

Programme at a Glance

Day 0, Monday, 26th October 2009

TIME	EVENT	VENUE
17.00 – 21.00	Registration	Front of Grand BALLROOM

Day 1, Tuesday, 27th October 2009

TIME	EVENT	VENUE
08.00 – 09.00	Registration	Front of Grand BALLROOM
09.00 -10.00	Opening Ceremony	BALLROOM
10.00 -10.30	Tea Break	FOYER
10.30 - 13.00	Parallel Technical Session I	BALLROOM 1, 2, 3, ENGGANG, MERAK, HELANG, RAJAWALI
13.00 - 14.00	Lunch and Prayer	DI ATAS BRASSERIE AND MUSOLLA (8th floor)
14.00 - 16.00	Parallel Technical Session II	BALLROOM 1, 2, 3, ENGGANG, MERAK, HELANG, RAJAWALI
16.00 – 16.15	Tea Break	FOYER
16.15 – 18.30	Parallel Technical Session III	BALLROOM 1, 2, 3, ENGGANG, MERAK, HELANG, RAJAWALI

Day 2, Wednesday, 28th October 2009

TIME	EVENT	VENUE
08.30 – 10.30	Parallel Technical Session IV	BALLROOM 1, 2, 3, ENGGANG, MERAK, HELANG, RAJAWALI
10.30 - 10.45	Tea Break	FOYER
10.45 - 11.25	KEYNOTE SPEECHES	
	Keynote -1 Prof. Mustafizur Rahman Title: <i>Compound Micro Machining - A Tool-based Integrated Approach</i>	BALLROOM 1
	Keynote -2 Prof. Bekir Sami Yilbas Title: <i>Laser Cutting Process: Experimental And Model Studies</i>	BALLROOM 2
	Keynote -3 Prof. Francisco Chinesta Title: <i>On the Use of Model Reduction in Material and Processes Simulation: Realizing Some Simulation Dreams.</i>	BALLROOM 3
11.30 - 13.00	Parallel Technical Session V	BALLROOM 1, 2, 3, ENGGANG, MERAK, HELANG, RAJAWALI
13.00 – 14.00	Lunch & Prayer	DI ATAS BRASSERIE AND MUSOLLA (8th floor)
14.00 - 16.00	Parallel Technical Session VI	BALLROOM 1, 2, 3, ENGGANG, MERAK, HELANG, RAJAWALI

16.00 - 16.15	Tea Break	FOYER
16.15 - 18.30	Parallel Technical Session VII	BALLROOM 1, 2, 3, ENGGANG, MERAK, HELANG, RAJAWALI
19.30 - 22.00	Gala dinner	BALLROOM

Day 3, Thursday, 29th October 2009

TIME	EVENT	VENUE
08.30 – 10.30	Parallel Technical Session VIII	BALLROOM 1, 2, 3, ENGGANG, MERAK, HELANG, RAJAWALI
10.30 - 10.45	Tea Break	FOYER
10.45 - 11.25	KEYNOTE SPEECHES	
	Keynote -4 Prof. Faleh Abdullah Al-Sulaiman Title: <i>An Assessment of the Regional Needs For Advanced Manufacturing Technologies: Rapid Prototyping</i>	BALLROOM 1
	Keynote -5 Prof. Emin Bayraktar Title: <i>Development of Steel Matrix Composites in ARCELOR-FRANCE: Evolution of metallurgical and mechanical properties</i>	BALLROOM 2
	Keynote -6 Prof. M. Sarwar Title: <i>Wealth creation through Emerging and Established Technologies - A strategy for the future.</i>	BALLROOM 3
11.30 - 13.00	Parallel Technical Session IX	BALLROOM 1, 2, 3, ENGGANG, MERAK, HELANG, RAJAWALI
13.00 - 14.00	Lunch & Prayer	DI ATAS BRASSERIE AND MUSOLLA (8th floor)
14.00 - 15.30	Parallel Technical Session X	BALLROOM 1, 2, 3, ENGGANG, MERAK, HELANG, RAJAWALI
15.30 – 16.30	Closing Ceremony	BALLROOM 1
16.30 – 17.00	Tea Break	FOYER

Opening Ceremony

Day 1, Tuesday, 27th October 2009

TIME	EVENT	VENUE
08.30	Arrival of guests	BALLROOM
09.00	Arrival of Rector, International Islamic University Malaysia	
09.10	Recitation of verses from Al-Qur'an	
	Welcoming Speech by Chairman, Organizing Committee, AMPT 2009	
	Speech by Chairman, AMPT Steering Committee	
	Opening Speech by the Honourable Rector	
	Souvenir presentation	
	Refreshment	

Gala Dinner

Day 2, Wednesday, 28th October 2009

TIME	EVENT	VENUE
19.30	Arrival of guests	BALLROOM
19.45	Welcoming remarks	
20.00	Presentation of William Johnson Gold Medal and other Awards	
20.15	Corporate video show	
20.30	Dinner and Cultural Function	
21.50	Announcements	
22.00	End	

Day 1 Technical Session I (A-G)

DAY 1: 27 Oct, 2009, (TUESDAY)
TIME: 10.30 – 13.00

Parallel Technical Session 1A : FORMING PROCESSES
Chairperson: Su-Hai Hsiang / Co-chair: H. Haghighat

VENUE:
BALLROOM 1

ID20 LATERAL EXTRUSION OF GEAR-LIKE COMPONENTS WITH RADIAL TOOTH PROFILE: METAL FLOW SIMULATION AND ANALYSIS
H. Haghighat, D. Almasi

ID28 A NEW RIGID PLASTIC MESSLESS METHOD FOR SIMULATION OF BULK METAL FORMING PROCESSES
Mehrdad Foroutan, Mahdi Mortazavi

ID29 SCANNING PATH PLANNING IN LASER BENDING OF STEEL TUBES
X.Y. Wang, J. Wang, L. J. Wang, W.J. Xu, Y. F. Xu, D. M. Guo

ID32 ANALYSIS OF SURFACE-PERMEATION AND DIE DESIGN DURING ROD EXTRUSION PROCESSES
Y.M. Hwang and J.M. Chen

ID36 FINITE ELEMENT SIMULATION AND EXPERIMENTAL STUDY OF SHEET HYDROFORMING OF CONICAL PARTS
H. Alavi-Hashemi, A. Gorji, M. Bakhshi-Jooybari

ID37 STUDY ON THE FORMABILITY OF MAGNESIUM ALLOY FOR BEARING COVER WITH INNER CAVITY UNDER HOT FORGING
Huey-Lin Ho, Su-Hai Hsiang and Pao-Te Wang

ID39 THE EFFECT OF PRESSURE PATH ON FILLING AND FORMING OF HYDROFORMED BELLOWS
M. Elyasi, A. Baghalian, M. Bakhshi-Jooybari, A. Gorji

ID40 STUDY ON THE EFFECT OF PROCESS PARAMETERS ON EXISTED DEFECTS IN PRODUCING A CYLINDRICAL STEPPED TUBE IN A NEW HYDROFORMING DIE
P. Zoghypour, M. Elyasi, M. Bakhshi-Jooybari, A. Gorji

ID42 EXPERIMENTAL AND NUMERICAL INVESTIGATION OF THE EFFECT OF PROCESS PARAMETERS IN A NEW SHEET HYDROFORMING METHOD
H. Mostajeran, M. Hosseinzade, M. Bakhshi-Jooybari, A. Gorji, S. Nourouzi
S. J. Hosseini-pour

