MEDITEC 2017

PROGRAMME BOOK

INTERNATIONAL MEDICAL DEVICE AND TECHNOLOGY CONFERENCE

6th-7th SEPTEMBER 2017 **JOHOR BAHRU**

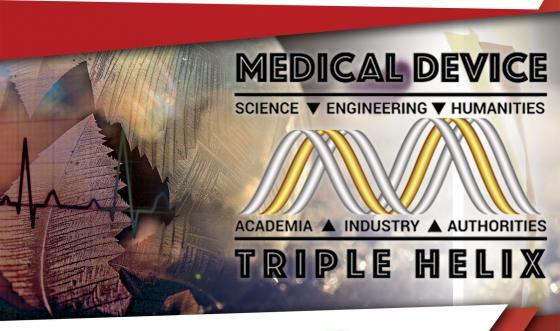
ORGANISER







Medical Devices & Technology Group







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Bismillahirrahmanirrahim

On behalf of the organising committee, I would like to extend my warm welcome or `Selamat Datang' to all the delegates attending this International Medical Device and Technology Conference (IMEDITEC) 2017. We are indeed very proud and honoured to organise this conference!

"Triple Helix Medical Device", has been chosen as IMEDITEC theme, which reflects the synergic co-existence of three key players; academia, industry and

authority, in striving towards advancing medical device, glocally. IMEDITEC also welcomes everyone of the same interest, be it scientist, engineer, industry player, regulatory agency, to meet and present their research findings and running projects, in a collaborative and receptive environment.

In this one and a half day conference, we've got so much to offer! Our keynotes are of those prominent in their very subject, and each of them represents the respective helix aforementioned as part of the conference theme. The day will be further spiced up by presentations of high quality papers from our highly dedicated scientists and engineers during the parallel sessions. There are 15 tracks, with diverse fields of related subjects. All these presentations are surely not to be missed!

IMEDITEC2017 will also witness another big event, wherein an MOU will be signed by Universiti Teknologi Malaysia (UTM) and Cyberjaya University College of Medical Sciences (CUCMS), aiming to further tighten existing collaborations. Many research projects and academic programmes are in the pipeline, waiting to be handsomely executed. The future of medical device is now apparently!

Lastly, my utmost appreciation to all speakers, professional organisations, societies, government agencies, university colleagues and companies for their continued and invaluable supports in making this conference a success.

To everyone, I wish you all a fruitful and enjoyable conference!

Best wishes.

Prof. Dato' Ir. Dr. Mohammed Rafiq bin Dato' Abdul Kadir, Chair, IMEDITEC 2017



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IMEDITEC THEME

We are promoting a triadic relationship between 3 important sectors to spur growth of medical device innovations and related economic development. This is only possible through hybridisation of elements (helices) of university, industry and government in realising the transfer and application of knowledge through a complete economic chain from innovative ideas to lab testing, policy making and mass

production.

University's "third mission" of commercialisation (after the first two missions of teaching and research) could be made more effective through the concept of Triple Helix. It takes a pro-active stance in creating new knowledge, putting it to use, and operates with an interactive model of innovation. It provides higher levels of training and sharing of knowledge through joint exploitation of intellectual properties. The socio-economic development could only be realised through collaborative efforts in the triple helix.

MEDICAL DEVICE

SCIENCE ▼ ENGINEERING ▼ HUMANITIES

Industry, as the driving force, could provide a balanced configuration, between transition of a specific knowledge to society, and offer insights for innovation in the field. Being customer-driven, practicality and feasibility will strengthen focused research in the world of academia. Creating a favorable environment with the aim of sustainable product

development is the key for the triple helix success.

Play a leading role in driving academia and industry, but its capacity to initiate and develop innovative transformations is limited. It could also act as a public entrepreneur and venture capitalist in addition to its traditional role in setting the rules of thing a favorable the game. Initiatives to enhance the whole system will only come to fruition through collaboration

with experts in academica and industrial leaders.

Government could

This conference is a starting point in our endless efforts to spur the growth of the medical device sector by providing a platform to develop an explicit framework for the systemic interactions between Triple Helix actors - Academia, Industry & Authorites. The circulation of knowledge flows and the non-linear interactions between them will allow successful exploration of complex innovation dynamics in the medical device sector.



