



# 2014/15 VISITING PROFESSOR LECTURE SERIES



Distinguished Research  
and Honorary Service Lectures

HOSPITAL  
FOR  
SPECIAL  
SURGERY

# ABOUT THE



## **Hospital for Special Surgery's Visiting Professor**

### **Lecture Series** presents both Distinguished Research

Lectures and Honorary Service Lectures in an annual series of coordinated presentations. Since 1968, this series has showcased lectures by renowned visiting faculty who are nationally and internationally recognized for their expertise in our field. This year, the series continues to offer an impressive schedule of outstanding medical faculty who will present on timely topics.

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### **Location/Dates/Time**

Hospital for Special Surgery  
Richard L. Menschel Education Center  
2<sup>nd</sup> Floor  
535 East 70th Street, New York City

**Lectures are on select Fridays  
from 7:15-8:15 am.**

### **Overview**

The field of musculoskeletal medicine is highly dynamic and rapidly changing. Research findings are resulting in new techniques and clinical guidelines. Orthopaedic surgeons and clinicians are expected to keep abreast of these advances in order to achieve optimal clinical practice and patient care.

The Visiting Professor Lecture Series is designed to augment both the basic science and applied clinical practice knowledge and competence of our attending physicians. Information presented in these lectures focuses on both musculoskeletal research and related clinical science perspectives.

### **Learning Objectives**

Hospital for Special Surgery CME activities are intended to lead to better patient care and safety. At the conclusion of each lecture, participants will be able to:

- Describe current research findings in musculoskeletal medicine and discuss the potential implications for clinical practice.
- Discuss and implement new standards and techniques in their practice of musculoskeletal medicine.

### **Target Audience**

Attending physicians, scientists, residents, fellows and associated healthcare professionals

### **Accreditation**



Hospital for Special Surgery is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

# SERIES

## Credit Designation

Hospital for Special Surgery designates this live activity for a maximum of 15 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Each lecture is designated for a maximum of 1 *AMA PRA Category 1 Credit™*.

## Financial Disclosure

In accordance with the Accreditation Council for Continuing Medical Education's Standards for Commercial Support, all CME providers are required to disclose to the activity audience the relevant financial relationships of the activity directors, planning committee members, presenters, authors and staff involved in the development of CME content. An individual has a relevant financial relationship if he or she has a financial relationship in any amount occurring in the last 12 months with a commercial interest whose products or services are discussed in the CME activity content over which the individual has control.

It is the policy of Hospital for Special Surgery to request **all** financial relationships that activity directors, planning committee members, presenters, authors and staff have with commercial interests, but to disclose to the activity audience only the **relevant** financial relationships.



## Special Needs

Hospital for Special Surgery is accessible for individuals with disabilities or special needs. Participants with special needs are requested to contact the Office of Continuing Medical Education at 212.606.1057.

## Activity Director

### Todd J. Albert, MD

Surgeon-in-Chief and Medical Director  
Korein-Wilson Professor of  
Orthopaedic Surgery  
Weill Cornell Medical College  
Hospital for Special Surgery

## Curriculum Advisor for Distinguished Research Lectures

### Steven R. Goldring, MD

Chief Scientific Officer  
Hospital for Special Surgery  
Professor of Medicine  
Weill Cornell Medical College

## ALSO AVAILABLE ONLINE!

Select lectures are also available at [www.hss.edu/eAcademy](http://www.hss.edu/eAcademy) for CME credit. Go to [www.hss.edu/cme](http://www.hss.edu/cme) for a complete schedule of live and online CME activities.



## INTERNATIONALLY RECOGNIZED EXPERTS

Our VISITING PROFESSOR LECTURE SERIES features internationally recognized experts in the field of musculoskeletal health. Each lecture is free and open to interested professionals. If you are located or traveling in the New York metropolitan area, we invite you to join us.

# FALL 2014

LECTURES ARE ON SELECT FRIDAYS FROM 7:15-8:15 AM. SEVERAL LECTURES ARE NOW AVAILABLE ONLINE AT [WWW.HSS.EDU/eACADEMY](http://WWW.HSS.EDU/eACADEMY).

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## SEPTEMBER 19

Gregory E. Lutz, MD,  
Honorary Lecture in  
Physiatry

### **Sports Concussion: From Guidelines to Clinics to Advocacy**

**STUART M.  
WEINSTEIN, MD**

Professor, Departments of  
Rehabilitation Medicine,  
Orthopaedics & Sports  
Medicine and  
Neurological Surgery  
Harborview Medical Center  
Seattle, Washington

## OCTOBER 3

Leon Root, MD,  
Honorary Lecture in  
Pediatric Orthopaedics

### **Surgeons are Human: Surgeon Decision-making in the Era of Evidence- based Medicine**

**JAMES G. WRIGHT, MD,  
MPH, FRCS**

Chief of Perioperative  
Services  
Surgeon-in-Chief  
Department of Surgery  
The Hospital for Sick  
Children  
Toronto, Ontario, Canada

