Imaging Expansion Projection…
Expansion Projection – Greg Borkowski, MD, (GL-1 ’72, IM ’74, DR ’79), Chairman of the Imaging Institute, in collaboration with Anshen and Allen, a San Francisco based architectural firm specializing in the design of medical facilities, has begun a Master Plan consisting of five phases of expansion and renovation of the Imaging Institute. Phase 1A of the Expansion Project is almost complete and includes an interventional MRI suite plus the appropriate induction and recovery space. Phase 1B will consolidate MRI services now housed in the L, G, and A buildings into the lower level of the Glickman building. This will minimize patient transportation risks and optimize productivity of allied health resources. The programmatic consolidation includes 7 MRI vaults, 5 integrated patient preparation and recovery bays, and 2 induction suites that share resources with the IMRIS Intra-operative MRI suites.

Phase 1B also will provide space for the new entrance, patient waiting area, and outpatient clinical exam and consultation rooms for the Imaging Institute. This next phase will start in the beginning of 2010 and is expected to be completed by the fall of 2010.

Phase 2 consists of converting the old Nuclear Medicine space into a CT section. Funding support for Phase 2 will be submitted in 2010.

Imaging Services Advancements…
Beginning in 2009, Hospital PICC service was moved out of nursing into the Imaging Institute. The service model deploys teams of two RNs to patient bedside, equipped with portable US. The program includes the integration of C-Arm Suite within Interventional Radiology for failed bedside PICC insertions. The PICC service has expanded rapidly during the first year within the Imaging Institute and received very positive responses from clinicians across the hospital.

Cleveland Clinic Main Campus Women’s Health Pavilion successfully transitioned from Analog Conventional Screen Film to Digital Mammography in 2009. During the next few years, system-wide conversion to Digital Mammography will be completed throughout the Mammography Imaging Centers at all of the Family Health Centers and system hospitals.

Cleveland Clinic Children Hospital Pediatric MRI Service includes installation of dedicated Pediatric MRI, pediatric anesthesia services, 3 patient preparation and recovery rooms, a patient consultation room and 2 induction suites.

Cleveland Clinic Sports Health MRI Service includes installation of 3.0 Tesla Open Bore MRI at the integrated sport medicine clinic, providing musculoskeletal imaging of the athletes of the Cleveland Major Sports Franchises.
RSNA Alumni Cocktail Reception

Greg Borkowski, MD, would like to announce that the **2010 RSNA Radiology Alumni Cocktail Reception** is tentatively scheduled on **Sunday, November 28, 2010, 6 - 8 pm in Chicago, IL.**

*Meeting venue: TBA.* Stay tuned for more information in the Spring Radiology Alumni Connection Newsletter.

Cleveland Clinic Alumni Board Meeting Update

The Alumni Association Board of Directors met in Cleveland, during Oct 2-3, 2009. The featured speakers included James Stroller, Michael Modic, and Maria Siemionow.

*Dr. Stoller* discussed the Education Milestones 2009, a milestone year within our Founding Father’s mission of “More Education of Those Who Serve”:
- Commemorated the graduation of the inaugural five-year **Class of 2009** from Cleveland Clinic Lerner College of Medicine of Case Western Reserve University
- Celebrated the **10th Anniversary of the Alumni Library** and the alumni donors who made it possible in May
- Welcomed the 83’rd annual class of graduating interns, residents, fellows and post-docs into our worldwide network of Cleveland Clinic trained physicians and scientists, now numbering over 400 graduates per year totaling more than 10,000 Clinic-trained physicians and scientists located in every U.S. state and territory and 70 foreign countries

*Dr. Modic (GL-1 76, DR 78, NR 79)* presented the Accomplishments and Initiatives of the Neurological Institute, an Institute Model Transitional Experience. The Challenge to provide high quality and cost effective healthcare is to improve value and quality of patient outcome, which is best measured at the disease/treatment level, facilitated by multidisciplinary Organ based institutes and disease focused approach. Measurements of value and quality will drive the development of an improvement feedback loop, which becomes the engine of progress and reform. The Neurological Institute is a multi specialty clinic model, which is comprised of the departments of Neurology, Neurosurgery, Psychiatry and Psychology, Physical Medicine and Rehabilitation, Neuroimaging, Neurosciences, Nursing, PT/OP and Home Health. It provides enterprise approach with multiple locations for patient access/convenience, and offers spectrum of offerings in terms of co-location and continuum of coordinated care, implementing evidence-based treatments and teamwork.