KEYNOTE SPEAKERS

Prof. Dr. Ir. H. Muhammad Nuh

Professor of Biomedical Engineering Institut Teknologi Sepuluh Nopember

Prof. Nuh is a Professor of biomedical system engineering at the Institut Teknologi Sepuluh Nopember (ITS), one of



Indonesian's Institution of higher learnings well known in the field of engineering and technology. He was the Indonesian Minister for Education and Culture for 5 years, from 2009-2014, and the Minister Communication and Informatics from 2007-2009. Previously, he was appointed as the Rector for ITS from 2003-2006, the youngest Rector ever appointed at the age of 42. He used to be the Director of Politeknik Eletronika Negeri Surabaya (PENS), where through his leadership, PENS became a trusted partner of Japan Industrial Coorperation Industry (JICA) and secured extensive financial collaboration. During his service to Indonesian's President Susilo Bambang Yudhoyono, he introduced the concept of Information Bridging and completed a book entitled Strategy, Utilization & Policy Direction of Information and Communication Technology.

Mr. Zamane Abdul Rahman

Chief Executive, Medical Device Authority

Mr. Zamane is currently the Chief Executive of the newly formed Medical Device Authority. He was formerly the Director of the Medical Equipment Control Division Ministry of Health Malaysia from September 2008 until March 2013. He was primarily involved in the drafting the Medical Device Bill and the Medical Device Authority Bill during his tenure as the Director and was



responsible for ensuring that the Malaysia Parliament passed the two bills and promulgating it into law. In terms of global harmonization and medical device regulatory convergence among ASEAN, he represents Malaysia and appointed as the chair of the Medical Device Product Working Group (MDPWG) which is responsible for drafting out the ASEAN Medical Device Directive (AMDD).



KEYNOTE SPEAKERS

Prof. Ir. Dr. Ahmad Fadzil Mohamad Hani President & Group Chief Executive SIRIM Berhad

Prof. Fadzil is the President and Group Chief Executive of SIRIM. Previously he held the post of Deputy Vice Chancellor (Research & Innovation) at Universiti



Teknologi Petronas (UTP). He received his PhD in Image Processing from the University Malysia since 1984, before joining UTP in 1997. He was appointed as General Manager in Frontier Technology at Petronas Research in 2008 before returning to UTP as Deputy Vice Chancellor (Academic) from 2010 to 2016. He is a Fellow Prince Court Medical Centre, Kuala Lumpur. An expert, in signal and image processing, Prof. Fadzil is the founder and head of the Centre for Intelligent Signal and Image Processing (CISIR), a centre that started as a research lab in 2000, which has been awarded a National Higher Institution Centre of Excellence (HiCOE) status in 2014. His recent research includes analysing mental health in workplace via FNIRS technology

Dr. Akhmal Yusof

Chief Executive Officer, Clinical Research Malaysia

Dr. Akhmal Yusof obtained his Bachelor of Medicine and Bachelor of Surgery (MBBS) from the Royal College of Surgeon, Ireland in 1992. He started serving the Ministry of Health as a House Officer at the University of Malaya Medical Centre and subsequently as a Medical Officer at Tanjong Karang Hospital, Kuala Lumpur Hospital and Tawakal Medical Centre between 1993 and 2000. He later ventured into Medical Insurance under



the American International Assurance, Kuala Lumpur as Medical Manager (2000-2002). It was in AstraZeneca Sdn Bhd where he gained extensive experience in the field of research-based biopharmaceutical where he was the Medical Director across Malaysia, Singapore and Brunei. He later assumed the position of Head of Government Affairs. Dr. Akhmal was in AstraZeneca Sdn Bhd from 2002 to 2015. Dr. Akhmal is currently a member of the Ethics Committee of the Pharmaceutical Association of Malaysia (PhAMA) and a member of the National Committee for Clinical Research (NCCR). He is currently the Chief Executive Officer of Clinical Research Malaysia.