ID45 OPTIMIZATION OF HOT EXTRUSION PROCESS FOR AZ61 MAGNESIUM ALLOY CARRIERS
Su-Hai Hsiang, Yi-Wei Lin and Jhong-Wei Lai

ID862 AN EXPONENTIAL PARAMETRIC MODEL FOR PARALLELISM DEVIATION IN THE DRY TURNING OF AEROSPACE ALLOYS
J. Salguero, J.M. Sánchez-Sola, E. Rubio, M.A. Sebastián, M. Marcos

Parallel Technical Session 1B : MATERIALS
Chairperson: Momoh J.E Salami / Co-chair: N. Sa'ude

VENUE:
BALLROOM 2

DAY 1: 27 Oct, 2009, (TUESDAY)
TIME: 10.30 – 13.00

ID21 EFFECT OF SURFACE PRETREATMENTS ON MORPHOLOGY AND QUALITY OF POLYCRYSTALLINE DIAMOND DEPOSITED ON SILICON NITRIDE SUBSTRATES
D.N Awang Sh'ri and E. Hamzah

ID35 METAL BASED MATERIAL FOR THREE DIMENSIONAL PRINTER (3DP) IN RAPID PROTOTYPING BY USING SINTERING APPROACH
N. Sa'ude, M. Ibrahim, E.Y. Mei

ID58 DETERMINATION OF THE CONSTANTS OF ZERILLI-ARMSTRONG CONSTITUTIVE RELATION USING GENETIC ALGORITHM
G.H. Majzoubi, F. Freshteh-Saniee, S. Faraj Zadeh Khosroshahi, H. Beik mohahhadloo

ID68 AN INVESTIGATION ON THE EFFECT OF SONICATION TIME AND DISPERSING MEDIUM ON THE MECHANICAL PROPERTIES OF MWNTS IN MWCNT/LY 560 NANOCOMPOSITES
Arash Montazeri, Alireza Khavandi, Jafar Javadpour, Abbas Tcharkhtchi

ID73 SYNTHESIS OF β -TCP NANOPOWDERS IN CHEMICAL PRECIPITATION METHOD FOR BIOMEDICAL APPLICATION
M. Bagheri Hossein Abadi, A. Khavandi, B. Karami

ID75 DEVELOPMENT OF SURFACE ROUGHNESS MODEL OF MACHINABLE GLASS CERAMIC PROCESSED BY MICRO END MILLING
M. Mohan Reddy, K.A. Abou-El-Hossein, M.Hamdi, Alexander Gorin, G.Rajamohana

ID76 EFFECTS OF MATERIAL PROPERTIES AND THICKNESS OF DIE ATTACH ON WARPAGE AND STRESSES OF TSOP
C.L. Chang, P.Y. Chen, M.H. Huang

ID95 REDUCTION OF SINTERING TEMPERATURE OF POROUS TUNGSTEN SKELETON USED FOR PRODUCTION OF W-CU COMPOSITES BY ULTRA HIGH COMPACTION PRESSURE OF TUNGSTEN POWDER
A. Ghaderi Hamidi, H. Arabi, S. Rastegari, S.M.M. Hadavi

ID118 HYDROTHERMAL SYNTHESIS AND CHARACTERIZATION OF HYDROXYAPATITE, FLUORHYDROXYAPATITE AND FLUORAPATITE POWDERS
L. Montazeri, J. Javadpour and M.A. Shokrgozar

ID757 ELASTIC-PLASTIC THERMAL SHOCK ANALYSIS: MODELLING OF BIAxIAL CRACK GROWTH RATES IN A THIN 316 STAINLESS STEEL PLATE
S T Hasan and L E Easterbrook

DAY 1: 27 Oct, 2009, (TUESDAY)
TIME: 10.30 – 13.00

Parallel Technical Session 1C : MATERIALS
Chairperson: Meftah Hrairi / Co-chair: S. Asgari

VENUE:
BALLROOM 3

- ID162** ELECTRICAL PROPERTIES OF CARBON NANOTUBES-BASED EPOXY NANOCOMPOSITES FOR HIGH ELECTRICAL CONDUCTIVE PLATE
Hendra Suherman, Abu Bakar Sulong and Jaafar Sahari
- ID166** LUMINESCENCE AND MAGNETIC PROPERTIES OF MN²⁺ DOPED CDS DILUTED MAGNETIC SEMICONDUCTOR NANOPARTICLES
S. Salimian and S. Farjami Shayesteh
- ID168** STATIC RECRYSTALLIZATION BEHAVIOR OF AEREX 350 SUPERALLOY
S. Asgari and M. Hosseinifar
- ID169** EFFECT OF SPAN LENGTH ON THE TENSILE PROPERTIES OF NATURAL FIBERS
S. Biswas, Q. Ahsan, I. Verpoest and M. Hasan
- ID177** EFFECT OF LAYER THICKNESS, ALLOY COMPOSITION AND TEMPERATURE ON CHARGE DENSITY AT Al_xGa_{1-x}N/GaN HETEROINTERFACE
Faisal Jahan, Mainul Hossain, Md. Ahsan Uddin, Tasbirun Nahian Upal and Zahid Hasan Mahmood
- ID180** IMPACT STRENGTH OF CARBON REINFORCED EPOXY COMPOSITE AT DIFFERENT TEMPERATURES
T. A. Lenda and S. Mridha
- ID181** MOISTURE ABSORPTION INFLUENCE ON IMPACT STRENGTH AND FAILURE BEHAVIOR OF HYBRID JUTE- CARBON/ EPOXY COMPOSITE
T. A. Lenda and S. Mridha
- ID183** A PROGRAMMABLE SYSTEM FOR TREATMENT OF ALLOY STEELS AT CRYOGENIC TEMPERATURES
F. Farhani, K.S. Niaki
- ID189** INFLUENCE OF STACKING FAULT ENERGY AND SHORT RANGE ORDERING ON DYNAMIC RECOVERY AND WORK HARDENING BEHAVIOR OF FCC ALLOYS
Farzad Hamdi and Sirous Asgari
- ID205** EFFECTS OF Ca ADDITIONS ON THE MICROSTRUCTURE AND MECHANICAL PROPERTIES OF AS-CAST AND ANNEALED Mg-5%Sn ALLOY
G. Nayeri and R. Mahmudi
- ID564** EROSION WEAR OF GLASS FIBER AND B₂O₃ REINFORCED EPOXY COMPOSITES
Mehmet Bagci and Huseyin Imrek

DAY 1: 27 Oct, 2009, (TUESDAY)
TIME: 10.30 – 13.00

Parallel Technical Session 1D : MATERIAL REMOVAL PROCESSES
Chairperson: Souren Mitra / Co-chair: Yung-Cheng Wang

