Our programs in all subspecialties of Orthopaedic Surgery remain strong despite the challenges of difficult economic times. In addition, several of our faculty volunteered to serve the people of Haiti over the past year as part of the University of Chicago’s effort to provide care and comfort to those injured and displaced as a result of the disaster there. Dr. Rex Hayden boldly participated in the first expedition. Drs. Kris Alden and Chris Sullivan followed, with Dr. Sullivan making a second visit. Their perspiration and inspiration were recognized by the University’s Global Healthcare Initiative.

I want to take this opportunity to thank our alumni and supporters for their correspondence and support over the past year. We debuted an alumni segment in the last Annual Report and the response was tremendous. Our alumni are among the most accomplished in Orthopaedics and it is a real pleasure to include the stories of several each year.

Finally, I am honored to be the second University of Chicago Orthopaedic Surgeon to be selected to the Presidential Line of The American Orthopaedic Association. This recognition of our program is a tribute to the faculty, alumni, residents, students and personnel that support us. We can all be proud of our accomplishments, not just this year, but throughout our history. Thank you for your continued support.
The Section of Orthopaedic Surgery and Rehabilitation Medicine continues to distinguish itself in patient care, research and education. The faculty provides expert and compassionate care in a range of subspecialties including: foot and ankle, hand and upper extremity, joint/reconstruction, orthopaedic oncology, pediatric orthopaedic surgery, spine, sports medicine and rehabilitation medicine.

Complementing the clinical practice are the expanded resident and fellowship programs and the active clinical and basic science efforts. The Section is committed to growing the body of medical knowledge and creating a lasting contribution in the field of orthopaedic surgery.

ROBERT BIELSKI, M.D., served as an examiner for the American Board of Orthopaedic Surgery and a reviewer for the Journal of Bone and Joint Surgery this past year. He was also elected as a member of the American Orthopaedic Association (AOA) this past year. The AOA was founded in 1897 and is the oldest orthopaedic association in the world. Dr. Bielski started an orthopaedic core curriculum course for the Department of Pediatrics at the University.

ROBERT BIRNIE, M.D., was named President for the Chicago Society for Surgery of the Hand. He was a faculty contributor for the 17th Annual Primary Care Course chaired by Drs. Ho and Leland this past year. Dr. Birnie continues his busy clinical practice in hand and upper extremity at the University of Chicago.

HENRY FINN, M.D., continues to serve as Chairman of Surgery at Weiss Hospital. Dr. Finn invented multiple devices that are widely used in many major medical centers in the United States and abroad, most recently the Finn Knee™ System. Dr. Finn was named in Chicago Magazine’s Top Doctors in 2010.

PURNENDU GUPTA, M.D., continues to be active in the Scoliosis Research Society. He is an editor for The Spine Journal, Clinical Biomechanics, The American Journal of Sports Medicine and The Archives of Physical Medicine and Rehabilitation. Dr. Gupta presented at various regional and national meetings throughout the year.

REX HAYDON, M.D., PH.D., served in the first round of medical teams sent by the University of Chicago Medical Center to assist in the Haiti relief effort. In January 2010 he traveled to Fond Parisien, Haiti, approximately 30 miles east of Port-au-Prince. Dr. Haydon is a member of the Evaluations Committee and the Basic Science Subcommittee for the American Academy of Orthopaedic Surgeons (AAOS). He is a reviewer for Clinical Orthopaedics and Related Research, Journal of Orthopaedic Research, Journal of Bone Medicine, The American Journal of Sports Medicine, LifeScience and Cancer Research. Dr. Haydon also continues as Co-Instructor for the annual Musculoskeletal Clinicopathologic Seminar for residents held at the Gleacher Center, Chicago and is the Course Director for the Orthopaedic Basic Science Curriculum.

T.Y. HE, M.D., PH.D., was the recipient of the Changjiang Scholar Lecture Professorship awarded to outstanding overseas scientists by the Ministry of Education of China in August 2009. He was awarded the International Collaboration Award and was a recipient of the 100 Outstanding Overseas Investigators by Chongqing Municipality, China in December 2009. Under his mentorship, four Pritzker medical students were awarded fellowships for laboratory research. Dr. He’s molecular oncology lab continues research on cancer, stem cells and bone biology. He continues with collaborative efforts with other faculty in the areas of tendon and ligament repair research, articular cartilage regeneration research and implant wear-induced osteolysis and spine research. Recently, Dr. He extended his collaboration to include Dr. Russell Reid in Plastic Surgery.

SHERWIN HO, M.D., began his term as President of the Illinois Association of Orthopedic Surgeons (IAOS), having previously served on the Board of Councilors, as President-elect, and as Editor of the newsletter. Dr. Ho traveled with the USA Women’s Volleyball team to Bangkok, Thailand for the 2009 World Grand Prix with the new women’s team coach, Hugh McCutcheon, MBA. Dr. Ho secured Coach McCutcheon...
to be the keynote speaker at this year’s University of Chicago Department of Surgery’s annual retreat in January. Dr. Ho also expanded his teaching and consulting relationships as a visiting sports medicine expert with two major hospitals in Beijing, China, by examining and operating on elite athletes from Chinese professional and national teams. He was invited to lecture at the grand opening of the University of Chicago’s Beijing Center which took place in September 2010. This was the 17th year of Dr. Ho’s successful University of Chicago Annual Primary Care Orthopaedics Conference. Dr. Ho is the Program Director for the Sports Medicine Fellowship at the University of Chicago, the fellowship earned a 5-year accreditation by the ACGME. He served as the visiting faculty for the 25th Anniversary of the Hawaii Orthopaedic Association, as well as the Annual Meeting of the Nevada Orthopaedic Association this year. Dr. Ho was named in Chicago Magazine’s Top Doctors in 2010.

J. MARTIN LELAND, M.D., continues to serve as the team physician for Concordia University, Hillcrest High School, Bremen High School and Lincoln-Way Central High School. He is Principal Reviewer for The American Journal of Sports Medicine and an instructor at the Orthopaedic Learning Center in Rosemont. He is a member of the American Orthopaedic Society for Sports Medicine (AOSM) Self Assessment Committee and Media Spokesman. Dr. Leland is also an Orthopaedic Consultant for AOL.com Health section. Dr. Leland was a Course Director for the 17th Annual Primary Care Orthopaedics Conference presenting the Spotlight Lecture: “Tommy John Surgery for Baseball Payers.” He was Associate Master Instructor for the Arthroscopy Association of North America (AANA) Advanced Shoulder Arthroscopy and the Advanced Knee Ligament Reconstruction courses this past year as well.