## NOVEMBER 7

Rose Honorary Lecture  
in Foot and Ankle

### **The Seattle Story of the IM Nail**

**BRUCE J.  
SANGEORZAN, MD**

Chief of Orthopaedics  
Sigvard T. Hansen Jr. Foot  
and Ankle Institute  
Chief, Orthopaedics  
Service  
Harborview Medical Center  
Professor, Department of  
Orthopaedics and Sports  
Medicine  
University of Washington  
Seattle, Washington

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## DECEMBER 12

Peter G. Bullough, MD, Honorary Lecture in Pathology

### **Pathological Overview of Common Disorders of Musculoskeletal Supporting Tissues: An Explanation for Most of Your Aches and Pains**

**SALLY FIONA MARY BONAR, MB BCH, BAO,  
DCH, D OBS, MRCPI, FRC, FFOP FRCPA**

Senior Specialist in Anatomical Pathology  
Douglass Hanly Moir Pathology  
Honorary Consultant in Orthopaedic  
Pathology

Royal Prince Alfred Hospital  
Adjunct Professor of Pathology  
School of Medicine, Notre Dame University  
Curator, New South Wales Bone  
Tumour Registry  
Sydney, Australia

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# WINTER/SPR

LECTURES ARE ON SELECT FRIDAYS FROM 7:15-8:15 AM. SEVERAL LECTURES ARE NOW AVAILABLE ONLINE AT [WWW.HSS.EDU/eACADEMY](http://WWW.HSS.EDU/eACADEMY).

## JANUARY 9

Fourth Annual  
Visiting Professor in  
Anesthesiology

### **The Perioperative Surgical Home: Good Politics or Good Medicine?**

**JOHN F.  
BUTTERWORTH IV, MD**  
Professor and Chair of  
Anesthesiology  
Virginia Commonwealth  
University School of  
Medicine  
Richmond, Virginia

## JANUARY 30

Bonnie Reichman,  
MD, Honorary Lecture  
in Limb Lengthening  
and Complex  
Reconstruction Service

### **Basic Science and Clinical Applications in Limb Lengthening and Reconstruction**

**REGGIE HAMDY, MB, CHB,  
MSC, FRCSC**  
Chief of Staff  
Director, Division of Pediatric  
Orthopaedic Surgery  
Professor, Department of  
Surgery  
McGill University  
Montreal, Canada

## FEBRUARY 13

Distinguished Research  
Lecture

### **WNT Signaling in Bone Cell Mechanotransduction**

**ALEX G. ROBLING, PHD**  
Professor, Department of  
Anatomy & Cell Biology and  
Professor, Department of  
Biomedical Engineering  
Senior Research Scientist  
Veterans Affairs Medical  
Center  
Indiana University School of  
Medicine  
Indianapolis, Indiana



## MARCH 13

Distinguished Research Lecture

### **Regulation of Tendon Growth and Maturation**

**RONEN SCHWEITZER, MD**  
Associate Professor  
Shriners Hospital – Research  
Department of Cell and Developmental Biology  
Oregon Health and Science University  
Portland, Oregon

# ING 2015

**APRIL 3**

Philip D. Wilson Jr., MD,  
Honorary Lecture in  
Arthroplasty

**A Systematic  
Approach to Revision  
Total Hip Arthroplasty**

**WAYNE G.  
PAPROSKY, MD, FACS**  
Professor  
Rush University Medical  
Center  
Chicago, Illinois  
Co-Director  
Joint Institute at Cadence  
Health  
Winfield, Illinois



**APRIL 10**

Distinguished Research  
Lecture

**Epigenetic Landscape  
of Rheumatoid  
Arthritis: New Ways  
to Discover Novel  
Therapies**

**GARY S. FIRESTEIN, MD**  
Professor of Medicine  
Dean and Associate Vice  
Chancellor for Translational  
Medicine  
Director, Clinical and Trans-  
lational Research Institute  
UC San Diego Health  
Sciences  
La Jolla, California

**APRIL 17**

John L. Marshall, MD,  
Honorary Lecture in  
Sports Medicine

**The Throwing Athlete**

**JAMES P. BRADLEY, MD**  
Clinical Professor of  
Orthopaedics  
University of Pittsburgh  
Medical Center  
Pittsburgh, Pennsylvania


**MAY 1**

Lee Ramsay Straub,  
MD, Honorary Lecture  
in Hand Surgery

**Intercepting the  
Inflammatory  
Response to Surgery**

**SHAWN W.  
O'DRISCOLL, MD, PHD**  
Consultant in Orthopaedic  
Surgery  
Professor of Orthopaedics  
Department of Orthopaedic  
Surgery  
Mayo Clinic  
Rochester, Minnesota

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 **GOTO** [www.hss.edu/cme](http://www.hss.edu/cme) for a complete schedule of live and online CME activities.

