International Symposium Bone Biodynamics
INTERNATIONAL SYMPOSIUM
BONE BIODYNAMICS

MARCH 20, 21, 22, 1963

The professional staff of the Henry Ford Hospital with the advice and support of the Board of Trustees and Dr. Robin C. Buerki, Executive Director of the Henry Ford Hospital, sponsored an international symposium on the subject, Bone Biodynamics. This symposium was held at the Henry Ford Hospital, March 20, 21, 22, 1963 in the Clinic Auditorium. The program follows and has been prepared with the help of the advisory members:

Benson Ford
President

Robin C. Buerki
Executive Director

REGISTRATION

3:00 to 10:00 P.M. Tuesday, March 19, 1963
Statler Hilton Hotel

8:00 to 8:40 A.M. Wednesday, March 20, 1963
The Clinic Lobby of The Henry Ford Hospital

PLACE OF MEETINGS

Scientific Sessions — Auditorium — Henry Ford Hospital
Reception and Dinner — The Statler Hilton Hotel

PROGRAM COMMITTEE

Dr. Franklin C. McLean — Chairman
Chicago

Dr. Paul Weiss
New York

Dr. William Neuman
Rochester

Dr. R. A. Robinson
Baltimore

Dr. C. L. Mitchell
Detroit
WEDNESDAY MORNING: 8:45 A.M.

Introduction and Foreword: Dr. Franklin McLean

Chairman: Dr. Franklin McLean
Emeritus Professor of Physiology
University of Chicago

Moderator: Dr. William Neuman
Professor Radiation Biology
University of Rochester

The Living Cell and Cytophysics

The Dynamic Function of Cellular and Intracellular Membranes

Enzyme Kinetics

The Immune Mechanism of Transplantation and Possible Role of DNA and RNA

Panel Discussion

WEDNESDAY AFTERNOON: 2:00 P.M.

Moderator: Dr. Franklin C. McLean
Emeritus Professor of Physiology
University of Chicago

Ultrastructure of Bone Cells

Cytochemistry and Structural Correlation

Histogenesis of Bone Cells

Histogenesis of Bone Matrix

Panel Discussion
INTERNATIONAL SYMPOSIUM

WEDNESDAY EVENING: 8:00 P.M.

Skeletal Evolution and Devolution

Dr. Alfred Romer
Professor of Paleontology
Harvard University

THURSDAY MORNING: 9:00 A.M.

Moderator: Dr. Richmond Smith
Division of Endocrinology
Department of Medicine
Henry Ford Hospital

Comparative Skeletal Physiology

Dr. Marshall Urist
University of California Medical Center
of Los Angeles

Discussion

Dr. Mackenzie Walser
Johns Hopkins University

Regulation of Cell Physiology

Dr. Honor B. Fell
Strangeways Laboratory

Discussion

Dr. C. Andrew Bassett
Columbia University
School of Medicine

Bioelectric Factors Controlling
Bone Growth and Stress Response

Dr. Robert Becker
University of New York State
School of Medicine at Syracuse

Discussors

Dr. C. Andrew Bassett
Columbia University
School of Medicine

Bone Vascular Dynamics

Dr. Jose Trueta
Nuffield Orthopaedic Center

Discussors

Dr. Webster Jee
University of Utah
School of Medicine

Panel Discussion

Drs. Urist, Fell, Becker and Trueta
THURSDAY AFTERNOON: 2:00 P.M.

**Moderator: Dr. Boy Frame**  
Department of Medicine  
Henry Ford Hospital

Theoretical Endocrinology  

Dr. Ira G. Wool  
University of Chicago

The Dynamics of Bone Remodelling  

Dr. Harold M. Frost  
Henry Ford Hospital

Resorption and Bone Physiology  

Dr. Robert Rowland  
University of Rochester

Mathematical Model of Growth and Differentiation  

Dr. Lee Kavanau  
University of California at Los Angeles

Panel Discussion  

Drs. Wool, Rowland, Kavanau and Frost

THURSDAY EVENING

STATLER-HILTON HOTEL  
7:00 Reception and 8:00 Banquet  
(for Speakers, Guests, and Wives)

**Chairman: Dr. Harold M. Frost**

FRIDAY MORNING: 9:00 A.M.

**Moderator: Dr. Robert A. Robinson**  
Professor of Orthopaedic Surgery  
Johns Hopkins University

Blood-Bone Exchange  

Dr. William Neuman  
University of Rochester

Discussor:  

Dr. James MacGregor  
Glasgow, Scotland

The Parathyroids and Calcium Homeostasis  

Dr. Harold Copp  
University of Vancouver

Variations in Bone Mineralization with Age and Disease  

Dr. Jenifer Jowsey  
Albert Einstein Medical Center
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FRIDAY MORNING: 9:00 A.M. (Cont’d)

Moderator: Dr. Robert A. Robinson
Professor of Orthopaedic Surgery
Johns Hopkins University

Tracer Kinetics in Man

Dr. Goran C. H. Bauer
Hospital for Special Surgery

Discussor:

Dr. B. E. C. Nordin
Glasgow, Scotland

Panel Discussion

Drs. Neuman, Copp, Jowsey, and Bauer

FRIDAY AFTERNOON: 2:00 P.M.

Moderator: Dr. C. Leslie Mitchell
Chairman, Department of Orthopaedic Surgery
Henry Ford Hospital

Applications of Basic Science to Fracture Healing Problems

Dr. C. Howard Hatcher
Stanford University

Applications of Basic Science to Osteoporosis

Dr. B. E. Christopher Nordin
Glasgow, Scotland

Applications of Basic Science to Pathology

Dr. Lent Johnson
Armed Forces Institute of Pathology

Applications of Basic Science to Aging

Dr. Albert Lansing
University of Pittsburgh

Discussor

Dr. Elias Sedlin
Henry Ford Hospital

Panel Discussion

Drs. Hatcher, Nordin, Johnson and Lansing

Summary of the Symposium
Retrospect and Prospect

Dr. Harold M. Frost
Henry Ford Hospital