HUE LUC, M.D., was awarded the Gerald H. Larus, M.D., Orthopaedic Faculty Teaching Award by last year’s graduating residents. Dr. Larus’ outstanding academic career was highlighted by his special gifts as a teacher and mentor. This award is created by the graduates of the faculty resident Section. Dr. Lu completed his OARS/AOAS Career Development Traveling Fellowship this past academic year. During his fellowship he visited the University of Rochester, University of Toronto and the University of Alabama, Birmingham.

DAVID MANNING, M.D., just completed a randomized prospective study investigating the use of multimodal pain management strategies in minimally invasive total knee arthroplasty. The study demonstrates that multimodal pain management strategies and Dr. Manning’s “Early Walk” program significantly improve patient satisfaction, decrease narcotic pain medication usage, decrease length of hospital stay and improve the patient’s ability to achieve early activity milestones after minimally invasive total knee arthroplasty. Dr. Manning was an invited speaker regarding surgical techniques in minimally invasive total joint arthroplasty, revision joint replacement and hip resurfacing at regional and national meetings this past year. He was an invited Grand Rounds speaker at Ohio State University. He continues to lead resident recruitment at the University of Chicago as well as maintaining a busy clinical practice. Dr. Manning is also Director of the Clinical Clerkship Rotations for both third and fourth year students rotating in Orthopaedics.

JOHN MARTELL, M.D., continues to serve as Director of the Orthopaedic Biomedical Imaging Institute at Weiss Memorial Hospital resulting in numerous publications and presentations this past year. Dr. Martell has established a new collaboration with the Academic Network for Conservation Hip Outcomes Research (ANCHOR) group. Together with John C. Chinsky, MD, at Washington University, the ANCHOR group is currently working on a project to develop software to standardize the pre- and postoperative interpretation of clinical pelvic radiographs. This is currently in the trial testing phase of development. The Orthopaedic Biomedical Imaging Institute continues to have the support of the William Harris Foundation to coordinate and evaluate the mid-term orthopedic wear performance of Longevity Polyethylene. Dr. Martell is also part of the Biomedical Institute for Advanced Surgery and Endoscopy (BIARE) which is a collaborative effort with Drs. Park and Gopalsami of Argonne national Laboratory to design a sensor for tactile feedback in robotic surgery.

DANIEL MASS, M.D., continues as the Program Director for the Hand/Upper Extremity Fellowship at the University of Chicago. From November 25th through December 12th, 2009, Dr. Mass, along with his fellow, Dr. Farber, traveled to Lima, Peru through the auspices of Health Volunteers Overseas. Dr. Mass began teaching a well-received anatomy dissection course to一下年的夏季奥林匹克运动会, conference on the William Department of Anesthesia for residents and fellows as well as any interested attending physicians. He chaired “Doctors Demystify Upper Extremity Muscles and Tendons,” a well-attended course for occupational and physical therapists, and has been asked to chair this course again next year. Dr. Mass was instrumental in securing Dr. Chen Chongmin of Shenyang Orthopaedic Hospital in China as a Grand Rounds speaker for the Section of Orthopaedic Surgery. Despite his time spent in Peru, Dr. Mass still continues his busy practice. Dr. Mass was named in Chicago Magazine’s Top Doctors in 2010.

TERRANCE D. PEBBLY, M.D., continues his role as the Chief of the Section of Orthopaedic Surgery and Rehaabilita- tion Medicine. Dr. Pebbly was named the Second President-Elect of the AOA at the annual meeting in June 2010. On June 15, 2010, Dr. Pebbly was inducted into the Ring of Honor at Mater Dei High School, Santa Ana, California. The Ring honors members of the Mater Dei Community who have shown dedication to the values and mission of Mater Dei High School, while also having achieved local, state, national or international recognition through service or career. Dr. Pebbly was a Visiting Professor at Loyola University Department of Pediatrics Grand Rounds in April 2010. That same month, he was the Norman H. Rich, M.D., Distinguished Professor at Uniformed Services University of the Health Sciences in Bethesda, Maryland. Dr. Pebbly was the University of California, Irvine Resident Research and Graduation Invited Professor in June 2010. He presented numerous topics at the AOA’s annual meeting, including: “Tumors for the General Orthopedist: how to save your Patients and Your Practice—Evaluation of the Child with a Destructive Bone Lesion,” “Early Use of STAT in the Assessment of Procedural Competency” at the Council of Orthopaedic Residency Directors (CORD) meeting, and “Academic Orthopaedic Oncology” at the Musculoskeletal Tumor Society specialty day. In addition, Dr. Pebbly was moderator at the American Orthopaedic Association’s annual meeting in June for two symposia: “Resident Duty Work Hours—Who Are We Protecting??” and the meeting’s Chair Forum entitled “Chair Tenure: 10 Years or 10 with Your Boots On??”

BRUCE REIDER, M.D., continues to serve as the Editor-in-Chief of The American Journal of Sports Medicine. Dr. Reider presented “How to Report your Research and Get it Published?” at the combined meeting of the Argentine Arthroscopy Association, the Argentine Sports Medicine Society, and the Latin-American Society for Arthroscopy, Knee Surgery and Sports Medicine (SLARD) in Buenos Aires, Argentina. Dr. Reider serves on the Medical Publishing Board of Trustees and the Board of Directors for the AOSSM. Dr. Reider is also the leader of the University of Chicago Orthopaedic Journal Club.

MICHAEL A. SIMON, M.D., serves as the Associate Dean of Graduate Medical Education and Designated Institutional Offi- cier for the University of Chicago Medical Center. Dr. Simon provides historical perspective and mentors both faculty and residents in the Section of Orthopaedic Surgery and Rehabili- tation Medicine. He was named Treasurer of OmegaGA, a non-profit LLC for distributing industry-sponsored educational grants. Dr. Simon was a Visiting Professor at Columbia University, New York City in June 2010.