GENERAL PROGRAMME SCHEDULE

6 SEPTEMBER 2017

8.00 am Registration

9.00 am IMEDITEC 2017 Opening Ceremony

9.20 am Keynote Speaker I: Mr. Zamane Abdul Rahman

Chief Executive, Medical Device Authority

9.30 am Keynote Speaker 2: **Prof. Ir. Dr. Ahmad Fadzil Mohamad Hani**

President & Group Chief Executive, SIRIM Berhad

10.00 am Invited Speaker: Assoc. Prof. Dr. Takahisa Yamamoto

National Institute of Technology, Gifu College, Japan

10.20 am Photography session & Break

11.00 am Parallel session

1.00 pm Lunch

2.10 pm Keynote Speaker 3: **Dr. Akhmal Yusof**

Chief Executive Officer, Clinical Research Malaysia

2.30 pm Keynote Speaker 4: **Prof. Dr. Ir. H. Muhammad Nuh**

Professor of Biomedical Engineering

Institut Teknologi Sepuluh Nopember, Indonesia

3.00 pm MoU Signing Ceremony between UTM & CUCMS

3.45 pm 3D Hand Booth Visit & Break

4.15 pm Parallel Session 6.15 pm Conference End

7.30 pm Registration for conference dinner 8.00 pm Gala Dinner at Pulai Springs Resort

11.00 pm End

7 SEPTEMBER 2017

9.30 am IMEDS First Assembly
11.00 am Light Refreshment
11.30 am Nusajaya Coach Tour
5.00 pm Return to FBME, UTM



MOU SIGNING CEREMONY





Nurturing the Passion to Care

6 SEPTEMBER 2017 SEMINAR ROOM 1 & 2

3.00 pm Arrival of delegates

3.05 pm Arrival of VIP

Recitation of Doa

3.15 pm Welcome address by

YBhg. Prof. Datoʻlr. Dr. Mohammed Rafiq Abdul Kadir

Dean, Faculty Biosciences & Medical Engineering

3.20 pm Speech from CUCMS representative

3.25 pm Montage of UTM-CUCMS Collaborations

3.30 pm MoU signing ceremony

3.35 pm Press conference

UNIVERSITI TEKNOLOGI MALAYSIA

Signee YBhg. Prof. Datuk Ir. Dr. Wahid bin Omar

Vice Chancellor, Universiti Teknologi Malaysia

Witness YBhg. Prof. Dato' Ir. Dr. Mohammed Rafiq bin Abdul Kadir

Dean, Faculty Biosciences & Medical Engineering

CYBERJAYA UNIVERSITY COLLEGE OF MEDICAL SCIENCES

Signee YBhg. Prof. Dato Dr. Mohamad bin Abdul Razak

President, Cyberjaya University College of Medical Sciences

Witness YBhg. Prof. Dr. Abdul Latiff bin Mohamed

Deputy President, Cyberjaya University College of Medical

Sciences



			i ime : iiam - ipm
Session '	1	: Biomaterials	Venue : Lecture Room 2
Time	ā	Author	Title
11.00	6	NIK AHMAD NIZAM NIK MALEK et al	CELL VIABILITY AND MIGRATION STUDY OF HYDROXYAPATITE ENCAPSULATED SILICA AEROGEL (HAESA) TOWARDS NORMAL HUMAN FIBROBLAST CELLS
11.15	47	NORHIDAYU MUHAMAD ZAIN*; MOHAMMED RAFIQ ABDUL KADIR	THE STABILISATION OF CALCIUM CARBONATE VATERITE PHASE VIA INTEGRATION OF MUSSEL-INSPIRED POLYDOPAMINE
11.30	67	SAYYID AHMAD ASYRAF SAMSUDIN et al	EFFECT GAMMA IRRADIATION ON STARCH-BASED BIOMATERIALS COMPOSITES FOR WOUND HEALING
11.45	73	FADILA NASHIRI KHOIRUN NISAK et al	ANTIBACTERIAL ABSORBABLE SURGICAL SUTURE BASED ON PLGA- COLLAGEN WITH CITRUS PARADISE EXTRACT
12.00	77	ERNIE MADURATNA SETIAWATIE A et al	VIABILITY HYDROXIAPATITE FROM TOOTH BOVINE ON BONE MARROW MESENCHYMAL STEM CELLS
12.15	78	IRA WIDJIASTUTI * et al	LACTOBACILLUS ACIDOPHILLUS STIMULATES THE ACTIVATION OF NFK-B AND DMP-1 ODONTOBLAST LIKE CELLS IN THE DENTINOGENESIS PROCESS
12.30	80	LATIEF MOODUTO A* et al	CYTOTOXICITY OF SODIUM HYPOCHLORITE, CHLORHEXIDINE AND PROPOLIS ON HUMAN PERIODONTAL LIGAMENT FIBROBLAST CELL
12.45		AKBAR TEGUH PRAKOSO et al	EFFECT OF FLOW CHARACTERISTICS ON BIODEGRADATION OF BONE SCAFFOLD

