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For more details, request Bulletin 436-35

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**Powerful Software for Clinical Applications**

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- First pass RV ejection fraction
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- Film, laser, slide output of images
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3D Display: Myocardial perfusion of Thallium-201 ($^{201}$TI)
stress/redistribution.
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(2 minutes with 16-bit system)
nuclear camera?
speed?
validated over 10 years?


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- Number of slices
- Field of view
- Geometrical linearity

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- Crystal area up to 28 simultaneously (non-interpolated)
- Number of slices 23 cm dia x 20 cm H ± 0.2 mm
- Field of view
- Geometrical linearity

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**EUROPEAN NUCLEAR MEDICINE CONGRESS 1990**
May 20-24, 1990 Amsterdam

**Scientific Programme**
Plenary sessions with lectures by invited speakers will give a survey of state-of-the-art Nuclear Medicine in Europe. Free papers and posters are welcomed on basic and clinical science as well as on in vitro applications and radiopharmaceuticals. Abstracts may be submitted until February 1, 1990.

**Exhibition**
A comprehensive commercial exhibition of nuclear medicine equipment, radiopharmaceuticals and scientific books will be held in a 4000 sq.m. exhibition area adjacent to the Congress area.

**Social programme**
Amsterdam with its canals and museums is an ideal background for the congress. Several trips are organised for the participants to explore the Dutch landscape which is in full blossom at this time of the year.

**Registration and fees**
EANM members registering before 1/1/1990 no congress fee
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Non-EANM members registering after 1/1/1990 NLG 600.-
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And should a question ever arise about PRISM, our advanced high speed modem is also a standard feature. It enables immediate communication between you and Picker, making long distance problem evaluations and solutions a reality.

It all proves that Picker has what it takes to meet your needs. Even if it takes three heads to do it. For more information about the PRISM System, including support services, call Picker International, Ohio Imaging, Nuclear Medicine Division at (216) 475-1111.
Call for Abstracts for Works-in-Progress

The 1990 Scientific Program Committee solicits the submission of abstracts from members and nonmembers of The Society of Nuclear Medicine for the 37th Annual Meeting in Washington, DC. Works-in-Progress accepted for the program will be published in a separate on-site show directory that will be distributed to all those who attend the meeting. Original contributions on a variety of topics related to nuclear medicine will be considered, including:

- **INSTRUMENTATION AND DATA ANALYSIS**
- **RADIOASSAY**
- **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)

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

A complete educational program for technologists will be offered and technologists are encouraged to submit abstracts for their work for consideration.

**Deadline for Works-In-Progress is Friday, April 6, 1990**

The official abstract form for Works-in-Progress may be obtained from the October 1989 issue of JNM or by calling or writing:

The Society of Nuclear Medicine
Attn: Abstracts
136 Madison Avenue
New York, NY 10016-6760
Tel: (212) 889-0717
FAX: (212) 545-0221

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**The Society of Nuclear Medicine**

**ANNUAL WINTER MEETING**

**TITLE**

Functional Brain Imaging: Clinical Radiopharmaceutical and Instrumentation Update

**DATE**

Monday–Tuesday, January 29–30, 1990

**LOCATION**

Los Angeles Hilton, Los Angeles, California

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PRODUCTION CAPACITY SOARS
AT MEDI+PHYSICS
MANAGEMENT CREDITS CYCLONE 30 FROM IBA

Key Medi+Physics Personnel Express High Degree of Satisfaction with New Cyclotron and IBA Performance. Expectations to Date Have Been Met or Surpassed; Outlook Very Bright.

by Loretta MAY

On Tuesday, September 19, in an atmosphere highly charged with optimism and a warm exchange of transatlantic congratulations, Medi + Physics managers officially concluded acceptance testing of a new 30 MeV cyclotron at the company's South Plainfield, New Jersey, facility.

The new cyclotron, a "Cyclone 30" model, was designed, manufactured, and installed by the Belgian company ION Beam Applications, s.a. This internationally recognized firm, a front-runner in the creation of cyclotrons for use in nuclear medicine, is headquartered in Louvain-la-Neuve.

Medi+Physics, Inc., is one of the leaders in the development and marketing of innovative radiopharmaceuticals. The company has grown steadily over the past 20 years and currently operates five cyclotrons plus a five megawatt nuclear reactor.

Medi+Physics provides diagnostic radioisotopes to hospitals and nuclear pharmacies across the United States. With the addition of the IBA "Cyclone 30", Medi+Physics officials project a quick leap from third into first place among U.S. manufacturers.

