

BME2008 Paper Presentation Schedule

Concurrent Session: Biomechanics, 23 October 2008, 11:20pm – 12:50pm

Modulator: Dr William LU, Department of Orthopaedics and Traumatology, The University of Hong Kong

Time	Paper title
11:20pm – 11:35pm	Segmentation Approach for Composited Human Motion Nature ML LAU, DHK CHOW and MP WONG
11:35pm – 11:50pm	Hastening of Bone Fracture Healing by Mechanical Vibrations HF SHI, KF TAM, WH CHEUNG, L QIN and KS LEUNG
11:50pm – 12:05pm	Biomechanical Properties of Cryopreserved Intervertebral Discs SKL LAM, SCW CHAN, VYL LEUNG, WW LU, KMC CHEUNG and KDK LUK
12:05pm – 12:20pm	Development of a Large Animal Model for Kinematics Study of the Intervertebral Disc Allograft Transplantation SKL LAM, J XIAO, Y DING, WW LU, DK RUAN and KDK LUK
12:20pm – 12:35pm	Influence of Balancing Ability and Ankle Joint Stiffness on Gait in Hemiplegic Subjects Wearing Ankle-foot Orthosis T KOBAYASHI, AKL LEUNG, Y AKAZAWA and N MAEDA
12:35pm – 12:50pm	Effects of Load Placements on Spine Curvature and Proprioception XG WANG, DHK CHOW and A LAI
12:50pm – 1:05pm	Biomechanical Analysis of a Novel Implant for Facet Joint Fixation Using Finite Element Method EWK TANG, KWK YEUNG, WW LU and KDK LUK

Concurrent Session: Medical Imaging, 23 October 2008, 11:20pm – 12:50pm

Moderator: Prof Ed WU, Department of Electrical and Electronic Engineering , The University of Hong Kong

Time	Paper title
11:20pm – 11:35pm	Evaluation of Edge Detection Methods on the Brain CT DKS NG, FH TANG and DHK CHOW / polyu-04
11:35pm – 11:50pm	Image Post-Processing for MRI Noise Reduction in Simultaneous Ultrasound and MRI Imaging AM TANG, X ZHANG and EY LAM / hku-01
11:50pm – 12:05pm	Development of Fall Prevention Shoes for Elderly KS LEUNG, M ZHANG, WH CHEUNG and SY CHAN / cuhk-02
12:05pm – 12:20pm	BREAK
12:20pm – 12:35pm	Fabrication and Evaluation of Polyhydroxybutyrate and Hydroxyapatite/Polyhydroxybutyrate Composite Scaffolds for Tissue Engineering Applications N SULTANA, LS WONG and M WANG / hku-05
12:35pm – 12:50pm	Comparison of Somatosensory Evoked Potentials Components With and Without Contact Cold Pain Stimulus L HU, Y HU, CQ CHANG AND KD LUK / hku-09

Concurrent Session: Biomaterials and Tissue Engineering (I), 23 October 2008, 4:40pm – 6:00pm

Moderator: Dr Haobo PAN, The University of Hong Kong

Time	Paper title
4:40pm – 4:55pm	Effects of Laser Irradiation on the proliferation and gene expression of C ₂ C ₁₂ myoblast cells JH KWAG, S PARK, J LEE, B JUNG and CH KIM / others-06
4:55pm – 5:10pm	Surface Modification of NiTi Shape Memory Alloy by Forming a Bioactive Titania Layer Through a Low Temperature Process T SUN, HM CHEUNG and M WANG / hku-04
5:10pm – 5:25pm	An Initial Study of the Antibacterial Effect of Particulate Bioglass® in vivo Zong-Ping Xie, Chang-Qing Zhang, Cheng-Qing Yi, Jian-Jun Qiu, Juan Zhou / others-09
5:25pm – 5:40pm	Fibrous Hybrid Membranes Fabricated through Electrospinning of Poly(L-Lactic Acid) and Gelatin JC KANG, M WANG and XY YUAN / hku-10
5:40pm – 5:55pm	Acellular Tissue Engineering Scaffolds for Vocal Fold Regeneration RW CHAN / others-03
5:55pm – 6:10pm	In Vitro Bioactivity and Cytocompatibility of Bioactive Borate Glass X LIU, D WANG, W HUANG, H FU, A YAO, H PAN and WW LU / others-08

Concurrent Session: Computer Modeling and Simulations, 23 October 2008, 4:40pm – 6:00pm

Moderator: Dr Eric TAM, Rehabilitation Engineering Centre, The Hong Kong Polytechnic University

Time	Paper title
4:40pm – 4:55pm	Quantitative Analysis of Surface Electromyographic Topography in Back Muscle Activity during Forward Bending SHF SIU, Y HU and KDK LUK / hku-14
4:55pm – 5:10pm	Adaptive EEG Signal Classification based on Bayesian Clustering Technique R BASSAM and AK ABBAS / others-02
5:10pm – 5:25pm	BREAK
5:25pm – 5:40pm	Time-frequency Filtering to Reduce Lower Frequency Noise Effects on Neonatal Click Evoked Otoacoustic Emissions VW ZHANG, ZG ZHANG, B MCPHERSON, Y HU and CHAN SC / hku-17
5:40pm – 5:55pm	Development of Knee Finite Element Model for Implant Design WC WONG, M ZHANG, CF CHEUNG and L QIN / polyu-08

Concurrent Session: Biomaterials and Tissue Engineering (II), 24 October 2008, 11:10pm – 12:40pm