Session 2		: Smart Biopolyme	r Venue : Lecture Room 3
Time	ID	Author	Title
11.00	29	WANG RACHAEL*	ENCAPSULATING ESSENTIAL OILS IN HNT FOR SMART PACKAGING SYSTEMS
11.15	64	NURUL SHAFIQA MOHD YUSOF et al	ULTRASOUND IMAGING AND CHARACTERIZATION OF CARDIAC MUSCLE PHANTOM
11.30		RETNO INDRAWATI ROESTAMADJI* et al	INCREASED LEVELS OF HUMAN B DEFENSINS IN CHILDS WITH DENTAL CARIES
11.45	82	SRI KUNARTI A* et al	COMPARISON OF THREE MOUTHWASHES CONTAINED IPMP, CHLORINE DIOXIDE AND CHLORHEXIDINE GLUCONAT TO REDUCED EXOPOLYSACHARIDE BIOFILM PRODUCED BY STREPTOCOCCUS MUTANS
12.00	83	TAMARA YUANITA * et al	THE EFFECT OF COCOA HUSK EXTRACT AGAINST THE AMOUNT OF EXTRACELLULAR POLYSACCHARIDE (EPS) ENTEROCOCCUS FAECALIS BIOFILM
12.15		WIDYA SARASWATI * et al	THE EXPRESSION OF HMGBI IN DENTIN PULP COMPLEX INDUCED BY RESIN MONOMER HEMA
12.30		NIRAWATI PRIBADI A* et al	THE DIFFERENCE BETWEEN NEUTRAL PH AND OPTIMAL PH DUE TO THE AMOUNT OF GLUCOSE AS THE PRODUCT OF METABOLISM OF GLUCOSYLTRANSFERASE ENZYME STREPTOCOCCUS MUTANS

Time



: llam - lpm

Session 3 : Biomechanics Time : Ilam - lpm
Surgery & Surgical Technology Venue : Lecture Room 4

Jangerge Janger (Jean Collins)			
Time	ID	Author	Title
11.00	57	RAIHAN ABDUL KADIR*	SHAPE MEMORY ALLOY-BASED ACTUATOR FOR
			ENDOSCOPIC SURGICAL INSTRUMENT
11.15	76	DIAN AGUSTIN WAHJUNINGRUM A* et al	EFFECT OF EXTRACT PROPOLIS ON THE ADHERENCE OF ENTEROCOCCUS FAECALIS AS A CANDIDATE ROOT CANAL IRRIGATION SOLUTION
11.30	79	KUN ISMIYATINA A *et al	THERAPEUTIC EFFICACY OF TOPICAL EPIGALLOCATECHIN-GALLATE AS A NEW THERAPEUTIC STRATEGY FOR INHIBITION OF PAIN CONDUCTION ON RAT MODELS WITH ACUTE PULPAL INFLAMMATION
11.45	14	SITI BADRIAH RAZAK*; MOHD NGALI	A REAL-TIME MONITORING OF WARDED PATIENT VIA MOTION CAPTURE SYSTEM
12.00	25	JAMALUDDIN MAHMUD*	MEASURING ANKLE ANGLE AND ANALYSIS OF WALKING GAIT USING KINOVEA
12.15	38	KHENG LIM GOH*	DEVELOPMENT OF A NOVEL MICROMECHANICAL TESTER FOR BIOMEDICAL ENGINEERING APPLICATIONS
12.30	66	NURULNATISYA TISYA AHMAD et al	FLOW SIMULATION OF PATENT DUCTUS ARTERIOSUS TO EVALUATE THROMBOSIS FACTORS ON CLOSURE DEVICE