CHRISTOPHER SULLIVAN, M.D., was an integral part of the University of Chicago’s relief team sent to Haiti in February 2010. Dr. Sullivan continues his busy pediatric practice at the University and many off-site clinics. Dr. Sullivan reviews clinical articles for Clinical Orthopaedics and Related Research. Dr. Sullivan was selected as the 2010 Family Defender from the Family Defense Center, Chicago, Illinois. He is being honored for his heroic defense of the wrongly accused and his leadership in the medical profession in recognizing the importance of medical testimony on behalf of families. Dr. Sullivan has pro- vided compelling medical expert opinion on behalf of dozens of innocent families involved in DCFS and juvenile court proceed- ings, his work has helped to exonerate and reunite a number of families which the Family Defense Center represents.

BRIAN TOOLAN, M.D., continues as the Program Director for the Orthopaedic Surgery Residency Program at the Uni- versity of Chicago. In recognition of Dr. Toolan’s commitment to the University and his professional growth, he was promot- ed to Professor of Surgery last year. Dr. Toolan was named a member of the American Orthopaedic Foot and Ankle society Nominating Committee and was a member of the Evidence-Based Practice Task for 2009-2010. He is a member of CORD and was named to the Knowledge and Skills Subcommittee for 2009. Dr. Toolan was instrumental in obtaining a residen- cy enhancement grant for the Section this past year. He is a Diplomate of the American Board of Orthopaedic Surgery and served this past year as an Examiner for Part II of the Oral Certification Exam. Dr. Toolan has actively participated in the expansion efforts of the off-site clinical practice in Matteson, Illinois.
Rehabilitation Medicine

Reliable Medicine Physicians Work with other rehab professionals to restore or maximize each patient’s functional skills, self-sufficiency and mobility. That is why Physical Medicine & Rehabilitation is often thought of as the “quality of life” specialty, adding both life to years and years to life. Our physiatrists lead interdisciplinary teams that include nurses, physical therapists, occupational therapists, speech-language pathologists, case managers and others. These teams develop individualized treatment plans to address each patient’s rehab needs. Treatment plans also focus on the patient’s longer term functional goals once they’re home in the community.

At the University of Chicago, our Physical Medicine & Rehabilitation specialists are involved in many educational and clinical pursuits.

Michelle Gittler, M.D., is the Resident Program Director at Schwab Rehabilitation Hospital and Clinical Associate Professor at the University of Chicago. She also teaches annually at the Primary Care Orthopaedics Course. Dr. Gittler was recognized for the care she provides to patients and the community by being named a “Top Doctor” in the January 2010 issue of Chicago Magazine. This is the fourth time Dr. Gittler has received this recognition.

Mary Lawler, M.D., serves as advisor to Pritzker students who are interested in Physical Medicine and Rehabilitation (PM&R) as a specialty. Dr. Lawler has increased interest and availability in the field of PM&R at the University of Chicago with electives and sub-internships. Dr. Lawler also works with Drs. Sung-Lana Kim, Suzan Rayner (Medical Director, Schwab Rehabilitation Hospital) and Ed Park covering inpatient physiatry consultations at the University of Chicago.

Lisa Thornton, M.D., is President of the Medical Staff at Schwab Rehabilitation Hospital. Dr. Thornton is also the Chairman of the Advocacy Committee, American Academy of Cerebral Palsy and Developmental Medicine.

These doctors provide patient care on an inpatient and outpatient basis. They also participate in various teaching activities for Schwab’s fully accredited residency training program in Physical Medicine and Rehabilitation with the University of Chicago Pritzker School of Medicine.
Orthopaedic Surgery and Rehabilitation Medicine Housestaff

ORTHOPAEDIC SURGERY RESIDENTS

PGY-1

ERWIN BENNETT, M.D.
Undergraduate/Graduate
Santa Clara University/University of Chicago Pritzker School of Medicine

KEVIN HAROT, M.D.
Undergraduate/Graduate
University of Notre Dame/Indiana University School of Medicine

TYLER KRUMMENACHER, M.D.
Undergraduate/Graduate
University of Notre Dame/ St. Louis University School of Medicine

DEEPAK REDDY, M.D.
Undergraduate/Graduate
University of Michigan/Chicago Pritzker School of Medicine

CHRISTIAN SKJONG, M.D.
Undergraduate/Graduate
Carleton College/Chicago Pritzker School of Medicine

TIMOTHY VANDERBILT, M.D.
Undergraduate/Graduate
West Point/University of Chicago Pritzker School of Medicine

PGY-2

KASHIF ALI, M.D.
Undergraduate/Graduate
University of Michigan/Case Western Reserve University School of Medicine

JAMES CAMERON, M.D.
Undergraduate/Graduate
Purdue University/Emory University School of Medicine

MICHAEL CHIOFFE, M.D.
Undergraduate/Graduate
University of Florida/Chicago Pritzker School of Medicine

JAY DIEBEL, M.D.
Undergraduate/Graduate
University of Notre Dame/Loyola University Stritch School of Medicine

AMRISH PATEL, M.D.
Undergraduate/Graduate
Baylor University/Loyola University Stritch School of Medicine

PGY-3

REGINALD ALEXANDER, M.D.
Undergraduate/Graduate
Howard University/Howard University College of Medicine

PGY-4

MIKHAIL ANGELINE, M.D.
Undergraduate/Graduate
Brown University/Georgetown University School of Medicine

WAQAS HUSSAIN, M.D.
Undergraduate/Graduate
Augsburg College/Loyola University Stritch School of Medicine

ANDRE SPIEGEL, M.D.
Undergraduate/Graduate
University of Michigan/Chicago Pritzker School of Medicine

PGY-5

TESSA BALACH, M.D.
Undergraduate/Graduate
Howard University/Howard University College of Medicine

ERIN FLECK, M.D.
Undergraduate/Graduate
University of Washington, Seattle/Garretson University

JAIME RICE, M.D.
Undergraduate/Graduate
The Ohio State University/Case Western Reserve

DHARMESH YVAS, M.D.
Undergraduate/Graduate
University of Illinois/University of Illinois

ORTHOPAEDIC SURGERY FELLOWS

2010 GRADUATES

DAVID GREENBERG, M.D.
(Orthopaedic Oncology)
Assistant Professor, St. Louis University School of Medicine, St. Louis, MO

ANDREW FARBER, D.O.
(Hand and Upper Extremity)
Private practice at South Island Orthopaedic Group, Cedarhurst, NY

SUHEL KOTWAL, M.D.
(Adult Reconstruction)
Fellow, New York, NY

E. JEFFREY POPE, M.D.
(Sports Medicine)
Private practice at Keyed Orthopaedic Center, PC, New Jersey

YASSER FARID, M.D.
(Adult Reconstruction)
Private practice at Wee Memorial Hospital, Chicago, IL

2009-2010 ANNUAL REPORT
The Section of Orthopaedic Surgery and Rehabilitation Medicine continues to provide excellent educational opportunities for medical students, residents, and fellows.

