I want you to know that SNM remains strong and continues to get stronger. Our membership is growing slowly but surely. During the past few months, SNM has remained proactive, initiating a number of new programs that promise to place the society in an influential, strategic position for the future.

Molecular imaging promises to contribute extensively toward improving the quality of life for our patients. The role of radioactive tracers and nuclear medicine in molecular imaging remains undisputable. However, we realize the rising potential of other imaging modalities, and SNM continues to remain inclusive. SNM has formed a Molecular Imaging Center of Excellence and recently held a historic summit that was co-organized with RSNA. At the April 21–22 summit, key leaders in molecular and functional imaging, nuclear medicine, radiology and engineering discussed increasing awareness of the future of molecular imaging in the imaging community and developing tools to prepare current generations of graduates for the future. SNM will be holding a Molecular Imaging Summit in the late fall of 2005 or early spring of 2006, sponsored by the Nuclear Medicine Industry Leaders Working Group. This Summit, currently in the planning stage, is designed to ask and answer tough questions pertinent to the future of the molecular imaging industry.

The National Radionuclide Production Enhancement (NRPE) program remains important for the continued function and future innovation in nuclear medicine. The five NRPE goals, which include funding of $76–86 million over 10 years, are supported by 13 other biomedical organizations and has caught the attention of several key senators. Continued efforts on the part of SNM will determine the program’s long-term success.

SNM’s commitment in the international arena remains strong. The society’s task force is seeking means to enhance interactions with such organizations as WFNMB, EANM and IAEA to promote educational activities in developing countries.

Our PET Center of Excellence and Molecular Imaging and Radionuclide Therapy Trials (MIRT™) continue to do well and are accelerating their activities, placing SNM in a strategic position to enhance its role in promoting education to help with the accelerated approval of novel radiopharmaceuticals.

Our communication with the FDA and its understanding of our needs is better today than it has ever been. We must continue to work with NRC to increase communication and better understanding. Our Lifelong Learning Self-Assessment Program for maintenance of certification is unique. When fully completed and implemented, it will add to SNM’s strength in education and serve our physician members in critical times. Although I am pleased and proud of SNM’s achievements, accomplishments and long-term strategic goals, we must not forget that we live and work in a rapidly changing world in which we face unprecedented competition. Although SNM expects competition, to remain both up-to-date...
and competitive, we must remain focused and prepare for the unknown, both in opportunities and threats. We must be proactive and seek ways to grow because growth is a sign of success, helps attract more members, adds to the strength of our voices and leads to greater success.

While SNM is moving forward with new initiatives consistent with its strategic planning, it faces new challenges that were neither expected nor foreseen, and we are addressing them with determination and persistence. On February 7, President Bush proposed that the DOE’s 2006 budget for molecular/nuclear imaging research in the Medical Applications and Measurement Science Program be reduced from $37 million to $14 million and that such funding be eliminated in 2007. For the past 50 years, DOE has exclusively supported the basic research and the outstanding accomplishments that have placed our nation in its world leadership position in nuclear medicine.

This severe blow, which is the result of lack of knowledge of the noteworthy accomplishments of the DOE program and of the ideological dogma that such biomedical research is not a core mission of DOE, shook us all. However, SNM and its members faced the situation with courage and determination. We wrote nearly 3,000 letters and e-mails to our lawmakers, the chairs of appropriation committees and committee members. We visited dozens of senators and representatives, testified to advisory committees, explained the DOE program’s accomplishments to the members of OSTP and OMB, explained the clinical applications of nuclear medicine at a Senate caucus and brought our cause to the attention of the HHS and DOE secretaries. Directed by HHS Secretary Michael Leavitt, we had a cordial meeting with Dr. Elias Zerhouni, Director of NIH and his senior colleagues from NCI, NIDA, NIBIB, NIGMS, and the office of the NIH Director.

I am delighted to report to you that the full House Appropriations Committee has recommended that the DOE’s medical application funding of $35 million be included in the 2006 budget. I trust that this recommendation is a direct result in part, of your efforts in reaching your lawmakers and is a great testimony that in a democracy, your voice can be heard and your persistence can prevail.

Our task, however, is not yet over, as the Senate Energy and Water Development Subcommittee has yet to make the final ruling. We will continue to work hard at this vital issue, as this funding fosters basic research in Nuclear Medicine/Molecular Imaging that cannot currently be supported by any other funding agency.

SNM is a voluntary organization, and it is blessed with many bright stars—physicians, scientists and technologists. I believe that more champions, who are willing to invest time and energy to participate in many SNM activities, are needed. As president, I learned that governing SNM is similar to conducting a symphony. The beautiful music comes from the orchestra, not the conductor. I want to thank all those who participate in this great orchestra and continue to make selfless sacrifices of their time and efforts to make extensive contributions to the welfare of SNM, the organization to which we all belong and the one which we hope will continue to thrive.

Mathew L. Thakur, Ph.D.
President, SNM
As the world’s leading association in nuclear medicine, SNM is dedicated to providing knowledge that advances and promotes the use of nuclear medicine and molecular imaging for the diagnosis and treatment of disease. The society strives to improve the quality of health care by integrating nuclear medicine and molecular imaging everywhere application of our knowledge can be of value.

In the past year, the Society has focused much of its attention on advancing the three goals set forth in its strategic plan.

- **The value of nuclear medicine and molecular imaging in patient care will be universally recognized.**

- **Nuclear medicine and molecular imaging will achieve significant growth in science and utilization.**

- **Membership in SNM will be viewed as essential by all with an interest in the field of nuclear medicine and molecular imaging.**

While supporting the Society’s strategic goals, the SNM leadership and staff also have concentrated on addressing a number of “mega issues” in the past year, topics which required immediate attention because they will impact the Society and the practice of nuclear medicine in the near future. These mega issues include:

- **RECRUITING:** The need to recruit more physicians and scientists into nuclear medicine is critical both to practice and to continuing the research that keeps our specialty at the forefront of the molecular revolution. The work of the Young Professionals Committee has been crucial to the Society’s efforts in this regard.

