals, Inc.

Please see last page of this ad for references and prescribing information, including contraindications, warnings and adverse reactions.

Circle Reader Service No. 26
THALLIUM CHLORIDE Ti 201

DIAGNOSTIC FOR INTRAVENOUS USE

DESCRIPTION: Thallium Chloride Ti 201 is supplied in isotonic solution as a sterile, non-pyrogenic diagnostic radiogranphic/angiographic agent. The aqueous solution at the time of use contains 37.5 mg/ml (1mM) Thallium Chloride Ti 201. The pH is adjusted with hydrochloric acid and/or sodium hydroxide solution. It is made sootnic with 0.9% sodium chloride and is preserved with 0.05% benzyl alcohol. Thallium Ti 201 is opsonized with a powder carrier and contains no less than 98% Thallium Ti 201 as a percentage of total activity with contaminants less than 0.3% Thallium Ti 200, 3.2% Thallium Ti 202, and 0.2% Lead Pb 202 as expressed by a percentage of Ti 201 activity at calibration.

It is recommended that Thallium Chloride Ti 201 be administered close to calibration time to minimize the effects of higher levels of radionuclide contaminant.

INDICATIONS AND USAGE: Thallium Chloride Ti 201 may be useful in myocardial perfusion imaging for the diagnosis and localization of myocardial infarction. It may also have prognostic value since, when used in the critically sick patient following the onset of symptoms of an acute myocardial infarction, to assess the size and site of the perfusion defect.

Indications for use of Thallium Chloride Ti 201 include the following: myocardial infarction and/or the Thallous diagnostic tests prescribed by the physician. It may also be useful in preoperative testing to locate extrathyroidal and mediastinal sites of parathyroid hyperactivity and for post-surgical resection. Thallium Chloride Ti 201 has not been adequately demonstrated to be effective for the localization of normal parathyroid glands.

CONTRAINDICATIONS: None known.

WARNINGS: In studying patients in whom myocardial infarction or ischemia is known or suspected, care should be taken to assure continuous clinical monitoring and treatment in accordance with accepted procedures. Cardiac 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: Do not use the expiration date and time (5 days maximum after calibration time) stated on the label. Do not use if contents are turbid.

The patient does not have to be treated by a suitable radiopharmacy calibration system immediately prior to administration. Thallium Chloride Ti 201, as all radiopharmaceuticals, must be handled with care and used with appropriate safety measures to minimize external radiation exposure to clinical personnel. Care should also be taken to minimize radiation exposure to patients in a manner consistent with proper patient management.

Cardiogenic, Metabolic, Impairment of Fertility: No long-term animal studies have been performed to evaluate potential effects of Thallium Chloride Ti 201 on fertility in males or females. Identify, examine and use radiopharmaceuticals, especially those electively in nature, of a woman of child-bearing capability should be performed during the first few (approximately 10) days following the onset of menstrual cycle.

Pregnancy Category: C: Adequate reproductive studies have not been conducted in animals with Thallium Chloride Ti 201. It is also not known whether Thallium Chloride Ti 201 can cause fetal harm when administered to a pregnant woman or can affect reproductive capacity. Thallium Chloride Ti 201 should not be given to a pregnant woman except when benefits clearly outweigh the potential risks.

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

Pediatric Use: Safety and effectiveness in children have not been established.

ADVERSE REACTIONS: A single adverse reaction to the administration of Thallium Chloride Ti 201 has been reported consisting of hypotension accompanied by bradycardia and a diffuse rash which reacted to antihistamines and steroids within one hour.

NOW SUPPLIED: Thallium Chloride Ti 201 for intravenous administration is supplied as a sterile, nonpyrogenic solution containing at calibration time 37.5 mg/ml (1mM) of Thallium Chloride Ti 201, 0.9% sodium chloride and 0.05% benzyl alcohol. The pH is adjusted with hydrochloric acid and/or sodium hydroxide solution. Vials are available in the following quantities of radioactivity: 514, 1245, 2429, 2536, 6996, 395g (2, 3, 3.4, 4, 6, 8, 9 and 9.9mCi) of Thallium Chloride Ti 201.

Store at room temperature (15-30°C).

DU PONT PHARMA

Radiopharmaceuticals

Du Pont Radiopharmaceuticals, Inc.
331 Treetop Cove Road
Billerica, MA USA 01824

Printed in the U.S.A.
August 1988

References:
8. Data file, Boehringer Ingelheim Pharmaceuticals, Inc.
CALL FOR

ABSTRACTS

Scientific Papers and Scientific Exhibits

1992 Scientific Program Committee, Scientific Exhibits Subcommittee, and the Scientific & Teaching Sessions Committee solicit the submission of abstracts from members and nonmembers of The Society of Nuclear Medicine for the 39th Annual Meeting in Los Angeles, CA. Scientific Paper abstracts accepted for the program will be published in a special supplement to the May issue of The Journal of Nuclear Medicine and accepted Technologist Section abstracts will be published in the June issue of the Journal of Nuclear Medicine Technology. Abstracts accepted for Society Program Scientific Exhibits will not be published. Original contributions on a variety of topics related to nuclear medicine will be considered, including:

- Instrumentation and Data Analysis
- Radioisotope
- Radiopharmaceutical Chemistry
- Dosimetry/Radiobiology
- Nuclear Magnetic Resonance
- Clinical Science Applications
- Bone/Joint
- Cardiovascular (clinical and basic)
- Endocrine
- Gastroenterology
- Neurology (clinical and basic)
- Oncology (non-antibody)
- Immunology (antibody)
- Pediatrics
- Pulmonary
- Renal/Electrolyte/Hypertension
- Hematology/Infectious Disease
- Clinical Science Applications

Authors seeking publication for the full text of their papers are strongly encouraged to submit their work for immediate review to the JNM, and for the technologist section, to the JNMT.

DEADLINES

For receipt of abstracts for SCIENTIFIC PAPERS is Tuesday, January 7, 1992.

For receipt of abstracts for SCIENTIFIC EXHIBITS is Tuesday, January 14, 1992.

There are two abstract forms for this year’s meeting. The Scientific Paper abstract form can be obtained in the October 1991 JNM. The Scientific Exhibits abstract form is only available by calling or writing:

The Society of Nuclear Medicine
136 Madison Avenue, New York, NY 10016-5760
Tel: (212) 868-0717
Fax: (212) 545-0221

NUTRONICS IMAGING INC.
The Security Of Protecting Your Investment.
Nutronics Imaging is the Engineering company behind the product. Special attention with quality engineering. We will accommodate your needs as appropriate. We are not a broker.
Nutronics is your source for:
* UPGRADES
  - Replacement of crystals.
  - Add computerized technology to your system.
  - Upgrade your camera performance by using the Engineering touch.
* RENOVATED GAMMA CAMERAS
  - Cardiac small FOV (57 PMT).
  - Stand alone LFV (37675 PNT)
  - Analog & Digital Cameras.
  - Spect.
  - Excellent Mobile Cameras.

We support: Siemens ZLC LFOV, General Electric, Picker, Technicare, Elscint and Matrix Imagers.
Consultation on your premises.

P.O Box 425 • Old Bethpage, NY 11804
(516)753-3001 FAX: (516)753-3002
We buy, sell, trade and lease at a competitive price.

Use the Specialized Touch

Circle Reader Service No. 119
Unlimited mileage

Invest in your future with GE Nuclear Medicine. If you’re going to pay significantly more for a multi-headed system, you should get significantly higher productivity.

The trouble is, simply adding detectors won’t necessarily improve throughput. Most multi-detector systems today don’t address other important productivity requirements such as faster QC, patient set-up and data processing.