**Basic Sciences Are Integrated Into the Educational Program at the Bedside, During Clinical Conferences and in a Very Concise, Meticulous, Well-Structured Didactic Curriculum.**

Basic sciences are integrated into the educational program at the bedside, during clinical conferences and in a very concise, meticulous, well-structured didactic curriculum. We have a conference room of more than 700 square feet which is dedicated to orthopaedic education. We have other resources including a computer-based audio visual system, orthopaedic library, a microscope slide projector and audio-visual material. The faculty participate in all of the didactic education.

The didactic program is designed to have a two-year repetitive sequence covering anatomy, bioengineering, biology and pathology. The Gerald Larue Memorial Library contains wall-to-wall custom bookcases, conference table and chairs, and two computer stations with internet access to published works. Adjacent to the library, a resident office space houses 14 workstations, x-ray view boxes and individual file space so that the residents can work and study during the day and evening hours. We moved the library and the resident offices closer to our academic offices and added the Suzanne Berman Orthopaedic Oncology Learning Center, which houses all the orthopaedic oncology files, radiographs, oncology database and the oncology fellow’s office.

The morning clinical conference schedule is consistent and thorough. Four times a week at 6:15 am, a clinical conference is scheduled and teleconferenced to Evanston and Glenbrook Hospitals. This is a monthly rotating conference on pediatric orthopaedics, trauma, basic science, morbidity and mortality, quality assurance, sports medicine, adult reconstruction, spine, and hand and upper extremity, and is administered by a faculty member. Once a week at 6:15 am, a faculty member administers an indications conference which discusses clinical decision making and surgical indications for musculoskeletal diseases. Finally, each service has its own clinical conference with residents and fellows who are rotating on the service. All resident education conferences are held at 6:15 am as to not to conflict with clinical affairs and ensure maximal attendance. Every weekday morning from 7:00 to 7:30 am, faculty members and residents meet in the conference room and the junior resident on-call presents the emergency room cases from the evening before.

This serves as quality control and an educational experience for residents. After the emergency room review, all faculty are required to present their operative cases for the day. They may be called upon to defend their cases. This requires that faculty members teach and explain their operative indications. Following the faculty presentation, residents show radiographs of patients who were operated on the day before, so that all individuals can see some of the technical results from the previous day’s surgery.

**Wednesday morning, following the didactic basic conference, Grand Rounds are held. Located in a metropolitan area with four other academic medical institutions, the program attracts a large number of outside speakers from other institutions to give presentations which help diversify the resident educational experience. In addition, Chicago is home to the American Academy of Orthopaedic Surgeons, the American Orthopaedic Association, The Accreditation Council on Graduate Medical Education, the American Medical Association, The American College of Surgeons, the American Association of Orthopedic Surgeons, the American Orthopaedic Association, The Accreditation Council on Graduate Medical Education, the American Medical Association, The American College of Surgeons, and the Orthopaedic Learning Center. Often, speakers are available from these organizations to provide insights and education.** Through these efforts, the Section of Orthopaedic Surgery and Rehabilitation Medicine continues to educate medical students, residents and fellows, fulfilling its mission of orthopaedic education.
## Weekly Conference Schedule

**The University of Chicago Section of Orthopaedic Surgery and Rehabilitation Medicine**

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Place</th>
<th>Description</th>
<th>Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>6:30–7:00 AM</td>
<td>E-302</td>
<td>OITE Review/Oral Evaluations</td>
<td></td>
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<tr>
<td></td>
<td>7:00–7:15 AM</td>
<td>E-302</td>
<td>AM Conference</td>
<td></td>
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<tr>
<td>Tuesday</td>
<td>6:15–7:00 AM</td>
<td>E-302</td>
<td>Clinical Conference</td>
<td>(See Below)</td>
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<td></td>
<td>7:00–7:15 AM</td>
<td>E-302</td>
<td>AM Conference</td>
<td></td>
</tr>
<tr>
<td>Wednesday</td>
<td>6:15–7:00 AM</td>
<td>E-302</td>
<td>Basic Science</td>
<td>(See Below)</td>
</tr>
<tr>
<td></td>
<td>7:00–7:20 AM</td>
<td>E-302</td>
<td>Chairman/Resident</td>
<td>Drs. Peabody/Toolan</td>
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<tr>
<td></td>
<td>7:20–7:30 AM</td>
<td>E-302</td>
<td>AM Conference</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7:30–8:15 AM</td>
<td>E-302</td>
<td>Grand Rounds</td>
<td></td>
</tr>
<tr>
<td>Thursday</td>
<td>6:15–7:00 AM</td>
<td>E-302</td>
<td>Indications</td>
<td>(See Below)</td>
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<tr>
<td></td>
<td>7:00–7:15 AM</td>
<td>E-302</td>
<td>AM Conference</td>
<td></td>
</tr>
<tr>
<td>Friday</td>
<td>6:15–7:00 AM</td>
<td>E-302</td>
<td>Clinical Conference</td>
<td>(See Below)</td>
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<tr>
<td></td>
<td>7:00–7:15 AM</td>
<td>E-302</td>
<td>AM Conference</td>
<td></td>
</tr>
</tbody>
</table>

**Daily AM Conference**
- Pre-Op & Post-Op Discussion: X-ray Review from Previous Day E.R. X-ray Review
- Monthly Conference: Journal Club Last Wednesday of each month—7:00 am—E-302
  - Ethics: One Wednesday quarterly—7:00 am
  - Basic Science Curriculum: July–Sept. Anatomy—Haydon
    - Sept.—Dec. Pathology—Simon/Peabody/Haydon/Luu
    - Jan.—June: Basic Science Curriculum
  - Indications Conference: (On a Rotating Basis)
    - 1ST WEEK: Trauma
    - 2ND WEEK: Adult Reconstruction
    - 3RD WEEK: Sports
    - 4TH WEEK: Hand
    - 5TH WEEK: Pediatrics
    - 6TH WEEK: Foot and Ankle
    - 7TH WEEK: Spine
  - Indications Conference: (On a Rotating Basis)
    - 1ST WEEK: Trauma—Peabody/Gupta/Toolan
    - 2ND WEEK: Sports—Reider/Ho/Leland
    - 3RD WEEK: Hand—Mass/Birnie
    - 4TH WEEK: Foot & Ankle—Toolan;
    - Spine—Gupta

