CardioGen-82 Makes a Come Back
By Jackie Allen, CNMT

The rubidium-82 generator has been resurrected! To the delight of molecular imaging sites across the country, CardioGen-82 generators used for positron emission tomography (PET) myocardial perfusion imaging have returned to the market. Bracco Diagnostics, Inc. re-introduced its product this year—most appropriately—on Valentine’s Day. CardioGen-82 has been considered the gold standard in diagnostic cardiac molecular imaging. This product has been lauded for its overall diagnostic value, availability and safety since commercial distribution began. Cardiac PET imaging with rubidium-82 was an exciting breakthrough and a rapidly growing procedure, however, a disturbing turn of events halted its use.

According to reports released by the Nuclear Regulatory Commission, in March 2011, a traveler re-entering the United States triggered a radiation emission sensor at the security checkpoint. The traveler was found to be emitting unusual levels of strontium and was referred to Oak Ridge National Laboratory in Tennessee for whole body counting. This evaluation revealed a dose of 4.9 rem from strontium-82 and strontium-85. According to a U.S. Food and Drug Administration (FDA) report, shortly thereafter, another returning traveler crossing the border into the United States was found to be emitting unusual radiation levels. Whole body counting once again confirmed high levels of strontium-82 and strontium-85.

Coincidentally, both individuals received rubidium-82 PET myocardial perfusion scans at two and four months, respectively, prior to detection at the border checkpoints. Rubidium-82, having a half life of 75 seconds, would not have been suspected, except that neither individual had any other known exposure to a radioactive substance. In both cases, exposure was determined to originate from residual amounts of strontium-82 (half life of 25 days), the parent isotope of rubidium. The strontium levels far exceeded any levels ever associated with rubidium-82 administration originating from CardioGen-82.

Although unexpected, the patients’ radiation exposure levels that likely occurred from strontium breakthrough were considered to be minimal. According to an assessment based upon modeling performed by the Los Alamos National Laboratories in New Mexico, operated by the U.S. Department of Energy, those exposure levels were similar to what other patients would receive cumulatively with other types of cardiac imaging procedures. Although adverse effects to the two exposed patients are highly unlikely, any unnecessary radiation exposure is deemed undesirable.

An investigation was initiated to determine the root cause of the exposure. The participants of the investigation included the FDA, Bracco Diagnostics, Inc., Nevada Radiation Control Laboratory for inventory and investigation. A Clinical Assessment Program was initiated by Bracco Diagnostics involving sites that were similar to what other patients would receive.

In July 2011, Bracco Diagnostics voluntarily halted the distribution of CardioGen-82 and removed the existing rubidium generators from the market. Customers were required to return all generators to the Los Alamos National Laboratory for inventory and investigation. A Clinical Assessment Program was initiated by Bracco Diagnostics involving sites that were similar to what other patients would receive.

Continued on page 4, see CardioGen-82

Message from the President-Elect
By Brenda King, CNMT, FSNMTs

I have had the honor of meeting many of you this year while attending various spring chapter meetings and other SNMTS activities. Others I have met from around the world via LinkedIn and Facebook as we discussed issues and concerns that we all face on a daily basis. Many of you continue to ask questions such as, “Should SNMTS encourage allied health schools to close?” “What is the SNM doing to help its members with jobs and reimbursement?” or “Is it worth it to renew my membership?” The most recent question that is being discussed globally is, “What can we do to save our profession?” Although the SNMTS attempts to find useful answers to these and many other questions, not every answer will address your specific situation. However, rest assured, your leadership continues to seek possible solutions and opportunities for nuclear medicine profes-
Message from the President-Elect continued from page 1

sionals around the world.

We understand your frustrations and concerns about the future. Many of you entered this dynamic field when salaries were high and job security was thought to be assured. Today, we see a continuous erosion of those great salaries and many are experiencing the uncertainty of job security. For those of us that have been around for many years, we recognize this cyclical downturn as this is not the first time that it has occurred. During the last downturn, the industry survived by reinventing itself and we emerged stronger and more focused on the future. We accomplished this through the development of new radiopharmaceuticals and imaging equipment, identifying additional career ladders within the profession and producing highly skilled and educated technologists capable of performing cutting-edge protocols to assure optimal patient outcomes.