VENUE:
ENGGANG

- ID23** SEPARATION OF Ni FROM SULFATE SOLUTION CONTAINING Cu (II) BY USING LIX984N
Maryam Joze Gholami Barmi, Alireza Zakeri, Hekmat Razavizadeh
- ID33** RESPONSE SURFACE ANALYSIS OF EDMED SURFACES OF AISI D2 STEEL
Mohan Kumar Pradhan, Chandan Kumar Biswas
- ID38** ELECTRO DISCHARGE MACHINING OF TITANIUM NITRIDE-ALUMINIUM OXIDE COMPOSITE MATERIAL FOR OPTIMUM PROCESS CRITERIAL YIELD
Souren Mitra, Soumya Sarkar, D.Bhaduri, Goutam Paul, Sampad Biswas
- ID48** STUDY OF ELECTROCHEMICAL DEBURRING (ECD) OF SS304 STAINLESS STEEL WORKPIECE FOR ENHANCED DEBURRING CHARACTERISTICS
Souren Mitra, Soumya Sarkar, Manoj Singha
- ID50** THE PREDICTIVE MODEL OF SURFACE INTEGRITY IN END-MILL GRINDING FOR HIGH-SPEED MILLING
Yung-Cheng Wang, Chi-Hsiang Chen and Bean-Yin Lee
- ID51** ULTRA-PRECISION SURFACE FINISH OF THE MEDIUM-SIZED MOLD STEEL USING AN INNOVATIVE SPHERICAL-LIKE POLISHING TOOL
F.J. Shiou and J.H. Liao
- ID60** SMALL HOLE EDM BY CURRENT DIVIDING BASED ON DISCHARGING-AREA EQUALIZATION
X.Y. Wang, J. L. Li, Y. D. Liang, W.J. Xu, and L.J. Wang
- ID81** EXPERIMENTAL INVESTIGATION OF CYLINDRICAL WIRE ELECTRICAL DISCHARGE MACHINING (CWEDM)
H. Mohammadi, A. Fadaei Tehrani
- ID82** EVALUATION OF SURFACE ROUGHNESS AND MATERIAL REMOVAL RATE IN CWEDM USING DOE AND ANN
H.Mohammadi, A. Fadai Tehrani and K.Torkzadeh
- ID89** PERFORMANCE OF NITROGEN GAS AS A COOLANT IN MACHINING OF TITANIUM
T.T. Mon, H. Zamzuri, S. Sharif, V.C. Venkatesh, A.R.M. Masri, E. Sue-Rynley
- ID131** ON MACHINABILITY OF FERROMAGNETIC STEELS BY MAGNETICALLY-ASSISTED CUTTING PROCESS
Mohamed El Mansori

DAY 1: 27 Oct, 2009, (TUESDAY)
TIME: 10.30 – 13.00

Parallel Technical Session 1E : SURFACE ENGINEERING

Chairperson: S. J. Askari / Co-chair: Kh. M. Adel

VENUE:
MERAK

ID86 METHOD, TECHNOLOGY AND EQUIPMENT FOR IN DEPTH SURFACE HARDENING
D. S. Stavrev and Ts. D. Dikova

ID163 TRIBOLOGICAL CHARACTERISTICS OF CVD NANOCRYSTALLINE DIAMOND FILM GROWN BY BIAS ENHANCED NUCLEATION PROCESS
S. J. Askari and U. Umer

ID182 EXPERIMENTAL INVESTIGATION OF SURFACE ROUGHNESS IN WIRE ELECTRICAL DISCHARGE TURNING
Aminollah Mohammadi and Alireza Fadaei Tehrani

ID185 DYNAMIC CHARACTERISTICS AND EFFICIENCY OF A FLUIDIZED BED HEAT TREATMENT PROCESS
F.H. She, W.M. Gao, P.D. Hodgson and L.X. Kong 1

ID186 INFLUENCE OF MAGNETIC FIELD ON CORROSION RESISTANCE AND MICROSTRUCTURE OF ELECTRODEPOSITED Ni COATINGS
Mehdi Ebadi, Wan Jeffrey Basirun, Yatimah Alias

ID187 MORPHOLOGY AND MASS CHANGES WITH MAGNETIC FIELD DURING THE ELECTRODEPOSITION OF Ni-Co
Mehdi Ebadi, Wan Jeffrey Basirun, Yatimah Alias

ID188 FEA SIMULATION OF CONTACT AND WEAR BETWEEN NON-METALLIC MATERIALS FOR ACCELERATED NEW PRODUCT DEVELOPMENT
H. Lin, H.-Y. Lin and L.X. Kong

ID192 PREDICTION OF LASER SEALED ADVANCED CERAMIC COATINGS DIMENSIONS BY USING FINITE ELEMENT MODEL AND COMPUTATIONAL METHOD
Kh. M. Adel, E.K. Ekhlhas and S.H. Shaker

ID202 EFFECTS OF TESTING TEMPERATURE AND SLIDING SPEED ON THE WEAR BEHAVIOR OF A LOW ALLOY GAS NITRIDED STEEL
M. Emami, H. M. Ghasemi, J. Rassizadehghani

ID638 APPLICATION OF FEM SIMULATION AND ABDUCTIVE NETWORK TO PREDICT SCRATCH CHARACTERS FOR THE ENGINEERING MATERIAL
T.S. Yang, J.C. Chou and S.Y. Chang

DAY 1: 27 Oct, 2009, (TUESDAY)
TIME: 10.30 – 13.00

Parallel Technical Session 1F : CAD, CAM, CAE

Chairperson: Wahyudi Martono / Co-chair: M. Yamashita

VENUE:
HELANG

ID57 APPLICATION OF RAPID PROTOTYPING IN MANUFACTURING CUSTOMIZED NASAL MASK CUSHION FOR CPAP DEVICE
Yih-Lin Cheng and Jin-Chiou Chu

ID105 EFFECT OF DRAW BEAD HEIGHT ON THE WALL FEATURES IN RECTANGULAR DEEP-DRAWING PROCESS USING FINITE ELEMENT METHOD
S. Thipprakmas

ID194 BUILDING A COMPUTATIONAL SIMULATION MODEL FOR PREDICTION OF THE TEMPERATURE DISTRIBUTION IN LASER SEALING PROCESSING OF ADVANCED CERAMIC COATINGS
Kh. M. Adel, E.K. Ekhlhas, J.Gh.Mariyam

ID250 EFFECT OF HYDROFORMING AND STAMPING PROCESSES ON THE CRASHWORTHINESS OF S-RAIL
Anil Kumar. R, Lalith Kumar, S. Srikari, Vinod. K. Banthia

ID256 SHAPE OPTIMIZATION OF POWDER COMPACTION PROCESSES VIA GENETIC ALGORITHM TECHNIQUE
A.R. Khoei, Sh. Keshavarz and A.R. Khaloo

ID315 ELECTROMAGNETIC STIRRING OF METAL MELTS
H.Namaki, S.H.Seyedein, R.Ghasemzadeh, M.R. Afshar Moghadam

ID352 NUMERICAL SIMULATION OF WELDING SEQUENCE EFFECT ON TEMPERATURE DISTRIBUTION, RESIDUAL STRESSES AND DISTORTIONS OF T-JOINT FILLET WELDS
N. Syahroni, M. I. P. Hidayat

ID359 BEHAVIOR OF MORTARLESS WALL SUBJECTED TO IN-PLANE COMBINED LOADING
N. A. Safiee, M.S. Jaafar and J. Noorzaei

ID364 NUMERICAL SIMULATION OF IMPACT COMPRESSION TEST BY SPLIT HOPKINSON PRESSURE BAR TECHNIQUE
M. Yamashita, H. Kanbara, T. Hattori and Y. Sato

ID377 STUDY OF SPRING-BACK/RELAXATION BEHAVIOR OF HONEYCOMB STRUCTURE AND ITS APPLICATION TO THE SIMULATION OF SPRING-BACK PHENOMENA OF SANDWICH STRUCTURE SUBJECTED TO LOW ENERGY AND LOW VELOCITY IMPACT
Y.Aminanda, B.Castanie, J.J Barrau P.Thevenet

