

SYMPOSIUM AGENDA

Studies of How Bones Mineralize and the Clinical Impact of These Studies

- 2:00p **Welcome**
Steven R. Goldring, MD
Louis A. Shapiro
Thomas P. Sculco, MD
Barbara Boyan, PhD
- 2:10p **Bone Mineral: What it is and Why We Study it**
Adele Boskey, PhD
- 2:30p **The Role of the Cell in the Mineralization Process**
Barbara Boyan, PhD
- 2:50p **Genetic Disorders of Bone Formation and Homeostasis**
Matthew L. Warman, MD
- 3:10p **Collagen as a Determinant of Bone Properties**
Eve Donnelly, PhD
- 3:30p **Noncollagenous Proteins as Regulators**
Marian Young, PhD
- 3:50p **Proteoglycans as Regulators: Role in Tissue Engineering**
Rhima Coleman, PhD
- 4:10p **Skeletal Mineralization and Bone Mechanical Properties**
Marjolein van der Meulen, PhD
- 4:30p **Reception**

SYMPOSIUM FACULTY

Barbara Boyan, PhD

Dean, School of Engineering
Virginia Commonwealth University

Rhima Coleman, PhD

Assistant Professor
Department of Biomedical Engineering
University of Michigan

Eve Donnelly, PhD

Assistant Professor
Materials Science and Engineering
Dale R. Corson Sesquicentennial Faculty Fellow
Cornell University

Steven R. Goldring, MD

Richard L. Menschel Research Chair
Hospital for Special Surgery
Professor of Medicine
Weill Cornell Medical College

Thomas P. Sculco, MD

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

Louis A. Shapiro

President and CEO
Hospital for Special Surgery

Marjolein van der Meulen, PhD

Swanson Professor of Biomedical Engineering
Sibley School of Mechanical & Aerospace Engineering
Associate Dean of Research and Graduate Studies
College of Engineering
Cornell University

Matthew L. Warman, MD

Investigator, Howard Hughes Medical Institute
Director, Orthopaedics Research Laboratories
Boston Children's Hospital
Professor of Genetics and Orthopaedic Surgery
Harvard Medical School

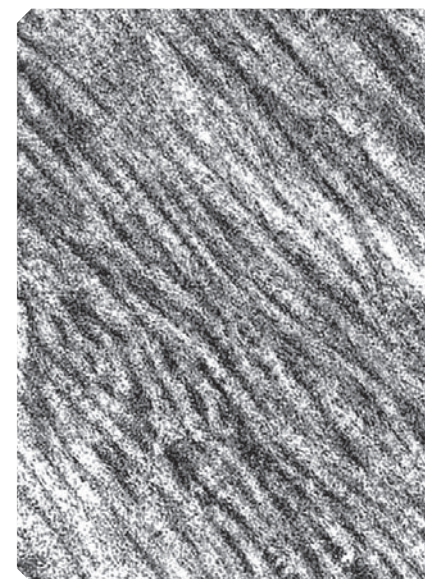
Marian Young, PhD

Senior Investigator and Research Biologist
Chief, Molecular Biology of Bones & Teeth Section
National Institutes of Health/NIDCR

150
YEARS

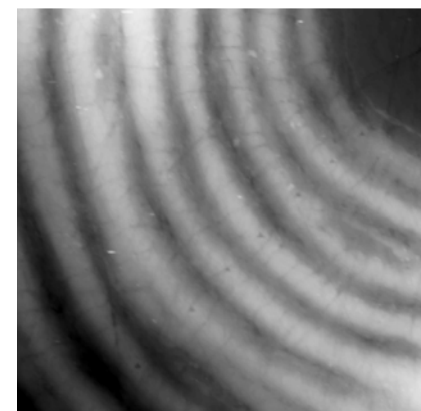


HOSPITAL FOR
SPECIAL SURGERY



Adele Boskey, PhD

SYMPOSIUM ON MINERALIZED TISSUES



Thursday, May 2, 2013
2:00 – 4:30PM

WELCOME

As Hospital for Special Surgery (HSS) celebrates its 150th anniversary, we are pleased to recognize one of our own with a special symposium, *The Adele Boskey, PhD, Symposium on Mineralized Tissues*, honoring Adele Boskey and her many contributions to HSS as a research scientist, educator and role model.

Dr. Boskey, who served as Director of Research at HSS from October 1993 to June 2002, has devoted her professional career to the study of the mechanism of Biologic Mineralization. Her pioneering work in the application of technologies to define the composition, structure and functional properties of bone and related mineralized tissues has played a critical role in the establishment and success of the present research programs at HSS. Among her most outstanding accomplishments has been the mentoring and development of the careers of new investigators.

In collaboration with Dr. Boskey, we have prepared an outstanding program that will include presentations by scientists who have worked with her and have made important contributions to the field of mineralized tissue research.

We look forward to your participation in the symposium.

Sincerely,



Thomas P. Sculco, MD
Surgeon-in-Chief



Steven R. Goldring, MD
Richard L. Menschel
Research Chair

Adele Ludin Boskey, PhD



RESEARCH FOCUS

Dr. Boskey is a physical chemist who has devoted her professional career to study the mechanism of Biologic Mineralization, with specific emphasis on the roles of phospholipids, noncollagenous proteins and collagen on bone and tooth formation. She has pioneered the application of infrared micro-spectroscopy and imaging for study of biomineralization, and most recently for the study of compositional changes in osteoporotic bones prior to and after therapy.

MAJOR ACCOMPLISHMENTS

Dr. Boskey's investigations have been constantly funded by NIH since the start of her career. She has served on various NIH Study Sections, Advisory Groups, Gold Ribbon Panels and Councils for the past 40 years. She was the first woman to be President of the Orthopaedic Research Society (1996-97) and went on to co-found the Women's Leadership Forum which now assists other women in attaining leadership positions. She is a Professor of Biochemistry at Weill Medical College of Cornell University, a Professor of Physiology, Biophysics and Systems Biology at the Weill Graduate School of Medical Sciences, a Professor in the Field of Biomedical Engineering at Cornell University, and an Adjunct Professor of Biomedical Engineering at the City College of New York. Dr. Boskey was Director of Research at the Hospital for Special Surgery from October 1993 to June 2002. She has more than 360 peer reviewed publications in her fields of expertise and holds two U.S. patents. Her proudest accomplishments are the new investigators she mentored throughout her career.

RECENT AWARDS

- The WLF Award (2011)
- Alfred Shand's Award for Lifetime Achievement in Orthopaedic Research (2010)
- Election to American Institute of Medical and Biomedical Engineers (2009)
- Fellowship in the American Association for the Advancement of Science (elected 2005)
- The first in her field to win the NIH Merit Award (for DE-04141, 1987-1997)

APPOINTMENTS

Starr Chair
Mineralized Tissue Research
Director
Mineralized Tissue Laboratory
Program Director
Musculoskeletal Integrity
Program
Hospital for Special Surgery

Professor, Biochemistry
Professor, Graduate Program
in Physiology, Biophysics, and
Systems Biology
Weill Cornell Medical College

Professor
Graduate Center for Biomedical
Engineering
City College of New York

Professor
Field of Biomechanical
Engineering
College of Engineering
Cornell University