*Dr. Siemionow,* the Director of Plastic Surgery Research, Head of Micro plastic Training, of the Department of Plastic Surgery presented her experience of the First U.S. Face Transplant: From the Laboratory to the Operating Room. From the Laboratory to the Operating Room. During 2000 to 2009, she conducted over 1000 Composite animals face transplant and 40 human cadaver studies in five various experimental face transplant models (face-scalp allograft transplant, hemi face allograft transplant, hemi face/calvarium model, maxilla with teeth model, and hemi face-mandible-tongue model), testing for immuno-suppression and rejection-acceptance. She wrote over 65 publications in top journals in Plastic Surgery and Research, and obtained IRB approval for human facial transplant at CCF in October, 2004. With tremendous dedication and persistence, she overcame the many obstacles and finally obtained support to receive cadaver candidates from various organizations. On December 10, 2008, Dr. Siemionow led a multidisciplinary team of physicians in the departments of Dermatology and Plastic Surgery, Hand Surgery, and General surgery, and successfully performed the first near-total face transplant and restored the quality of life to a patient. Please read the section under **In the News** for further details.

Visit us online at [clevelandclinic.org/radiologyalumni](http://clevelandclinic.org/radiologyalumni). Submit your announcements or photos to [radiologyalumni@ccf.org](mailto:radiologyalumni@ccf.org).
Cleveland Clinic’s Cardiovascular Imaging Lab (CVIL) is one of only a few centers in the country offering imaging of the cardiovascular system by a team of cardiologists and radiologists specially trained in cardiac imaging.

The Section of Cardiovascular Imaging includes five clinicians and two researchers, whose combined expertise is essential to the work of Cleveland Clinic’s world-renowned Sydell and Arnold Miller Family Heart & Vascular Institute.

Located in the Miller Family Pavilion, the Cardiovascular Imaging Lab is equipped with state-of-the-art computed tomography (CT) and magnetic resonance imaging (MRI) equipment. The staff is expert in diagnosis and treatment planning for conditions that include acquired cardiac disease in adults and congenital heart disease in children and adults.

The CVIL provides comprehensive CT, MRI and magnetic resonance angiography (MRA) imaging services:

**CT: Rapid, with Excellent Image Quality**

The CVIL is equipped with two state-of-the-art CT scanners to expertly handle the imaging needs of our cardiovascular patients. One scanner allows imaging of high heart rates and the other can capture 256 images with every heartbeat.

With each patient, our staff is committed to using the procedure that is least invasive and reduces radiation exposure to the minimum. Our CT equipment provides excellent image quality despite high heart rates.

CTA examinations of the thoracic and abdominal aorta are available prior to or following surgery or minimally invasive procedures. The CT scanners in the CVIL are extremely fast, allowing for smaller contrast injections than typically used for similar CT scans performed elsewhere.

In addition, the CVIL CT scanners incorporate “step-and-shoot” technology, which results in the lowest radiation doses possible with today’s technology.

**MRI/MRA: For Expert Cardiac Analysis**

The CVIL offers two MRI scanners that are fully equipped for cardiac analysis. Cardiovascular MRI/MRA examinations encompassing the breadth of acquired and congenital heart disease are performed and expertly interpreted on a daily basis.

The Section of Cardiovascular Imaging maintains close clinical working relationships with Thoracic and Cardiovascular Surgery, Vascular Surgery and Cardiology, all within the Miller Family Heart & Vascular Institute. These collaborations aid in optimizing diagnostic pathways and effecting cost-efficient care.

To learn more about the Cardiovascular Imaging Lab visit [clevelandclinic.org/cvil](http://clevelandclinic.org/cvil).

Visit us online at [clevelandclinic.org/radiologyalumni](http://clevelandclinic.org/radiologyalumni).
Submit your announcements or photos to radiologyalumni@ccf.org.
Welcome New Imaging Institute Residents & Fellows

The Welcome Party for the new residents and fellows was held at the home of Dr. Andrew and Mrs. Sharon Tievsky on July 18, 2009. All radiology staff, residents, fellows, program coordinators, and their guests were invited to attend. There were over 60 attendees at the event at which the new residents and fellows are given the opportunity to meet and get to know Imaging Institute colleagues.

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Facial Transplant
On December 10, 2008, a multi-disciplinary team of doctors and surgeons at Cleveland Clinic performed the first near-total face transplant in the United States. In a 22-hour procedure, a team of eight surgeons replaced 80 percent of a trauma patient’s face – essentially transplanting the full face except her upper eyelids, forehead, lower lip, and chin. The transplant team was led by Maria Siemionow, MD, PhD, Director of Plastic Surgery Research and Head of Microsurgery Training.

During the entire transplantation procedure, surgeons rotated turns at the operating table to rest, to sleep, or to share expertise. This was by far the largest and most complex face transplant completed in the world. The surgery integrated different functional components, such as nose and lower eyelids as well as different tissue types including, skin, muscles, bony structures, arteries veins and nerves. Approximately 500 square centimeters of tissue were transplanted onto the recipient.