Parallel Technical Session 1G : MANUFACTURING MANAGEMENT		VENUE: RAJAWALI
Chairperson: Erry Adesta / Co-chair: Tzu-Yu Huang		
DAY 1: 27 Oct, 2009, (TUESDAY) TIME: 10.30 – 13.00	ID14 ADOPTING LEAN PRINCIPLES: A CASE STUDY Nurul Shahida Binti Mohd Shalahim	
	ID15 A PRELIMINARY STUDY ON FACILITY LAYOUT DESIGN DEVELOPMENT TOWARDS WORLD CLASS MANUFACTURING ACHIEVEMENT N.S.M. Shalahim	
	ID142 INFLUENCE OF SMALL AMOUNT OF AI AND Cu ADDITION ON THE STRUCTURE AND PROPERTIES OF Sn-9Zn SOLDER ALLOY FOR ELECTRONIC PACKAGING Sazol Kumar Das and Ahmed Sharif	
	ID184 MICROIMPRINT OF SOLAR-EFFICIENT GUIDE PANEL OF INORGANIC-ORGANIC HYBRID MATERIAL Tzu-Yu Huang, Ta-Hsin Chou, Wen-Hsien Yang, Kuei-Yuan Cheng and Hong Hocheng	
	ID221 A MATERIAL AND PRODUCT AUDIT METHOD FOR DETERMINING THE LEVEL OF QUALITY Soroush Avakh Darestani, Yusof b. Ismail, Napsiah bt. Ismail, Norzima Zulkifli	
	ID330 RECONFIGURABILITY APPROACH IN MANUFACTURE OF MOULDS AND DIES A.O. Oke, K. Abou-El-Hossein, I. Gorlach and N. Theron	
	ID346 METHOD AND TOOL FOR THE INTEGRATION INTO THE SUSTAINABLE DEVELOPMENT: CASE OF POLLUTING INDUSTRY M. Abdelmoumene and N. Bourmada	
	ID353 A QUALITY STEPS FOR A SUSTAINABLE DEVELOPMENT: CASE OF FOOD PROCESSING Fedali Yamina And Bourmada Noureddine, Djebabra Mebarek	
	ID399 DEVELOPMENT OF ANTHROPOMETRIC DATA FOR ENGINEERING STUDENTS IN UNIVERSITY TUN HUSSEIN ONN MALAYSIA Shara Casey Anak Keping Kanring	
	ID409 ENVIRONMENTAL DIAGNOSTIC FOR A SUSTAINABLE DEVELOPMENT M. Abdelmoumene and N. Bourmada	

Day 1 Technical Session II (A-G)

Parallel Technical Session 2A : FORMING PROCESSES		VENUE: BALLROOM 1
Chairperson: Mehrdad Foroutan / Co-chair: Dyi-Cheng Chen		
DAY 1: 27 Oct, 2009, (TUESDAY) TIME: 14.00 – 16.00	ID54 NUMERICAL AND EXPERIMENTAL RESEARCH ON THE FLEXIBLE FORMING OF METAL SHEET USING MAGNETIC-DRIVING PLASMA ARC W.J. Xu, W.Q. Song, X.Y. Wang, J.B. Meng	
	ID65 OPTIMUM PROCESS PARAMETERS TO MINIMIZE SHRINKAGE DEFECT USING ABS MATERIAL A. H. Ahmad, Z. Leman, M. A. Azmir, M. R. M. Akramin	
	ID66 LIMIT ANALYSIS OF LATERAL EXTRUSION OF GEAR-LIKE COMPONENTS WITH RADIAL TOOTH PROFILE H. Haghighat, M. Bajelan, D. Almasi	
	ID67 COMPARISON OF AXIAL CRUSHING OF GROOVED THIN-WALLED TUBES USING EXPERIMENTAL AND FINITE ELEMENT SIMULATION S.E. Mirmohammadsadeghi, S.J. Hosseinipour, M.Bakhshi	
	ID74 INVESTIGATION OF THE EFFECT OF MATERIAL PROPERTIES AND PROCESS PARAMETERS ON DIE CAVITY FILLING IN HYDROFORMING OF CYLINDRICAL STEPPED TUBES H. Khanlari, M. Elyasi, M. Bakhshi-Jooybari, A. Gorji, B. Davoodi	
	ID77 FINITE ELEMENT ANALYSIS AND DIE DESIGN OF EXTRUSION PROCESSES OF RADIAL-FINNED HEAT SINK Dyi-Cheng Chen, Jhih-Ming Chen, Ming-Wei Guo, Chih-Hsuan Jao, Wen-Jong Chen	
	ID85 EXPERIMENTAL INVESTIGATION OF BIMETALLIC TUBES S.T.Momeni, S.J.Hosseinipour, S.Nourouzi, A.H.Gorji	
	ID110 MATHEMATICAL MODELING OF FLOW BEHAVIOUR OF API-X70 DURING HOT TORSION TESTING B. Mirzakhani, H. Arabi, M.T. Salehi, S. Khoddam, J. Sietsma, A. Shokouhi	

DAY 1: 27 Oct, 2009, (TUESDAY) TIME: 14:00– 16:00	Parallel Technical Session 2B : FORMING PROCESSES		VENUE:
	Chairperson: Suryanto / Co-chair: Y. Kasuga		BALLROOM 2
	ID111 IMPROVEMENT OF TOOL DISTORTION IN PRESS CUTTING OF A SQUARE PIPE WITH THIN WALL Y. Kasuga, M. Murakami, T. Ehiro, S. Kawamori and T. Okai		
	ID113 RESEARCH ON EFFECT OF FEED SPEED ON VERTICAL RING ROLLING PROCESS BY COUPLED THERMO-MECHANICAL 3D FEA Nassir Anjami, Ali Basti		
	ID114 INVESTIGATION ON CONSTANT AND VARIABLE FEED SPEEDS EFFECTS IN RING ROLLING PROCESS USING 3D FEM Nassir Anjami, Ali Basti		
	ID115 A COMPARISON BETWEEN ISOTHERMAL AND COUPLED THERMOMECHANICAL FE ANALYSES OF THE RING ROLLING PROCESS Nassir Anjami, Ali Basti		
	ID117 OPTIMIZING SPRINGBACK OF TUBE HYDROFORMING USING PROCESS SIMULATION AND GENETIC ALGORITHM OPTIMIZATION Mir Emad Hosseini Abbas Vafaeseefat		
	ID129 MICROSTRUCTURAL EVOLUTION OF AZ91 MAGNESIUM ALLOY DURING DEFORMATION AND HEAT TREATMENT Jingyuan Li, Jianxin Xie		
	ID135 DEVELOPMENT OF CONSTITUTIVE RELATIONSHIP USING UNIAXIAL COMPRESSION TESTING OF IN690 SUPERALLOY Sun Chaoyang, Liu Jinrong, Zhang Qingdong, Dong Jianxin		
	ID173 PROCESS DESIGN OF COLD COMBINATION EXTRUSION FOR A MOTOR COUPLING H.S. Lin, Y.C. Hsu, C.C. Keh		

