



**The Heart of the Shriners Hospital
Beats to the Child's Rhythm**

The Orthopedik

Volume 2, Number 4

Winter 2007



Shriners Hospitals for Children – A One-of-a-Kind Pediatric Hospital System

Guyline Ouellet

On October 22nd, Shriners Hospitals for Children (SHC) launched a system-wide branding initiative to show-case the leadership of our international system of 22 hospitals in providing expert pediatric care since 1922.

At the official announcement of the branding initiative Ralph W. Semb, Chairman

of the Board of Trustees for SHC, said, "We believe one look and one voice is the best way to communicate the expert care we provide, our achievements in research, and the superior training and education we provide our staff and medical community."

As part of this initiative, Shriners Hospitals undertook an advertising and marketing

campaign in the United States-the first in our 85-year history-which is expected to increase awareness of Shriners Hospitals and the work we do for our young patients. A similar Canadian ad campaign began at the end of November in English and in French and, for the moment, is concentrated in the Montreal area.

What is Branding?

We often think of a brand as a logo. While this is one element, a brand is the sum total of an organization. It includes the mission, vision, values and organizational culture; it is what an organization does and how it does it.

The SHC brand is embodied in its new logo. Drawing from the former logo of a Shiner carrying a little girl and her crutches seen from behind, the new logo celebrates that legacy with a forward-facing, refreshed look symbolizing Shriners Hospitals as a progressive organization.



Hôpitaux Shriners
pour enfants
Shriners Hospitals
for Children™

Expert Care

The branding of Shriners Hospitals reflects the spirit of the organization today-a system of pediatric specialty hospitals with expertise in providing the highest-quality, personalized care to improve the lives of children, often beyond what others thought was possible.

Since the first hospital opened in 1922, SHC have provided specialized care to approximately 835,000 children. We help children feel comfortable and safe in a family-centered environment because we understand that while medicine heals a child's body, it's just as important to tend to a child's overall well-being. We offer specialized care at no charge, thanks to the generosity of Shriners and community donors as well as funding from provincial governments for our Hospital.

Superior Education and Training

According to James M. Full, FACHE, Executive Vice President and COO of Shriners Hospitals for Children, it's the educated staff and medical community who "make us a one-of-a-kind system". He cited their passion in advancing the care of children and sharing knowledge with other medical professionals through teaching, conferences and published articles. "Medical education is one of our key missions, and the staff and medical community affiliated with our Hospitals are the embodiment of the new brand," he said.

At the Forefront of Research

Our pioneering research is also an integral part of our brand. As leaders in innovation, SHC have improved the quality of life of children world-wide. With research as a driving force across the entire system, Shriners Hospitals have been leaders in orthopaedic and burn research for the past three decades.

With past successes and the promise of future achievements in research, Shriners Hospitals have committed \$37 million to research this year, thus providing funding for more than 140 research projects, 24 research fellowships, 19 shared research facilities as well as several medical conferences.

In this Issue...



- We Welcome Our New Administrator
- Breakdancer Motivates
- Demystifying Research
- Glam Camp for Girls

The Orthopedik Editorial Committee welcomes questions about the Hospital and we will do our best to provide the answers.

A question from Princess Elie Taylor, Daughters of the Nile, Ontario, Canada:

Are the articles made and collected by the Daughters of the Nile (DON) for the Hospital distributed to the children - inpatients and outpatients?

Answered by Child Life Department Staff:

What would our Hospital be without the generous people who volunteer time and give funds, toys and all sorts of other goodies? Among these generous donors, one group distinguishes themselves by its unique and repeated donations over the years, as well as its involvement in the Shrine system. They are the Daughters of

the Nile. Their donations help patients in many ways. For example, the handmade pre-operative teaching dolls that the Child Life staff uses to explain surgical and medical procedures to patients. The dolls are more than helpful. They are a real necessity! This is why, even though we lack storage space, we stockpile them in every possible corner of the playroom, always within reach.

There is also the designer stationary that is used to make albums about the patients' stay at the Hospital. This way, the child returns home with a "show and tell" book that can be shared with his family and friends. This helps the child to make the transition from the hospital to home.

The Daughters of the Nile also demonstrate their talent by making many handmade blankets for the patients. These blankets are distributed to the various

departments throughout the Hospital such as radiology, outpatient clinic and the nursing unit. These gifts are much appreciated by the inpatients as well as the outpatients.