Highway to the future. GE is developing multi-headed systems with all the elements necessary for higher productivity—beginning with Neurocam™, the first in a series of organ- and procedure-optimized multi-headed systems from GE.

Road-tested performance. Only GE offers:

- High performance detectors
- InSite™ remote service diagnostics
- Built-in upgrade path of our Intel-based Star™ computers
- Multi-tasking through Starlink™ LAN

Take the direct route to an unlimited future in nuclear medicine—with GE.

For our free poster—SPECT Reconstruction and Orientation Parameters—call 1-800-433-5566

GE Medical Systems
We bring good things to life.
RECTANGULAR DETECTOR BETTER THAN ROUND

The shape and size of the first gamma camera detectors were determined by what scintillation crystal growers provided to camera manufacturers. Because crystals were round, practical clinical operation limited detector UFOV. Thus, all detectors were round with the largest having approximately a 15” UFOV.

Round detectors had two major clinical deficiencies. First, the shape prevented SPECT imaging of the lower brain due to patient shoulder clearance issues (Figure 1). Second, the 15” UFOV provided less than a 15” width for whole body scanning (Figure 2); thus, four passes were often required for a complete anterior and posterior scan.

The commercial solution to these problems was introduced by Technicare. Technicare developed a 20” wide UFOV rectangular detector out of the round crystal by chamfering the crystal corners (Figure 3). The 20” wide UFOV allowed both single pass anterior or posterior whole body scanning and better brain imaging.

FIRST RECTANGULAR DETECTORS HAD WEAKNESSES

Despite the noted improvements, the early rectangular detectors had two significant limitations for whole body scanning. First, a crystal with chamfered corners provided up to 30% less total sensitivity than that of a true rectangular crystal (Figure 4). Second, the 20” UFOV often prevented inclusion of the patient’s arms (Figure 5) in single pass whole body scanning.

24” UFOV, TRUE RECTANGULAR DETECTOR RECOGNIZED AS BEST

In the mid-1980’s new forging techniques allowed the development of larger crystals. The first camera to use the new generation crystal was Siemens’ BodyScan, which had dual, 24” wide UFOV, true rectangular detectors (Figure 6). BodyScan satisfied the whole body scanning need more effectively than prior systems by greatly improving crystal sensitivity and patient fit. However, this system was clinically limited due to a lack of SPECT.

TRIONIX ADVANCES 24” UFOV DETECTOR IN CLINICAL OPERATION

Trionix noted the clinical effectiveness of BodyScan for whole body scanning, but questioned why a two-detector system had to have imaging limitations. With this thought, and clinical guidance from the University of Florida’s Walter Drane, M.D., the Biad SPECT/Whole Body System was developed. With two, 24” UFOV, true rectangular detectors, the Biad provided the best of all worlds in one system: single pass, simultaneous anterior and posterior whole body scanning; two-view planar imaging; and multi-detector SPECT imaging.
PRESENT MARKET STATUS

Most camera manufacturers displayed prototype, two-detector SPECT/whole body cameras at recent professional meetings.

Some manufacturers have displayed true rectangular detectors with their prototype systems. Others, such as Picker (Prism 2000), or ADAC (Genesys) use the limited, 20" UFOV detector with chamfered corners — technology developed almost 10 years ago at Technicare.

Only Trionix offers two detector sizes for its Biad SPECT/Whole Body System. A Biad with two, 20" UFOV, true rectangular detectors is available to compete at the low end of the camera spectrum with systems such as the Picker Prism 2000 and the ADAC Genesys. Trionix, however, is the only manufacturer to also offer two, 24" UFOV, true rectangular detectors in a SPECT/whole body system for uncompromised imaging. Both the 20" and 24" detectors use the same advanced detector electronics available in our ultra high resolution Triad three-detector system.

While other manufacturers have just begun clinical use, or merely displayed prototype systems, Trionix is the ONLY company with proven, long-term clinical experience in two-detector SPECT. The attached Biad SPECT/Whole Body System customer list includes all Biads installed and in clinical operation for at least six months. Trionix invites you to compare the two years of clinical experience at the University of Florida and the 302 total months of clinical operation to a list from any other manufacturer.

BIADS IN CLINICAL OPERATION FOR SIX MONTHS OR MORE

<table>
<thead>
<tr>
<th>Institution</th>
<th>Total Months of Clinical Usage Through Oct. 1991</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shands at the Univ. of Florida</td>
<td>23</td>
</tr>
<tr>
<td>Gainesville, Florida</td>
<td></td>
</tr>
<tr>
<td>National Naval Medical Center</td>
<td>22</td>
</tr>
<tr>
<td>Bethesda, Maryland</td>
<td></td>
</tr>
<tr>
<td>Children's National Medical Center</td>
<td>21</td>
</tr>
<tr>
<td>Washington D.C.</td>
<td></td>
</tr>
<tr>
<td>Cleveland Clinic Foundation</td>
<td>20</td>
</tr>
<tr>
<td>Cleveland, Ohio</td>
<td></td>
</tr>
<tr>
<td>Albany Memorial Hospital</td>
<td>19</td>
</tr>
<tr>
<td>Albany, New York</td>
<td></td>
</tr>
<tr>
<td>University of Kentucky</td>
<td>17</td>
</tr>
<tr>
<td>Lexington, Kentucky</td>
<td></td>
</tr>
<tr>
<td>San Francisco General Hospital</td>
<td>16</td>
</tr>
<tr>
<td>San Francisco, California</td>
<td></td>
</tr>
<tr>
<td>Akron City Hospital</td>
<td>16</td>
</tr>
<tr>
<td>Akron, Ohio</td>
<td></td>
</tr>
<tr>
<td>M.D. Anderson Cancer Center</td>
<td>15</td>
</tr>
<tr>
<td>Houston, Texas</td>
<td></td>
</tr>
<tr>
<td>University of Pittsburgh</td>
<td>14</td>
</tr>
<tr>
<td>Pittsburgh, Pennsylvania</td>
<td></td>
</tr>
<tr>
<td>National Institutes of Health</td>
<td>12</td>
</tr>
<tr>
<td>Bethesda, Maryland</td>
<td></td>
</tr>
</tbody>
</table>

INSTALLATIONS: 22

<table>
<thead>
<tr>
<th>Institution</th>
<th>Total Months of Clinical Usage Through Oct. 1991</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memorial Southwest Hospital</td>
<td>12</td>
</tr>
<tr>
<td>Houston, Texas</td>
<td></td>
</tr>
<tr>
<td>Iowa Methodist Medical Center</td>
<td>12</td>
</tr>
<tr>
<td>Des Moines, Iowa</td>
<td></td>
</tr>
<tr>
<td>M.D. Anderson Cancer Center</td>
<td>11</td>
</tr>
<tr>
<td>Houston, Texas</td>
<td></td>
</tr>
<tr>
<td>Knox Community Hospital</td>
<td>10</td>
</tr>
<tr>
<td>Mt. Vernon, Ohio</td>
<td></td>
</tr>
<tr>
<td>Goddard Memorial Hospital</td>
<td>10</td>
</tr>
<tr>
<td>Stoughton, Massachusetts</td>
<td></td>
</tr>
<tr>
<td>Hospital of St. Raphael</td>
<td>10</td>
</tr>
<tr>
<td>New Haven, Connecticut</td>
<td></td>
</tr>
<tr>
<td>Baptist Hospital</td>
<td>10</td>
</tr>
<tr>
<td>Nashville, Tennessee</td>
<td></td>
</tr>
<tr>
<td>Halifax Medical Center</td>
<td>10</td>
</tr>
<tr>
<td>Daytona Beach, Florida</td>
<td></td>
</tr>
<tr>
<td>Lincoln City Medical Center</td>
<td>9</td>
</tr>
<tr>
<td>Bronx, New York</td>
<td></td>
</tr>
<tr>
<td>Good Samaritan Hospital</td>
<td>7</td>
</tr>
<tr>
<td>Dayton, Ohio</td>
<td></td>
</tr>
<tr>
<td>Memorial Southeast Hospital</td>
<td>6</td>
</tr>
<tr>
<td>Houston, Texas</td>
<td></td>
</tr>
</tbody>
</table>