- **MOLECULAR FOCUS:** SNM has undertaken steps needed to initiate and develop a SNM’s clinical trials group called Molecular Imaging and Radionuclide Therapy Trials (MIRT). This effort has been supported by a grant from the former Nuclear Medicine Industry Association–North America (NMIA–NA). The SNM Clinical Trials Group is finalizing the framework and infrastructure necessary to establish support for innovative trials of both diagnostic and therapeutic radiopharmaceuticals.

- **COLLABORATION AND OUTREACH:** Collaboration with other professional associations, combined with legislative and regulatory advocacy at the federal and state levels is essential to keeping the practice of nuclear medicine viable. SNM places high priority on developing and establishing partnerships with like-minded professional organizations. SNM worked with the American College of Radiology on joint PET/CT guidelines, on government relations and reimbursement activities, and on the development of a Nuclear Medicine Carrier Advisory Committee.

- **CONTINUING EDUCATION:** The demand for continuing education programs is expanding in response to the increasing pace of technological and scientific innovation. Full-time nuclear medicine physicians who are increasingly performing PET/CT look to the Society for education in fusion imaging. And PET/CT is just the first fusion modality—SPECT/CT, PET/MR, and a host of new therapies are all on the horizon. If the Society expects to be a leader in the molecular revolution, it will need to lead in education.

By reinforcing its core values, working to achieve its strategic goals and continuing to focus on arising mega issues, SNM will remain at the forefront of the profession and will maintain a powerful voice within the nuclear medicine community.
Specialty councils have existed for many years at SNM. Organized around a specific area of practice, councils were established to allow members to concentrate on issues that affect their specialty within the framework of the larger society. These specialty groups are an ideal framework for developing and offering educational programs, networking events, mentoring activities, paths for information dissemination, and other valuable specialty-specific activities.

SNM and its eight councils—Academic, Brain Imaging, Cardiovascular, Computer and Instrumentation, Correlative Imaging, Nuclear Oncology and Diagnostic Therapy, Pediatrics, and Radiopharmaceutical Sciences—have focused on restructuring and rejuvenating the councils to make them an increasingly valuable resource for members. In the last year, each council created new goals, bylaws, and standard operating procedures. These have been approved by the council memberships. In creating these goals and organizing the necessary structure and funding to support them, the councils and their leaders have achieved what we hope will result in a significant enhancement to the benefits of belonging to SNM.

This process of goal setting and improving the benefits of council membership is a continuous one for the Society. In the past year, councils have:

- planned and expanded educational offerings in their specialties with new conference sessions, categorical sessions, continuing medical education courses, workshops, and/or symposia;
- communicated information of value (research developments, professional news, case studies, regulatory information, SNM information) to their members via printed newsletters, e-letters, and other publications as well as through web sites and communities;
- focused on strategic planning for their specialty areas, including discussing the future of the profession and planning for that future;
- increased interaction with related organizations for information sharing and networking;
- focused on educating regulators about their specialty areas and supporting the Society’s positions on quality assurance, streamlined regulatory processes and reimbursement; and
- offered unique opportunities for networking.

Several councils have planned surveys to help assess how to better serve their members. Other councils have planned specific activities to reach out to and plan programs for technologists in their specialty areas.
Molecular Imaging and Radionuclide Therapy Trials (MIRT²)

The Society of Nuclear Medicine has undertaken the initial steps needed to initiate and develop a multi-center clinical trials group called Molecular Imaging and Radionuclide Therapy Trials (MIRT²). This exciting initiative will create the ability for the society to contribute to current and future nuclear medicine clinical practice in a positive and unbiased way. This effort has been supported by a grant from the former Nuclear Medicine Industry Association–North America (NMIA–NA). “This important initiative can help the continued success of nuclear medicine in clinical practice, in drug development, and in the emerging molecular imaging field,” said Alexander J. McEwan, MD, chair of MIRT².

MIRT² members are finalizing the framework and infrastructure necessary to establish support for innovative trials of both diagnostic and therapeutic radiopharmaceuticals. Over time, these small trials are expected to encompass all the interests and possible applications of molecular imaging and diagnostic and therapeutic nuclear medicine. For example, clinical trials may be run to evaluate the effectiveness of new therapeutic radiopharmaceuticals or of using PET imaging as a surrogate marker for clinical outcomes when evaluating new therapeutic interventions.

The group’s members have discussed and identified four promising clinical protocols—two therapeutic and two diagnostic—for future development. It is hoped that at least one of these protocols will be completed and ready for discussion at SNM’s 52nd Annual Meeting in Toronto. According to McEwan, the first patients could be enrolled in trials by the end of the year.

The infrastructure that has been developed to support MIRT² includes a steering committee, with involvement by all councils and centers; standard operating procedures; and processes for protocol evaluation and review. Ethics and conflict of interest guidelines are being established, and a qualifying questionnaire has been developed to assist in identifying investigators and clinical sites to participate in MIRT² trials. This questionnaire has been sent to 11 major oncology sites in the United States and Canada that have been identified as possible participants in the initial trials. MIRT² is examining a potential partnership with an established commercial imaging laboratory that is capable of managing the medical images obtained as part of MIRT² protocols.
The Society of Nuclear Medicine continues to be committed to providing quality educational opportunities for nuclear medicine professionals. During 2004-2005, the society has continued its efforts to advance the profession by offering workshops, meetings, and online activities that provide continuing education credits.