DAY 1: 27 Oct, 2009, (TUESDAY) TIME: 14:00– 16:00	Parallel Technical Session 2C : CASTING AND JOINING		VENUE:
	Chairperson: Mohammad-Ebrahim Aalami-Aleagha/ Co-chair: Mahadzir Ishak		MERAK
	ID12 MANUFACTURING, MECHANICAL TESTING, CHARACTERIZATION, AND FRACTURE SURFACE ANALYSIS OF TUNGSTEN CARBIDE AND ALUMINIUM SILICATE PARTICULATE REINFORCED ALUMINIUM-11.8% SILICON ALLOY MATRIX HYBRID COMPOSITE CASTINGS Vijayaram Raghavan Thoguluva, Shamsuddin Sulaiman		
	ID13 EFFECT OF PRESSURE ON PROPERTIES AND MICROSTRUCTURE DURING THE METALLURGICAL PROCESSING OF LM6 ALLOY CASTINGS Vijayaram Raghavan Thoguluva, Shamsuddin Sulaiman		
	ID16 EFFECT OF PLASTIC DEFORMATION ON INTERMETALLIC COMPOUNDS AND SEMISOLID MICROSTRUCTURE OF Al-8Si-3Cu-4Fe-2Mn ALLOY S.G. Shabestari and M.Ghanbari		
	ID49 LAP WELDING CHARACTERISTICS OF THIN SHEET AZ31 MAGNESIUM ALLOY BY PULSED Nd:YAG LASER Mahadzir Ishak, Kazuhiko Yamasaki and Katsuhiro Maekawa		
	ID78 Al-4.5Cu-3.8Fe IN-SITU COMPOSITES: EFFECT OF ROLLING ON MICROSTRUCTURE AND WEAR PROPERTIES S. K. Shaha, A. S. W. Kurny and M. Hasan		
	ID79 EFFECT OF RATE OF ENERGY INPUT ON MICROSTRUCTURE AND HARDNESS OF TIG WELDED AISI 430- FERRITIC STAINLESS STEEL Muhammed Olawale Hakeem Amuda, Shahjahan Mridha		
	ID94 INVESTIGATION OF JOINT GROOVE GEOMETRY EFFECT ON THE RESIDUAL STRESSES IN CIRCUMFERENTIALLY BUTT-WELDED STEEL PIPES BY THE FEM SIMULATION M. Foroutan, M.E. Aalami-e-Aleagha and S. Pirmoradi		
	ID116 GRAIN GROWTH EVALUATION IN HAZ OF WELDED PIPES USING DIMENSIONLESS PARAMETERS AND OPTIMUM PRE-EXPONENTIAL CONSTANT FOR SEAM WELD AND SEAMLESS PIPES M. E. Aalami-Aleagha and S. Rasaee		

DAY 1: 27 Oct, 2009, (TUESDAY)
TIME: 14:00– 16.00

Parallel Technical Session 2D : MATERIALS
Chairperson: Y. Al-Douri / Co-chair: M.R. Mahmoudian

VENUE:
BALLROOM 3

ID211 BENDING PROPERTIES OF GLASS FIBER-KENAF-ALBIZZIA-POLYESTER SANDWICH HYBRID COMPOSITES

Jamasri, K. Diharjo, Soekrisno and H. S. B. Rochardjo

ID217 THE STUDY OF GRAFTING GLYCIDYL METHACRYLATE ONTO NATURAL RUBBER

P. Juntuek, C. Ruksakulpiwat, P. Chumsamrong and Y. Ruksakulpiwat

ID222 EFFECTS OF TYPE AND CONCENTRATION OF INITIATOR ON GRAFTING OF ACRYLIC MONOMER ONTO DEPOLYMERIZED NATURAL RUBBER

N. Prasetsopha, P. Chumsamrong and N. Suppakarn

ID224 EVALUATION OF COMPRESSIVE STRENGTH OF EGGSHELL HYDROXYAPATITE

W.M.A. Ibrahim and A.S. Mohamad Kasim

ID225 COMPRESSIVE STRENGTH OF RICE HUSK FILLED RESIN

W.M.A. Ibrahim and S.Y. Kuek

ID226 ELECTRONIC AND POSITRON PROPERTIES OF ZINC-BLENDE STRUCTURE OF MGTE, CDTE AND THEIR ALLOY MG1-XCDXTE

Y. Al-Douri

ID229 STUDIES ON THE EFFECTS OF THE POTENTIAL SWEEP RATES AND pH ON THE CORROSION RATE OF POLYANILINE COATED STEEL

M.R. Mahmoudian, Y. Alias, W. J. Basirun

ID230 INVESTIGATION ON TRIBOLOGICAL PROPERTIES OF STRONTIUM MODIFIED PISTON ALLOY UNDER LUBRICATED CONDITION

M. M. Haque, Adibah Amir and Ahmad F. Ismail

DAY 1: 27 Oct, 2009, (TUESDAY)
TIME: 14:00– 16.00

Parallel Technical Session 2E: MATERIAL REMOVAL PROCESSES

Chairperson: Shigeru Nagasawa / Co-chair: A.A. Hamdan

VENUE:
ENGGANG

ID91 EVALUATION ON THE EFFECT OF USING CUTTING FLUID IN SLOT MILLING OF AISI 304 STAINLESS STEEL USING TiAlN COATED CARBIDE INSERT

A.A. Hamdan, M. Hamdi, K.A. Abou-El-Hossein, M. Fadzil

ID96 A FEASIBILITY STUDY ON THINNING PROCESS OF QUARTZ WAFER USING MCF POLISHING LIQUID

Yuta Inagaki, Takashi Sato, Yongbo Wu, Weimin Lin and Kunio Shimada

ID102 IMPROVEMENT OF SURFACE ROUGHNESS IN END MILLING OF Ti6Al4V BY COUPLING RSM WITH GENETIC ALGORITHM

Md. Anayet U Patwari, A.K.M. Nurul Amin, S. Alam

ID103 STATISTICAL APPROACH FOR THE DEVELOPMENT OF TANGENTIAL CUTTING FORCE MODEL IN END MILLING OF Ti6Al4V

Md. Anayet U Patwari A.K.M. Nurul Amin, Waleed F. Faris

ID104 SURFACE ROUGHNESS PREDICTION IN HIGH SPEED FLAT END MILLING OF Ti-6Al-4V AND OPTIMIZATION BY DESIRABILITY FUNCTION OF RSM

S. Alam, AKM Nurul Amin, M. Konneh, Anayet U. Patwari

ID128 EFFECT OF TOOL CONDITION ON WEDGING CHARACTERISTICS OF POLYCARBONATE SHEETS

Shigeru Nagasawa, Takuya Takahashi, Masatoshi Fujikura And Yasushi Fukuzawa

ID133 SENSING TOOL BREAKAGE IN FACE MILLING BY SUPPORT VECTOR MACHINE

Yao-Wen Hsueh, Chan-Yun Yang

ID134 PREDICTION OF SURFACE ROUGHNESS IN HIGH SPEED MACHINING OF INCONEL 718

Suhaily M, AKM Nurul Amin, Md. Anayet U Patwari

DAY 1: 27 Oct, 2009, (TUESDAY) TIME: 14:00 – 16:00	Parallel Technical Session 2F : NANOTECHNOLOGY	VENUE:
	Chairperson: Md Yeakub Ali/ Co-chair: Anton Fojtik	RAJAWALI
	ID24 MEASURING AND STUDY THE CHANGE IN INP (100) PHYSICAL SPECIFICATION CAUSED BY OXYGEN ION IMPLANTATION A. H. Ramezani, M.R.Hantezadeh, M. Ghoranneviss, A. Shokouhy , M.Joze gholami barmi ID47 EFFECTS OF ULTRASONIC VIBRATION IN TRUING/DRESSING OF SMALL METAL BONDED DIAMOND GRINDING WHEEL USED FOR INTERNAL GRINDING Y. Wu, Y. Takahashi, T. Sato, W.Lin and M. Take ID138 MECHANICAL AND ELECTRICAL PROPERTIES OF FUNCTIONALIZED MULTI-WALLED CARBON NANOTUBES ON THE POLYETHYLENE MATRIX COMPOSITES Abu Bakar Sulong, Norhamidi Muhamad, Che Husna Azahari and Joohyuk Park ID139 PROCESS OPTMIZATION OF UV/O3 TREATED MULTI-WALLED CARBON NANOTUBES REINFORCED POLYETHYLENE COMPOSITE FIBRE BY MELT SPINNING Abu Bakar Sulong, Norhamidi Mohamad, Che Husna Azhari and Joohyuk Park ID141 ETCHING RATE OF MACHINABLE GLASS CERAMIC Ting H.T., K.A. Abou-El-Hossein, Chua H.B. ID235 MAGNETIC AND METALLIC NANOPARTICLES FOR BIOMEDICAL APPLICATION Anton Fojtik, Daniel Horák, Kateřina Píksová and Tomáš Škřeň ID254 DEVELOPMENT OF THE ULTRA-THIN DIAMOND GRINDING WHEEL BY THE HYBRID PROCESS Shun-Tong Chen, Shing-Jr Lin ID843 TWO DIMENSIONAL QUASI-STEADY MOLECULAR STATICS NANOCUTTING SIMULATION FOR CUTTING COPPER MATERIAL WITH POINT DEFECT Zone-Ching Lin and Jia-Rong Ye	

