

# In step with Capintec

The Newsletter of Capintec, Inc.

Winter Edition

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## “Building Quality Imaging”

ACNP, Marco Island Florida

Capintec sponsored the speakers at the "Building Quality Imaging" on January 11, 2004. Recognizing the importance of Quality Assurance in the Nuclear Medicine field and as a manufacturer of equipment for Nuclear Medicine Departments, Capintec believes a strong Quality Assurance program will help identify potential equipment problems before they occur. This reduces the cost of more extensive equipment repair and more important prevents patient flow disruption or repeat examination caused by faulty equipment. Speakers for this session were well versed in the many issues that can affect the quality of care in the nuclear medicine department.

The program focused on the many aspects of Quality Control as a part of the overall Quality Assurance Program. Kristen Waterstram-Rich discussed "Practical Camera QC: What Really Makes a Difference." This presentation highlighted the many problems that can occur with gamma cameras if a good Quality Control process is not set into place. Capintec's Art Hall presented "Instrumentation QC: What Can Go Wrong," listing many of the pitfalls of Quality Control that can occur with nuclear medicine instrumentation. This

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## Gary Hausmann Joins the Capintec Team

"Capintec is pleased to announce the appointment of Gary Hausmann, BS, CNMT, as Technical Sales and Applications Specialist. Gary comes to Capintec with an array of sales and technical knowledge. As a Technical Sales Representative for a large communications company, he helped increase revenues and improve customer satisfaction. Gary did the same while Business Manager of a regional medical laboratory. Overall, Gary brings to Capintec over 20 years of field experience. Gary's responsibilities will include providing technical and sales support to Capintec's customers and staff, thus enhancing workplace productivity."

### Our Staff

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presentation covered Standards, Survey Meters, Dose Calibrators, Well Detectors, Thyroid and Surgical Probes. Tom Halpin presented "Quality Assurance: Developing a Program You Can Live With" that will be sustainable and viable within the Nuclear Medicine Department. Stefanie Margulies covered the "ICANL\* Accreditation Update Part I and Part II" as part of the process for obtaining departmental accreditation recognized across the nation as standard of excellence for Nuclear Medicine and Nuclear Cardiology Departments.

Quality Assurance is becoming increasingly important in the reimbursement arena. A good Quality Assurance program provides the patient and the payer with a greater level of confidence that diagnostic testing is meeting the minimum standards and also provides the patient and physician with valuable diagnostic and therapeutic data to ensure the best healthcare is afforded to the consumer.

\*ICANL- Intersocietal Commission for the Accreditation of Nuclear Medicine Laboratories

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# Radioimmunotherapy Protocols and Accuracy

Radioimmunotherapy has shown significant results in the fight against cancer and it should prove to be a staple in future cancer treatment. The basis of the therapy is to use radioisotopes that are beta emitters and therefore destroy the tumor cells through high radiation exposure. A significant advantage with this method of treatment is that the radiation is concentrated on the targeted cells with minimum damage to normal cells. Another benefit of radioimmunotherapy is the nominal side effects associated with the treatments.

Radioimmunotherapy success is directly related to the dose delivered along with tumor size and radiosensitivity. Due to the cost and time involved with these procedures, attention to detail is essential along with a comprehensive protocol.

Capintec can help improve your protocol with our new CRC<sup>®</sup>-15Beta Dose Calibrator. The simplicity, speed and accuracy of the CRC<sup>®</sup>-15R has now been carried to a new level offering two detectors that cover the widest range of nuclides giving the same accuracy to beta counting that is demanded of gamma counting. This intelligent system changes detectors with the push of one key and is always ready to count with either detector. The CRC<sup>®</sup>-15 BETA's advanced system allows selection of over 86 nuclides with their half-lives simply by typing the nuclide name/number and pressing ENTER. This sets the system up for accurate counting of the nuclide selected. This functions for both gamma and beta counting.



For facilities using high energy beta nuclides such as Sr-89 or P-32, the CRC<sup>®</sup>-15 BETA assay syringes or vials giving results in Becquerels or Curie units. The system is designed to store over 100 nuclides in its memory and for more than 20, the user can specify container effect compensation while defining calibration factors.

This system is perfect for those facilities that want a precise, accurate, reliable, quick and simple way to count both gamma and beta nuclides. With its built-in auto-calibration, QC programs and system test, the CRC<sup>®</sup>-15 BETA allows the use of one complete system to do the work of two counting systems and at a cost that says VALUE.

Ensure reliability and consistency for your radioimmunotherapy protocols by using the new CRC<sup>®</sup>-15 Beta Dose Calibrator from Capintec.

## Why go anywhere else for your calibration services?

When your Capintec unit is in need of calibration, why would you take it to anyone but Capintec? It just makes sense. Who better than Capintec to re-calibrate your Capintec unit?

Capintec provides calibration for your dose calibrators and ionization chambers. All Capintec dose calibrators and ionization chambers are calibrated on site at our Pittsburgh, PA facility. Our dose calibrator re-calibration procedure provides the final calibration of the completed chamber assembly with NIST Co57 and Co60 primary standards. Our ionization chambers are calibrated by intercomparison with an ADCL calibration chamber, using a GE orthovoltage x-ray machine. This in-house calibration includes selected points from 69 kVp, 1.0mm Al HVL through 250 kVp, 18.0 mm Al HVL. For facilities owning a Capintec PS-033 Thin-window Parallel Plate chamber, a mammography calibration point at nominal 28 kVp and 0.33mm Al HVL is included at no additional charge.