**Meetings and Workshops:**

**2005 Mid-Winter Educational Symposium**  
*January 29-30, 2005 – Tampa, Florida*

This dynamic two-day symposium was designed for nuclear medicine physicians, radiologists, cardiologists, neurologists, oncologists, scientists, pharmacists, technologists and industry leaders who are involved and interested in the current and emerging technical and clinical applications of nuclear medicine and molecular imaging. Topics included: radiographic pathology, cross-sectional anatomy, CT protocols and techniques, PET/CT instrumentation, cardiac PET/CT, PET and SPECT brain imaging, therapeutic isotopes, promising new PET agents, pediatric PET/CT and how technologists practice in 2005.

**52nd Annual Meeting**  
*June 18-22, 2005 – Toronto, Canada*

This five-day educational program offers nuclear medicine physicians, scientists, physicists, pharmacists and technologists the opportunity to discover the latest advancements in nuclear medicine and molecular imaging. Dynamic learning opportunities include: 93 Continuing Education Sessions, 88 Scientific Papers Sessions, 5 Technologist and 3 Technologist Student Oral Sessions, more than 900 Scientific Posters, Commercial Exhibits, 4 Plenary Sessions, and 10 Categorical Seminars. The Society is also introducing several new educational formats including: Basic Science Summary Sessions, Educational Exhibits Posters, a Young Professionals Poster Abstract Track, Invited Teaching Posters, “Case of the Day” Posters and a “Daybreak” CE Session.
SNM LEARNING CENTER

Since 2002, the PET Learning Center has offered workshops to professionals interested in PET. During 2004, symposia were added to the courses available, including Neurology PET, Cardiac PET, and Physics and Instrumentation. However, toward the end of 2004, the attendance at the PET Learning Center workshops began to decrease as new technologies emerged. SNM decided to change the focus of the Learning Center to meet the new demands of nuclear medicine professionals. Beginning in January 2005, the SNM Learning Center was launched with all-new content for both physician and technologist workshops. In addition, more symposia have been added to the Learning Center calendar, and workshops and symposia will be available in new locations, including Boston, Houston, Philadelphia, Indianapolis, Atlanta and Las Vegas.

The SNM Learning Center will offer the following workshops/symposia for physicians and scientists: PET/CT and Advanced PET/CT, Advances in PET/CT Physics and Instrumentation, CT for the Nuclear Medicine Professional, Cardiac PET and SPECT, Neurological PET/CT, and the new Confidence in Imaging Series.

The Technologist Section of the SNM Learning Center will offer the following topics: CT Physics, Instrumentation, Contrast, and Protocols; Cross-sectional Anatomy; Radiation Oncology; Neurology; Cardiology; Radiopharmacy; and Management – data management and site planning.

CT for the Nuclear Medicine Professional

The first CT workshop, held in November 2004, was a huge success. Over 120 attendees participated in the intense, two-day course. On April 29-May 1, the second CT for the Nuclear Medicine Professional Symposium was held. This workshop was also very successful. The two-day course was spread out over three days to allow more time for discussion and networking among the participants. Two more symposia have been scheduled for this fiscal year, one in August and one in the early fall of 2005.

Confidence in Imaging Series

Cardinal Health has provided an unrestricted educational grant for this series that will target referring physicians. The first of four regional workshops will take place on September 24th in St. Louis. The other workshops will also occur in the fall of 2005 in Los Angeles, Philadelphia and Boston. The content for all workshops will be the same, focusing on the use of PET in breast cancer, lung cancer and lymphoma. At each regional workshop, three nuclear medicine experts will present their assigned topics together with their referring physicians. The audience will have the perspective of both sides in the benefits and uses of PET for patients with these cancers.

In addition, Cardinal Health has provided $2,000 to initiate evening programs for those centers that wish to have evening courses covering a nuclear medicine topic but do not have ready access to expert speakers. SNM will match speakers to the evening courses requested.

Modern Imaging Technology: Recent Advances

In 2004, this two-day conference was designed to bring scientists working in nuclear medicine, as well as nuclear medicine practitioners, together to discuss the advances in four selected areas of imaging: movement disorder, Alzheimer’s disease, proteomics and nuclear imaging, and imaging of the heart and lung. The 2004 workshop focused on the most recent advances of modern molecular imaging.

The 2005 workshop will be completely new. Translational Applications of Molecular Imaging and Radionuclide Therapy will be held on June 17-18, 2005. Topics will include in vivo tagging and imaging assays, technical aspects of small animal imaging, in vivo imaging, and bench to bedside translational studies: the role of diagnostic scans on therapy selection.

The Mid-Winter physician attendance decreased by 13% and technologist attendance increased by 37%. The Annual Meeting physician attendance increased by 1%, and technologist attendance increased by 19%. Pharmacists and physicists’ attendance remained unchanged for both meetings.
SNM 2005 Nuclear Medicine Board Review
*June 18-19, 2005 – Toronto, Canada*

This two-day educational program is designed to assist residents and physicians to maintain competency in nuclear medicine protocols and prepare for certification boards. Experienced physicians will use the information to assist with maintenance of certification. A new lymphoscintigraphy and DEXA lecture was added to the 2005 Board Review course. Additional topics included: cardiac, thyroid, gastrointestinal system and abdominal, central nervous system, pediatrics, pulmonary, immunotherapy, NRC regulations, FDG PET, PET/CT, genitourinary system, tumor and abscess, and bone scintigraphy. The Board Review CD-ROM captured the content in a streaming audio format for those unable to attend in person, which makes it useful to Nuclear Medicine and Radiology Program Directors as a supplemental teaching tool.