MONTHS OF CLINICAL USAGE: 302

©TRIONIX RESEARCH LABORATORY, INC.
8037 Bavaria Road • Twinsburg, Ohio 44087
Telephone: (800) 442-7017
(216) 425-9055
FAX: (216) 425-9059

Printed in U.S.A.
Visit us at the RSNA Booth #5105
©Trionix 1991
A Company
TOTALLY dedicated to
Nuclear Medicine

TRIAD — The ultimate high resolution, high sensitivity, three detector SPECT and planar imaging system

BIAD — The leading ultra-wide UFOV two detector SPECT and planar imaging system

EAGLE — Multi purpose, multi position single detector SPECT and planar imaging system

AcquPRO™ — SUN SPARCstation-based computer system for your entire nuclear medicine clinic networking
Policy — The Journal of Nuclear Medicine accepts classified advertisements from medical institutions, groups, suppliers, and qualified specialists in nuclear medicine. Advertising is on a space available basis. Check with your Press Representative. Make payable to W.W. Norton and Co., Inc. We reserve the right to decline, withdraw, or modify advertisements.

Rates for Classified Listings — $1.00 per line or fraction of line (approx. 50 characters per line, including spaces). Please allow 28 characters for the first line which will appear in capital letters. Special rates for SNM members on Positions Wanted: $0.60 per line. Note: Box numbers are available for the cost of the lines required.

Rates for Display Ads — Agency commissions are offered on display ads only.

Full page $1500 Quarter page $500
Half page 750 Eighth page 420

Publisher-Set Charges — Page $100; half page $75; quarter page $40; eighth page $25.

Terms — Payment must accompany order. Make checks payable, in U.S. dollars on U.S. banks only, to: The Society of Nuclear Medicine.

Deadline — First of the month preceding the publication date (January 1 for February issue). Submit classified listings typed double spaced. No telephone orders are accepted.

Send Copy to: Classified Advertising Department The Society of Nuclear Medicine 136 Madison Avenue New York, NY 10016-6760

(212) 899-0717
FAX: (212) 545-0221

Positions Available

Cardiologist

NUCLEAR CARDIOLOGY AND CARDIAC PET IMAGING. The University of Pittsburgh Heart Institute and the Division of Cardiology of the University of Pitts-
burgh School of Medicine seek to recruit a BC/BE cardiologist to work in Nuclear Cardiology. Exceptional facilities available to support high volume laboratories. Outstan-
ding opportunities in cardiac PET imaging. Appointment at Assistant or Associate Professor level available, as appropriate. Qualified applicants should submit curricu-
lum vitae to: Dr. Richard M. Straus, Department of Radiology, University of Pittsburgh, 1390 Magee Avenue, Pittsburgh, PA 15260.

Radiation Oncologist/Faculty Position

The Department of Radiation Oncology at the Univer-
sity of Alabama in Birmingham is currently recruiting an organic medical chemist at the level of Assistant Professor. This is a non-tenure earning position and the salary will be commensurate with experience and ability. Candidates must have a Ph.D. in organic chemistry and a strong commitment to research/teaching in the area of radiation chemistry. Further information and application procedures can be obtained by contacting Dr. W. J. H. E. E. Lee, Department of Radiation Oncology, University of Alabama at Birmingham, 619 South 13th Street, Birmingham, AL 35233.

Fellowship

PEDiatric NUCLEAR MEDICINE FELLOwship position at a 270-bed preeminent pediatric center. 2,800 imaging procedures per year encompassing all aspects of nuclear medicine with emphasis on teaching and research. Staff includes one ABNM, one ABBR, one ABPn, and four PET technologists. Four state-of-the-art Gamma cameras and image processing and display system with networking. Salary $40,000 per year. Send CV and letter of interest to: Dr. William E. Leach, University of Alabama Hospitals, 1600 7th Avenue South, Birmingham, AL 35233.

Physician

NUCLEAR MEDICINE PHYSICIAN at VA medical center. Board certified preferred. Competitive salary with malpractice coverage. Located in beautiful historic town along the New River Valley with horse farms, excellent schools and diverse outdoor recreational opportunities. PA Dutch County, only minutes from downtown Philadelphia and medical schools. Send resume and names of three references to James J. Nocks, MD, Chief of Staff, VA Medical Center, Coates-
ville, PA 19320. (215) 383-0219. An EOE/M/F/H/V.

NUCLEAR PHYSICIAN-RADIOLOGIST sought to join well established Cardiac PET and Nuclear Medicine group in Tampa, Florida. Will work primarily in modern 650-
bed hospital with busy Nuclear Medicine division including triple headed PET/CT and SPECT/CT hybrid. Fellowship training required. Competitive first year salary followed by equitable partnership route. Send CV to The Society of Nuclear Medicine, Box 101, 136 Madison Ave., New York, NY 10016.

The College of Medicine and Royal University Hospital urgently need a NUCLEAR MEDICINE PHYSICIAN to fill the position of Director of the hospital department, with a concurrent appointment as a faculty member in the academic department of Medical Imaging. The College has an undergraduate program and extensive involve-
ment in postgraduate specialty training. The Hospital is a 600-bed major teaching institution of the College of Medicine and is the tertiary care centre for approximately one-half of the province’s one million people. The city of Saskatoon has a population of 180,000 and offers a wide range of educational and cultural opportunities. Candi-
dates must be BC/BE, hold or be eligible for certification in Nuclear Medicine by the Royal College of Physicians and Surgeons of Canada. The successful candidate will be ex-
pert in the field of Nuclear or ABNM/ABR certification and demonstrate an interest in teaching. Salary and benefits are negotiable. Interested applicants should send CV to: Dr. R. T. C. Good, Department of Radiology, University of Saskatchewan, Box 5000, Saskatoon, SK.

PET PHYSICIAN. A large professional imaging group, Clinical Diagnostic Radiology & Nuclear Medicine Ltd., is seeking a PET experienced physician to serve as the Medical Director of the Nuclear Medicine Department in Phoenix, Arizona. The salary and benefits of this position are excellent. The center is operational and equipped with new state-of-the-art PET and SPECT/CT Scanner. Prior training and responsibilities in an estab-
lished academic PET program are required as are demon-
strated abilities with clinical research and clinical PET studies. For more information, please contact Michael A. Lawson, MD at (602) 238-4229, or send your curricu-
lum vitae to the group’s Medical Director, Barry J. Layton at 310 E. McDowell Rd., Phoenix, AZ 85006.

Radiologist

RADIOLOGIST—NUCLEAR MEDICINE—Immediate opening, but will wait for right candidate. Progressive sub-
specialty oriented radiology group seeks fifth fellowship
trained ABR and ABNM certified colleague to practice nuclear medicine and general radiology in Baltimore. Situated in the Maryland/Harford County area, the group includes a busy outpatient imaging centers. Interesting competitive practice. Academic appointment available. Send CV to: Dr. J. K. Goode, Radiology Dept., Towson, MD 21209 or call (301) 554-2580.