Expanding curricula has led us to seek Bachelor of Science degrees as the entry level position in nuclear medicine, garner multiple modality certifications and even attain a master’s degree in nuclear medicine technology to help us secure our futures. Yet, even with these additional attributes, many individuals still cannot find that first job in nuclear medicine, and others continue to lose their long held positions as imagers, supervisors, applications specialists and sales representatives—the current available career pathways for nuclear medicine technologists. So maybe it’s time to learn from our past experience or identify and create new pathways for our skills and knowledge.

During periods of uncertainty and disillusionment, we must keep our minds open to hear the quiet voice of opportunity. In the past, nuclear medicine was considered a single entity. In today’s imaging environment, hybrid technology—and the rapidly advancing research that incorporates imaging at the molecular level—brings with it new opportunities and challenges. Our course is changing. To embrace our future, we cannot stand on the status quo, so let’s consider the opportunities that imaging at the molecular level brings to our profession. Career pathways in clinical research, molecular imaging with entirely new imaging technology, radiopharmaceutical production and the various commercial opportunities associated with this new avenue of imaging are but a few of the opportunities that are possible. It is also the reason that SNM is moving forward with officially incorporating molecular imaging into the name of our professional organization, anticipated to be the “Society of Nuclear Medicine and Molecular Imaging”—if approved at the Annual Meeting in Miami Beach, FL this June.

We can save our profession by listening to the voice of opportunity. In future publications I will be expanding on plans already in motion for the 2012-2013 leadership year that will develop new career ladders and pathways in molecular imaging and therapy for nuclear medicine technologists. As always, I welcome your comments and suggestions via email, Facebook or LinkedIn! We are all in this boat together…sink or swim!
Where are the Jobs for Nuclear Medicine Technologists?

By Kelly Reese, BS, CNMT, Student Specialty Area Representative

As a recent graduate from a nuclear medicine technology program, I know firsthand that the job outlook for new nuclear medicine technologists is more than discouraging. I assumed, when entering into the program in 2007, that upon graduation I could pick an area of the country in which I wanted to live and find a job with relative ease. This assumption was based on the intense growth and prosperity in the nuclear medicine field in the 1980s, 1990s and early 2000s. Although there are many supposed reasons for this decline, field saturation is a major factor for the decrease in available technologist positions.

The number of job openings has decreased considerably and in many cases, hospitals, out-patient facilities and academic institutions are downsizing to meet budgetary restrictions enforced upon them. Working technologists are being asked to take on more hours, more on-call, and more responsibilities. Unemployed technologists are being forced to take part-time work, without insurance, move to different areas within the field, or even, in some cases, change careers altogether. In the past, when the field has seen a decrease in available jobs, the economy has usually assisted in correcting this phenomenon; however, the drastic economic down turn, coupled with health care reform, reimbursement issues and delayed retirement of the baby boomers has weakened the job market for nuclear medicine technologists more than ever before.

There are currently 99 accredited nuclear medicine training programs in the United States. According to the Bureau of Labor Statistics’ Occupational Outlook Handbook, there were a reported 21,900 nuclear medicine technologist positions in the United States in 2010. The number of certified nuclear medicine technologists is exceeding the number of job openings. Competition for technologist positions is fierce. The Bureau of Labor Statistics reports an expected 19 percent growth in employment of nuclear medicine technologists from 2010 to 2020, which is slightly higher than the expected growth of 14 percent for all occupations. This 19 percent growth will result in about 4,100 new jobs during this interval, or about 410 new jobs a year. While the anticipated increase in jobs is encouraging, the number of graduates that accredited programs are producing is still much greater than the number of available jobs each year.

It is becoming more and more evident how important it is to have training in multiple diagnostic modalities or specialty certifications, including positron emission tomography, nuclear cardiology, magnetic resonance imaging, computed tomography, radiation therapy, sonography or radiologic technologies. To be competitive in the job market, a person needs to be able to adapt to the changes within the field. The technologist of the future needs to be able to wear a lot of hats and keep up with the ever changing advancements.