SNM 2004 Nuclear Medicine Board Review
*June 19-20, 2004 - Philadelphia, PA*

This CD is still available to help residents and physicians prepare for certification Boards. New topics introduced to the course in 2004 include Review of Nonimaging Studies, Pediatrics Review, PET/CT Review, and Immunotherapy Review. This course is also offered on CD-ROM, which makes it useful to Nuclear Medicine and Radiology Program Directors as a supplemental teaching tool.

CDs and Internet-Based Activities

**52nd Annual Meeting Highlights CD-ROM**

This educational activity provided at no cost to all SNM members gives nuclear medicine professionals the opportunity to see several selected sessions on cutting-edge nuclear medicine that were presented at the 52nd Annual Meeting in Toronto, Canada. In addition to the selected CE sessions, three plenary sessions and Henry Wagner’s Highlights session, the 52nd Annual Meeting CD will include two scientific summary sessions. The CD allows participants to view presentations anytime, enjoy synchronized audio with slides, and earn continuing education credit.

**51st Annual Meeting Highlights CD-ROM**

This educational activity gives nuclear medicine professionals the opportunity to see 15 selected sessions on cutting-edge nuclear medicine that were presented at the 51st Annual Meeting in Philadelphia, PA. The CD allows participants to view presentations anytime, enjoy synchronized audio with slides, and earn continuing education credit.

**Basic Science in Nuclear Medicine CD-ROM Set**

This interactive training module covers the basic science associated with the field of nuclear medicine, including radiation science, radiation detection and instrumentation, the operation of the gamma camera, emission tomography, radiochemistry and radiopharmacy, radiation biology and radiation safety. Participants will not only become familiar with this basic knowledge but will also be brought up-to-date on many new and developing aspects of the field of nuclear medicine. This activity is available as a two CD-ROM set through the Society’s web site.

**Myocardial Perfusion Imaging CD-ROM**

This module, available on CD-ROM through the SNM web site, is a self-assessment program for physicians. It includes patient histories and nuclear medicine images. Program participants review clinical information, interpret images and submit written reports of their findings. Up to 30 case reports can be completed for up to a maximum of 30 hours of CME credit.
The overall participation in CME programs by physicians increased 100.2% over 2003. Technologist participants in CE programs increased 52.3%. Pharmacist participants had an increase of 800%.

**JNM/JNMT Online CE Exams - www.snm.org/ceonline**

This online educational activity offers continuing education for the most comprehensive research in nuclear medicine. Professionals interested in nuclear medicine can save time and earn credit by logging on to SNM’s web site and taking the CE exams offered through JNM or JNMT. Participants can submit their answers electronically. Continuing education articles are available monthly in the JNM and quarterly in the JNMT.

**Online Teaching Files**

The Online Teaching Files continue to be very successful. The site continues to average over 1400 hits a day. Education is receiving more contributions of cases for this program from SNM members. This educational activity will continue to be available free of charge on the SNM web site.

**Lifelong Learning and Self-Assessment Program**

The Society of Nuclear Medicine is developing the Lifelong Learning and Self-Assessment Program (LLSAP) to fulfill Part 2 of the Maintenance of Certification requirements under the leadership of Alan H. Maurer, MD, SNM Chair of the Committee on Education; Dominique Delbeke, MD, PhD, Chair of SNM’s LLSAP; and Lynn Barnes, MEd, SNM’s Director of Education. The LLSAP is an essential nuclear medicine self-assessment program that allows nuclear medicine health care professionals to assess their medical knowledge and competency in patient care, practice-based learning and improvement, and systems-based practice. The program will ensure participants improve the quality of health care by integrating nuclear medicine and molecular imaging in everyday applications.

The SNM’s program will begin in the fall of 2005 with the first of 13 planned online modules. All modules will offer CE credit for physicians, pharmacists, scientists and technologists. Topics covered in the modules will include: Oncology PET and PET/CT, Oncology CT, General Oncology and Therapy, CV SPECT and PET, CV CT Angiography, Basic Science and Radiopharmacy, Neurology PET and PET/CT, Pulmonary Disorders, Endocrinology Disorders, Musculoskeletal Disorders, Genitourinary Disorders, Pediatrics, Gastroenterology Disorders, and Hematopoietic, Reticulo-en-dothelial, In vitro, and Other Body Compositions, Infections, and Lymphatics.

Each module consists of a syllabus, which focuses on the latest information and developments (last ~ 3 years); 25-50 multiple-choice, board-type questions with critiques explaining the correct answer and why distracters are incorrect; and 10-20 interactive case studies with full functional display program, including clinical background, images, and multiple-choice questions with critiques.

**PET/CT and CT Interactive Cases**

In addition to the web-based modules, SNM will be adding 150 PET/CT and 500 diagnostic CT cases. These cases will be available in sets of 50. Each set will offer CE credits. The first sets will be available in the fall of 2005. These interactive cases will include:
- Virtual workstation appearance and capabilities
- Full functional display program with control of PET/CT fusion, zoom, pan, and stack module; full display defaults and choices for window, level and polarity, including axial, coronal, sagittal, and 3D animated rotation; and clinical background, images and information.

**Continuing Education**

In 2004 SNM directly sponsored 19 courses, including the Annual Meeting, Mid-Winter Meeting, Learning Center Workshops, and other live meetings. In addition, the SNM jointly sponsored 14 courses during the year. The SNM Learning Center offered 15 workshops and 4 symposia.