NW Rocky Mountains: Highly respected eight person group with strong subspecialty interests seeks highly quali-
fied RADIOLoGIST. Fellowship or academic experience in Nuclear Medicine required. This is a hospital with PET and ABNM certification, but PET radiologist with ABNM certification strongly desired. Position includes all aspects of Nuclear Medicine and PET. The group has many respectful, professional, and caring physicians, and several subspecialization positions. Interested applicants send CV to: Dr. J. A. Johnson, 1055 N. Curtis Rd., Boise, ID 83706, (208) 378-2161.

Nuclear Medicine Imaging. Full-time position available for BC/BE RADIOLOGIST with certification or special certification in nuclear medicine. Dynamic 850 bed community hospital in a growing metropolitan area. Three hospitals with over 850 beds, active nuclear medicine service with SPECT. Expect to direct Nuclear Medicine section. Generous compensation and vacation benefits with terms lengthening to full partnership. Contact E. John Wickman, MD, Associated Radiologists, Ltd., 450 West 5th Place, Mesa, AZ 85201, (602) 496-5970.

NUCLEAR RADIOLOGIST. Individual wanted for a position in Nuclear Medicine and Radiology, BC/BE. Should be experienced in all areas of Nuclear Medicine except RIA. Will also work in Diagnostic Radiology in cluding fluoroscopy, mammography, CT. Full service Nuclear Medicine Department including Nuclear Cardiology, 600-
bed tertiary hospital. Position available from 2/1/93. Position available to BC/BE. Send CV to: Dr. R. L. Smith, 2921 N.W. 82nd St., Miami, FL 33155.

Radiology Residency

NUCLEAR MEDICINE RESIDENCY. July 1992. Comprehensive imaging/Radiotherapy program in 3 hospi-
tals (three, one with 2,800 beds, large imaging program for 216 ICU beds. Large pediatric population. Well managed educational program. Strong cardiovascular emphasis. State-of-the-art instru-
manship including SPECT and PET. Fellowship training includes introductory rotations in MRI, PET, and CT/MR/CT. Contact: Drs. T. J. Keating, W. C. Keating, or D. C. Geller, 330 Las Vegas Blvd, Las Vegas, NV 89103. Further information available by contacting: Dr. G. W. McConkey, Box 201, The Medical Center, University of Nevada, Las Vegas, NV 89103.

Permanent Position for RADIOLoGIST with Nuclear Certification seeking to add Nuclear Medicine/CR to their subspecialty in Nuclear Medicine. Join a large group practice that has 20 members, 2 imaging centers, 4 offices and 4 hospitals. Progressive state-of-the-art prac-
tice. Contact R. C. Nybacken, MD, Box 270601, Sacramento, CA 95827.

Residency

NUCLEAR MEDICINE RESIDENCY. July 1992. Comprehensive imaging/Radiotherapy program in 3 hospi-
tals (three, one with 2,800 beds, large imaging program for 216 ICU beds. Large pediatric population. Strong cardiovascular emphasis. State-of-the-art instru-
manship including SPECT and PET. Fellowship training includes introductory rotations in MRI, PET, and CT/MR/CT. Contact: Drs. T. J. Keating, W. C. Keating, or D. C. Geller, 330 Las Vegas Blvd, Las Vegas, NV 89103. Further information available by contacting: Dr. G. W. McConkey, Box 201, The Medical Center, University of Nevada, Las Vegas, NV 89103.

Technologist

NUCLEAR MEDICINE TECHNOLOGIST. Florida's Southeast Coast. High volume nuclear medicine practice. Excellent opportunity for a motivated Nuclear Medicine Technology to participate in a well run, efficiently run center. Excellent training environment. Florida license or eligibility (CNMT/ARTT) is required and experience is preferred. Located just one mile from the beautiful ocean between Palm Beach and Boca Raton, Bethesda provides an excellent environment for continued professional and personal growth. We offer excellent
benefits such as relocation allowance, generous vacation accrual program and an on-site Child Care Center (opening October 1, 1991). Please send resume to: Human Resources, Bethesda Memorial Hospital, 2815 S. Seacrest Boulevard, Boynton Beach, FL 33435. (407) 737-7733, Ext. 4444.

Training Programs

NUCLEAR MEDICINE TRAINING PROGRAMS, State University of New York at Buffalo. The Department of Nuclear Medicine at SUNY/Buffalo offers the following training programs: 1) two-year nuclear medicine residency; 2) fellowships in nuclear oncology/molecular antibody research; 3) one-year nuclear medicine programs for qualified radiologists; and 4) five-year track programs combining nuclear medicine with radiology or internal medicine leading to board eligibility in both specialties. The programs offer a comprehensive exposure to all aspects of nuclear medicine including PET and allied imaging fields and research. For further information and applications for July 1, 1992, please contact: Joseph Preza, MD, SUNY/Buffalo Nuclear Medicine, 305 Par-ker Hall, 3435 Main Street, Buffalo, NY 14224. AA/EOE.

Positions Wanted

NUCLEAR MEDICINE PHYSICIAN (currently in-training) available July '92. Experience in all aspects of Nuclear Medicine including PET. Reply: Box 802. The Society of Nuclear Medicine, 136 Madison Ave., New York, NY 10016.

NUCLEAR MEDICINE PHYSICIAN — ABNM eligible 7/92 seeks position. Experienced in all aspects, including SPECT, and nuclear cardiology. Contact James P. Caplan, MD. Dep. of Radiology. Baylor College of Medicine. 1 Baylor Plaza, Houston, TX 77030.

Equipment

For sale: Technicare 420-550, ADAC's vertical CDS, system I, system III, DPS 2800. We offer the highest prices for all types of nuclear medicine cameras & computers. Call Franklin at Imaging Solutions, (415) 924-9855.

Nuclear Medicine Technologist
Positron Emission Tomography

Leading-Edge Technology in a Dynamic Environment

The Francis Scott Key Medical Center, a Johns Hopkins Health System Member Institution. In cooperation with the National Institute on Drug Abuse (NIDA) Addiction Research Center is currently seeking a nuclear medicine technologist to become a member of a team responsible for our newly established PET imaging facility. The position represents a unique opportunity to advance your career by participating in exciting work using leading-edge technology.

To qualify, you must have CNMT/ARRT(N) certification and a minimum of two years of experience. Previous PET experience is desirable, but not required.

We offer a competitive salary and an excellent benefits package. The Baltimore-Washington, DC area offers many excellent cultural and recreational opportunities. Please send your resume or phone:

Jeffrey Turek, Chief Technologist
Division of Nuclear Medicine—AIE
The Francis Scott Key Medical Center
a Johns Hopkins Health System Member Institution
4940 Eastern Avenue
Baltimore, Maryland 21224
(301) 550-0209
EOE M/F/H/V

NUCLEAR MEDICINE TECHNOLOGIST

The sophisticated four-facility Orlando Regional Medical Center hospital system offers you everything under the sun...and more. More challenges. More benefits. And more opportunities to learn, grow and extend your knowledge.

As we expand our Nuclear Medicine services, we seek a Staff Nuclear Medicine Technologist who is ARRT certified and/or NMTCB registered with a degree from an accredited school of Nuclear Medicine Technology.

In return for your expertise, you'll receive one of the area's best compensation packages including a competitive salary (commensurate with experience), relocation assistance, continuing education and tuition reimbursement, and an outstanding benefits package. Add this to our ideal lifestyle setting and no state income tax, and you have a career opportunity that offers everything under the sun!

For immediate consideration, call TOLL FREE 1-800-327-8402 or (407) 841-5186. Or send your resume to: Orlando Regional Medical Center, Employment Dept. NMT, 1414 Kuhl Avenue, Orlando, Florida 32806. An Equal Opportunity Employer.