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TAG Team Success in Kentucky

By Danny Basso, CNMT, NCT, FSNMTS

The SNMTS is dedicated to the advancement of nuclear medicine and molecular imaging technologists by providing education, advocating for the profession and supporting research to achieve clinical excellence and optimal patient outcomes. The SNMTS Advocacy Committee was created with those goals in mind.

While the SNMTS Advocacy Committee is still finalizing its State TAG Team, the program has already proven to be a success. TAG is short for Technologist Advocacy Group, which was created to replace the State Health Policy Liaison (SHPL) program. Laws and regulations pertaining to nuclear medicine technologists differ by state, leaving many of our members confused regarding licensure and continuing education requirements. Members are also often unaware of their state’s nuclear medicine Radiation Control Program, Conference of Radiation Control Program Directors representative and Assembly/House and Senate leadership. This is where the TAG Team steps in.

The TAG Team requires at least one dedicated nuclear medicine technologist in each state. These TAG TEAM representatives are responsible for a variety of tasks, including, but not limited to, answering member questions, keeping their ear to the ground regarding changes to relevant laws or regulations, and being the liaison between the states and the SNMTS.

The TAG Team’s most recent success comes from newly passed legislation in Kentucky. Kentucky House Bill 137 was a proposal to establish an independent licensure board for radiography, nuclear medicine technology and radiation therapy. It follows the change to the administrative regulations in 2007 to include nuclear medicine technologists and radiation therapy technologists in the certification requirements. Radiographers had been certified in Kentucky since the 1970s. Prior to this legislation, certificates (licenses) came from an administrative office under the Radiation Control Branch. The new board proposed by the bill would be set up with a group of radiographers, nuclear medicine technologists and radiation therapy technologists appointed by the governor to oversee medical imaging in the state.

With the help of SNM’s Kentucky TAG Team representative, Charles Coulston, MSEd, CNMT, RT(N)(R), House Bill 137 was passed out of the legislature on March 30 and brought to the governor’s desk. Meetings are planned for the coming weeks to discuss possible nominations to the board. This marks one of the TAG Team’s first major accomplishments. Having a dedicated member in the state was crucial in keeping the SNMTS up-to-date as the bill moved through the legislative process.

To see if your state still needs a TAG Team representative, please visit http://www.snm.org/TAG. If you are interested in becoming a member of the TAG Team or would like to nominate someone, please contact Jesse Schoolnik, SNM government affairs manager, at jschoolnik@snm.org.
Cardio Gen-82 continued from page 1

had administered CardioGen-82 from January 2011 through July 2011. This program was developed and implemented in order to capture any additional information about incidents of unexpected exposure.

In the final analysis, the incidents were both isolated and site-related. User error, relative to poor quality control, was found to be responsible for both medical events. Of 113 generators that were returned and capable of being evaluated, all were operating within the specifications for strontium-82 and strontium-85 breakthrough. Based on those findings and with the support and assistance of the FDA, Bracco Diagnostics released its product to the market.

The re-training and re-certification program is the result of extensive planning and production designed to re-introduce the CardioGen-82 generator into the market with enough safeguards and oversight to virtually eliminate risk for error. The overall program included re-assessment and validation of manufacturing, new product labeling, increased quality controls and development of revised user training and continuing education. All CardioGen-82 generator users and their radiation safety officers must successfully complete the training and certification program prior to receipt of a generator.

The comprehensive requirements and protocols are far more extensive than those in the past. The CardioGen-82 Product Knowledge Assessment and Compliance Program will provide training, monitoring, continuing education and required annual re-certification to all authorized facilities. Authorized facilities must maintain continued accreditation. Training is focused on five major topics: (1) Generator Installation, (2) Generator and Infusion System Functionality, (3) Generator and Infusion System Operating Procedure, (4) Quality Control Procedures, and (5) Generator Return. Users and radiation safety officers must attend re-training and complete an online Knowledge Assessment to use the CardioGen-82 generator.