# SPRING 2015

LECTURES ARE ON SELECT FRIDAYS FROM 7:15-8:15 AM. SEVERAL LECTURES ARE NOW AVAILABLE ONLINE AT [WWW.HSS.EDU/eACADEMY](http://WWW.HSS.EDU/eACADEMY).

## MAY 8

William R. Salomon  
Honorary Lecture in  
Spinal Disease

### Management of Cervical Spine Deformity

**BRADFORD L.  
CURRIER, MD**

Consultant, Division of  
Orthopaedic Spine Surgery  
Professor of Orthopaedics  
Mayo Clinic  
Rochester, Minnesota

## MAY 22

Robert H. Freiberger,  
MD, Honorary Lecture  
in Musculoskeletal  
Radiology

### What Can Radiology Contribute to the Advancement of Clinical Medicine?

**JÜERG**

**HODLER, MD, MBA**

Chairman and Professor of  
Radiology  
University Hospital of Zurich  
Zurich, Switzerland

## JUNE 5

David B. Levine, MD,  
Honorary Lecture in  
Spinal Deformity

### Early Onset Scoliosis: Past Present and Future

**MICHAEL G. VITALE, MD,  
MPH**

Ana Lucia Professor of  
Clinical Orthopaedic  
Surgery, Columbia  
University  
Attending Orthopaedic  
Surgeon  
Morgan Stanley Children's  
Hospital  
of New York  
Associate Chief  
Division of Pediatric  
Orthopaedics  
Department of Orthopaedic  
Surgery  
Chief, Pediatric Spine  
and Scoliosis Surgery,  
Department of Orthopaedic  
Surgery  
New York, New York

## NOW AVAILABLE ONLINE

- **Measuring Treatment Outcomes for Spinal Conditions**
- **TKA: Always Confident, Sometimes Right?**
- **Femoral Nerve Blockade for Total Joint Replacement: Balancing Pain Relief with Rehabilitation**
- **Open and Arthroscopic Treatment of Tennis Elbow**
- **Pseudonecrotic Lesions of Bone: When Necrosis is not Osteonecrosis**
- **More Topics Online**



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### The Submaximal Heart and Pulmonary Evaluation: A New Paradigm to Identify Pulmonary Hypertension in Patients with

Heart Failure  
Linda B. Stettin, MD, PhD, and Jeffrey M. Speck, MD  
Heart Failure Research Center, Johns Hopkins University School of Medicine

**Background**  
Pulmonary hypertension (PH) is a leading cause of morbidity and mortality in patients with heart failure (HF). The current gold standard for the diagnosis of PH is right heart catheterization (RHC), which is an invasive procedure with associated risks. Noninvasive methods for the diagnosis of PH are needed.

**Study Design**  
A prospective, observational study of 100 patients with HF who underwent RHC and echocardiography. The study aimed to identify noninvasive markers for PH.

**Results**  
The study identified several noninvasive markers for PH, including elevated right atrial pressure and tricuspid regurgitation. These markers were associated with PH as determined by RHC.

**Conclusions**  
Noninvasive markers for PH can be used to identify patients who may benefit from RHC. Further studies are needed to validate these markers.

### The Role of Wnt Age-Related Impair

Maria Elena, PhD, Roberto de la Cruz, PhD, and  
Antonio L. Garcia, PhD, MD, PhD, University of Valencia

**Background**  
Wnt signaling is a key pathway in development and cancer. It is involved in cell proliferation and differentiation. In aging, Wnt signaling is impaired, leading to age-related changes in gene expression.

**Study Design**  
A study of Wnt signaling in aging cells. The study used reporter assays and gene expression analysis to investigate the role of Wnt signaling in aging.

**Results**  
The study found that Wnt signaling is impaired in aging cells, leading to changes in gene expression. These changes are associated with age-related phenotypes.

**Conclusions**  
Wnt signaling is a key pathway in aging. Impaired Wnt signaling leads to age-related changes in gene expression and phenotypes.

### Profiling Molecular Pathways in Mechanically Induced A Microarray Study

Benjamin M. Brackley, PhD, and  
Robert M. Waymouth, PhD, Stanford University

**Background**  
Mechanical forces play a key role in cell signaling and gene expression. Microarrays can be used to profile gene expression in response to mechanical forces.

**Study Design**  
A microarray study of gene expression in response to mechanical forces. The study used a microarray platform to profile gene expression in response to mechanical forces.

**Results**  
The study identified several genes that are upregulated in response to mechanical forces. These genes are involved in cell signaling and gene expression.

**Conclusions**  
Mechanical forces play a key role in gene expression. Microarrays can be used to profile gene expression in response to mechanical forces.

**HSS Education & Academic Affairs**  
Programs Promoting Musculoskeletal Health  
[www.hss.edu/cme](http://www.hss.edu/cme)

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