All other gifts that are happily received are used as birthday gifts for the patients who have to spend their special day at the Hospital or are used as motivation or rewards for patients going through long or difficult procedures.

All donations put smiles on the children's faces and certainly help the staff in achieving success. ■

Daughters of the Nile is a benevolent international fraternal organization for women who are related by birth or marriage to a Shriner / Master Mason / Daughter of the Nile.



On October 23, 2007, Eleanor Green, Supreme Queen of the Daughters of the Nile visited the Shriners Hospitals for Children - Canada. She had the opportunity to spend time with patients and staff throughout the Hospital, including the Child Life Department. As well, in a special presentation Dr. Lucie Lessard extended her

thanks to the Supreme Queen and all Daughters of the Nile for making it possible to bring the very specialized BAHA technology for the first time in Eastern Canada in 1996. This implant device gives young patients with specific severe hearing impairments the opportunity to regain hearing.

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We want to hear from you! If you would like to ask us a question or suggest a topic for an article in an upcoming edition of the Orthopedik, please contact us at gfouellet@shrinenet.org or (514) 282-6990. The Orthopedik can also be downloaded from www.shrinershq.org/Hospitals/Canada/

From Patient to Break-Dancer to Motivational Speaker

Emmanuelle Rondeau

Meet BBoy Luca Patuelli. We interviewed this 23 year-old Marketing Major at Concordia University in Montreal while he was traveling to London, Ontario as part of a motivational speaking tour...which he spices up with a little break-dancing! In the last few months he has traveled to Virginia, Missouri, New York, Pennsylvania and Washington.

“Lazylegz” Patuelli was born in Montreal and raised in Bethesda, Maryland. Early on, Luca was diagnosed with arthrogryposis, a very rare disorder that limits motion in the joints and affects bone structure. In Luca’s case it has weakened both his legs.

Luca was treated by Dr. François Fassier at the Shriners Hospital in Montreal from his initial diagnosis to the age of four years old. He saw him again in his late teens when he returned from Maryland to go to University. He has had a total of 16 surgeries on his legs and spine.

*“Life is about taking the bad
and making it good”*

– Lazylegz



Photo: Norm Edwards

Here are some of the thoughts this exceptional young man shared with us.

Q: How did you start break-dancing?

A: Before break-dancing, I skateboarded on my knees and I hoped to go far in the sport. But, when I had an operation to readjust my femur, I was no longer comfortable on my skate-board. I knew I had upper-body strength and I loved to perform and to travel, so I made sacrifices and practiced relentlessly. Break-dancing became a passion that opened doors for me.

Q: What made you move on to motivational speaking?

A: When you’re in a hospital, especially after surgery, you appreciate the visits, whether it is clowns, entertainers, sports stars or a volunteer who spends time with you. It is pretty much what takes the pain away, and that’s what inspired me to get started. My first show was at the Shriners a few years ago. I was shy then and mostly danced. My first real motivational talk was at the McKay Centre in Montreal.

Q: What is the message you give when you speak?

A: My father always said ‘your first failure is not trying’ I always tell kids that their condition is not a valid reason for not trying. We have to be creative and adapt ourselves and then anything is possible. I find people give up easily. When you want something, you can’t let anything or anyone stop you and you have to be willing to make the necessary sacrifices. I believe that life is about living every moment.

Q: What do you think makes the Shriners Hospitals for Children unique?

A: First, it is a network of Hospitals that offers amazing care and it is free for families. I think that is incredibly important, because it can be very frightening to deal with disease, not to mention expensive. Second, it is the Shriners themselves. I met a commercial pilot in Virginia a few months ago. He told me that in his spare time he flies children in need to the Shriners Hospital in his private plane... isn’t that amazing?

The interview with Luca is featured at www.shrinershq.org/Hospitals/Canada/ and for more information about Luca, or to contact him, visit www.lazylegz.com. ■

Welcome to Our New Administrator at SHC - Canada



The Board of Governors of the Shriners Hospitals for Children - Canada is happy to announce the appointment of Mrs. Céline Doray as Administrator of the Hospital.

Mrs. Doray has more than 30 years of experience in various management roles: she started her career as a nurse at the Royal Victoria Hospital and worked in different management positions in Quebec and Ontario. At the McGill University Health Centre she held the position of Associate Director of Nursing in Surgical Areas and, since 2003, as Director of Nursing and Co-director of Programs at Cité de la santé - Centre hospitalier ambulatoire régional de Laval and as director of nursing of the Health and Social Services network of Laval.