The sites must also participate in a quality review process semi-annually. Infusion systems must receive periodic maintenance within the first year and every year thereafter. Sites must strictly adhere to quality control parameters, expiration limits and a daily, detailed online documentation process. Bracco Diagnostics has an obligation to take action upon sites that are non-compliant with the quality control program.

Sanford Medical Center in Fargo, ND, is one of the facilities, nationwide that participated in the limited and phased re-introduction of CardioGen-82 generators. Donna Newman, BA, RTR, CNMT, PET, Sanford’s nuclear-PET lead technologist, is a member of the Bracco Diagnostics Cardiac Council that was formulated during the recall process. According to Donna, CardioGen-82 training, which was always in place, is now more “formalized.” All users receive exactly the same training across the board. “The new, more extensive training program,” Donna states, “builds user confidence, which instills patient confidence.”

Bracco Diagnostics has established “user competencies” as well. Users at Donna’s facility are aware they must re-certify annually to use the generator. When asked about the overall impact on patient flow and cost effectiveness, Donna states that the process of strict documentation, tracking generator elutions and quality control, has been set-up in a way that is detailed, but not too complicated or overly time-consuming for any user to carry out completely and correctly. She states that the new Bracco Diagnostics worksheet that is maintained online and forwarded to the company daily shows “best practice” and greatly reduces the chance for error. Quality controls can take about an hour. Most of the quality control process fits in during the same time period as the existing daily departmental quality control procedures and initial patient preparation; therefore, it has little or no impact on overall workflow.

Donna runs a “medium-sized” (two camera) PET department with a full schedule. Another concern that Donna addressed was the misconception of CardioGen-82 rubidium-82 generators as an expensive undertaking. “On the contrary,” she noted, “that not only did Sanford Medical Center’s cardiac PET program increase rapidly but they found that if two rubidium-82 cardiac PET procedures are performed per day at their facility, they would break even on the CardioGen-82 investment.” Sanford Medical Center’s PET imaging department is enthusiastic and motivated about resuming their cardiac PET program with CardioGen-82.

Vendor, regulatory agencies, and user facilities alike are engaged and committed to maintaining the safety and efficacy of myocardial perfusion imaging using the CardioGen-82 generator. The molecular imaging community applauds the conscientious re-introduction of one of the most useful imaging products on the market today.

Miami Beach is Calling

By Ellie Mantel, CNMT, RT(N), NCT

Warm weather and sandy beaches…Miami Beach, FL, is calling. While yes, Miami Beach has warm weather and sandy beaches, this year it also has the SNM Annual Meeting. Make your plans now to attend this year’s educational symposium.

The SNM and SNMTS Scientific Program Committees have assembled a diverse program that will meet the needs of all our members. The technologist education program offerings begin with the categorical sessions on Saturday, June 9. This year, not only are we presenting cutting-edge nuclear medicine and molecular imaging topics, we are also focusing on new career opportunities for the nuclear medicine technologist. “Career Development Options for the Nuclear Medicine Technologist” is a categorical designed for technologists wanting to explore other career pathways, just another way we are working to assist our members in shaping their future. Continuing education sessions commence after the categorical tracks and continue through Tuesday, June 12.

Sunday, June 10, brings us to the SNMTS plenary session. This year Ann Marie Alessi, BS, CNMT, NCT, RT(N), our SNMTS president, will preside over the annual awards recognition ceremony. The awards recognition ceremony acknowledges those individuals who have dedicated their time and energy into making our society and this meeting a continued success. She will then turn the session over to Betsy De Parry. DeParry’s presentation, “Guiding the Journey: Helping Patients through Illness,” shares her insight into the experience of illness and teaches you how to improve the lives of patients.

You won’t want to leave Miami Beach and end your meeting before you attend the annual SNMTS party. “Tanks, Tees and TECHS!” will surely bring you back to your childhood days at the beach. This year is no different than any other year—it’s an event you surely won’t want to miss!