Barely two weeks after Medi+Physics made formal acceptance of the "Cyclone 30" cyclotron, Amersham International plc, the healthcare and life science research products group, announced plans to acquire the American company. By adding the advanced production capabilities of Medi+Physics to its existing production base, Amersham will become the largest radiopharmaceutical manufacturer in the world.

WHY DID MEDI+PHYSICS CHOOSE IBA?

Ed Kowalski:
IBA was really the first company to make a negative ion cyclotron from the ground up.
Their goal was to make an industrial cyclotron with high guaranteed yields, very good performance, low radiation problems for people, and very low maintenance for the machine. And they succeeded in doing so.

Bob Morin:
IBA's cyclotron is definitely the machine of choice.

HOW DID YOU HEAR ABOUT IBA?

Ed Kowalski:
We read several papers about IBA and their design innovations, and we decided we should take a look at their prototype. So we went over to Belgium.

"In the medical cyclotron business, it takes a lot to satisfy a customer".
We saw the prototype, and we were enormously impressed. Everything that was on paper seemed to be fulfilled by that machine.

We were also impressed by IBA's track record. They designed that machine and produced a prototype in around 13 months. That's an absolutely amazing achievement, particularly for a new design.

**HOW DO YOU RATE IBA RELATIVE TO THE COMPETITION?**

*Ed Kowalski:*

Their machine is far superior to any machine that's ever been produced. It's the equivalent, in my opinion, to at least 3 other standard cyclotrons. And I think it's recognized now by all of the other companies because in a short period of time they sold eight additional machines. That's absolutely unheard of in that industry.

**IBA and the Cyclone Series**

IBA's involvement in cyclotron R & D reaches back more than 40 years. The prestigious UCL, IBA's parent organization, installed its first cyclotron in 1947. That machine was replaced in 1968 by a 90 MeV cyclotron with neutrontherapy applications and radioisotope production capability for use in SPECT and PET. The phenomenal success of the "Cyclone 30" testifies to the strength, experience and dedication of IBA's experts. It also reflects IBA's commitment to meeting the growing needs of nuclear medicine for production cyclotrons that are safe, efficient, and highly automated. Within a year of its introduction, the "Cyclone 30" easily outstripped the competition and achieved worldwide market leadership. Since then, IBA has launched two new systems - - the "Cyclone 10/5" and the "Cyclone 3-D" - - specifically developed for use in PET centers.

**WHAT ABOUT IBA IN TERMS OF QUALITY CONTROL?**

*Bill Buola:*

The installation people from IBA have been very insistent on ensuring a quality product. They're leaving a machine that meets all of their internal design parameters. They weren't quick and dirty about anything.

*Ed Kowalski:*

I've been in charge of 3 other cyclotron installations involving 3 other manufacturers. None of the competitors makes a machine that compares with IBA's.

**Bob Morin:***

The acceptance testing was completed within a very optimistic time frame. IBA managed to meet the schedule and do quite a good job of it.

**WERE ALL SAFETY REQUIREMENTS MET?**

*Ed Kowalski:*

That's one of the main features of this particular machine. Since there is no interception of the beam by any heavy metal internally, the machine is relatively cool. So you can run enormous amounts of currents and yet it's much cooler than any of the other machines we operate.

**HOW ABOUT EASE OF OPERATION?**

*Ed Kowalski:*

There isn't an elaborate tuning procedure to go through. Most of the equipment is preprogrammed. An untrained person can sit down at the machine and in five minutes bring it up to full energy, separate the beam into two beams, and put them on the targets. All you have to do it set the parameters. The beam comes out very easily. It's like a game. It's fun to play with. It's a very nice system.

**WERE THE IBA PERSONNEL COOPERATIVE?**

*Ed Kowalski:*

In a word, fantastic. When we first saw the machine, there were a number of things we wanted to incorporate into it for our specific requirements. We made the suggestions, they took the suggestions to heart and they tried them out. That kind of cooperation just doesn't happen. It's too expensive.

Essentially we were asking for a custom made machine, and they gave us their machine plus the custom input that we asked for.

**HOW WOULD YOU RATE THE ACCEPTANCE TESTS?**

*Ed Kowalski:*

These acceptance tests were the most rigorous, the most difficult, the most demanding tests that I've ever written up. When you write up a set of tests you write them up not to fail the machine, but to test the machine to its full capability. That's why they were written up to be so demanding.