**Weekly Basic Science Conference**
- July–Sept.: Anatomy—Haydon
- Sept.—Dec.: Pathology—Simon/Peabody/Haydon/Luu
- Jan.—June: Basic Science Curriculum

**Clinical Conferences**
- **TUESDAY**: Trauma—Peabody/Gupta/Toolan; Sports—Reider/Ho/Leland
- **Morbidity & Mortality**: Martell
- **Adult Reconstruction**: Martell/Manning/Luu
- **Pediatrics**: Sullivan/Bielski
  - **4TH WEEK**: Pediatrics—Sullivan/Bielski

**FRIDAY**:
- **1ST WEEK**: Hand—Mass/Birnie
- **2ND WEEK**: Adult Reconstruction—Manning/Luu
- **3RD WEEK**: Foot & Ankle—Toolan; Spine—Gupta
- **4TH WEEK**: Foot & Ankle—Toolan; Spine—Gupta
NorthShore University HealthSystem

THE PSYCHOMOTOR SKILLS + VIRTUAL REALITY LABORATORY

UNDER THE LEADERSHIP OF the Director of the Lab, Howard J. Swee- ney, MD, the Psychomotor Skills & Virtual Reality Laboratory at NorthShore Uni- versity HealthSystem provides a hands-on training ground for NorthShore ortho- paedic and general surgery residents and continuing education for surgeons in a realistic—but not real—operating environment. In this controlled setting, physicians become ambidextrous at ma- nipulating specially designed arthroscopic instruments, learn how to work in 3-di- mensional surgical fields while viewing 2-dimensional video pictures, develop a proficiency in hand-eye coordination and in tying intricate arthroscopic surgical knots, rehearse complex surgical tasks and techniques, and practice on cast mod- els for open surgery.

The 500 square foot Psychomotor Skills & Virtual Reality Laboratory, which opened in June 2006, is located in the Walgreen building of Evanston Hospital and features several practice stations. The lab is equipped with state-of-the-art computer simulators: the Minimally Invasive Surgical Train- er (MISiT) and the SimSurgery Education Platform (SEP) simulator. In October 2010 a third simulator was installed, “Insight ArthroVR” a product by GMV which focuses specifi- cally on arthroscopic surgical techniques for the shoulder and knee. The lab also includes sawbones workstations to prac- tice techniques for shoulder and knee surgery, a powerful Zeiss® surgical binocular microscope for visual magnification and a surgical knot- tying learning center. In addition, the lab hosts regular cadaver sessions to enforce skills learned during dry labs. Here, both novices and skilled orthopaedic surgeons can address the steep learning curve they encounter as they continually adapt to changes within their specialty.

The training curriculum offered at the Psychomotor Skills & Virtual Reality Laboratory encompasses the fundamen- tals of orthopaedic surgery, including a full range of surgical skills exercises and mock procedures using arthroscopic in- struments. Taught by clinical faculty from NorthShore University HealthSystem and University of Chicago, surgeons learn one-on-one and schedule practice sessions. Real-life case scenarios manifest a variety of conditions that physicians could encounter while caring for actual patients.

Courses at the Lab also are available to other healthcare profes- sionals, including surgical nursing staff and physician as- sistants, to learn orthopaedic anatomy and develop skills in handling new and technically difficult instruments and equip- ment. From this curriculum, caregivers practice basic tasks and complex techniques—and gain the critical confidence they need to transfer their skills directly to the challenging patient care environment.

Dr. Schon attended Union College and received his medical degree from Albany Medi- cal College, Albany, New York. Following internship at Mt. Sinai Medical Center in New York, he completed his orthopaedic surgery residency at the Hospital for Joint Diseases, also in New York City. Dr. Schon was an AO Scholar in Foot and Ankle Sur- gery with Sigvard Hansen, MD in Seattle, Washington and completed a Foot and Ankle Fellowship in Houston, Texas with Donald Baxter, MD and Thomas Clanton, MD. Dr. Schon is currently the Treasurer of the American Orthopaedic Foot & Ankle So- ciety (AOFAS). He is a frequent presenter at AOFAS educational programs and has served as a faculty member for many AOFAS courses.

ADVANCES IN THE TREATMENT OF FOOT AND ANKLE SPORTS INJURIES Dr. Lew Schon was the 15th Annual Gerald S. Laros Memorial Visiting Professor at the University of Chi- cago on Friday, April 9, 2010. Dr. Schon is Di- rector of Foot and Ankle Services and Direc- tor of the Foot and Ankle Fellowship at Union Memorial Hospital in Baltimore. He is an Assistant Professor of Orthopaedic Surgery at Johns Hopkins University and Clinical Associate Professor Orthopaedic Surgery at Georgetown University School of Medicine.
that can identify patients with total hips that are at risk for stress as a predictor variable in combination with patient forces and stress in normal and prosthetic hips. Using the joint software allows investigators to estimate the joint reaction forces, in conjunction with the skeletal age of the pelvis, have a role in this finding are: a wider female pelvis, causing the body weight momentum to be larger, smaller femoral offset in women and smaller femoral heads, which increases contact stress. Dr. Martell is also working with Dr. William Walters from Australia to investigate the biomechanics of ceramic total hip arthroplasty to identify factors leading to squeaking in ceramic total hip arthroplasty.

As an extension of the mechanical analysis software, Dr. Martell developed preoperative templating software which allows the surgeon to template pre-operatively using knowledge of the impact choices for stress and wear performance of the implanted prothetic hip joint. This identifies reconstructive options that put the patient at risk for high wear, and assists the surgeon in choosing prosthetic position and designs to minimize this significant complication. Another modification of the mechanical analysis software allows the estimation of shear forces in the capital femoral epiphysis that predispose to slipped capital femoral epiphysis in children. Those shear forces, in conjunction with the skeletal age of the pelvis, have a predictive value of 90% for the risk of SCFE.

Dr. Martell has partnered with Argonne National Laboratory, and has received $20,000 through the BIASProject initiative to fund a pilot project to develop a visual-tactile feedback system for use in minimally invasive robotic surgery. Preliminary testing of this video processing image analysis system has shown the capability to detect real-time surgery strain rates that are 100 times lower than the strain to failure. Work now continues on perfecting the video processing, including measuring strains in sutures from archived clinical videos.