We look forward to seeing you in Miami Beach. The meeting planner is available online. Visit www.snm.org/amp for up-to-the-minute meeting information.
Focus on the Fellow, LisaAnn Trembath, MSM, CNMT, NCT

By Laura Wall, MBA, CNMT, NCT, RT(N)

Thanks to an allied health care career handbook, LisaAnn Trembath, MSM, CNMT, NCT, found a career with many opportunities. The combination of physics and patient care in nuclear medicine sounded like a perfect fit for LisaAnn. After first obtaining a Bachelor of Arts degree in natural science from Concordia University in St. Paul, MN, LisaAnn graduated as a nuclear medicine technologist from The Ohio State University Hospital in 1985. In 2006, LisaAnn earned a master’s degree in business management from Cardinal Stritch University in Madison, WI.

As evidence that there are options for nuclear medicine technologists other than working solely in a clinical setting, LisaAnn is currently employed as associate director, clinical imaging operations, at Avid Radiopharmaceuticals. LisaAnn enjoys working with a dedicated team of scientists and other professionals who are committed to advancing our medical knowledge about Alzheimer’s disease and other dementias. Having recently lost her mother from dementia, this work definitely sparks a deep passion to make a difference. Learning something new every day, either about the clinical sciences or successful clinical research gives LisaAnn a great feeling of satisfaction. With much of her career revolving around clinical trials, LisaAnn has worked as a consultant for nuclear medicine trials in PET, managed a dosimetry trial for a new therapeutic radiopharmaceutical and been a study coordinator. In addition to being a member of SNMTS, LisaAnn is a member of the Association of Clinical Research Professionals and in 2009 became board certified as a Certified Clinical Research Associate.

Knowing the value of becoming involved in one’s professional society, LisaAnn became involved in the Central Chapter in the first few years of her career as a research technologist. As an active member of the Central Chapter, LisaAnn was fortunate to be elected as president-elect (1995-96), president (1996-97) and also as finance chair (2003-04). Additionally, LisaAnn served the Central Chapter as a member of the SNMTS Scientific/Teaching and Leadership and Mentoring Committees and the Executive Board.

Getting involved was easy for LisaAnn since her first boss, David Collier, MD, ABNM, ABR, MA, supported and encouraged her interest and involvement. Having held positions in the SNMTS as Government Relations Committee chair, member of the Awards Committee, and consultant to the Socioeconomic Affairs Committee, LisaAnn is most proud of her work helping to put together the Clinical Trials Network to help nuclear medicine professionals perform clinical trials successfully and in compliance with regulations. Asked what has been the highlight to her involvement with the SNM/SNMTS LisaAnn says, “being awarded the SNM/Fellowship President’s Award from Lyn Mehlberg [BS, CNMT, FSNM].” Besides Lyn, she also credits Gail Rodriguez, PhD, Eileen Smith, MBA, CNMT, Lynne Roy, MBA, CNMT, FSNM, and Kathy Thomas, MHA, CNMT, PET, FSNM, as being “wonderful sounding boards and sources of support.”

Looking to the future, LisaAnn would like to write a book about clinical research in medical imaging. Currently, she lives in Madison, WI, with her partner, two cats, a dog, and four fish. Outside of work, LisaAnn enjoys playing music, reading, snorkeling, and travel (although to her close friends the latter is quite ironic since she is self-described as “directionally challenged” and has been known to get lost frequently!). Not a quitter, LisaAnn says, “I believe I can learn and be a better person from anything that is happening to me.”

Awarded Fellow status in 2009, LisaAnn says it feels great to be acknowledged for years of volunteer leadership. All of the hard work that has gone into the activities and positions required to receive Fellow status has benefited LisaAnn professionally. She notes that every committee position that contributed to being an SNMTS Fellow, “taught me something new about business skills, organizational politics, working in teams, public speaking, leadership, or how I can improve my professional interactions.” Echoing the sentiment of many other Fellows, becoming a Fellow was not the motivation to volunteer all those years. LisaAnn encourages others to get involved and take advantage of the professional networking and opportunities to work alongside leaders in all aspects of nuclear medicine and medical imaging.