DAY 1: 27 Oct, 2009, (TUESDAY) TIME: 14:00 – 16:00	Parallel Technical Session 2G : CAD, CAM, CAE	VENUE:
	Chairperson: Othman Khalifa / Co-chair: R. N. Khapre	HELANG
	ID395 THE COMPARATIVE STUDY OF TOTAL FATIGUE DAMAGE OF THE ORIGINAL FATIGUE SIGNAL AND EDITED FATIGUE SIGNAL N. Ismail, S. Abdullah, M. Z. Nuawi, C. K. E. Nizwan and M. F. Abdullah ID438 THE TREDGOLD METHOD IN REVERSE ENGINEERING TO CHECK THE ASSEMBLY OF A CONICAL SPUR GEAR USING CAD F. Belarifi and E. Bayraktar ID453 A GENETIC ALGORITHM APPROACH WITH PARETO OPTIMAL SOLUTION FOR MULTI-OBJECTIVE FACILITY LAYOUT PROBLEM Seratun Jannat, Md. Ahsan Akhtar Hasin and Abdullah-Al- Khaled ID477 ANALYSING THE WAVELET TRANSFORMS OF FATIGUE STRAIN SIGNALS: APPLICATION IN THE MORLET AND DAUBECHIES WAVELET FAMILIES S. Abdullah, T. E. Putra, and M. Z. Nuawi ID524 EFFECT OF TAPERED WORK ROLL END SHAPE ON EDGE DROP CONTROL IN SIX-HIGH COLD ROLLING MILL Yun Zhang, Quan Yang, Xiaozhong Du, Xiaochen Wang, Xianglong Yu ID550 FINITE ELEMENT SIMULATION OF NOSING OF TUBULAR CIRCULAR METALLIC TUBES USING PARALLEL COMPUTING R. N. Khapre and P. K. Gupta ID597 3D MODELLING AND ANALYSIS FLOW OF AIR CONDITIONER OUTDOOR FAN FOR COST REDUCTION Seung Hyun Choi, Jae Yeol Kim, Kyung Seok Song, Dae Kwang Park ID613 ANALYSIS ON BENDING CONDITION OF PLATE IN BENDING ROLLS OF COILBOX WITH FEM Yu Xiang-long Yang Quan	

Day 1 Technical Session III (A-G)

Parallel Technical Session 3A : FORMING PROCESSES

Chairperson: Rajiv Prakash / Co-chair: Yan Liu

VENUE:
BALLROOM 1

DAY 1: 27 Oct, 2009, (TUESDAY)
TIME: 16:15– 18.30

ID209 DEVELOPMENT OF A NEW RAPID MANUFACTURING PROCESS FOR MICRO-CYLINDRICAL LENS ARRAY

Chien-Yao Huang, Kuo-Cheng Huang, Jun-Cheng Chen, Keng-Souo Chang, Shih-Feng Tseng, Chang-Pin Chou

ID228 EXPERIMENTAL INVESTIGATION ON THE INSTABILITY OF AL SHEET IN HYDRAULIC BULGING BASED ON ESPI

Yan Liu and Zhongjin Wang

ID255 3D CONTACT MODELING OF LARGE PLASTIC DEFORMATION IN POWDER FORMING PROCESSES

A.R. Khoei, S.O.R. Biabanaki, S.M. Taheri-Mousavi and A.R. Vafa

ID258 EFFECT OF HOT ROLLING DEFORMATION ON SUPERPLASTIC DEFORMATION BEHAVIOR OF TiNp/2014Al COMPOSITE

H.E Hu, L. Zhen and T. Imai

ID273 THE USE OF BACK-DRAWING INCREMENTAL FORMING (BIF) TO IMPROVE GEOMETRICAL ACCURACY IN SHEET METAL PARTS

G. Ambrogio, L. Filice, G.L. Manco

ID274 SOME CONSIDERATIONS ON SHEET THINNING IN INCREMENTAL FORMING PROCESS

G. Ambrogio, L. Filice and G.L. Manco

ID275 OPTIMUM DESIGN OF A THREE-LAYER ASSEMBLED CAVITY DIE

Jun-song Jin, Xing-yun Wang, Ju-chen Xia, Lei Deng

ID285 FE SIMULATION AND EXPERIMENTAL STUDY OF TUBE HYDROFORMING PROCESS FOR AA1050 ALLOY AT VARIOUS TEMPERATURES

H. Moslemi Naeini, G.h. Liaghat, S.J. Hashemi Ghiri, S.M.H. Seyedkashi

ID357 INVESTIGATION ON EARING BEHAVIOR OF AA 2024 T4 AND AA 5754 O ALUMINUM ALLOYS

Mevlut Turkoz, Murat Dilmeç and Huseyin Selcuk Halkaci

Parallel Technical Session 3B : CASTING AND JOINING

Chairperson: Zhong-jin Wang / Co-chair: Majid Karimian

VENUE:
MERAK

DAY 1: 27 Oct, 2009, (TUESDAY)
TIME: 16:15– 18.30

ID132 COMPUTER-AIDED COOLING CURVE THERMAL ANALYSIS USED TO PREDICT THE QUALITY OF ALUMINUM ALLOYS

M. Malekan and S.G. Shabestari

ID157 EFFECT OF POURING TEMPERATURE AND MELT TREATMENT OF AL-Si LM6 ALLOY (LFC) ON MICROSTRUCTURE

Majid Karimian, Ai ourdjini, Mohd Hasbullah bin Haj Idris, Mohammed Bsher . A . Asmael

ID196 QUANTITATIVE STEREOLOGY FOR ROUGHNESS MORPHOLOGY OF ALUMINUM ALLOY

Noor Elisuranie Salehudin, Azman Jalar and Abdul Razak Daud

ID236 RESEARCH ON MULTI-STEPS TUBE-COMPRESSION OF THIN-WALL PARTS WITH VARIABLE DIAMETER BY VISCOUS PRESSURE FORMING

Zhong-jin Wang, Ji-guang Li, Hai-lan Gong

ID237 Sn-RICH PHASE COARSENING IN Sn-Ag-Cu SOLDER JOINT DURING MODERATE CURRENT STRESSING.