Six unique enduring materials activities were directly sponsored by SNM during 2004, including Journal CME and CE and CD-ROM educational programs.
Publications

Journals

- Journal of Nuclear Medicine (JNM)
- Journal of Nuclear Medicine Technology (JNMT)

JNM Supplements

- A Tabulated Summary of the FDG PET Literature
- PET/CT: Imaging Function and Structure
- Clinical Practice of Molecular Radiotherapy

Books

- A Clinician’s Guide to Nuclear Medicine
- Computers in Nuclear Medicine: A Practical Approach, 2nd edition
- Curriculum Guide for Educational Programs in Nuclear Medicine Technology, 3rd edition
- Developing Employee Assessments and Competencies
- Diagnostic Patterns in Nuclear Medicine
- MIRD Cellular S. Values
- MIRD Head and Brain Dosimetry
- MIRD Primer for Absorbed Dose Calculations
- Guide for Diagnostic Nuclear Medicine and Radiopharmaceutical Therapy
- Nuclear Cardiac Imaging: Terminology and Technical Aspects
- Nuclear Medicine Science Syllabus (3rd edition)
- Outcomes and Technology Assessment in Nuclear Medicine
- Practical Mathematics in Nuclear Medicine Technology Procedure Guidelines Manual
- Review of Nuclear Medicine Technology with Preparation for Certification Examinations
- Self-Study Program 2: Instrumentation
- Self-Study Program 3: Cardiology (6 topics in 5 separate books)
- Self-Study Program 4: Oncology (8 topics now compiled into one book, with CE available)
PET Center of Excellence

Established in June 2003, SNM’s PET Center of Excellence is an organizational component within the Society dedicated to all aspects of the development and utilization of PET and PET/CT in the detection and management of disease. Two primary focuses of the Center are educational programs and practical issues directly related to PET and PET/CT, including clinical practice and procedure guidelines, as well as reimbursement.

The SNM PET Center of Excellence currently has over 1,800 members. Objectives and benefits to members joining the Center are listed below:

**Educational Programs in PET and PET/CT**
The Center is responsible for all Society of Nuclear Medicine-sponsored continuing education in PET and PET/CT. Educational programs are designed to attract radiologists, oncologists, other physicians, and technologists interested in nuclear medicine and PET.

**PET References Online**
Each week the PET Center of Excellence web site posts a list of all PET research papers published during the previous week, identified by specialty. Members may download the entire list or view selected abstracts identified as particularly relevant for certain specialties. In either case, interested readers can access the abstracts on PubMed. Full text versions may be available through the PubMed link.

**Newsletter**
The PET Center of Excellence publishes electronic newsletters quarterly.

**Views You Can Use**
The PET Center of Excellence web site features regular Views You Can Use, single-sheet PDFs that include specific cases, images and references to supporting documentation. As a member, you can add your own contact information to these sheets and distribute them electronically or by printed hardcopy to referring physicians for educational purposes.

**PET News**
News Items and Hot Topics are listed on the PET Center’s web site and are updated weekly.
Molecular Imaging Center of Excellence

Officially launching in June 2005, the Molecular Imaging Center of Excellence is an organizational component within SNM dedicated to all aspects of molecular imaging in the detection and management of disease. The primary focal areas of the Center are educational programs, professional and intersociety networking, and serving as a resource for development and implementation of SNM policy in this specialized area.

The Center is responsible for development of all society-sponsored continuing education programs in molecular imaging. Educational programs will be designed to attract radiologists and nuclear medicine physicians, oncologists, cardiologists, basic scientists and other physician specialists, trainees such as residents, fellows and graduate students, and technologists interested in molecular imaging.

Other goals of the Molecular Imaging Center of Excellence include:
- Fostering research and seek research funding for molecular imaging
- Disseminating educational materials and other information to the imaging community
- Addressing regulatory issues surrounding the use of radiopharmaceuticals and related agents in clinical imaging procedures
- Organizing SNM-sponsored symposia and workshops, including conjoint events with other professional organizations
- Developing core curriculum for, and conduct Learning Center courses in, molecular imaging
- Providing a platform for exchange of knowledge, including a web-based information center

Beyond the Center’s focus on providing cutting edge educational programs, it also will focus on significant issues important to the translation of new developments in molecular imaging to clinical practice. The Center will work closely with the Clinical Trials Committee regarding the development of protocols for translational research. Additionally, the Center will provide input to the SNM/ACNP Government Relations Committee on activities related to molecular imaging. The Center also will work with industry to identify opportunities for cooperative programs in education and research in the field of molecular imaging.
In FY 2004, the Society of Nuclear Medicine awarded 58 scholarships, fellowships, research grants and awards to deserving applicants: two pilot research grants, five student fellowships, twenty Paul Cole scholarships, one Mark Tetalman award, twenty-nine Alavi-Mandell awards and one technologist research grant. The Education and Research Foundation provided funding for all the awards except the technologist research grant, which was funded by the SNMTS Professional Development and Education Fund.

**Pilot Research Grant**
The Pilot Research Grants support testing of innovative ideas in clinical/basic research while grantees seek major grant support. The grants fund essential materials outside the areas of salaries, major equipment purchases, and overhead or travel. Two grants were awarded in 2004 for $8,000 each.

**2004 Pilot Research Grant Recipients**
Dr. Edwards-Lee, Assistant Professor of Neurology UCLA, Harbor-UCLA Research and Education Institute, was awarded a grant for her proposal entitled, “Imaging Muscarinic Receptors in Alzheimer’s Disease: Prediction of Therapy Response and Identification of Post Therapy Changes.”

Dr. Liu, Assistant Professor of Physics, Richard Stockton College of New Jersey received a grant for her proposal entitled, “Surgical Proof-of-Principle of Prototype 64-Pixel Positron-Sensitive Imaging Device.”