Session 4 : Medical Imaging and Interaction Technology Time : 11am - 1pm

Healthcare Information Technology Venue : Lecture Room 5

			venue : Lecture Noom:
Time	ID	Author	Title
11.00	11	YUSMAN AZIMI YUSOFF* et al	VISUALIZING VOLUME IN CT IMAGES USING VASCULAR MODELLING TOOLKIT
11.15	32	NUR AFIKAH ZAINAL ABIDIN et al	AWAKENING EVENT DETECTION USING KINECT-LIKE DEPTH IMAGE FOR FALL PREVENTION AMONG BEDRIDDEN PERSON
11.30	81	TAUFAN BRAMANTORO* et al	COULD WE PREDICT CARIES RISK OF CHILDREN BEFORE THEY WERE BORN? THE SENSITIVITY AND SPECIFITY TEST OF MOTHER BELIEF EARLY CHILDHOOD CARIES RISK PREDICTOR SOFTWARE
11.45	41	MOHAMAD HAIDER ABU YAZID* et al	ARTIFICIAL NEURAL NETWORK IN CLINICAL PATHWAY VARIANCE PREDICTION: GENERAL FRAMEWORK
12.00	53	MURK MEMON*	LABVIEW BASED STRYKER TRANSPORT STRETCHER
12.15	43	MOHD KHALID MOKHTAR*	REAL-TIME INTERACTIVE VISUALIZATION OF SIMULATED BLOOD FLOW DATA WITH PHYSICAL-BASED ANIMATION



Session 5 : Mechanobiology, Biophysics & Modelling Time : 11am - 1pm
Sport Technology and Engineering Venue : Auditorium Ibnu Rushd

Time	ID	Author	Title
11.00	40	FATIMAH DZAHARUDIN*	EFFECTS OF MICROBUBBLE SIZE ON THE DYNAMICAL BEHAVIOUR OF ENCAPSULATED SONOVUE® CONTRAST AGENTS IN ULTRASONIC FIELDS
11.15	61	SYAZATUL ANIZA ARSHAD et al	NUMERICAL MODELLING OF BLOOD CELLS DISTRIBUTION IN FLOW THROUGH CEREBRAL ARTERY ANEURYSM
11.30	62	MOHD JAMIL MOHAMED MOKHTARUDIN*	2D FINITE ELEMENT ANALYSIS OF CEREBRAL TISSUE SWELLING OCCURRENCE IN BRAIN ISCHAEMIA-REPERFUSION INJURY
11.45		MOHD AYUB SULONG, et al	MECHANICAL DEGRADATION MODEL OF BIODEGRADABLE SCAFFOLDS: A COMPUTATIONAL APPROACH
12.00		AKBAR TEGUH PRAKOSO, et al	A COMPARISON OF DEGRADATION RATE BONE SCAFFOLD MORPHOLOGY BETWEEN COMPUTER SIMULATION AND EXPERIMENTAL RESULT
12.15	37	NURUL FARHA BINTI ZAINUDDIN*	THE BIOMAKERS OF BRAIN ACTIVITY, PHYSIOLOGY AND BIOMECHANICS IN CYCLING PERFORMANCE: A LITERATURE REVIEW
12.30	52	ZULKIFLI AHMAD*	DETECTION OF LOCALISED MUSCLE FATIGUE BY USING WIRELESS SURFACE ELECTROMYOGRAM (SEMG) AND HEART RATE IN SPORTS

Time : 4.15pm - 6.15pm
Session 6 : Biomedical Electronics and Instrumentation Venue : Lecture Room 2

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Time	ID	Author	Title
4.15	12	SHAIFUL BAHRI ZAINAL ABIDIN	KINEMATIC ANALYSIS ON REACHING ACTIVITY FOR HEMIPARETIC STROKE SUBJECTS USING VIDEO PROCESSING METHOD
4.30	15	AHMAD G W RAHMAN*; et al	ELECTRIC STANDING WHEELCHAIR CONTROLLER TO PROVIDE USER SAFETY AND COMFORTNESS
4.45	24	MOHD NAJEB JAMALUDIN*; ZULKIFLI AHMAD	DESIGN OF LOW POWER AND MINIATURE WEARABLE ELECTROMYOGRAM FOR HUMAN-MACHINE INTERFACE
5.00	39	AMIRUL SYAFIQ*; JAMALUDIN JALANI	THE DEVELOPMENT OF FORWARD KINEMATICS FOR A 3 FINGER ADAPTIVE ROBOT GRIPPER
5.15	42	KIM SOON CHONG*	DEVELOPMENT OF THERMAL CYCLER USING PROPORTIONAL- INTEGRAL CONTROLLER FOR POLYMERASE CHAIN REACTION
5.30	50	SAMEEN A MALIK et al	EFFECTS OF ULTRAVIOLET LIGHT-EMITTING DIODES (UVA-LEDS) IRRADIATION ON ESCHERICHIA COLI FOR INACTIVATION OF MICROORGANISMS
5.45	59	NURUL ASHIKIN ABDUL- KADIR*; et al	A WEARABLE ECG DEVICE USING NEUROSKY CARDIO MODULE
6.00	60	SAMEEN A MALIK et al	CONTACTLESS POWER TRANSFER SYSTEM FOR LOW POWER MEDICAL DEVICES