Everything under the sun.
NUCLEAR CARDIOLOGY SPECIALISTS

Our Radiopharmaceutical Division is committed to improving patient diagnosis and treatment by providing quality products and services that expand the unique advantages of radiopharmaceuticals. As a result of recent growth, our Nuclear Cardiology Specialist Group is seeking qualified individuals in the New York/New Jersey area.

These challenging technical positions will involve working closely in support of our outstanding Sales organization, to provide a high level of educational and technical support to customers for our Nuclear Cardiology product line. A strong and extensive background in state-of-the-art Nuclear Cardiology is essential. Excellent written and verbal communication skills are required. Experience with I.V. Persantine® and CARDIOLITE® preferred.

Additional opportunities exist in the following areas as well: Baltimore/Washington, Pittsburgh, Cincinnati, Cleveland and Philadelphia.

We offer a competitive compensation package and a full range of benefits. Qualified applicants should fax or send a letter/resume to: Human Resources Dept., Du Pont Radiopharmaceuticals, 331 Treble Cove Road, N. Billerica, MA 01862, Fax#: (508) 671-0012. An Equal Opportunity Employer, M/F.

Cyclotron Director
Duke University Medical Center

Duke University Medical Center is seeking a Director of its Cyclotron Facility. The CS-30 cyclotron is used in an active clinical PET program as well as in research studies utilizing a wide variety of nuclides. The Director will be responsible for the overall operation of the Cyclotron Facility, including maintenance and target development. The successful candidate will be a career-oriented individual with proven expertise in cyclotron operations. Competitive salary and benefits will be offered. Level of position dependent on previous experience.

Address inquiries to:
R. Edward Coleman, MD,
Department of Radiology,
Box 3949, Durham, NC 27710.
Telephone: (919) 681-2711 ext 244.

Duke University is an Equal Opportunity/Affirmative Action Employer.
Meet us at RSNA
1-800-541-7946

Practice opportunities available with SCPMG, a partnership of more than 2000 physicians, providing multi-specialty medical services to over 2.3 million members from Bakersfield to San Diego.

RADIOLOGISTS — Nuclear Medicine
• BC in Radiology BC/BE in Nuclear Medicine.
• Prior experience in thyroid clinic helpful.

For more information, send your CV to: Irwin P. Goldstein, MD, Associate Medical Director, SCPMG Dept. 066, Walnut Center, Pasadena, CA 91188-8013.

Mercy San Juan Hospital

Mercy San Juan Hospital, a 217-bed acute care facility, is setting the pace to help create a healthier world for Sacramento families. Our latest programs include a new CSICU and a sophisticated Radiation Oncology Center. To support these programs, our Nuclear Medicine Department features advanced equipment, including 3 SPECT (2-ADAC, 1-GE) and 1 mobile camera.

If you possess or are eligible for a CA license and have current registration as a Nuclear Medicine Technologist in ARRT or NMTCB, we invite you to join our exciting, fast-paced environment. SPECT experience is highly preferred.

In addition to our prime residential location in beautiful Sacramento, we offer competitive salaries and benefits plus a transfer mobility program to over 100 Mercy system hospitals nationwide. For consideration, please send your resume or call us collect today: Mercy San Juan Hospital, Human Resources, 6501 Coyle Avenue, Carmichael, CA 95608, (916) 537-5146. We are an equal opportunity employer.

Nuclear Medicine Technologist

Mercy San Juan Hospital
Nuclear Radiologist

Hanover, New Hampshire 03756. Write to: Peter K. Spiegel, M.D., Chairman, Department of Diagnostic Radiology, Dartmouth-Hitchcock Medical Center, 2 Maynard Street. Permanent position. Department consists of 13 staff, 11 residents and 2 fellows with a full range of modern radiologic practice in a new Department in a new 420-bed Medical Center to be occupied in Fall of 1991. Seeking Nuclear Radiologist at senior assistant - full professor level to be member of a 200-physician academic multispecialty group which forms the clinical faculty of Dartmouth Medical School. ABR/ABNM preferred, experience in Nuclear Cardiology and SPECT essential. Interest in teaching essential. Research interest preferred with opportunity to develop academic program. AA/EOE.

Dartmouth-Hitchcock Medical Center

The Hitchcock Clinic
Hanover, New Hampshire

A great place for a healthy relationship.

If you'd like a relaxing, healthy lifestyle along with an exciting, professionally challenging place to work, come to DCH Regional Medical Center. We're a 658 bed teaching hospital with some of the most advanced medical technology in the country. We're progressive, technically sophisticated, and we offer a great opportunity for the right people.

Our busy Radiology Services Department is looking for technologists (Rad Tech and Nuclear Medicine). We perform 120,000 procedures annually. Here, you can work in Nuclear Medicine, Ultrasound, Color Doppler, CT, GE Signa MR System, Mammography, special and sub-special procedures, and a full range of general diagnostic procedures.

We also offer an AMA/JRC approved school of Radiologic Technology for a level of 24 students.

For an outstanding benefits package and a competitive starting salary, contact Pamela Brunson, Assistant Personnel Director, DCH Regional Medical Center, 809 University Blvd., East, Tuscaloosa, AL 35401 or call us at 1-800-521-5857 or collect at (205)759-7102. An Equal Opportunity Employer M/F/H.

DCH Regional Medical Center

We can give you a whole new outlook.

Diagnostic Imaging

STAFFING SPECIALISTS
Specializing in Diagnostic Imaging and Nuclear Medicine Personnel

- Temporary Staffing Service
- Nationwide Recruitment Service

- highly qualified, experienced technologists on a PRN basis
- recruiting services for permanent positions at a fraction of your recruiting costs
- assistance in eliminating revenue loss due to staffing shortages

For information regarding the services call 813-461-9642

RAO$ RADIOGRAPHY SERVICE, INC.

NUCLEAR MEDICINE TECHNOLOGIST

The University of Illinois Hospital has the following position available: Nuclear Medicine Technologist ARRT, NMTCB, or ASCP registry. Special opportunity, modern equipment, excellent fringe benefits, and competitive salary. EOE and AA employer

Please send resume to:

D. Pavel, MD
University of Illinois Hospital
Po. Box 6998, M/C 931
Chicago, Illinois 60680
Registered Nuclear Medicine Technologist

We are now accepting applications for a full-time Registered Nuclear Medicine Technologist. Cox Medical Center is a very progressive 5-year-old, 510-bed acute care facility, located at the Gateway to the Ozark Mountains. Competitive benefits and salary opportunities. Those interested contact:
    Jeff Robinson, Nuclear Medicine Department
    Cox Medical Centers South
    3801 S. National
    Springfield, MO 65807
    (417) 885-4088
    EOE

For Further Employment Opportunities Contact:
EMPLOYMENT HOTLINE (417) 888-5525

FACULTY

Georgetown University Hospital, Department of Radiology has a faculty position opening for a board certified (or board eligible) Nuclear Medicine physician. A clinical and research interest in Nuclear Cardiology is desirable, but not mandatory. Send CV to:
    Harvey A. Ziessman, MD
    Director of Nuclear Medicine
    Georgetown University Hospital
    3800 Reservoir Road, NW
    Washington, DC 20007

Help fight asthma.

AMERICAN LUNG ASSOCIATION
The Christmas Seal People®

It’s a matter of life and breath*

Space contributed by the publisher as a public service

NOTE: SNM chapters are invited to submit job referral service listings for publication. Pertinent information—name and brief description of the service, telephone number and/or address, name or number of contact person for inquiries—should be sent to:
Leigh Silverman, Section Editor, JNM/JNNMT The Society of Nuclear Medicine, 136 Madison Avenue New York, NY 10016-6760.
Each description of the products below was condensed from information supplied by the manufacturer. The reviews are published as a service to the professionals working in the field of nuclear medicine and their inclusion herein does not in any way imply an endorsement by the Editorial Board of The Journal of Nuclear Medicine or by The Society of Nuclear Medicine.