Vote on Proposed SNM Name Change

The vote on the proposed SNM name change to the “Society of Nuclear Medicine and Molecular Imaging” will take place on Monday, June 11, at the SNM Business Meeting, held between 8:00 am and 10:00 am, during the Annual Meeting in Miami, FL.

We strongly encourage all voting members to attend the meeting in order to actively participate in this historic and very important vote. If you are unsure whether you are a voting member, please contact memberservices@snm.org. For more information, please visit www.snm.org/namechange.
SNM 2012 Annual Meeting
June 9-13, 2012

This is an exciting time of the year as the Annual Meeting approaches in beautiful Miami Beach, FL. There are many continuing education opportunities coming up! Attendees have the opportunity to earn a maximum of 36.75 VOICE credits.

For the first time, in conjunction with the Section for Magnetic Resonance Technologists, the SNMTS is offering an MRI review course as a CE session. An incredible opportunity to learn MRI imaging, each of the two CE sessions offers 1.5 VOICE credits.

If you are unable to attend the SNM 2012 Annual Meeting or would like to get more CE opportunities, you can access full-motion video capture of 70 of the most popular sessions from the SNM 2012 Annual Meeting online or on your mobile device through SNM’s Virtual Meeting.

The SNM Virtual Meeting includes:
- The option to view on your iPad, iPhone or Android 2.2 or higher.
- Seventy of the most popular sessions from this year’s Annual Meeting, featuring over 100 hours of content—including 20 of the most popular technologist sessions with over 30 hours of content and 45 VOICE credits.
- VOICE credits available for sessions you did not attend at the meeting. The sessions will offer a maximum of 103.0 VOICE credits.

You can purchase the SNM Virtual Meeting as part of your Annual Meeting registration or you can buy it separately at www.snm.org/virtualmeeting. It’s the perfect complement to your SNM 2012 Annual Meeting experience!

NCT Certification Review and Mock Examination Course

This popular workshop will be offered as an SNM 2012 Annual Meeting pre-conference event on June 7-9, 2012. The course will offer 15.25 VOICE credits. It is designated for nuclear medicine technologists with experience in cardiac imaging who are considering sitting for the Nuclear Cardiology Technologist (NCT) certification exam. The attendees will have a thorough review of nuclear cardiology to cover the topics outlined in the Nuclear Medicine Technology Certification Board (NMTCB)-published Nuclear Cardiology Examination Content Specifications.

The NCT Certification Review and Mock Examination will enhance and reinforce your knowledge of:
- Cardiac anatomy
- Physiology
- Pathology
- Electrophysiology
- Imaging and processing

You will learn valuable information on ECG interpretation, stress test end points, exercise capacity and performance measures, as well as cardiac and emergent medications.

Please visit http://interactive.snm.org/index.cfm?PageID=11061 for additional information on how to register for this workshop.

PET Review Workshop – September 2012

A PET Review Workshop will be offered in September 2012 and will provide 14.0 VOICE credits. This workshop is designed to assist nuclear medicine professionals develop the required knowledge in PET and PET/CT to prepare for the NMTCB’s PET exam. The three-day program will include comprehensive lectures covering all the topics listed in the NMTCB’s PET content outline and will conclude with a mock examination.

For more information, visit www.snm.org/education.

Putting statistics and numbers aside, as a job-seeking technologist I have come to know the job bank websites very well. My observation has been that the job market is constantly changing. One day there will be six openings in an area. Soon after, there will be a four-month dry spell. Some websites still produce about 500 openings for the “nuclear medicine technologist” search. Jobs are few, but they are becoming available. With a lot of persistence and a little luck, something just might turn up.

Look for the next Uptake issue for an article from Jan Winn, CNMT, from the Joint Review Committee on Educational Programs in Nuclear Medicine Technology, on the relationship between professional organizations and nuclear medicine technology programs.
Molecular Imaging Training Course Debuts

By Heather Jacene, MD

As we all know, nuclear medicine is rapidly evolving. Molecular imaging, including non-radioactive tracers, is becoming an increasingly important part of our specialty. As a result, the Society of Nuclear Medicine (SNM) refocused its mission to incorporate the expanding role of molecular imaging in patient care and is now considering a name change to the “Society of Nuclear Medicine and Molecular Imaging.”