**Student Fellowship**
The Student Fellowships support students’ full-time participation in clinical and basic research activities in Nuclear Medicine. Five fellowships were awarded in 2004 for $3,000 each. The top two candidates were designated Bradley-Alavi Fellows, named by the donors—Drs. Jane and Abass Alavi—in honor of Dr. Stanley E. Bradley, a professor of Medicine at Columbia University College of Physicians and Surgeons until 1978 and a prominent researcher in the fields of renal physiology and liver disease.
2004 Student Fellowship Recipients
Bradley-Alavi Fellow
Megumi Ito carried out her research at the University of Texas M.D. Anderson Cancer Center, Houston, Texas, under her advisor, David J. Yang, Ph.D., Department of Experimental Diagnostic Imaging. Her proposal was entitled, “Imaging Apoptosis Using 99mTc-Labeled Annexin V.”

Bradley-Alavi Fellow
Trevor Peterson carried out his research at the University of California Davis Medical Center, Sacramento, California under his advisor, Sally J. DeNardo, M.D., Professor of Radiology and Internal Medicine. His proposal was entitled, “Development of Modular Tumor Targeting Molecules: Motifs for Both Pretargeted Therapy and PET Imaging.”

April Eryou carried out her research at the Laboratory of Molecular Imaging and Targeted Radiotherapeutics under her advisor, Raymond M. Reilly, Ph.D., Leslie Dan Faculty of Pharmacy, University of Toronto, Toronto, Canada. Her proposal was entitled, “Development of Indium-111-Labeled Immunoconjugates of Trastuzumab (Herceptin®) for Targeted Auger Electron Radiotherapy of HER-2/neu Positive Breast Cancer.”

Matthew Loe carried out his research at the Mayo Clinic, Rochester, Minnesota under his advisor, Douglas A. Collins, M.D., Department of Radiology. His proposal was entitled, “Biokinetics of DTPA-Adenosylcobalamin, F18-Deoxyglucose, and F18-Thymidine in Multiple Transplanted Human Tumors.”

Kaylund Chan carried out his research at the Molecular Cancer Institute, University of California, Davis Medical Center under his advisor, Gerald L. DeNardo, M.D., Division of Radiodiagnosis & Therapy. His proposal was entitled, “Studies of Molecular Biologic Mechanisms Underlying Lymphoma Radioimmunotherapy (90Y-ZevalinTM and 90Y-LYM-1) and Immunotherapy (Rituxan and LYM-1) as a Basis for Enhancing Radioimmunotherapy.”

2004 Associate Program Recipients
Donna M. Clapp
Nuclear Medicine Technology Program
Springfield Technical Community College

Alexandra Govea
Nuclear Medicine Technology Program
West Virginia State College

Dawn M. Hill
Nuclear Medicine Institute
University of Findlay

Karen M. Johnson
Nuclear Medicine Technology Program
Gateway Community College

Lawrence D. Kuch
Nuclear Medicine Technology Program
Lancaster General College of Nursing and Health Sciences

Bachelors Program Recipients
Sara Ahmed
School of Nuclear Medicine Technology Program
Northwestern Memorial Hospital

Blaine J. Beining
Nuclear Medicine Technology Institute
University of Findlay

Ashley L. Bucher
Nuclear Medicine Technology Institute
University of Findlay

Peter Granovetter
Nuclear Medicine Technology Program
UMDNJ- School of Health Related Professions

Jacqueline A. Gray
Nuclear Medicine Technology Program
University of Nebraska Medical Center

Paul Cole Scholarships
The Paul Cole Scholarships provide support for nuclear medicine technology students. Twenty $1,000 scholarships were awarded in 2004. The scholarships honor the memory of a champion of student education, Paul Cole, who died in 1986 when he was serving as President of the SNM Technologist Section.
Mark Tetalman Memorial Award
Established by the family and friends of Dr. Tetalman, this $2,500 award honors the work of a young investigator who is pursuing a career in nuclear medicine. It is named in memory of a highly respected and productive clinician and researcher, Mark Tetalman, MD, whose career was cut tragically short.

Habib Zaidi, PhD
Head of PET Instrumentation and Neuroscience Laboratory
Division of Nuclear Medicine, Geneva University Hospital

Alavi-Mandell Awards
This year, 29 senior authors of articles published in the 2002 and 2003 editions of *The Journal of Nuclear Medicine* received Alavi-Mandell awards. These awards recognize the work of authors who were nuclear medicine resident trainees or PhD scientist trainees at the time of publication.

Gerald Antoch, MD
University Hospital Essen
Essen, Germany
Focal Tracer Uptake: A Potential Artifact in Contrast-Enhanced Dual-Modality PET/CT Scans

Adey Ayalew, PhD
Laboratoire de Chirurgie Experimentale
Nancy, France
201Thallium and 99mTc-MIBI Retention in an Isolated Heart Model of Low Flow Ischemia and Stunning: Evidence of Negligible Impacts of Myocyte Metabolism on the Tracers Kinetics

Viviane Boulilleret, MD, PhD
The French Atomic Energy Commision
Orsay, France
Correlation Between PET and Siscom in Temporal Lobe Epilepsy

Andreas K. Buck, MD (Resident)
University of Ulm
Ulm, Germany
Imaging Proliferation in Lung Tumors with PET - [18F]FLT vs. [18F]FDG
Matthias Bruehlmeier, MD ( Resident)  
Cantonal Hospital Aarau  
Aarau, Switzerland  
Measurement of the Extracellular Space in Brain Tumors Using [76Br]bromide and PET

Nicolas Boussion, PhD  
Hospital Notre-Dame  
Montreal, Canada  
Automated Detection of Local Normalization Areas for Ictal-interictal Subtraction Brain SPECT Imaging

Doumit Daou, MD (Fellow)  
Lariboisiere Hospital, AP-HP  
Paris, France  
Performance of Ordered-Subsets Expectation Maximization and Depth-Dependent Resolution Recovery Algorithms for the Evaluation of Global Left Ventricular Function in 201T1 Gated Myocardial Perfusion SPECT