**Polyethylene Wear Particle-Induced Osteolysis**

In addition to the bioimaging analysis of polyethylene wear in total hip arthroplasty, Drs. David Manning and Hsu H. Lu are interested in developing more effective therapeutic and/or preventive measures for the clinical management of osteolysis. Osteolysis and resultant aseptic loosening is the most common cause of long-term failure in total joint replacements and is estimated to occur in over 25% of implant recipients. Current strategies to combat osteolysis include modifications of the bearing surface to decrease particle generation and bio-logic and/or pharmaceutical treatments once osteolysis has occurred. Alternate bearings as of yet have not proven to be effective, and pharmaceutical interventions such as bisphosphonates, Fosamax and anti-inflammatories have, likewise, been unsuccessful thus far. Dr. Manning has recently completed an in vivo wear comparison study of highly crosslinked and traditional polyethylenes in total hip arthroplasty. In a combined effort with Argonne Nation Laboratory, Dr. Manning is investigating non-friction carbon coating (nFC) applications in total joint replacement. Preliminary investigation of tribologic and mechanical properties as well as bio-compatibility has been completed. The team has recently applied for NIH support for the development of this novel material.

In collaboration with Drs. Hsu H. Lui, Rex C. Haydon and T-C. He, Dr. Manning is investigating the potential use of several osteogenic BMPs as a biologic treatment of osteolysis-related bone loss. Successful non-operative treatment of osteolysis would improve implant survival, prevent many revision arthroplasties and simplify revision reconstruction techniques. Dr. Manning received the Louise Black Award to study the treatment of wear particle-induced osteolysis with the osteogenic BMPs in a murine model, and received the first Geraldine Mary Maley Research Award investigating this approach in a rat model.

**Tendon Repair**

On the biological front, Drs. Daniel Mass and Brian Toolan, in collaboration with Drs. T-C. He, Rex C. Haydon and Hsu H. Lui, are investigating possible gene therapy approaches to enhancing tendon and ligament healing using recombinant adenoviral vectors expressing BMPs and/or other biological factors. With funding from the Orthopaedic Research and Education Foundation (OREF), Drs. Mass, Toolan and colleagues have demonstrated that BMP-14 can significantly improve the biomechanical properties of lacerated flexor tendons in a rabbit model. Drs. Mass and Toolan and colleagues have also demonstrated that BMP-14 can significantly improve the biomechanical properties of lacerated flexor tendons in a rabbit model. Based on time-course studies of gene expression after tendon injury, Dr. Mass has identified several factors that may work alongside BMP-14 and BMP-14 at different stages of tendon healing. Dr. Mass is currently collaborating with Dr. Lu of the Department of Chemistry to develop bio-degradable nano-capsules that can be used for time-released delivery vehicle for bio-active proteins to sites of tendon injury. This delivery system will be used to test the effect of TGF-beta and BMP-14 on tendon healing in a rat model of Achilles tendon repair (J Hand Surg Am 30: 136-141).

Our mission is to inspire colleagues to create new knowledge, to communicate knowledge through medical education, and to provide superior and compassionate health care in a collegial atmosphere. Basic, clinical and translational research in Orthopaedic science is an integrated part of our graduate medical education. Thus, in addition to the clinical and educational commitments, our faculty is actively involved in a broad range of research on bone and musculoskeletal diseases, which has been highlighted in the following areas.

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**Research Activities**

**The Orthopaedic Biomedical Imaging Institute at Weiss Memorial Hospital in Affiliation with the University of Chicago**

As the Director of The Orthopaedic Biomedical Imaging Institute at Weiss Memorial Hospital in affiliation with the University of Chicago, Dr. John Martell continues to develop collaborations with implant manufacturers and individual investigators. Dr. Martell’s research has been funded by grants from The Harris Foundation, NIHNIAAMS, Smith & Nephew, Stryker, Biomet and Zimmer. The Orthopaedic Biomedical Imaging Institute is known nationally and internationally as a resource for the design and implementation of polyethylene wear studies and has been involved in the analysis of cross-linked polyethylene.

Dr. Martell accommodates requests from academic joint replacement programs to observe the techniques that are used in processing and analyzing films. The Orthopaedic Biomedical Imaging Institute has become a world-class resource for the analysis of polyethylene wear in total hip arthroplasty and has received $20,000 through the BIASProject initiative to fund a pilot project to develop a visual-tactile feedback system for
FOOT AND ANKLE RESEARCH

Dr. Brian Tooan has completed several clinical projects related to foot and ankle disorders. In the past, he studied the effects of acquired flatfoot deformity on tibial ostearthritis with increased pressure in a cadaveric model, and performed a follow-up study on the effects of UCBL orthotics and surgical techniques on joint contact characteristics in the same model. Both of those studies were published in Foot & Ankle International. He recently published a retrospective study in Foot & Ankle International comparing lateral column lengthening to a medial calcaneal osteotomy in the treatment of adult acquired flat foot. He is currently conducting a similar comparison in a prospective clinical study that is ongoing. Lastly, he is retrospectively evaluating the results of a new procedure for salvaging malunited ankle fractures with chronic syn- dromic disruption using a distal fibular arthrodesis and soft tissue reconstructions.

In addition to his interests on flatfoot deformity, Dr. Brian Tooan is interested developing a better understanding of ruptured Achilles tendon healing process and poten- tially developing new means in treating patients with this injury. Achilles tendon ruptures are common injuries and both surgical and non-surgical treatments have frequent complications such as wound dehiscence and re-rupture. Therefore, Dr. Tooan, in collaboration with Drs. He, Hayden and Lue, has used a rat model to investigate the effects of BMP-14 and other factors on Achilles tendon healing, finding a 70% increase in tenase strength at two weeks. This study was funded by a research grant to Dr. Tooan from American Orthopaedic Foot & Ankle Society, and was published in the Journal of Bone and Joint Surgery.

SPINE RESEARCH

Dr. Purnendu Gupta has been involved in numerous clinical and translational projects regarding spine-related patholo- gies. In the cervical spine, he has previously investigated stat- ic versus dynamic plating techniques for multi-level ACFD and has presented his results at the North American Spine Society Annual Meeting and American Academy of Orthopaedic Surgeons Annual Meeting. This project was published in Spine in 2007. He has also been reviewing clinical and radiographic results after laminoplasty for multi-level cervical spi- nal stenosis. In the lumbar spine, Dr. Gupta has been involved in collaborative investigations examining a percutaneously inserted pedicle screw-cod system following anterior lumbar arthrodesis as well as biomechanical modeling of functional instrumentation and the prediction of spine loading. He has ongoing long-term prospective clinical outcomes research in the surgical treatment of adult and pediatric scoliosis. He is also currently working on a surgical technique for the treatment of pediatric spondylolisthesis, and is reviewing his clinical results using rhBMPs for treatment of pars fractures (Spine J 3: 2568-2568).