Mrs. Doray’s career has led her to take part in several Committees and Work Groups at the regional, provincial as well as national levels. In 1995, she received the prestigious Optimah-Merck-Frosst Award of Excellence for Partnered management: “the solution to the challenges of effectiveness and efficiency”. As well, she has spoken at many conferences and was published repeatedly since 1989.

Mrs. Céline Doray officially joined the Hospital on December 10, 2007. ■

Research Simplified: What Do We Do?

At Shriners Hospitals for Children - Canada, research is a vital and integral part of improving the diagnosis, treatment, care, comfort, well-being, function and development of our patients. Altogether, there are at least 30 different research projects currently underway.

Our team is involved in three types of research:

- **Basic research** in health sciences is performed in laboratories and uses cell culture systems or animal models to understand the role of molecules in biological processes such as growth, development or disease.
- **Clinical research** is done partly at the bedside or in clinical areas of the Hospital and involves patients and

patient material (blood, biopsy, etc.) to find the cause or symptoms of diseases, to develop diagnostic tests and/or treatments, and to analyze the outcome of interventions.

- **Translational research** occurs when a particular research project is aimed at testing a new drug, instrument, or surgical technique before their use in patients.

Interdisciplinary Approach to Research Pays Off

René St-Arnaud Ph.D.

Since its creation and the appointment of Dr. Francis Glorieux as Director of Research in 1973, the Genetics Unit research laboratory of the Shriners Hospital for Children in Montreal has encouraged close interaction between scientists involved in basic and clinical research, in order to maximize the impact of all research projects.

At the Canadian Shriners Hospital, research is focused on the skeleton and the study of normal or diseased bone development. Ongoing projects include:

- the study of how and why the structure and function of cartilage changes during development and in disease
- which enzymes are required to achieve normal skeletal development and growth
- vitamin D metabolism
- the role of specific genes in the function of bone-forming cells
- bone formation in children undergoing limb lengthening
- diagnosis and treatment of osteogenesis imperfecta (brittle bone disease)

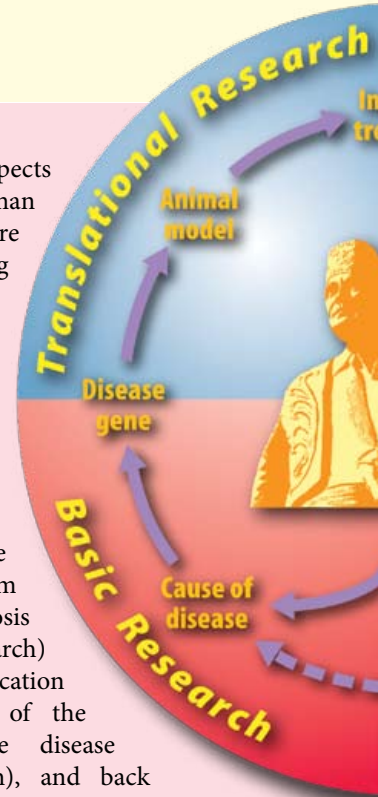
The Full Cycle of Research - an Example

The absence of vitamin D, can affect the mineralization of the skeleton, causing rickets in children. One form of rickets, named pseudo vitamin D

deficiency rickets (PDDR), has been associated with specific mutations in the gene regulating vitamin D metabolism. We have made key contributions to the understanding of the cause, diagnosis and treatment of this disease. In the early days, methods to precisely measure vitamin D compounds were developed in parallel with new treatments. In 1992, the gene responsible for the disease was identified to chromosome 12, a major breakthrough in the search for the cause of the disease. While the basic research effort aimed at isolating the disease gene was in full swing, clinical studies focused on vitamin D metabolism and calcium levels in infants. In 1997, we were the first of four independent laboratories to isolate the gene responsible for PDDR. From there, we mutated the gene in mice and analysed the mutated mice in close collaboration between the basic and clinical research. We were able to show that we had developed a valid animal model of the disease which

mimics all aspects of the human disease. We are currently using this animal model to test novel vitamin D compounds that could be used for treating patients, thus completing the full circle from patient diagnosis (clinical research) to identification and isolation of the cause of the disease (basic research), and back to translational studies using animal-based studies to identify and safely test new drugs for treatment.