N. Saud and A. Jalar

ID251 THE INFLUENCE OF GATING SYSTEM, SAND GRAIN SIZE AND MOULD COATING ON MICROSTRUCTURE AND MECHANICAL PROPERTIES OF THIN WALL DUCTILE IRON

H. Jafari, M.H. Idris, A. Ourdjini and V. Ahmadshoar

ID257 EFFECT OF DEFORMATION TEMPERATURE ON DEFORMATION BEHAVIOR OF HIGH STRENGTH ALUMINUM ALLOY

xin-yun wang, hui-e hu and ju-chen xia

ID283 MATHEMATICAL MODELING OF TURBULENT FLUID FLOW AND MASS TRANSFER IN A STEEL CONTINUOUS CASTING TUNDISH

N. Sharifi, S.H. Seyedein, M.R. Aboutalebi

ID299 ON THE DEPENDENCE OF MICROSTRUCTURE- SENSITIVE PROPERTIES OF CAST 2XXX SERIES ALUMINIUM ALLOY ON SOLIDIFICATION PARAMETERS.

M.Olawale Hakeem Amuda, Oluremi Morounkola Farombi, Olumuyiwa Johnson Agunsoye, Atinuke Oladoye and Olakunle Wasiu Subair

DAY 1: 27 Oct, 2009, (TUESDAY)
TIME: 16:15– 18:30

Parallel Technical Session 3C : MATERIALS
Chairperson: Zainal Arifin Ahmad / Co-chair: Bhavana Gupta

VENUE:
BALLROOM 2

ID240 SELF DOPED CONDUCTING POLYMER AND Na⁺-MMT CLAY NANOCOMPOSITES
Leela Joshi, Pralay Maiti and Rajiv Prakash

ID245 FUNCTIONALIZED CONJUGATED POLYMER/ZnO NANOCOMPOSITE: DEVELOPMENT AND CHARACTERIZATION
Bhavana Gupta, Vignesh Sundar, Rajiv Prakash

ID247 A STUDY ON THE TENSILE PROPERTY OF JUTE YARNS USING WEIBULL DISTRIBUTION
S. K. Shaha, S. Dyuti, Q. Ahsan and M. Hasan

ID262 DESIGN, FABRICATE, AND TEST OF ELECTROPLATING NI-P-CG (GRAPHITE)-SIC COMPOSITE COATING AND ITS APPLICATION ONTO ACTUAL PISTON RINGS OF A SMALL TWO STROKE UTILITY ENGINE
Farhad B. Bahaaideen, Zaidi Mohd.Ripin, Zainal Arifin Ahmad

ID284 BISTABLE CHARACTERISTICS OF LIQUID CRYSTAL DEVICES WITH PATTERNED ALIGNMENT FILMS
Jais Bin Lias, Munehiro Kimura and Tadashi Akahane

ID290 THE EFFECTS OF CARBON BLACK AS SECOND FILLER ON THE PROPERTIES OF COMPOSITE GRAPHITE – POLYPROPYLENE
Mohd Zulkefli Selamat, Jaafar Sahari, Norhamidi Muhamad and Andanastuti Muchtar

ID298 CHARACTERISATION OF TITANIUM ALLOY FEEDSTOCK FOR METAL INJECTION MOULDING USING PALM STEARIN BINDER SYSTEM
N. H. Mohamad Nor, N. Muhamad, K. R. Jamaludin, S. Ahmad, and M. H. I. Ibrahim

ID310 THERMODYNAMIC AND KINETIC MODELLING HYDROGENATION OF TITANIUM PARTICLES AND SHEETS
W.Q. Li, P.D. Hodgson, J. Zhou and W.M. Gao

ID381 EFFECTS OF Mo NANO PARTICLES ON LEAD FREE Sn-3.8Ag-0.7Cu SOLDER
M.M. Arafat and A.S.M.A. Haseeb

DAY 1: 27 Oct, 2009, (TUESDAY)
TIME: 16:15– 18:30

Parallel Technical Session 3D : MATERIALS
Chairperson: R.R. Bhargava / Co-chair: R. Mahmudi

VENUE:
BALLROOM 3

ID316 RECOVERY OF ZINC FROM THE FINAL SLAG OF STEEL'S GALVANIZING PROCESS
N. Dakhili, H. Razavizadeh, M. T. Salehi¹, S. H. Seyedein

ID322 DEVELOPING OF HONEYCOMB SHAPED CORDIERITE CERAMIC FROM INDIGENOUS RAW MATERIALS AND ITS CHARACTERIZATION
Shahida Begum and Atiah bt Mohd. Aminuddin

ID328 EFFECT OF THE SIC CONTENT ON THE TRIBOLOGICAL PROPERTIES OF HYBRID AL/GR/SIC COMPOSITES PROCESSED BY IN SITU POWDER METALLURGY (IPM) METHOD
F. Akhlaghi and S. Mahdavi

ID329 PREPARATION AND MICROSTRUCTURE OF NANOCOMPOSITE Mg-3Ni-2MnO₂ ALLOY BY HDDR COMBINED WITH BALL MILLING
Fang Wa, Sun Hong-fei, Fang Wen-bin

ID331 EFFECT OF Sb ADDITION ON THE DEFORMATION BEHAVIOR OF Sn-3.5Ag SOLDER ALLOY
R. Mahmudi, S. Mahin-Shirazi

ID333 CRACK ARREST MODEL FOR TRANSVERSELY CRACKED PIEZOCERAMIC STRIP UNDER MECHANICAL AND ELECTRICAL YIELDING
R.R. Bhargava, Satish kumar

ID336 DETERMINATION OF UNIAXIAL FLOW STRESS CURVE USING AERO-BULGE TEST FOR VERY THIN COPPER SHEET
J. Kim, J. Suh, H. Hoffmann and R. Golle

ID341 IMPROVEMENT OF PHYSICAL AND MECHANICAL PROPERTIES OF EG TREATED LOCALLY PRODUCED UNBLEACHED JUTE CLOTHES (HESSIAN) BY THERMAL CURING METHOD
Zaira Zaman Chowdhury, Rashid Atta Khan, Feroz Ahmed, A.M. Sarwaruddin Chowdhury and Mubarak Ahmed Khan

ID347 EFFECT OF NANO SILICA ON THE SINTERABILITY OF HYDROXYAPATITE DENSE BODIES
R. Tolouei, C. Y. Tan, S. Ramesh, I. Sopyan & W. D. Teng

DAY 1: 27 Oct, 2009, (TUESDAY)
TIME: 16:15– 18:30

Parallel Technical Session 3E : MATERIALREMOVAL PROCESSES

Chairperson: AKM Nurul Amin / Co-chair: U.Umer

**VENUE:
ENGGANG**

ID155 OPTIMIZATION OF PRECISION GRINDING PARAMETERS OF SILICON FOR SURFACE ROUGHNESS BASED ON TAGUCHI METHOD
A. R. Alao and M. Konneh

ID160 COST STRUCTURE OF HIGH SPEED HARD TURNING
Muataz Al hazza, Erry Y.T. Adesta

ID161 TOOL LIFE IN HIGH SPEED TURNING WITH NEGATIVE RAKE ANGLE
Erry Adesta and Muataz Al Hazza

ID164 EFFECT OF PROCESS PARAMETERS ON ABRASIVE CONTAMINATION DURING WATER ABRASIVE JET MACHINING OF MILD STEEL
M.A. Afifah, A.K. Ahsan, Y.A. Mohammad

ID167 EXPERIMENTAL AND FEM STUDY OF SERRATED CHIP FORMATION IN HIGH SPEED TURNING PROCESSES
U.Umer, L.J. Xie, S.J. Askari, S.N. Danish, S.I. Butt

ID171 CHIP SERRATION FREQUENCY-THE PRIMARY CAUSE OF CHATTER DURING END MILLING OPERATION
Md. Anayet U Patwari, A.K.M. Nurul Amin, Waleed Faris, Marian Azhari, S. Farahain