5.45

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ALI ALZAIDI*

: 4.15pm - 6.15pm Time : Biomedical Image Processing Session 7 Venue : Lecture Room 3 Time ID Author **Title ALI HUSSEIN** PLANTAR PRESSURE REPEATABILITY DATA ANALYSIS FOR 5 415 SABRY* HEALTHY ADULT BASED ON EMED SYSTEM ENHANCEMENT OF FINGER VEIN IMAGE USING MULTIFILTERING KAYODE A. 7 4.30 AKINTOYE* ALGORITHM GRAYSCALE ASSESSMENT OF LOW-FIELD MAGNETIC MOHD JUZAILA 4 45 21 RESONANCE IMAGING OF ARTICULAR CARTILAGE IN SYNOVIAL ABD. LATIF* et al. TAIOL MUSCLE FATIGUE EVALUATION USING NON-INVASIVE INFRARED NURSYAZANA 5.00 49 THERMOGRAPHY TECHNIQUE WITH ASSISTED BINTI RIDZUAN*: ASNIDA A WAHAB **ELECTROMYOGRAPHY: A PRELIMINARY STUDY** STRUCTURAL CHARACTERIZATION OF ECG-GATED CARDIAC CT NURULAZIRAH MD 5.15 63 IMAGES: TEXTURE ANALYSIS ON SYSTOLE AND DIASTOLE SALIH* et al PHASES TENGKU AHMAD EDGE DETECTION IN MAGNETIC RESONANCE IMAGES USING 530 65 ISKANDAR TENGKU GLOBAL CANNY ALGORITHM ALANG; et al WIRELESS BIPOLAR ELECTROSURGICAL DEVICE BY USING

Session 8 : Biomedical Image Processing Time : 4.15pm - 6.15pm Neuroscience Engineering Venue : Lecture Room 4

POWER ENERGY TRANSFER

Biosensor, Bio-diagnostic, Bio-mems & Bio-chips

Time	ID	Author	Title
4.15	51	CHEE-MING TING*; SH-HUSSAIN SALLEH	ESTIMATING BRAIN CONNECTIVITY IN SCHIZOPHRENIA PATIENTS USING ELECTROENCEPHALOGRAPHY SIGNALS
4.30	70	MAIZATUL NADWA CHE AZIZ* et al	HYPERTHERMIA THERAPY MONITORING WITH GUIDANCE OF B- MODE ULTRASOUND
4.45	72	MOHD SYAKIR FATHILLAH et al	COMPLEXITY ANALYSIS ON EEG SIGNAL VIA LEMPEL-ZIV AND APPROXIMATE ENTROPY: EFFECT OF MULTIRESOLUTION ANALYSIS
5.00	34	SITI NORHAYATI MD YASSIN*	STUDY ON EMPATHETIC-PAIN PERCEPTION IN BRAIN INDUCED BY THREE LEVELS OF EMPATHETIC-PAIN PERCEPTION STIMULI
5.15	8	ANIS N NORDIN et al	TOXICITY STUDIES OF NATURAL PRODUCT IN VERO CELLS USING IMPEDANCE MONITORING
5.30	48	MURK MEMON*	WIRELESS BRAIN COMPUTER INTERFACE STREAMS CONTROL COMMAND
5.45	74	FADLI AMA et al	DETECTION OF LUNG CANCER USING WAVELET DECOMPOSITION SELF-ORGANIZING MAP (SOM)