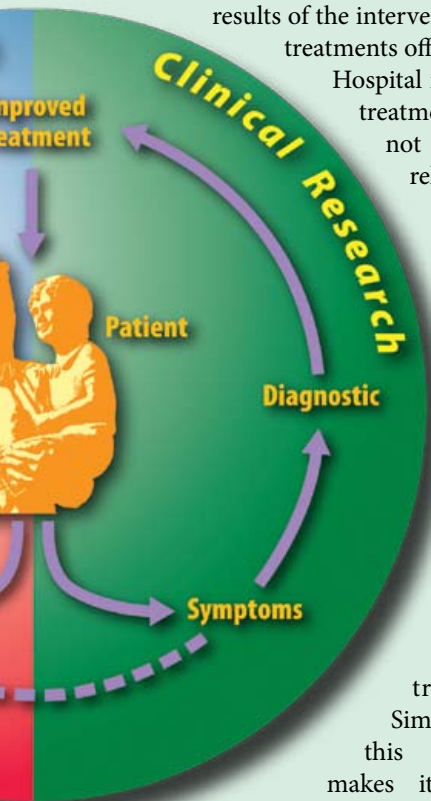
This success underscores the rationale for parallel basic and clinical investigation activities side by side, and the power of the cross-fertilization that results from it. ■



Clinical Outcomes Research Program Recognized at Accreditation

François Fassier, M.D., Reggie Hamdy, M.D.

Created in 2003, this program recently received high praise as a "Leading Practice" by the Canadian Council on Health Services. The objectives of this program are to develop and oversee research projects which measure the results of the interventions and treatments offered at the Hospital if previous treatments did not prove reliable or if they are new



treatments. Simply put, this program makes it possible to verify the extent to which treatments have a beneficial effect.

How does a question become a research project?

All professional staff is encouraged to ask questions and to evaluate just how well

programs or treatments work. This allows orthopedists, pediatricians, nurses and all health-care professionals who work with sick children to find answers, to improve treatments and to remain at the leading edge of medicine. The Clinical Outcomes Research Program helps to standardize research tools such as measuring function, participation and quality of life. More often than not, clinical research directly involves patients and their families by testing the results of treatments and programs. They generally are happy to consent and take part in the research projects as they have the satisfaction of being part of improving treatments for themselves and others who follow.

The Clinical Outcomes Research Committee, chaired by Assistant Chief of Staff Dr. Reggie Hamdy, screens, coordinates and oversees the various projects. The committee is composed of representatives from several professional services interested in research and includes a consultant research ethicist. The program is coordinated by Kathleen Montpetit, Head of the Occupational Therapy Department, with the exception of research in metabolic genetics which is under the supervision of Dr. Frank Rauch.

In addition to the research and program evaluation projects, this program is also developing secure and confidential databases on the various populations and diagnoses treated at our centre.

"At present we lead 20 clinical outcomes research projects at the Shriners Hospital

in Montreal", affirms Dr. Hamdy. These clinical projects include multi-centre, randomized, exploratory studies as well as retrospective studies. Several of these projects are subsidized by the Shriners and other organizations.

An Example: Can Botox help to reduce pain after surgery?

Pain after surgery can be severe and require the prolonged use of strong pain medications, including narcotics. Since Botox-A is known to have pain-relieving properties as well as paralyzing actions, this study, which is currently underway, seeks to find out whether Botox-A can reduce post-operative pain and therefore improve the recovery and function of children undergoing limb lengthening or deformity correction procedures. It is a multi-centre and randomized study, involving 6 hospitals, led by Shriners Hospitals for Children -Canada and subsidized by the Shriners.

Other studies currently underway include:

- To what extent does bracing help adolescents with scoliosis?
- How effective is the Ponsetti technique in the treatment of clubfeet?
- Can mobility of children with cerebral palsy improve with vibration treatment?

With the results of these research projects, we endeavor to improve our clinical practice ensuring evidence-based, effective care. ■



In the next issue...

We will continue to examine how research improves patient care and in particular, we will look at novel translational initiatives which involve collaboration between basic scientists and orthopedic surgeons, illustrating how we work in tandem in the operating room and the research laboratory.

On October 19, Board members, patients, families and staff gathered to celebrate the grand opening of our Family Resource Library, a new service being offered at the Shriners Hospitals for Children in Montreal.