With this new mission, the Center for Molecular Imaging Innovation and Translation Education Task Force has examined the educational needs for current and future molecular imaging professionals. Suggestions were developed for curricula and a white paper on molecular imaging training for scientists was published.

A new series of educational lectures in molecular imaging is debuting this year in a monthly webinar format. The curriculum is primarily designed for nuclear medicine and radiology residents, but is also helpful for physicians, scientists, technologists and other professionals who want a better understanding of molecular imaging. These series of webinars are designed to educate participants on the basic principles of molecular imaging, including methods employing radioisotopes, optical imaging agents and magnetic resonance.

At the conclusion of the program, participants will:

- Review the basic science of molecular imaging, including molecular and cellular chemistry, biochemistry, biology, imaging physics and instrumentation.
- Apply key concepts to effectively communicate and interact with experts in molecular imaging.
- Discuss the current and future roles of advanced molecular imaging techniques and agents for clinical imaging of disease.

The following topics will be offered monthly (and on-demand) with CME and VOICE credit: Molecular and Cellular Biology Overview, Cell Trafficking, Animal Imaging and Instrumentation, Magnetic Resonance Imaging and Spectroscopy, Molecular Imaging of the Heart, Optical Imaging, Techniques and Agents, Apoptosis, Angiogenesis, Proliferation, Reporter Genes, Amyloid Imaging, Hypoxia, and Molecular Imaging with Ultrasound Technology.

Through training mechanisms such as this course, SNM hopes to help grow and evolve the field of molecular imaging. To learn more about the program visit www.snm.org/cmiit.

Calendar of Events

June 9-13, 2012
SNM Annual Meeting; Miami Beach, FL
Host: SNM
Contact: SNM Meetings Info, MeetingInfo@snm.org, (703) 708-9000, ext. 1229

July 21-22, 2012
Viva Las Vegas; Las Vegas, NV
Host: Pacific Southwest Technologist Chapter – SNM
Contact: Susan Gavel, ksthomas0412@msn.com, 818 676-4107

September 20-23, 2012
Southeastern Chapter SNM Annual Meeting; Savannah, GA
Host: Southeastern Chapter – SNM
Contact: Merle Hedland, mhedland@secsnm.org, (630) 323-7214

October 6-7, 2012
Central Chapter SNM – 2012 Fall Educational Symposium; Wisconsin Dells, WI
Host: Central Chapter – SNM
Contact: info@ccsnm.org, 630-428-3400

October 25-28, 2012
37th Annual Western Regional SNM Meeting
Host: Pacific Northwest, Northern California Pacific Southwest and Pacific Southwest Technologist Chapters – SNM
Contact: Sue Hogeboom, wrsnm@cs.com, (425) 893-8410

October 26-27, 2012
Northeast Regional Scientific Meeting; Stamford, CT
Host: Greater New York and New England Chapters – SNM
Contact: Mitchell Stromer, mitche390@aol.com, (718) 405-8468

NMTCB Call for Directors

The Nuclear Medicine Technology Certification Board (NMTCB) is seeking applicants to serve on its board of directors. This is an excellent opportunity to become involved in one of the more challenging and important areas of your profession—establishing standards of professional competency.

Interested certified nuclear medicine technologists may request an application form and direct any questions to David Perry, NMTCB executive director, at (800) 659-3953 or board@nmtcb.org. Applications and information about the requirements, roles and responsibilities are also available on the NMTCB website at www.nmtcb.org under the Resources tab.

Completed applications received by August 15, 2012, will be reviewed at the fall NMTCB board of directors meeting. The four-year term for the newly elected director begins on January 1, 2013.
The assessment of cardiovascular disease should be a standard component of care for all patients with chronic kidney disease (CKD). Learn about cardiac stress testing in patients with CKD.

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