FOOT AND ANKLE RESEARCH

ARTICULAR CARTILAGE REGENERATION AND ANTERIOR CRUCIATE LIGAMENT REPAIR

The Sports Medicine Service, consisting of Drs. Sherwin Ho, Martin Leland and Bruce Reider, has been intensively investigating the biological processes in articular carti- lage regeneration, anterior cruciate liga- ment repair and rotator cuff tear repair. Ar- ticular cartilage has little intrinsic capacity to repair itself after injury, prompting many researchers to explore new methods to facilitate and augment cartilage regeneration. Currently, a variety of approaches have been developed, including chondroplasty, osteochondral transfer procedures (autologous and allograft procedure), microfracture and autologous cultured chondro- cyte implant (ACI). Each of these techniques is useful when utilized in appropriate conditions; however, a significant co- hort of patients still fail to achieve good to excellent results even when surgical, pharmacologic and physical therapy are optimal by current standards. These clinical failures suggest that new biologic strategies, including gene therapy, may be a useful adjunct to current treatments to further improve clini- cal outcomes.

Drs. Sherwin Ho, Martin Leland, and Bruce Reider are in- vestigating the possible use of Sox9 and/or other biofactors to facilitate articular cartilage regeneration. Previously, Drs. T.C. He and Rex Hayden successfully transduced interver- tebral disc cells with Sox9, a transcription factor necessary for chondrogenesis and Type II collagen synthesis. They observed that human degenerative intervertebral disc cells transduced with Sox9 genes led to chondrocyte proliferation with increased production of Type II collagen (Spine 28: 755- 763). Currently, Drs. Ho, Leland and Reider are investigating whether exogenous expression of Sox9 in articular cartilage cells or in mesenchymal stem cells will augment articular repair in a rabbit model. Dr. Ho has received the AOSSM Young Investigator Award to carry out the Sox9 gene therapy for articular cartilage repair. This research has included experiments comparing different man-made scaffold that can be used to implant these genetically altered cartilage cells back into the host knee defects. In addition, Drs. Ho, Leland and Hayden are investigating the potential use of BMP-13 and/or PRP (platelet-rich plasma) for rotator cuff tears using a rat model, as possible treatment options for patellar tendinitis, and a unique approach to rehabilitation following ACL reconstruction.

The Sports Medicine Service has developed a surgical skills laboratory for medical students, residents, and fellows to develop their arthroscopic and minimally-invasive surgical skills using a state-of-the-art virtual reality arthroscopy simulator (MIST) developed by the Spanish aerospace company GMV, based in Madrid, as well as with cadavers. Such virtual and simu- lated surgery represents important new educational tools for training medical students, residents and fellows. A study to quantitate the learning of these skills was presented at the Arthroscopy Association of North America’s Annual Meeting in San Francisco this year, as well as at the Mid-America Or- thoopaedic Society’s Annual Meeting in Marco Island, Florida and has been submitted for publication.

OSTEO SARCOMA IS A “DISEASE OF DIFFERENTIATION”

Under the direction of T.C. He, M.D., Ph.D. and Rex C. Hay- don, M.D., Ph.D., and Hue H. Lue, M.D. the Molecular Oncology Laboratory has focused on the molecular aspects of bone and soft tissue tumors through collaborations with Drs. Mi- chael A. Simon, Terrance Peabody and Anthony Montag. They previously found that β-catenin signaling is activated in ap- proximately 70% of human osteosarcoma samples, suggesting that deregulation of β-catenin may play a role in the develop- ment of human osteosarcoma. More recently, they have found that STL1-51/Gleevec effectively inhibits β-catenin signaling in human colon cancer cells, as well as in human osteosarcoma and chondrosarcoma cells. Their findings suggest that inhibition of this signaling pathway by STL1-51 may be further explored as an important target for adjuvant treatments for human cancer (Cancer Letters 193: 161-170). Dr. Hue H. Lue also investigated the possible role of B100 proteins in human osteosarcoma. Dr. Lue recently examined the expression of the S100A6 in human osteosarcoma, and found that approximately 84% (42 of 50) of the analyzed osteosarcoma specimens stained positive for S100A6. Thus, their findings suggest that S100A6 may be associated with the pathogenesis of osteosarcoma (Interna- tional Journal of Cancer 102:338-342, Clin Orthop Relat Res 466: 2960-2970, and Cancer Letters 229: 135-148).

Drs. Hayden, Lue and He examined the impact of ostogenic BMPs on osteosarcoma. In mesenchymal stem cells, BMP- 2 and BMP-9 induce osteogenic differentiation; however, in osteosarcoma cell lines, they induce increased cell prolifera- tion, without any evidence of bone formation. BMPs are com- monly expressed in osteosarcoma, and have been associated with a poorer prognosis, suggesting that blocks to normal BMP-induced differentiation must exist. Downstream targets of the osteogenic BMPs include several key inhibitors of dif- ferentiation that are commonly expressed in human tumors. Their preliminary studies strongly suggest that osteosarcoma may represent a “disease of differentiation,” possibly caused by the defects in the terminal differentiation pathway of pre-osteoblast and/or osteoblasts (Laboratory Investigation 88:1264-1277). Clinical Orthopaedics and Related Research 466: 2114-2130, Clinical Orthopaedics and Related Research
Molecular Mechanisms of BMP-Regulated Osteogenesis in Mesenchymal Stem Cells: From their gene expression microarray analysis, the He and Hayden lab identified several potentially signaling mediators of BMP-induced osteogenesis. Several such downstream targets are the Inhibitors of DNA binding/Differentiation helix-loop-helix (i.e., Id proteins), Connective Tissue Growth Factor (cTGF), and Hey1, which are known to play important roles in regulating cell proliferation and differentiation, as well as in tumorigenesis. Their studies thus far have demonstrated that both Ids and cTGF play an important role in BMP-9-induced osteogenic signaling (Journal of Biological Chemistry 279: 32941-32949; Journal of Biological Chemistry 279: 59595-59608; and Journal of Biological Chemistry 284: 649-659).