Variable-Angle Dual-Head Camera

Sopha Medical Systems, Inc. offers a new gantry and dual-head detector camera, the sophycamera DST, for cardiac SPECT, general SPECT, whole-body, and general imaging procedures. The DST features a variable-angle detector design that permits its dual heads to be positioned at an angle or parallel to each other. With the heads positioned to form a 90° angle, the DST is optimally configured to perform 180° cardiac SPECT exams with 33% greater efficiency than a triple-head system. The camera’s heads may also be configured for two times the efficiency of single head WFOV systems during general SPECT, whole-body, or general imaging procedures. A detector rotational mechanism permits each head to be swiveled 90° to optimize the detector axis geometry for specific patients or procedures. The detectors may be moved radially, either synchronously or independently, under precise digital control. The DST features a unique telescopic motion that provides each detector with independent radial motion permitting trajectory body contouring techniques to be employed during whole-body or SPECT imaging procedures. The DST has 58 photomultiplier tubes and sopha’s patented digital electronics. With a useful energy range up to 400 KeV and configured in either 3/8” or 1/2” crystal thickness varieties, the DST can be optimized for select imaging requirements. The system features a flexible open gantry and detector design. A single multipurpose imaging table enables patients to be conveniently imaged in positions both perpendicular and parallel to the gantry. Non-transferable patients may be imaged directly on conventional hospital stretchers for select procedures. Sopha Medical Systems, Inc., 7155 Columbia Gateway Drive, Columbia, Maryland 21046. (301) 290-0100.

Circle Reader Service No. 101

Red Blood Cell Labeling Kit

Mallinckrodt Medical, Inc. announces the UltraTag RBC Kit for the preparation of 99mTc-labeled red blood cells. The kit offers good imaging quality for MUGA studies of right and left ventricular heart function and detection of gastrointestinal bleeding. It is an improved and simplified version of the Brookhaven National Laboratory kit for in vitro RBC labeling. The kit has three components: a reaction vial containing a lyophilized powder and two syringes containing solutions for in vitro labeling of red blood cells. After kit preparation, the technetium-labeled red blood cells are injected intravenously. There is no evidence of interference by concomitant medications and labeling efficiency can be confirmed before injection. Although labeled RBC’s should be injected as soon as possible, the kit offers maximum flexibility in patient scheduling. In a limited clinical study, in vitro labeling efficiency remained constant, more than 97% for up to six hours after labeling. Mallinckrodt Medical, Inc., 675 McDonnell Blvd., PO. Box 5840, St. Louis, MO 63134. (314) 895-2000.

Circle Reader Service No. 102

Wipe Test Monitor

Capintec introduces the CAPRAC Wipe Test Monitor, designed specifically to meet the needs of the busy nuclear medicine department where accuracy and speed are important. Operator on-screen prompts lead the user through counting, utility test, and diagnostics protocols. The system allows for counting in patient’s room, sealed source, and general measurement modes. Readout is available in Bq and Ci so that activity can be displayed in DPM for Wipe and Patient’s Room measurements and in nCi for sealed sources in the Ci mode and DPS in the Bq mode. There is an optional printer for record keeping. Capintec, Inc., 6 Arrow Road, Ramsey, NJ 07446. (201) 825-9500.

Circle Reader Service No. 103

PLEASE NOTE:

A new product from Toshiba America Medical Systems, Inc. was mistakenly referred to in the September issue of The Journal of Nuclear Medicine as an ultrasound product. The correct title for Toshiba’s product is GCA-9300A Three-Detector SPECT System.
Picker International introduces Cardicon-C, a floor-mounted C-arm system that is available in either stationary or rail mounted configurations. Stationary mounting at the head end of the table saves space for cardiovascular-only applications, while rail mounting enables the C-arm to travel 14 feet alongside the table. A variable-speed motor controls the longitudinal travel of the C-arm. The system employs a wide array of design elements that make it easy to transfer patients, achieve any series of angulations, and complete most procedures quickly and without conventional patient repositioning problems. The system's single-surface design eliminates nearly all outside cabling, helping to keep the work area free from obstructions and prevent intravenous line snags. An optional 30° tilt table with automatic 4-way power drive offers added interventional capability. All Cardicon-C gantry, arm, and table positioning is commanded from a convenient, user-friendly tableside controller. Picker International, P.O. Box 739, Berea, OH 44017. (216) 473-3539.

Circle Reader Service No. 104

**Gas Flow Detector**

Oxford Nuclear Measurements Group announces a low crosstalk windowless gas flow proportional detector for low background α/β Systems. The new detector design combines features from both gridded ionization and proportional detectors into a single design. This gridded proportional detector helps eliminate crosstalk between the alpha and beta counting channels, allowing simultaneous detection of gross alpha and gross beta. Relative improvement in efficiency ranges from 7% for 85Sr to > 30% for 14C and 210Po with similar improvements in the figure of merit. Crosstalk between alpha and beta channels is reduced by a factor of 8 for 210Po, 255 for 85Sr, and is not measurable for 14C. The detector is easily converted by the operator in the field from a windowed to a windowless detector. The proprietary detector design is available for both simultaneous (LB4000) and sequential (LB5100) series low background α/β counting systems. The detector may also be retrofitted to existing systems via a field service upgrade kit. The detector increases performance for all radionuclides, but is particularly well-suited for 3H measurements. Oxford Nuclear Measurements Group, 601 Oak Ridge Turnpike, P.O. Box 2560, Oak Ridge, TN 37830. (615) 483-8405 or (800) 255-1978.

Circle Reader Service No. 105

**10-Bit Board**

Coreco Inc. announces a 10-bit version of its Oculus 500 Frame Grabber & Processor. The new 10-bit series of boards are available in 15, 20, and 30 MHz versions. Based on a 60 MHz TMS 34010 chip, the Oculus 500 is well-suited to applications requiring high resolution and processing speed with a 15 MIP ALU incorporated into the board design. In keeping with the design intentions of the Oculus 500, all boards are also equipped with a multi-scan board to allow interfacing with digital or line scan cameras up to 16 bits wide. Coreco Inc., 6969 Trans-Canada Highway, Suite 113, St-Laurent, PQ, H4T 1V8. (514) 333-1301 or (609) 486-0330.

Circle Reader Service No. 106

**Trauma Stretcher**

Atomic Products has developed a Radiographic Trauma Stretcher to minimize the movement of traumatized patients from the ambulance to the emergency and X-ray rooms. Its height adjustability enables the stretcher to level quickly and meet the incoming patient. It is not necessary to transfer the patient to an x-ray table as the stretcher has full radiographic capabilities. In addition to permitting Fowler back adjustments from supine to 90°, the pliable material creates the "living hinge" that eliminates objectionable gaps and lines on radiographs. The cassette tray is accessible from either side of the table, saving valuable time. The tray accepts all sized cassettes and the lock-in film positioning prevents cassette shifting in the tray. Sliding entry with mechanical stops assures accurate cassette to grid alignment. Atomic Products Corporation, P.O. Box 702, Shirley, NY 11967. (516) 924-9000.