Roberto C. Delgado-Bolton, MD (Resident)  
Hospital Clinico San Carlos  
Madrid, Spain  
Meta-Analysis of the Performance of 18F-FDG PET in Primary Tumor Detection in Unknown Primary Tumors

Robert Dorn, MD (Resident)  
Nuklearmedizin, Klinikum Augsburg  
Augsburg, Germany  
Dosimetry-Guided Radioactive Iodine Treatment in Patients with Metastatic Differentiated Thyroid Cancer: Largest Safe Dose Using a Risk Adapted Approach

Stephanie Essman, DVM (Resident)  
College of Veterinary Medicine  
University of Missouri-Columbia  
Columbia, Missouri  
Effects of 153-Samarium-EDTMP on Physeal and Articular Cartilage in Juvenile Rabbits

Vincent Frouin, MD  
The French Atomic Energy Commision  
Orsay, France  
Correction of Partial-Volume Effect for PET Striatal Imaging: Fast Implementation and Study of Robustness

Bernard Gerber, MD  
Universite Catholique de Louvain  
Brussels, Belgium  
Myocardial Blood Flow, Metabolism and Intropic Reserve in Dogs with Dysfunctional Non-infarcted Collateral-Dependent Myocardium

Steffen Hoft, MD  
Christian-Alberechts-University of Kiel  
Kiel, Germany  
Fine Needle Aspiration Cytology of the Sentinel Lymph Node in Head and Neck Cancer

Roland Hustinx, MD, PhD (Research Fellow)  
University of Liege  
Liege, Belgium  
Whole-body Tumor Imaging Using PET and 2-[18F]fluoro-L-tyrosine: Preliminary Evaluation and Comparison with FDG

Masaya Kawano, MD (Student)  
Kanazawa University  
Kanazawa, Japan  
Predicting the Outcome of Distraction Osteogenesis by Three-Phase Bone Scintigraphy

Sam Kim, MD  
LAC + University of Southern California  
Los Angeles, California  
Natural History and Distribution of Bone and Bone Marrow Infarctions in Children with Sickle Hemoglobinopathies

Adam Kirton, MD, MSc  
Alberta Children’s Hospital  
Calgary, Canada  
Evaluation of Pediatric CNS Malignancies With 99mTc-MIBI SPECT
Takashi Kurizaki, MD, PhD
University of Nebraska Medical Center
Omaha, NE
Potentiation of Radiimmunetherapy with Response-Selective Peptide Agonist of Human C5a

Alexander Matthies, MD
University Hospital Bonn
Bonn, Germany
Dual Time Point FDG-PET Scanning for the Evaluation of Pulmonary Nodules

Lori McDonald, MD
Memorial University of Newfoundland
St. John’s, Canada
Deposition of Cigar Smoke Particles in the Lung: Evaluation with Ventilation Scan using Technetium-99m-Labeled Sulfur Colloid Particles

Ernst J. Postema, MD (Resident)
University Medical Center Nijmegen
Nijmegen, The Netherlands
Dosimetric Analysis of Radioimmunetherapy with 186 Re-labeled Bivatuzumab in Head and Neck Cancer Patients

Jean-Christophe Richard, MD
Lyon, France
Comparison of Positron Emission Tomography with Radioactive Microspheres to Assist Pulmonary Blood Flow

Sharlini Sankaran, MS
University of North Carolina School of Medicine
Chapel Hill, NC
Optimum Compensation Method Combination and Filter Cutoff Choice in Myocardial SPECT: A Human Observer Study

Wolfgang M. Schaefer, MD, PhD (Resident)
University of Aachen
Aachen, Germany
Comparison of Microsphere-equivalent Blood Flow (15O-water PET) and Relative Perfusion (99mTc-Tetrofosmin SPECT) in myocardium Showing Metabolism-Perfusion Mismatch

Lalitha Shanker, MD, PhD
National Cancer Institute
Bethesda, Maryland
Comparison of I-123 Scintigraphy at 5 and 24 Hours in Patients with Differentiated Thyroid Cancer

Sakari Simula, MD
Kuopio University Hospital
Kuopio, Finland
Cardiac Adrenergic Innervation is Affected in Asymptomatic Subjects with Very Early Stage of Coronary Artery Disease

Katarina Sjogreen, PhD
Lund University Hospital
Lund, Sweden
An Activity Quantification Method Based on Registration of CT and Whole Body Scintillation-Camera Images, with Application to 131-I

Tuula Tovanen, MSc
University of Turku
Turku, Finland
Fluorine-18-Fluoroerythronitroimidazole Radiation Dosimetry in Cancer Studies

Koenrad Van Laere, MD, PhD, Dr.Sc
Leuven University Hospital
Leuven, Belgium
Analysis of Clinical Brain SPECT Data Based on Anatomical Standardization and Reference to Normal Data: A ROC-Based comparison of Visual, Semiquantitative and Voxel-based Methods

PDEF Research Technologist Award on Radiation Safety and Best Practices
Robert Schleipman, RT, CNMT, MA,
Brigham and Women’s Hospital
Boston, Massachusetts
Reduction of Occupational Radiation Exposure Via “Best Practices” PET Training Program.
The Society’s grants and awards program is funded by both the Education and Research Foundation for the Society of Nuclear Medicine (ERF) and the SNM Technologist Section Professional Development and Education Fund (PDEF).

The SNM leadership works closely with the Education and Research Foundation to increase funding for existing programs and to obtain support for new scholarships, research grants, fellowships and awards. The SNMTS leadership works closely with industry to support scholarships, research and other programs through its Corporate Friends of the SNMTS Professional Development and Education Fund.
Membership

The Society of Nuclear Medicine has several unique membership categories, including Full, Associate, Technologist, Affiliate and Emeritus members. The Society has a total of 14,915 members.