The Power of Information

Appropriate information can empower people to manage their own health concerns and leads to improved recovery. At the request of families and having seen some wonderful libraries for patients and families in other centres, we decided that a Family Resource Library was a priority.



Julie Taminiau is at work with the growing collection of books and reference materials.

Such a service would enable us to better address our patients' information needs and provide more comprehensive patient care.

Our Family Resource Library is located very visibly in the clinic waiting area. The collection includes books and pamphlets, in French and English, addressing a variety of information needs. We have resources for patients themselves, as well as for their parents, siblings, and other family members. We offer documentation related to specific conditions and treatments, as well as information on more general topics such as self-esteem, nutrition, family life, and discipline. We also cover community and other services.

Our affiliation with McGill University gives us access to many online databases, allowing us to provide full-text articles from both scholarly journals and popular magazines. The Library's carefully-

selected collection is small but growing. We are in the process of adding pamphlets, magazines, videotapes, and DVDs.

Library materials can be borrowed by patients, their families and interested staff. The information provided is meant to complement, not replace, the information given by various members of the health care team.

Extra Assistance for Families

Our librarian, Julie Taminiau, can guide families to the information they need at every point in their child's care - whether it be resources in the library itself or the help they need to find information and resources for themselves. ■



Jordan has the honors of cutting the cake under the supervision of Clinical Nurse Specialist and Library Coordinator Susan Takahashi at the opening of the Family Resource Library.

Fostering Safety

Sylvianne Lessard

Shriners Hospitals for Children - Canada strives to offer a comfortable, safe environment for children and their families as well as its staff. With this in mind, the Employee Safety Recognition Committee was created in September 2006 with the following objectives:

- Raise awareness among employees about patient safety;
- Recognize employees for their safety initiatives;
- Meet the criteria of the Canadian Council on Health Services Accreditation, which requires that institutions create a culture of safety.

The Committee launched its Recognition Program on September 10, 2007 by setting up an information stand

where employees were informed about the new safety recognition initiatives as well as the nomination process.

During the nomination period, which lasted three weeks, the Committee organized many activities. Among these was "The Room of Horrors," an activity to raise awareness among employees about the potential risks of a hospital stay. Participants were challenged to identify more than 50 risks in a staged patient room.

The Employee Recognition Program Committee received 32 nominations, and the Committee chose four projects that met the following criteria: the initiative goes beyond day-to-day responsibilities, has an impact that is felt daily and can be used in other departments. ■

Congratulations to our safety leaders:

- The Social Services Team - Training session on safe transport of patients for volunteer drivers.
- The Operating Room Team - Prior to surgery, a new "time-out" checklist is completed in the operating room.
- Dr. Marie-Andrée Cantin, Hélène Gauthier, Pierre Ouellet and Mario Rinaldi - The use of Gortex under casts to prevent pressure sores for children with spasticity.
- The Occupational Therapy Team - Work done with Transport Canada to ensure the availability of special car seats for patients in a spica cast.

Donors in Action

Glorious Glam Camp for Girls

Stephanie Gould

Is there a better way for a woman to spend her day than to be treated like a princess as she gets her hair and makeup done by a team of professionals? How about a manicure thrown in and then a night out on the town? And make free! Now that's a woman's dream day!

On Saturday, October 13, this dream came true for eight young women from the Canadian Shriners Hospital family. Inspired by an event held by SHC-Chicago, the Transition Committee in Montreal, led by Joanne Ruck, organized an entire day of pampering for our transitioning (transferring from pediatric to adult care) adolescent girls. The Glam Camp came together with the invaluable help and sponsorship of the **Starlight Starbright Foundation for Children of Canada (Starlight)**, and the participation of a luxury spa in Laval, Spa Orazio. Spa staff met the girls at the door and offered each a warm and personalized service that included hair cut and style, makeup and a manicure. There were lots of "oohs" and "aahs" when the girls emerged from their transformations, but more importantly, lots of smiles, giggles, and chatting throughout the process. They were all very beautiful before their makeover, but the best word to describe them as they walked out of the salon was "glamorous."

Once done at the spa, the group was welcomed at the nearby Boston Pizza

restaurant for a fun night of good food, great conversation, and lots of laughs. Staff from the Starlight Foundation was on hand to facilitate the evening and ensure that every member of the Shriners' party was treated like a VIP. There was even a surprise visit from the Starlight mascot who handed out goodies to all the girls!