Circle Reader Service No. 107
THE SOCIETY OF NUCLEAR MEDICINE

MID-WINTER MEETING

Title: Computer and Instrumentation: Toward the 21st Century

Location: Hyatt Regency DFW, Dallas, TX

Date: Monday-Tuesday, February 10-11, 1992

Sponsor: The Computer and Instrumentation Council of The Society of Nuclear Medicine

CME Credit: Approximately 12 Hours AMA Category I

VOICE Credit: Approximately .9 CEUs available for VOICE Credit for Technologists

Seminar Notes: Registration includes a luncheon on Monday, February 10th, with a guest speaker. There are a limited amount of lunches available so please register early.

THE SOCIETY OF NUCLEAR MEDICINE

MID-WINTER MEETING

THE FEE

<table>
<thead>
<tr>
<th></th>
<th>Before 12/20</th>
<th>On/After 12/20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physicians/Scientists</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Members</td>
<td>$175.00</td>
<td>$220.00</td>
</tr>
<tr>
<td>Nonmembers</td>
<td>205.00</td>
<td>250.00</td>
</tr>
<tr>
<td>Technologists</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Members</td>
<td>80.00</td>
<td>110.00</td>
</tr>
<tr>
<td>Nonmembers</td>
<td>110.00</td>
<td>140.00</td>
</tr>
<tr>
<td>Students</td>
<td>70.00</td>
<td>70.00</td>
</tr>
</tbody>
</table>

ALL PRE-REGISTRATIONS MUST BE RECEIVED BY JANUARY 17, 1992

COMPUTER AND INSTRUMENTATION: TOWARD THE 21st CENTURY

Hyatt Regency DFW, Dallas, TX • Monday, February 10 — Tuesday, February 11, 1992

PLEASE ENROLL THE FOLLOWING (use copies for additional registrants):

Name (as it should appear on badge)

Affiliation

Address

City State Zip

Phone

MAIL TO:

THE SOCIETY OF NUCLEAR MEDICINE

DEPARTMENT OF MEETING SERVICES

136 Madison Avenue

New York, NY 10016-6780 • (212) 889-0717

I wish to pay by: □ Check □ VISA □ MasterCard

Card Number Expiration Date

Signature

$ Amount Enclosed (see above)

To make hotel reservations, call the Hyatt Regency DFW direct at (214) 453-1234. Indicate you are with The Society of Nuclear Medicine. Please make your reservations by January 10, 1992. Do NOT mail housing information to The Society.
DATA SPECTRUM PHANTOMS
3-DIMENSIONAL BRAIN

THE ORIGINAL ECT PHANTOM

ADDITIONAL PHANTOMS and INSERTS:
3-Dimensional Brain • 1-Dimensional Brain • Cardiac
Hollow Spheres • Hot Spot • Slice Thickness • Line Fixture
3-D Plate • Triple Line Source • Partial Volume
Elliptical Phantom • MRI Phantoms and Inserts

Data Spectrum Corporation is committed to maintaining high quality
medical imaging, and will continue to develop new phantoms
to meet the needs of the user.

Data Spectrum Corporation • P.O. Box 16115 • Chapel Hill, North Carolina 27516-6115
Tel: (919) 732-6800 • Fax: (919) 732-2260

SNM
39th Annual Meeting
Critical Dates

<table>
<thead>
<tr>
<th>Item</th>
<th>Form included in JNM</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abstract Form</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scientific Papers</td>
<td>October Issue</td>
<td>1/7/92</td>
</tr>
<tr>
<td>Scientific Exhibits</td>
<td>Contact SNM, Attn: Meetings Dept.</td>
<td>1/14/92</td>
</tr>
<tr>
<td>Registration Form</td>
<td>November Issue</td>
<td>5/8/92</td>
</tr>
<tr>
<td>Housing Form</td>
<td>December Issue</td>
<td>5/15/92</td>
</tr>
</tbody>
</table>

DON'T FORGET THE MID-WINTER MEETING IN DALLAS, TEXAS

DATE:
February 10–11, 1992

LOCATION:
Hyatt Regency DFW, Dallas, TX

SPONSOR:
The Computer and Instrumentation Council
SPECT BRAIN IMAGING
CLINICAL FELLOWSHIP

Department of Radiology
Section of Nuclear Medicine

BENEFIT:
This program is designed for nuclear medicine physicians, radiologists, technologists and referring physicians. It is intended to educate participants about the clinical utility of SPECT brain imaging with agents such as SPECTamine® and Ceretec®. Objectives include:
• Development of interpretation skills for brain images.
• Appreciation of clinical applications of SPECT brain imaging.
• Knowledge of image acquisition and reconstruction.
• Appreciation of factors that influence image quality.
• Knowledge of quality control techniques for SPECT.

SPONSORSHIP:
This program is sponsored by the Medical College of Wisconsin.

TUITION:
The tuition fee of $650 includes the course syllabus, handouts, breaks, breakfasts, lunches, and other amenities involved in making this a pleasant learning experience. Maximum enrollments have been established. Cancellations prior to the course will be refunded, less a $30 administrative fee.

CREDIT:
The Medical College of Wisconsin is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

Accordingly, the Medical College of Wisconsin designates this continuing medical education activity as meeting the criteria for 13.00 hours in Category I toward the Physician's Recognition Award of the American Medical Association.

Nuclear Medicine Technologists who attend the SPECT Brain Imaging Clinical Fellowship are eligible for 1.0 VOICE credit.

Register me for the following dates: (Please indicate a second choice)
I will need hotel reservations for _________ Sunday and Monday night/
________________ only Monday night.
I will need a ___________ single/__________ double room.

A check in the amount of $650 should accompany this registration form and be made payable to the Medical College of Wisconsin. Telephone registrations must be confirmed by check within 10 days.

Name ______________________
Address ______________________
City/State/Zip ____________________
Office Phone (_____) ____________________
home address

Registrations and payment should be sent to:
LisaAnn Trentham
SPECT Brain Imaging Fellowship Coordinator
Nuclear Medicine Division
Medical College of Wisconsin
8700 W. Wisconsin Avenue
Milwaukee, WI 53226 (414) 257-6068

WHEN ACCURACY COUNTS, COUNT ON SPECT-ALIGN

The SPECT-ALIGN™ Laser Patient Alignment System eliminates positioning error in crucial sequential brain studies. With SPECT-ALIGN, position duplication is so precise that the images produced can be superimposed.

That's accuracy!

GAMMEX LASERS™
GAMMEX LASERS, CORP. • P. O. BOX 26708 • MILWAUKEE, WI 53226 U.S.A.
(414) 258-1333 • 1-800-426-6391 • Telex 260371 • FAX (414) 258-0530
A Gammex Company

Help fight asthma.

AMERICAN LUNG ASSOCIATION®
The Christmas Seal People®
It's a matter of life and breath®

Space contributed by the publisher as a public service.
**Information for Classified Advertisers—1991**

**POLICY:** The *Journal of Nuclear Medicine* and the *Journal of Nuclear Medicine Technology* accept classified advertisements from medical institutions, groups, suppliers, and qualified specialists in nuclear medicine. Acceptance is limited to Positions Open, Positions Wanted, Equipment Available, Equipment Wanted, and Seminars. We reserve the right to decline, withdraw, or modify advertisements.

**LINE-ADS:** $19.00 (JNM) or $17.00 (JNMT) per line or fraction of line (approx. 50 characters per line, including spaces). Please allow 28 characters for the first line which will appear in capital letters. Special Positions Wanted rate for SNM members: $10.00 per line. **Note:** Box numbers are available for the cost of the two lines required.

**EXAMPLES**

NUCLEAR MEDICINE TECHNOLOGIST. Registered or registry eligible technologist to work in private office. Special emphasis on nuclear cardiology. Salary negotiable. Send resume to: Box 1203, The Society of Nuclear Medicine, 136 Madison Ave., 8th Fl., New York, NY 10016-6760. EOE.