**"It's like a game. It's fun to play with. It's a very nice system."**

IBA's "Cyclone 30" offers high productivity potential coupled with low power consumption. The machine installed at Medi-Physics will allow the South Plainfield plant to fulfill at least 50% of the company's total production requirements.

Well, it turned out I didn't write them up demanding enough. The machine passed with flying colors. It was beyond my expectations. It was phenomenal. It was a real pleasure to run those tests.

**WOULD YOU BUY YOUR NEXT CYCLOTRON FROM IBA?**

*Ed Kowalski:*

I kind of think they're the only ones we'd buy from because nobody else is going to have a machine like that for a while.

**Bob Morin:***

At the point where we are now, they're the only game in town for us.

**IBA, S.A.**

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Regional Service and Sales Application Engineers

Trionix Research Laboratory is a manufacturer of Advanced Nuclear Medicine 3-D Emission Computed Tomography systems such as Triad, Biad, and Monad.

Trionix was founded in 1986 by the core of Technicare's Nuclear Products Engineering Department. The team's first goal was to bring its latest and most ambitious Technicare project—the Triad—to market. Trionix accomplished this in 1988. In June 1989, Trionix introduced the Biad, the most innovative dual-head SPECT and whole body scan system with ultra-wide rectangular detectors. Subsequently, in order to complete the nuclear medicine product line, the Monad, a general purpose single-head system with the natural upgrade path to Biad, was brought to market in November 1989.

Today's goal is to remain on the cutting edge of product application development and to satisfy our customers' support needs in their clinical operations. We believe that this goal can only be reached by keeping our customer needs uppermost in our minds and fully adhering to our three point corporate philosophy, based on professional, business, and ethical principles, but always with a concern for our ultimate guide, humanity.

Trionix is in the process of establishing a regional customer service support and sales application support organization with a target date of March 1990. Trionix welcomes both fresh and experienced technical individuals in these areas. They must share our corporate philosophy. Naturally, the successful candidates are required to have a long-term commitment to mutual growth. They will receive intensive training in the corporate manufacturing environment in a Cleveland suburb. Candidates should have a minimum of two years experience in handling either scintillation gamma cameras or computer imaging applications.

The regional areas targeted for these centers are as follows:

| Cleveland, OH | Gainesville/Jacksonville, FL | Charlotte, NC |
| Washington, DC | San Francisco/Sacramento, CA | Atlanta, GA |
| New Haven/Hartford, CT | Los Angeles/San Diego, CA | Omaha, NE |
| New York City, NY | St. Louis/Jefferson City, MO | Iowa City, IA |
| Syracuse, NY | Kansas City, MO | Miami, FL |
| Raleigh/Durham, NC | Philadelphia, PA | Denver, CO |
| Dallas, TX | Rochester/Minneapolis, MN | Phoenix, AZ |
| Nashville, TN | Portland/Seattle, WA | Madison, WI |

Applicants are invited to send their resumés with salary requirements to:
Mr. David A. Huston, Trionix Research Laboratory, Inc., 1666 Enterprise Parkway, Twinsburg, Ohio 44087. (216) 425-9055

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NUCLEAR MEDICINE
TECHNOLOGIST

Position No: L.703

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Applications in writing giving full details of qualifications and experience together with names and addresses of two referees should be forwarded to:

The Personnel Manager,
The Liverpool Hospital,
Elizabeth Street, Liverpool, N.S.W. 2170 Australia.

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Memorial Medical Center, a 600 bed teaching health care facility affiliated with Southern Illinois University School of Medicine and located in Springfield, Illinois, is currently recruiting for a full-time Nuclear Medicine Technologist to join our staff of 4 technologists in the Nuclear Medicine division.

The department currently utilizes state-of-the-art GE imaging equipment and SPECT and participates in ongoing research projects, including monoclonal antibody studies.

You will benefit from our community-oriented lifestyle, rich in educational institutions, cultural activities and recreational opportunities for a current population of 105,000. We feel that this would be a challenging position for either the new graduate or experienced technologist. Memorial offers a merit-based salary system, flexible benefit package, on-site child care, 100% tuition reimbursement, and relocation assistance. Interested candidates may call (217) 788-3580 collect or forward resume to Allen Kelley, Employment Associate, MEMORIAL MEDICAL CENTER, 800 N. Rutledge, Springfield, IL 62781.