The young women, most of whom had never met prior to this event, bonded throughout the day and formed lasting

friendships, culminating in the exchange of phone numbers and e-mail addresses at the end of the night.

The day allowed the girls to feel pampered, boosted their self-esteem, and created a positive and non-threatening environment for them to make friends and exchange stories of similar life experiences. It was a great success and is a real feather in the cap of the Transition Committee! ■



Thanks to the Starlight Foundation, teens aged 13 to 18, experienced Glam Camp. Back Row: Kelly Thorstad, Clinical Nurse Specialist Lucila, Camille, Maryna, Valerie, Jessica, Stephanie Gould, Physiotherapist. Front Row: Zoe, Samantha, Carolina, Lindsey.

Concordia Stings McGill in 21st Edition of Shrine Bowl

Emmanuelle Rondeau

It was an exciting day of football dedicated to helping kids at Shriners Hospital in Montreal defy the odds.

On October 13, the Concordia Stingers defeated the McGill Redmen 13-8 in front of 1,500 fans who came to cheer on both teams. It was a cold and rainy day, but both teams put on a good show. It was an exciting match as the Redmen took the lead, but after the first half, the Stingers came back with a strong offensive.



This edition is expected to have raised close to \$30,000, bringing the 21 year total to more than \$634,000 for the Montreal Shriners Hospital. ■

Players from Concordia Keith Dauper (51), Nick Scissons(16) and from McGill's Tim Kraemer (81) and Matt Connell (16) pose proudly with Shrine Bowl Patient Ambassadors Stephen Ling and Amélia Longpré.

Shriners Corner

The Al Azhar Shriners – Calgary

Garth Border

As the first Shrine in Alberta in 1907, founding members included 32 Shriners from Calgary, 30 from Edmonton, four from Medicine Hat and four from other locations. Today, we are 925 members strong proudly continuing the work of our ancestors, supporting medical research and treatment for children.

On October 19 & 20, 2007, the Al Azhar Shrine Centre celebrated its 100th Anniversary.

This was a momentous occasion. We proceeded to the rededication of the Centre, we set a time capsule at the Northeast corner of the building and we dedicated a new Statue of the Shriner & Child “The Editorial without Words” The Time Capsule contains many items and news articles describing the events which occurred during the past 100 years at Al Azhar Shrine, and throughout the Province Of Alberta.

We also produced a 100th Anniversary History Book about our Shrine Centre. This is a hardbound production, and is being described as a great keepsake and history of our Shrine Centre.

Potentate Malcolm Tolton, the Shriners and Ladies of Al Azhar look forward to continuing the Shrine tradition in Southern Alberta for the next 100 years. ■

Photo: Linda Senyeych



Rededication Ceremony of the Al Azhar Shrine Centre

Imperial Sir Doug Maxwell, Deputy Imperial Potentate attended our celebrations, along with P.I.P Ken Smith, and our own P.I.P. Ed McMullan.

The Calgary Herald, produced a six page informational insert for this event, describing the Shrine and our Hospitals for Children. This was distributed to all Calgary and area households.



Al Azhar Shriners show their proud affiliation with the Canadian Hospital at parades and events.

Masonic Open House Day – Montreal

William Pitts

On Sunday, October 21, the first Masonic Open House Day was held at the Hospital. Past Potentate of Karnak Shriners, John W. Hawkins, responsible for Shriners recruitment and membership in Quebec has sent an invitation to all Masonic Lodges across the province. “All Shriners are Masons first,” explains Mr. Hawkins, and an event like this ensures that upcoming Shriners understand and value our cause as well as giving them an opportunity to fraternize with their Shrine brothers.

There were approximately 50 Masons, their wives and the Karnak Shriners Divan



The Laurentian Lodge masons presented a cheque to the Hospital. From left to right: Rathwell Morrison, Tom Blythe, Ross Garland, Bill Owen, Tom Barnes(back) Sharon Brissette - Hospital Interim Administrator, and Illustrious John MacDonald from Karnak Shriners.

present for this historical event. Hospital tour guides were pleased to give up their Sunday to conduct tours that afternoon for these men and women who came to witness what the Shriners greatest philanthropy is all about.

Karnak Shriners Membership Committee was pleased with the outcome of this event and is planning to hold another one in April 2008.

The Shrine of North America new motto this year is, “We Are Family” this was proven with this event. ■