4.15pm - 6.15pm

Time

PRESENTATION SCHEDULE 5

Venue : Lecture Room 5 Session 9 : Medical Implants Title Time ID Author ROSDAYANTI MS. MANUFACTURING METHODS FOR MEDICAL PROSTHESES- A 4.15 ıа FUA-NIZAN* et al REVIEW FABRICATION OF NANOPOROSITIES ON METALLIC GLASS ABDUL'AZEEZ 430 18 SURFACE BY HYDROXYAPATITE MIXED EDM FOR ORTHOPEDIC ABDU ALIYU et al APPLICATION MUHAMMAD DIFFERENT MATERIALS OF MITKOVIC EXTERNAL FIXATOR 4 45 27 HANIF RAMLEE* INFLUENCE THE STABILITY AND STRESS CONCENTRATION OF et al OPEN SUBTALAR DISLOCATION - A FINITE ELEMENT STUDY PREDICTION OF STRESS SHIELDING AROUND IMPLANT SCREWS RUSLIZAM 5 00 44 DAUD* INDUCED BY THREE-POINT AND FOUR-POINT BENDING EFFECT OF CEMENT LINE SHIELDING ON THE STRESS RUSLIZAM 45 DISTRIBUTION IN SINGLE OSTEON WITH DIFFERENT HAVERSIAN 5.15 DAUD* CANAL DIAMETERS AND LACUNAE STRESS INTERACTION ANALYSIS OF UNIAXIAL FIXATOR PINS-RUSLIZAM 46 DIAPHYSIS FEMUR BONE INTERFACE SUBJECTED TO FOUR-POINT 5.30 DAUD* BENDING DIFFERENT MATERIAL PROPERTIES OF CANCELLOUS BONE ABDUL HADI 5.45 58 INFLUENCE GLENOID COMPONENT LOOSENING: A FINITE ABDUL WAHAB* **ELEMENT STUDY** ABU BAKAR TIGAL4V/WOLLASTONITE COMPOSITE THROUGH POWDER 68 6.00 SULONG* INJECTION MOLDING PROCESS FOR BONE IMPLANT APPLICATION

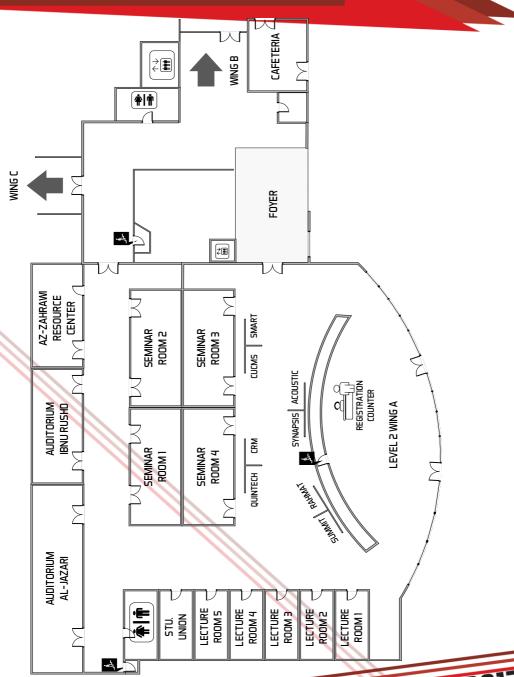
Time : 4.15pm - 6.15pm

Session 10 : Rehabilitation Technology & Engineering Venue : Auditorium Ibnu Rushd

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Time	ID	Author	Title
4.15	4	KRISHNAN SUBRAMANIAM* et al	EXPERIMENTAL INVESTIGATION OF SHAPE MEMORY ALLOY (SMA) - FORCE AND ANGLE ANALYSES
4.30	16	RENALDO HERDIANO PUTRA* et al	DETERMINATION OF CENTER OF GRAVITY ON ELECTRIC STANDING WHEELCHAIR
4.45	20	IDRIS MAT SAHAT* et al	DEVELOPMENT OF WALKING GAIT CUE STICK WITH LASER AND STABILITY CONTROL FOR PATIENTS WITH TRAUMATIC BRAIN INJURY
5.00	22	MOHD AZRUL HISHAM BIN MOHD ADIB*	DEVELOPMENT OF THE WRIST REHABILITATION THERAPY (WRIST-T) DEVICE BASED ON AUTOMATIC CONTROL FOR TRAUMATIC BRAIN INJURY PATIENT
5.15	28	MISPAN BIN MANGON* et al	ASSESSING ELECTROMYOGRAPHY (EMG) RESPONSE OF LOWER ARM NERVES TO THE ACUPRESSURE SPORT MASSAGE : A PRELIMINARY STUDY
5.30	54	AIZREENA AZAMAN* et al	ANALYSIS OF LEG MUSCLE ACTIVITY ON DIFFERENT BALANCE TRAINING DEVICES
5.45		AMIR PUTRA MD SAAD et al	POLYETHYLENE WEAR IN TOTAL ANKLE REPLACEMENT IS INFLUENCED BY ITS RADIAL CURVATURE: A COMPUTATIONAL WEAR SIMULATION STUDY



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