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SENIOR NUCLEAR MEDICINE TECHNOLOGIST

Our Nuclear Medicine Department has an immediate opening for a Senior Nuclear Medicine Technologist. The successful candidate must be a registered Nuclear Medicine Technologist, certified by the State of New Mexico, with a minimum of two years experience in nuclear medicine — supervisory experience desirable. This individual will supervise the technical and support personnel assigned to the Nuclear Medicine Department and perform duties directly involved with radioisotope procedures.

Memorial General Hospital, located in Las Cruces, New Mexico, offers excellent career opportunities, competitive salaries, and an outstanding benefits program, which includes health/dental/life/long term disability insurances, vacation and sick leave, noncontributory pension plan, child care subsidy, educational reimbursement, and much more.

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IMMEDIATELY required to Head the Nuclear Medicine Department at the Plains Health Centre, Regina, Saskatchewan, a 303-bed teaching referral centre affiliated with the College of Medicine, University of Saskatchewan. The hospital also serves as the major Cardioscience and Neuroscience Facility for the Southern half of the Province of Saskatchewan. The successful applicant should have competence in all aspects of Diagnostic and Therapeutic Nuclear Medicine. Applicants must be FRCP(C) in Nuclear Medicine or be eligible to take the examinations. In accordance with the Canadian Immigration Requirements, preference will be given to Canadian Citizens. Please submit curriculum vitae and references to Dr. D. Chinn, Secretary, Search Committee, Plains Health Centre, 4500 Wascana Parkway, Regina, Saskatchewan, S4S 5W9.
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**NUCLEAR MEDICINE SUPERVISOR**

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We offer an excellent salary and benefits and free parking. If interested, please call (215) 748-9195 or send a resume to Employee Relations Dept., MERCY CATHOLIC MEDICAL CENTER, Misericordia Hospital, 54th & Cedar Avenue, Philadelphia, PA 19143. Equal Opportunity Employer, M/F.

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**Oncologic Nuclear Medicine Staff Physician**

Division of Nuclear Medicine is seeking board certified, dynamic, academic physician/investigator to join Division of Oncologic Nuclear Medicine.

Candidate should be in the formative stage of academic career, and have a strong clinical background. Candidate will participate in integrative radiologic/oncologic patient evaluations, specialized oncologic radionuclide studies, and ongoing research projects. Position includes opportunities for teaching medical students, house staff and residents in Radiology, Nuclear Medicine, and Medical Oncology.

Dana-Farber, a teaching affiliate of Harvard Medical School, is a member of the Joint Program in Nuclear Medicine. Professional staff hold academic appointments at Harvard Medical School.

Applicants should send CV and letter of interest to: William D. Kaplan, M.D., Chief, Oncologic Nuclear Medicine, Dana-Farber Cancer Institute, 44 Binney St., Boston, MA 02215, or call 617-732-3286. An Affirmative Action Employer.

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VA Medical Center
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**Part 4** contains three appendices: List of MIRD Pamphlets, A Revised Schema for Calculating the Absorbed Dose from Biologically Distributed Radionuclides, and Kinetic Models for Absorbed Dose Calculations.

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Japan-U.K. Venture Develops Compact Cyclotron with Medical Diagnostic System

A compact superconducting cyclotron, one-fifth the weight and using one-third the power of conventional alternatives has been developed by Oxford Instruments Ltd. of the U.K. The cyclotron's first application will be to make short-lived radioisotopes for use in medical diagnosis. This will be accomplished by using a PET compound supply system recently commercialized by NKK Corporation of Japan. Since a cyclotron requires an electromagnet to provide a very strong magnetic field, it usually weighs about 20 tons and power consumption is about 100 kw. However, this new unit uses a superconducting electromagnet which not only is lighter but also reduces electricity consumption, since once it is energized, it operates in persistent mode. The weight of the cyclotron is only 3.6 metric tons and power consumption for the entire radioisotopic compound supply system, including a target box and a chemical black box, is only 36 kw. Following final beam testing in the U.K., the No. 1 unit will be taken to NKK's Applied Technology Laboratory in Kawasaki to test the performance of its PET supply system. NKK, Japan's second largest steelmaker and a leading engineering firm, began working with Oxford, the leading firm in the superconducting magnetic field, in the summer of 1987. Oxford designed and manufactured the cyclotron; NKK developed other components and associated systems. The entire system is being jointly marketed worldwide by the two companies. Charles E. Butler & Associates, 40 East 42nd St., New York, NY 10165. (212) 687-2480.

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