- Full Members: 4,986
- Affiliate Members: 130
- Associate Members: 311
- Emeritus Members: 1,101
- Technologist Members: 8,387

Chapters of the Society are organized by geographic region. There are 15 chapters within the United States and Canada. The Society also has a number of international members.

- Central Chapter: 2,146
- Eastern Great Lakes Chapter: 436
- Greater New York Chapter: 2,079
- Mid-Eastern Chapter: 920
- Missouri Valley Chapter: 833
- New England Chapter: 1,074
- Northern California Chapter: 486
- Pacific Northwest Chapter: 630
- Pacific Southwest Chapter: 453
- Pacific Southwest Technologist Chapter: 681
- Pittsburgh Chapter: 230
- Prairie Province Chapter: 48
- Southeastern Chapter: 2,086
- Southwestern Chapter: 1,263
- International Members: 1,550

The Society also has eight councils and two Centers of Excellence. Councils and Centers provide the expertise, professional networking and educational programs for nuclear medicine professionals in respective areas and serve as a resource for development and implementation of SNM policy.
The Society of Nuclear Medicine, Inc.
Statement of Financial Position
Year Ended September 30, 2004

**Assets**
Current Assets
- Cash and Cash Equivalents $1,109,504
- Accounts Receivable, net $230,279
- Inventory, net $72,282
- Prepaid Expenses $76,646
- Total Current Assets $1,488,711
- Deposits $35,436
- Investments $3,092,025
- Property and Equipment, net $2,421,657

**Total Assets** $7,037,829

**Liabilities and Net Assets**

**Current Liabilities**
- Accounts Payable and Accrued Expenses $500,288
- Deferred Revenue $469,437
- Current Portion of Long-Term Debt $53,961
- Due to Affiliates $35,042
- Total Current Liabilities $1,058,728

**Net Assets**
- Unrestricted - Undesignated $2,666,679
- Unrestricted - Designated $3,169,816
- Temporarily Restricted $142,606
- Temporarily Restricted $5,979,101

**Total Liabilities and Net Assets** $7,037,829
## Statement of Financial Position and Activities

The Society of Nuclear Medicine, Inc.
Statement of Activities
Year Ended September 30, 2004

### Revenue and Support:

<table>
<thead>
<tr>
<th>Revenue Source</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Meetings</td>
<td>$3,537,980</td>
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<tr>
<td>Communications</td>
<td>$2,597,857</td>
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<td>Membership</td>
<td>$1,901,499</td>
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<tr>
<td>Professional</td>
<td>$845,408</td>
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<td>Investment Income</td>
<td>$239,687</td>
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<td>Grants</td>
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<td>Councils and Centers</td>
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<td>Government Relations</td>
<td>$25,000</td>
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<tr>
<td>Leadership</td>
<td>$23,203</td>
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<tr>
<td>Other</td>
<td>$122</td>
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<tr>
<td><strong>Total Revenue and Support</strong></td>
<td><strong>$9,279,983</strong></td>
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### Expenses:

#### Program Services:

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<tr>
<th>Service</th>
<th>Amount</th>
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<tbody>
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<td>Communications</td>
<td>$2,439,402</td>
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<tr>
<td>Meetings</td>
<td>$1,701,183</td>
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<tr>
<td>Professional</td>
<td>$1,540,356</td>
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<tr>
<td>Leadership</td>
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<tr>
<td>Government Relations</td>
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<td>Councils and Centers</td>
<td>$67,801</td>
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<td>Grants and Awards</td>
<td>$57,431</td>
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<tr>
<td>Restricted Activities</td>
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#### Support Services:

<table>
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<th>Service</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Administrative</td>
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<tr>
<td>Finance</td>
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<tr>
<td>Information Services</td>
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<tr>
<td>Membership</td>
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<tr>
<td>Development</td>
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<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>$8,991,212</strong></td>
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</table>

### Change in Net Assets

<table>
<thead>
<tr>
<th>Amount</th>
</tr>
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<tbody>
<tr>
<td>$288,771</td>
</tr>
</tbody>
</table>

| Net Assets - Beginning | $5,690,330 |
| Net Assets - Ending   | $5,979,101 |
Officer, Directors, and Executive Staff

Mathew L. Thakur, PhD
President
Thomas Jefferson University
Philadelphia, PA

Dominique Delbeke, MD, PhD
Director-At-Large
Vanderbilt University Medical Center
Nashville, TN

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Director-At-Large
Cross Cancer Institute
Edmonton, Canada

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University of TX SW Medical Center
Dallas, TX

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Vice Speaker of the House of Representatives
Loyola University Medical Center
Maywood, IL

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Houston, TX

Terence Beven, MD
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Regional Medical Center
Baton Rouge, LA

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Los Angeles, CA

Nanci A. Burchell, CNMT, FSNMTS
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Children’s Mercy Hospital
Kansas City, MO

Frances K. Keech, MBA, RT(N), FSNMTS
Director-At-Large
MA College of Pharmacy & Health Sciences
Boston, MA

Henry D. Royal, MD
Immediate Past President
Mallinckrodt Institute of Radiology
St. Louis, MO

Robert F. Carretta, MD
Speaker of the House of Delegates
Mallinckrodt, Inc.
St. Louis, MO

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National Institute of Biomedical Imaging & Bioengineering
Bethesda, MD

George Zubal, PhD
Director-At-Large
Yale University Diagnostic Radiology
New Haven, CT

Valerie R. Cronin, CNMT, FSNMTS
President-Elect of the Technologist Section
Mercy Hospital
Buffalo, NY

Steven M. Larson, MD
Ex-Officio Member
Memorial Sloan-Kettering Cancer Center
New York, NY

Virginia Pappas, CAE
Ex-Officio Member
Society of Nuclear Medicine
Reston, VA