ROlE OF Wnt/β-CaTEnI n SigNa lInG In OsTeogeneSiS DIFFERENTIATION OF MESEnChYMAl sTEm CELLS: The He, Hayden and Luu group previously demonstrated that Wnt/beta-catenin signaling is de-regulated in over 70% of human osteosarcomas. Recent studies also suggest that Wnt signaling may play an important role in regulating bone density, and one of the Wnt signaling antagonists Dkk1 may be implicated in the development of osteolytic lesion in multiple myeloma patients. The He, Hayden, and Luu group have demonstrated that normal Wnt/β-catenin signaling is required for BMP-9 signaling in M schools (Journal of Cellular and Molecular Medicine 13:2448-2464). They have completed a microarray analysis on the genes regulated by Wnt3a in mesenchymal stem cells, and found that CTGF is also highly regulated by Wnt. They have recently finished a study in which they demonstrated that CTGF is a mutual target of Wnt and BMP-9 and plays an important role in regulating osteogenic differentiation (Journal of Biological Chemistry 279: 59595-59608; Molecular and Cellular Biology 26: 2855-2864). The above research activities in Drs. He, Hayden and Luu’s lab have been supported by research grants from The Air cast Foundation, The American Cancer Society, The Brinsen Foundation, Musculoskeletal Transplant Foundation and the Orthopaedic Research and Education Foundation (OREF). Both Drs. Rex C. Hayden and Hue H. Luu have received sup port from OREF and a Physician Scientist Career K08 Grants from the National Institutes of Health (NIH) to investigate the molecular mechanisms behind osteogenic BMP-mediated bone formation. The collective body of research from this laboratory on the role of BMPs during mesenchymal stem cell differentiation was recognized by receiving the Kappa Delta/OREF Ann Donner Vaughan Award and the Marshall R. Urist Young Investigator Award.
**Publications**

**T. C. Haydon, M.D., Ph.D.**


**EXECTIONS OF THE DUAL ROLES OF bMPs**

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ORTHOPEDIC INOLOGY FELLOWSHIP AT THE
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Jasmin Rice
ORTHOPEDIC PEDICIAN FELLOWSHIP UNDER THE
DIRECTION OF TONY HERRING, M.D. AT TEXAS SCOTTISH RITE/DALLAS

Terri Balasch
ADULT RECONSTRUCTIVE SURGERY FELLOWSHIP UNDER THE DIRECTION OF MARK SPANGEL, M.D., AT MAYO CLINIC IN SCOTTSDALE, AZ

TERRANCE D. PEABODY, MD

Next Year’s Aaos Meeting Is Being Held In San Diego, California. The University of Chicago’s Alumni Reception Will Be Held At The Hilton San Diego Gaslamp Quarter Pacific Room From 6:30 To 8:30 PM On Friday, February 18, 2011. I Look Forward To Seeing You At The Annual Meeting In February.

Sincerely,

TERRANCE D. PEABODY, MD

Alumni

CLASS OF JUNE 2010

The Group Enjoyed A Competitive Game of Paintball At This Year’s Faculty/Resident Event

The University Of Chicago’s Alumni Reception Will Be Held At The Hilton San Diego Gaslamp Quarter Pacific Room From 6:30 To 8:30 PM On Friday, February 18, 2011. I Look Forward To Seeing You At The Annual Meeting In February.

Sincerely,

TERRANCE D. PEABODY, MD
H. RANDAL WOODWARD, M.D.
GRADUATE 1978
NEBRASKA SPINE CENTER, LLP
OMAHA, NEBRASKA

Dr. Woodward attended Northwestern Medical School in Chicago. He served his residency at the University of Chicago and his fellowship training was in spine surgery at the University of Rochester. Dr. Woodward moved to Nebraska in 1979 to begin private practice. He is one of the original partners in what is now known as the Nebraska Spine Center.

Of note, Dr. Woodward earned his way through college and medical school by fighting forest fires as a smoke jumper. He is married and has four children.

EUGENE P. LOPEZ, M.D.
GRADUATE 1990
MIDWEST SPORTS MEDICINE
ELK GROVE VILLAGE, ILLINOIS

Dr. Lopez attended Medical School at the University of Illinois, Chicago. He served his residency at the University of Chicago. Dr. Lopez has provided care to sport legends Walter Payton, Dennis McKinnon and Ed O’Bradovich along with PGA tour professionals. Dr. Lopez is on the staff of Shriners Hospital for Children in Oak Park, Illinois where he volunteers his arthroscopic reconstruction services to children in need.

DAVID T. RISPLER, M.D.
GRADUATE 1993
RIVER VALLEY ORTHOPAEDICS
GRAND RAPIDS, MICHIGAN

Dr. Rispler received his M.D. from the University of Miami. He served his residency at the University of Chicago followed by a fellowship in joint replacement at Harvard Medical School. Dr. Rispler is originally from New York. He has been with River Valley Orthopaedics since 2005. He is currently the Program Director for the Orthopaedic Surgery Residency Program at Grand Rapids Medical Education Partners and an active member of the Council of Orthopaedic Residency Directors. Dr. Rispler is married and has three children.

The Michael Kalnitz Sarcoma Research Fund

MICHAEL KALNITZ WAS ONLY 46 YEARS OLD WHEN HE WAS TAKEN FROM HIS LOVING FAMILY. MICHAEL WAS A PARTNER OF R.S. ANDERSON CO., CHICAGO AND A REGIONAL SALES MANAGER OF KOCH FOODS IN PARK RIDGE. HIS FAMILY ESTABLISHED THIS FUND IN HIS MEMORY.

THE RESPONSE TO MICHAEL’S FUND HAS BEEN TREMENDOUS AND REFLECTS THE LOVE THAT PEOPLE HAD FOR NOT ONLY MICHAEL, BUT HIS FAMILY. MICHAEL WAS AN INSPIRATION TO THOSE OF US WHO HAD THE PRIVILEGE OF KNOWING HIM. WHILE NOTHING CAN EVER COMPENSATE FOR HIS LOSS, THE GIFTS MADE IN HIS MEMORY ALLOW US TO CONTINUE RESEARCH AT THE UNIVERSITY OF CHICAGO THAT WILL HOPEFULLY ONE DAY RESULT IN A CURE FOR FUTURE PATIENTS.

TERRANCE D. PEBODY, M.D.