To learn more about this patient and procedure visit clevelandclinic.org/face.

President Obama’s Visit
On July 23, 2009 President Barack Obama visited Cleveland Clinic for an inside look at its model of healthcare, how it utilizes health information technology, and for a demonstration in the operating room. The visit gave the president a sense of how Cleveland Clinic provides patients with cost-effective, high-quality clinical results.

The president’s tour included a presentation on the Cleveland Clinic’s health information technology (HIT) initiatives and a demonstration of robotically assisted heart valve repair that speeds up patients’ recovery time and decreases cost.

Click here for additional details.
Cleveland Clinic Lou Ruvo Center for Brain Health

People around the world travel to Las Vegas in the hope that a bit of good luck will change their lives forever. Since the doors opened at the Cleveland Clinic Lou Ruvo Center for Brain Health (CCLRCBH) on July 13, patients who come to Las Vegas with cognitive disorders such as Alzheimer’s, Parkinson’s and Huntington’s have much more than luck on their side.

Cleveland Clinic’s integrated healthcare model combined with research, philanthropy and vision have led to the creation of a team dedicated to developing treatments to delay, prevent and eventually cure the disabling symptoms of chronic brain disorders. The neuroradiologists in Cleveland Clinic’s Imaging Institute are a very important component of this team, which also comprises neurologists, neuro-psychologists, and specially trained nurses and assistants.

Our world-renowned neuroradiologists have acquired a skill set that uniquely qualifies them to collaborate with the integrated team at the Lou Ruvo Center for Brain Health. Acknowledged as leaders in their field, they conduct research, write textbooks and articles, and teach students and other physicians training in the cognitive disorders. Therefore, images from scans of patients at CCLRCBH are interpreted by subspecialty-trained experts, who are dedicated to studies relating to the brain and spine.

To provide our radiologists with the best information, Cleveland Clinic has invested in a state-of-the-art 3-Tesla MRI scanner that is installed inside the newly constructed Lou Ruvo Center. We have also installed a CT scanner and plan to add a PET scanner, which will allow our physicians to diagnose frontal temporal disorder vs. Alzheimer’s disease.

To learn more about the Lou Ruvo Center for Brain Health visit [clevelandclinic.org/brainhealth](http://clevelandclinic.org/brainhealth).

Visit us online at [clevelandclinic.org/radiologyalumni](http://clevelandclinic.org/radiologyalumni).
Submit your announcements or photos to [radiologyalumni@ccf.org](mailto:radiologyalumni@ccf.org).
Imaging Institute Holiday Party

Come celebrate the holidays with your Imaging Institute colleagues on Saturday, December 12. The festivities begin at 6:00 PM with dinner to be served promptly at 7:30 PM. The event will be held at Casa di'Borally, which is located at 27227 Chardon Road in Richmond Heights. The cost is $10 per person and spouses are invited. The cost includes family style dinner, dessert and wash. Please bring your own bottle of wine. There will also be games of chance as well as a raffle. For more information or to reserve your spot please contact Lucy Moore at 216.445.9892 or moorel1@ccf.org.

News from Cleveland Clinic Alumni…

Michael Modic, MD (GL-1 ’76, DR ’78, NR ’79), Chairman of the Neurological Institute, has been appointed Cleveland Clinic’s Chief Emerging Business Officer. Dr. Modic helped to develop the organizational structure for our distinctive institute model of care, led the development of the Cleveland Clinic Lou Ruvo Center for Brain Health and oversaw the expansion of eRadiology services to more than 30 locations in eight states. In taking on this new role, Dr. Modic will continue to serve as chairman of the Neurological Institute.

Over the next several months, Dr. Modic will work with executive leadership to review emerging business strategy, capitalize on the strategic thinking already in place and assess new ideas to expand emerging business opportunities. He will also work closely with the institutes to identify ways to capitalize on existing opportunities.

Dr. Modic received his medical degree from Case Western Reserve University School of Medicine in 1975, and then completed a residency in radiology and fellowship in neuroradiology at Cleveland Clinic.

David Einstein, MD (GL-1’79, DR’82) has been named as the Vice-chairman of Education for the Imaging Institute. The broad scope of this position includes allied health/nursing, medical student education (including the CCLCM), Imaging residency and fellowship programs (including alumni relations) and continuing medical education. In this role, Dr. Einstein will be the Imaging liaison to the Chairman of the Education Institute and will work to coordinate educational activities at the Institute level.

We encourage you to share your personal and professional accomplishments with fellow Cleveland Clinic Imaging Institute Alumni. Send your updates, photos, etc to radiologyalumni@ccf.org.

Medical Editor - Pauline Kwok, M.D. (TRS’95, DR’00, ABI’01)
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