Moderator: Dr Kelvin YEUNG, Department of Physics and Materials Science, City University of Hong Kong

Time	Paper title
11:10pm – 11:25pm	Micro- and Nano-Fibers of Poly(Hydroxybutyrate-Co-Hydroxyvalerate) Formed through Electrospinning and Their Biocompatibility Assessment HW TONG, M WANG, ZY LI and WW LU / hku-07
11:25pm – 11:40pm	Development of a 3D Human Foot Measurement System for Shoe Design Y LUXIMON, M ZHANG, A LUXIMON and AKL LEUNG / polyu-07
11:40pm – 11:55pm	A Novel Surface Modified Biodegradable Metallic Material for Orthopaedic Implantation KHM WONG, KWK YEUNG, JKO LAM, PKH CHU, KDK LUK and KMC CHEUNG / s-01
11:55pm – 12:10pm	Bioactivity Enhancement of Polyetheretherketone (PEEK) by Plasma Immersion Ion Implantation SC LUI, KWK YEUNG, PK CHU, KDK LUK and KMC CHEUNG / s-03
12:10pm – 12:25pm	Electrospinning of Porous Poly(Hydroxybutyrate-Co-Hydroxyvalerate) Fibers HW TONG, FS LAM and M WANG / hku-06
12:25pm – 12:40pm	Fabrication and Characterization of Biomolecule-loaded Ca-P/PHBV Nanocomposite Scaffolds Via Selective Laser Sintering B DUAN, PY LIN and M WANG / hku-03

Concurrent Session: Bioengineering & Clinical application (I), 24 October 2008, 11:10pm – 12:40pm

Moderator: Dr Xia GUO, Department of Rehabilitation Sciences, The Hong Kong Polytechnic University

Time	Paper title
11:10pm – 11:25pm	Full-body Dynamic Pressure Distribution during Sleeping KS LAM, KH LUI, E TAM and M CHOW / polyu-01
11:25pm – 11:40pm	Decreased EEG Synchronization in Alzheimer's Disease Revealed by a New Global Synchronization Measure CH IM, H CHE and SH LEE / others-05
11:40pm – 11:55pm	Development of Airbag System For Hip Fracture Protection Due to Falls KS LEUNG, W LI, WH CHEUNG, SY CHAN, GY SHI, CS CHAN and PL TSANG / cuhk-01
11:55pm – 12:10pm	Super-resolution Reconstruction Using Regularization Based on Gradient Vector Field X ZHANG and EY LAM / hku-18
12:10pm – 12:25pm	Effects of Traditional Chinese Medicine (with Prescription of Tienchi) on Disc Degeneration DHK CHOW, A LAI, FH TANG, MCP LEUNG and G LEUNG
12:25pm – 12:40pm	Concomittant Surface Electromyography and Stiffness Changes During Graded Isometric Right Hip Extension YL WONG, Y HU, GN KAWCHUK and WW LU / hku-16

Concurrent Session: Bioengineering & Clinical application (II), 25 October 2008, 11:30pm – 12:45pm

Moderator: Dr Min WANG, Department of Mechanical Engineering, The University of Hong Kong

Time	Paper title
11:30pm – 11:45pm	Hospital Efficiency Improvements through Implementation of RFID Systems Safety Concerns from Biomedical Engineers OCM CHAN, RWY YAM, KKL IP, KWM WONG and AKT CHUNG / others-01
11:45pm – 12:00nn	A Novel Technique for Characterization of Mechanical Properties of Micron-scale Biological Tissue YL CHAN, AHW NGAN and NM KING / hku-15
12:00nn – 12:15pm	Effects of Carrying Loads and Placements on Balance of Children ZY OU, DHK CHOW and A LAI / polyu-10
12:15pm – 12:30pm	Smartward – The Future Ward Model N TANG, KS LEUNG and WK SO / cuhk-05
12:30pm – 12:45pm	Structural and Functional Evaluation of Chronic Spinal Cord Compression in Rat Model DTH LI, Y HU, EX WU, KDK LUK and HT LIU / hku-02

Concurrent Session: Medical Device & Diagnostics, 25 October 2008, 11:30pm – 12:45pm

Moderator: Prof. Hong YL, The Chinese University of Hong Kong.

Time	Paper title
11:30pm – 11:45pm	Image Fusion for Computer-assisted Surgery in Musculoskeletal Tumors KC WONG, WK NG, KS LEE, SM KUMTA and LF TSE / cuhk-03
11:45pm – 12:00nn	Development of 1 st Prototype of Passive Surgical Robot Arm and it's Clinical Applications in CAOS KS LEUNG, N TANG, WK NG and KS LEE / cuhk-04
12:00nn – 12:15pm	Quantitative assessment of spastic ankle joint of stroke hemiplegics using a novel manual device T KOBAYASHI, AKL LEUNG and Y AKAZAWA / polyu-06
12:15pm – 12:30pm	Signal-to-noise Ratio Estimation for Intraoperative Somatosensory Evoked Potentials HT LIU, Y HU and KDK LUK / hku-08
12:30pm – 12:45pm	Real Time Head Rotation Monitoring in Cephalometric Radiography KS CHENG, CH OU, CL LI and YT CHEN / others-07
12:45pm – 1:00am	Real-time Fast Extraction of Somatosensory Evoked Potentials in Fixed-point PYM YIP, CF SHEN and Y HU / hku-13