### ADCL Calibration:

Therapy or diagnostic chambers may also be calibrated at an ADCL (Accredited Dosimetry Calibration Laboratory) for an additional charge. Capintec has a calibration agreement with the University of Wisconsin (UW). A chamber can be

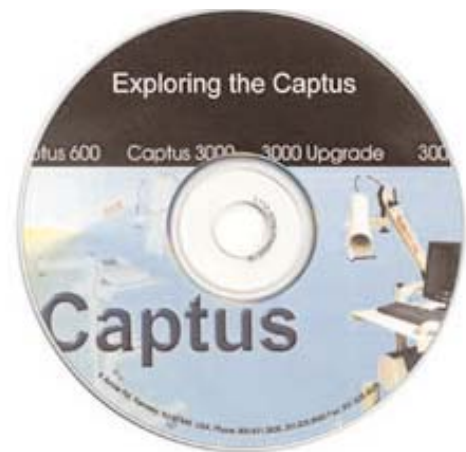
checked or serviced at the Capintec repair facility, delivered to the UW ADCL, and returned to the customer with only a single purchase order. In addition, Capintec and the UW ADCL offer a 90 day complete guarantee. If a calibrated ionization chamber fails for any reason within 90 days, Capintec will repair and provide recalibration at UW ADCL free of charge. No other company offers this guarantee!

Test drive a thyroid uptake system that's fast, reliable and extremely easy-to-use...

### The Captus<sup>®</sup> 3000... from Capintec

Call today to receive your CD by mail and demo the Captus<sup>®</sup> 3000 software. Click and browse the features of the Captus<sup>®</sup> 3000 as well as review reports.

Get your CD now and see the sleek, new, flat panel monitor that comes equipped with the Captus<sup>®</sup> 3000.



# On the road again!

SNM Pittsburgh Chapter	Pittsburgh, PA	March 06
SNM New England Chapter	Braintree, MA	March 26-27
GNYC SNM Tech Section	Tarrytown, NY	March 26-28
AMI Annual Meeting	Orlando, FL	March 28-31
SNM Southwest Annual Meeting	Austin, TX	April 2-4
SNM Mideastern Chapter	Richmond, VA	April 15-17
SNM Central Chapter	Chicago, IL	May 14-16
SNM 51st Annual Meeting	Philadelphia, PA	June 19-24

## A support team in every box

When you research the product you are considering for your facility, what do you look for? Quality, price, dependability and advanced technology come to mind. There is another very important factor to consider...the support team behind the product. When you buy from Capintec, our support team is right in the box with your delivery. From the moment you receive your unit, we are with you every step of the way. Our support services and benefits include:

- An 800 number that connects you to a fully trained tech support staff member
- Response within an hour
- 12 month warranty with purchase
- Optional extended warranties and service plans
- A loaner program in case your unit needs repair
- Complete on site training and installation
- Fully trained field service personnel

*Almost as important as the unit itself is the reputation and staff behind it. Capintec is a name you can trust.*

## WANTED

If you have an idea for a new product(s) we would like to talk with you about it. All discussions will be kept strictly confidential and a non-disclosure agreement will be signed to ensure confidentiality. If we feel your idea is feasible to include in our long-standing line of quality products, a financial agreement will be discussed with you and/or your institution.

Email [getinfo@capintec.com](mailto:getinfo@capintec.com) to take the first step in this exciting opportunity to work together to see your idea(s) come to life.

# Product Buzz

Our health physics, engineering and product development teams have been busy over the past year. We are presently introducing exciting new products that received a great deal of positive feedback from the AAPM, ASTRO and RSNA meetings.

The 2 Basic is a dual diode external beam dose measurement device, controlled from a PC. It provides precise dose measurements of high-energy photon and electron radiation (with one set of diodes) during the treatment of cancer patients.

- . Unlimited patient record storage & archives with printing capabilities
- . Reimbursable, CPT code 77331



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The Smooth Mover is a radiograph cassette holder that allows radiographs to be taken from virtually any angle, with complete flexibility and maneuverability.

What therapists liked most about this product was the smooth vertical adjustments due to a counter balanced stainless steel cable. Other manufacturers use rope, and as testified by therapists who used it, "The stainless steel cable makes all the difference in the world! You don't have to fight the device...it moves so smoothly!"

- . Saves time, energy & moves patient scheduling along smoothly
- . Reduces patient exposure to radiation due to reduction in retakes

# Product Spotlight

The CRC<sup>®</sup>-15 BT measures seeds quickly and precisely. With brachytherapy cases increasing, health physicists, dosimetrists and radiation safety engineers want fast and reliable seed measurements. They are beginning to see why Capintec has built an undisputable reputation for reliable measurement devices with physicists, technologists and nuclear pharmacists.

- . Reads HDR, LDR & IVBT sources
- . Easy to use menu driven functions
- . Readout in Curies or Air Kerma



Precise measurements for IMRT commissioning & QA is assured with our phantoms & chambers.

Receive single point dose verification and precise sampling of the IMRT radiation field to verify treatment plans with 25 ion chamber positions with 3cm spacing.

- . Chamber calibration in accordance with AAPM Accredited Dosimetry Calibration Laboratory guidelines
- . Diverse chambers for diverse measurements

Capintec diodes measure precise photon and electron energies with superior drift control. They retain 98% effectiveness after 15,000 exposures of 200 rads.

- . Hemispherical shaped for quick alignment and easy placement with flat bottom design. Thus, improves isotropic response and field size dependencies
- . Axial directional response variation is <1%, +90° from perpendicular





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# Capintec is your ONE SOURCE for “Beta” Hot Labs

Whether you are adding Beta capabilities to your current facility or setting up a new department, Capintec can help.