WITH BOX NUMBER
COST: 6 lines × $19.00 = $114.00 (JNM)
6 lines × $17.00 = $102.00 (JNMT)

**DISPLAY ADS DIMENSIONS:**

<table>
<thead>
<tr>
<th></th>
<th>FULL PAGE</th>
<th>½ PAGE VERTICAL</th>
<th>½ PAGE HORIZONTAL</th>
<th>¼ PAGE</th>
<th>⅛ PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIDTH</td>
<td>6⅛&quot; wide x 9½&quot; high</td>
<td>3¾&quot; wide x 9¾&quot; high</td>
<td>6¼&quot; wide x 4¼&quot; high</td>
<td>3¾&quot; wide x 4¾&quot; high</td>
<td>3¾&quot; wide x 2¾&quot; high</td>
</tr>
<tr>
<td>HEIGHT</td>
<td>9½&quot; high</td>
<td>9¾&quot; high</td>
<td>9¼&quot; high</td>
<td>9¾&quot; high</td>
<td>9¾&quot; high</td>
</tr>
</tbody>
</table>

**RATES:**

<table>
<thead>
<tr>
<th></th>
<th>JNM</th>
<th>JNMT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full page</td>
<td>$1,300</td>
<td>$750</td>
</tr>
<tr>
<td>Half page</td>
<td>750</td>
<td>430</td>
</tr>
<tr>
<td>Quarter</td>
<td>500</td>
<td>325</td>
</tr>
<tr>
<td>Eighth</td>
<td>420</td>
<td>275</td>
</tr>
</tbody>
</table>

*Publisher-set charges: page $100; half page $75; quarter page $40; eighth page $25.

**TERMS:** Payment or an authorized Purchase Order must accompany order. Make check payable, in U.S. dollars on U.S. banks only, to: The Society of Nuclear Medicine. Note: 15% agency commission is offered on display ads only.

**FREQUENCY:** The *Journal of Nuclear Medicine* is a monthly and the *Journal of Nuclear Medicine Technology* is a quarterly, published in March, June, September, and December.

**DEADLINES:** *JNM*—First of the month preceding the publication date (for example, October 1 for November issue). *JNMT*—25th of second month preceding publication date (for example, October 25th for December issue).

**SEND COPY TO:** Classified Advertising Department
The Society of Nuclear Medicine
136 Madison Avenue, 8th Floor
New York, NY 10016-6760
FAX: (212)545-0221

*For further information please contact Lisa Esposito at (212) 889-0717.*
CardioGen-82®
Rubidium Rb 82 Generator

INDICATIONS AND USAGE

Rubidium chloride Rb 82 injection is a myocardial perfusion agent that is useful in distinguishing normal from abnormal myocardium in patients with suspected myocardial infarction.

CardioGen-82 (Rubidium Rb 82 Generator) must be used with an infusion system specifically labeled for use with the generator and capable of accurate measurement and delivery of doses of rubidium chloride Rb 82 injection not to exceed a single dose of 2220 MBq (60 mCi) and a cumulative dose of 4440 MBq (120 mCi) at a rate of 50 mL/min with a maximum volume per infusion of 100 mL and a cumulative volume not to exceed 200 mL. These performance characteristics reflect the conditions of use under which the drug development clinical trials were conducted. Adequate data from clinical trials to determine precise localization of myocardial infarction or identification of stress-induced ischemia have not been collected.

Positron emission tomographic (PET) instrumentation is recommended for use with rubidium chloride Rb 82 injection.

CONTRAINDICATIONS
None known.

WARNINGS
Caution should be used during infusion as patients with congestive heart failure may experience a transient increase in circulatory volume load. These patients should be observed for several hours following the Rb-82 procedure to detect delayed hemodynamic disturbances.

PRECAUTIONS

General
Data are not available concerning the effect of marked alterations in blood glucose, insulin, or pH (such as is found in diabetes mellitus) on the quality of rubidium chloride Rb 82 scans. Attention is directed to the fact that rubidium is physiologically similar to potassium, and since the transport of potassium is affected by these factors, the possibility exists that rubidium may likewise be affected.

Rubidium chloride Rb 82 injection must be administered only with an appropriate infusion system capable of meeting the performance characteristics previously described. (See INDICATIONS AND USAGE). The drug should be used only by those practitioners with a thorough understanding of the use and performance of the infusion system.

Repeat doses of rubidium chloride Rb 82 injection may lead to an accumulation of the longer lived radioactive contaminants strontium Sr 82 and strontium Sr 85.

Since eluate obtained from the generator is intended for intravenous administration, aseptic techniques must be strictly observed in all handling. Only additive free Sodium Chloride Injection USP should be used to elute the generator. Do not administer eluate from the generator if there is any evidence of foreign matter.

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

Radiopharmaceuticals should be used only by physicians who are qualified by training and experience in the safe use and handling of radiopharmaceuticals and whose experience and training have been approved by the appropriate government agency authorized to license the use of radionuclides.

Cardiogenesis, Mutagenesis, Impairment of Fertility
No long-term studies have been performed to evaluate carcinogenic potential, mutagenicity potential, or to determine whether rubidium Rb 82 may affect fertility in males or females.

Pregnancy Category C
Animal reproductive studies have not been conducted with rubidium Rb 82. It is also not known whether rubidium Rb 82 can cause fetal harm when administered to a pregnant woman or can affect reproductive capacity. Rubidium Rb 82 should be given to pregnant women only if the expected benefits to be gained clearly outweigh the potential hazards.

Ideally, examinations using radiopharmaceuticals, especially those examinations which are elective in nature, in women of childbearing capacity should be performed during the first few (approximately 10) days following the onset of menses.

Nursing Mothers
It is not known whether rubidium Rb 82 is excreted in human milk. Due to the short half-life of rubidium Rb 82 (75 sec) it is unlikely that the drug would be excreted in human milk during lactation. However, because many drugs are excreted in human milk, caution should be exercised when rubidium Rb 82 is administered to nursing women.

Pediatric Use
Safety and effectiveness in children have not been established.

ADVERSE REACTIONS
No adverse reactions specifically attributable to rubidium Rb 82 have been reported during controlled clinical trials.

HOW SUPPLIED
CardioGen-82 (Rubidium Rb 82 Generator) is supplied in the form of strontium Sr 82 adsorbed on a hydrous stannic oxide column with an activity of 90-150 millicuries Sr-82 at calibration time. The generator is encased in a lead shield surrounded by a labeled plastic container. Complete assay data for each generator are provided on the container label. CardioGen-82 (Rubidium Rb 82 Generator) is intended for use only with an appropriate, properly calibrated infusion system labeled for use with the generator.

(J4-263)

600-501 Issued: March 1991

Circle Reader Service No. 77
We've removed your PET collar

PET perfusion studies without a cyclotron

CardioGen-82® (Rubidium Rb 82 Generator) is the only generator-based myocardial perfusion agent indicated for PET imaging.

Now in 45 to 60 minutes you can have PET images to help you distinguish normal from abnormal myocardium. All without the expense of a cyclotron!

The short 75-second half-life lowers the radiation burden to the patient. When incorporated into the Rubidium Infusion System, serial imaging of myocardial blood flow changes can be performed as often as every ten minutes.

The CardioGen-82 System also improves patient throughput and scheduling efficiency by enabling you to perform multiple studies in a short time.

Remove the PET collar from your department. Get the PET images you need in 45 to 60 minutes, without a costly cyclotron.

Rubidium-82
Infusion System

Please see adjacent page for brief summary of prescribing information.

Circle Reader Service No. 77
See us at RSNA in Chicago, IL
Booth 1924

SQUIBB® Diagnostics