Innovation and Methods in Preclinical Testing of Orthopedic Implants

24th - 25th April 2013
Beijing, China

Eminent Professors in Orthopedic Research will be Discussing:

- Functionality and longevity performance testing
- Risks and types of failures
- ISO and ASTM standards for hip and knee implant testing
- Wear measurements and surface analysis
- Consistency and precision in testing
- Studies using instrumented implants
- Opportunities for Chinese researchers to be involved in ASTM
- Future trends in testing

Who Should Attend:

- Orthopedic implant manufacturers
- Government regulators in the field of orthopedic implants
- University and hospital researchers studying orthopedic implants

Speakers:

Professor Hani Haider, Ph.D. is the Director of the Orthopaedics Biomechanics & Advanced Surgical Technologies Laboratory of the University of Nebraska Medical Center, USA. Recipient of the KLINGER International Research Prize, HAP Paul Award, and numerous awards for achievement and innovation in joint replacement technology, Dr. Haider has received over 50 research contracts in the orthopedics field and has several leadership roles in ASTM and other international organizations.

Professor Darryl D’Lima, M.D., Ph.D. is the Director of Orthopaedic Research at Scripps Clinic’s Shiley Center for Orthopaedic Research and Education, and a professor in Medical Device Engineering at the University of California, San Diego, USA. Dr. D’Lima is a winner of the prestigious Kappa Delta Award for research in orthopedics, has authored over 150 manuscripts and book chapters, and has received 19 academic, foundation and government grants, including grants from the California Institute for Regenerative Medicine and the National Institutes of Health.
Day 1

Knee Implants
Biomechanics of the knee and knee replacement
Risks of knee replacement and types of failures
How to perform wear life tests
Clinical results of knee replacement
Instrumented knee implants for in vivo measurements
Knee implant testing standards to determine reliability before clinical applications begin
Descriptions of ISO and ASTM tests: range of motion, contact area, fatigue life, and wear life

Day 2

Hip Implants
Biomechanics of the hip and hip replacement
Risks of hip replacement and types of failures
Clinical results of hip replacement
Descriptions of ISO and ASTM tests: fatigue life and wear life
How to perform fatigue and wear life tests
Hip implant testing standards to determine reliability before clinical applications begin

ASTM Participation of Researchers and Practitioners in China

The Future of Implant Testing
New user interfaces
Virtual soft tissue simulation
Simulation, life testing and testing standards based on Activities of Daily Living

Attendance is free of charge!
Includes lunch and refreshments. Attendance requires registration in advance.

For more details and to register please contact:

Outside of China
Dr. Francois Asseman
Tel: +1-617-673-8467
Mobile: +1-781-330-1831
francoisa@amtimail.com

China
Robin Han
Tel: +86-010-64300382; 64300383
Mobile: +86-13910411655
robin@omgl.com.cn

Sponsored by:

AMTI
Watertown, MA 02472 | USA
www.amti.biz | sales@amtimail.com

OMG
Wangjing Nanhu Park | Beijing
www.omgl.com.cn | sales@omgl.com.cn