ID195 MACHINABILITY IMPROVEMENT BY WORKPIECE PREHEATING DURING END MILLING AISI H13 HARDENED STEEL
Suhaily Mokhtar, AKM Nurul Amin, Anayet Ullah Patwari, Nurhayati Ab. Razak

ID207 CHEMICAL WET ETCHING OF SILICON WAFERS FROM A MIXTURE OF CONCENTRATED ACIDS
M. R. Ismail, W. J. Basirun

ID210 ANALYSIS OF THE VITRIFIED CBN WHEELS FOR THE PERFORMANCE OF GRINDING HARDENED STEEL
S.Y. Luo and S.Q. Xu

DAY 1: 27 Oct, 2009, (TUESDAY)
TIME: 16:15– 18:30

Parallel Technical Session 3F : SURFACE ENGINEERING

Chairperson: W. M. Gao / Co-chair: S. H. Mortazavi

**VENUE:
HELANG**

ID151 FORMATION OF A TiN DISPERSED COMPOSITE LAYER ON STEEL SURFACES BY TITANIUM POWDER PREPLACEMENT AND TIG SURFACE MELTING PROCESSES
S. Mridha, S.Dyuti

ID206 STUDY ON THE EFFECT OF NANO AND MICRO MOS₂ POWDER IN MICRO-ELECTRICAL DISCHARGE MACHINING
Gunawan Setia Prihandana, Muslim Mahardika, Sar Sambo, M. Hamdi, Y. S. Wong, Kimiyuki Mitsui

ID216 THE EFFECT OF VARIATION OF DC VOLTAGE ON THE PROPERTIES OF COPPER OXIDE THIN FILMS
M.Fazlollahi Marzoni ,M. Ghoranneviss, K. Yasserian

ID223 PARTICLE DYNAMICS AND HEAT TRANSFER AT WORKPIECE SURFACE IN HEAT TREATMENT FLUIDISED BEDS
W. M. Gao, L. X. Kong, F.H. She and P. D. Hodgson

ID241 ELECTRODEPOSITION OF TIN USING TIN (II) METHANESULFONATE FROM A MIXTURE OF IONIC LIQUID AND METHANE SULFONIC ACID
Yang Kok Kee, Koay Hun Lee, Wan Jeffrey Basirun

ID287 TRIBOLOGICAL STUDY OF TIN NANO STRUCTURED FILMS DEPOSITED ON PLASMA NITRIDED H11 STEEL BY PULSED DC PACVD
M. Raoufi, Sh. Mirdamadi, F. Mahboubi, Sh. Ahangarani, M. S. Mahdipoor, H. Elmkhah

ID291 EFFECT OF LOW PRESSURE N₂ AND Ar PLASMA TREATMENT ON SURFACE PROPERTIES OF BOPP PMMA AND PVC POLYMER FILMS
S. H. Mortazavi, A. H. Sari M. Ghoranneviss , and S. Esmaeeli

ID294 MICROSTRUCTURE AND MORPHOLOGY INVESTIGATION OF AL-CU-N THIN FILM CREATED BY ARGON AND NITROGEN PLASMA
M. Ghoranneviss, S. Masoodi Moghadam, S. H. Mortazavi, A. R. Hojabri, A. H. Sari

ID300 CHARACTERIZATION AND RESPONSE EVALUATION OF DETONATION-GUN SPRAYED ALUMINA-TITANIA CERAMIC COMPOSITE
S. Raja Kumar L.Vijayaraghavan and M.M.Mayuram

Parallel Technical Session 3G : OTHERS
Chairperson: Asish Bandyopadhyay / Co-chair: Mohd Radzi Che Daud

VENUE:
RAJAWALI

DAY 1: 27 Oct, 2009, (TUESDAY)
TIME: 16:15– 18:30

ID18 ACTUATING PIN TYPE FIXTURE FOR MACHINING FREE FORM WORKPIECE GEOMETRY
Nukhaie Berahim, Afzeri

ID143 APPLICATION OF TAGUCHI BASED VIKOR METHOD AND ENTROPY MEASUREMENT TECHNIQUE FOR MULTI-CRITERIA OPTIMIZATION OF SUBMERGED ARC WELD
Asish Bandyopadhyay and Saurav Datta

ID148 TAGUCHI METHOD FOR THE DETERMINATION OF OPTIMISED SINTERING PARAMETERS OF TITANIUM ALLOY FOAMS
S. Ahmad, N. Muhamad, A. Muchtar, J. Sahari, K. R. Jamaludin, M. H. I. Ibrahim and N. H. Mohamad Nor

ID149 ORTHOGONAL ARRAY TECHNIQUE FOR OPTIMIZING THE INTERING PARAMETER OF THE METAL INJECTION MOLDING (MIM) COMPACT: BEST FLEXURE STRENGTH
Khairur Rijal Jamaludin, Norhamidi Muhamad, Mohd Nizam Ab. Rahman, Sufizar Ahmad, Mohd Halim Irwan Ibrahim, Nor Hafiez Mohamad Nor

ID242 APPLICATION OF SOFT COMPUTING TECHNIQUES IN FORECASTING AND ENGINEERING THE COMFORT PROPERTIES OF TEXTILE FABRICS: A COMPREHENSIVE REVIEW
Ashis Mitra, Abhijit Majumdar, Prabal Kumar Majumdar, and Debamalya Banerjee

ID395 THE COMPARATIVE STUDY OF TOTAL FATIGUE DAMAGE OF THE ORIGINAL FATIGUE SIGNAL AND EDITED FATIGUE SIGNAL
N. Ismail, S. Abdullah, M. Z. Nuawi, C. K. E. Nizwan and M. F. Abdullah

ID502 HYDROGEN PRODUCTION BY THERMOCATALYTIC DECOMPOSITION OF METHANE USING PALM SHELL BASED ACTIVATED CARBON: KINETIC AND REGENERATION STUDIES
Hazzim F. Abbas and W.M.A. Wan Dauda

ID679 REALISATION AND STUDY OF AN EXPERIMENTAL PARABOLIC SOLAR CONCENTRATOR DEVICE
Lounis M., Benleulmi M. F. & Boudjema F.

ID797 EFFECT OF EMPLOYING DIFFERENT GRADES OF RECYCLED POLYAMIDE 12 ON THE SURFACE TEXTURE OF LASER SINTERED (LS) PARTS
WAY Yusoff, D.T Pham, K. Dotchev

Day 2 Technical Session IV (A-G)

Parallel Technical Session 4A : FORMING PROCESSES
Chairperson: Zhong-jin Wang/ Co-chair: S.M.H. Seyedkashi

VENUE:
BALLROOM 1

DAY 2: 28 Oct, 2009, (WEDNESDAY)
TIME: 08:30 – 10:30

ID308 FREE FORMING ANALYTICAL MODELING OF TWO-LAYERED TUBE HYDROFORMING AND EXPERIMENTAL VERIFICATION

S.M.H. Seyedkashi, R. Faramarzi, Gh. Liaghat, H. Moslemi Naeini, H. Deilami Azodi

ID311 ANALYSIS OF THE AXISYMMETRIC HYDROMECHANICAL DEEP DRAWING USING HILL'S QUADRATIC YIELD CRITERION

H. Deilami Azodi; H. Moslemi Naeini; G.H. Liaghat; M.H. Parsa; S.M.H. Seyedkashi

ID320 RESEARCH ON CRACK HEALING IN SLAB DURING HOT ROLLING

Hai-liang Yu, Xiang-hua Liu

ID337 SIZE EFFECT ON MICRO TENSILE TEST OF COPPER

You-Min Huang & Yao-Ming Chang

ID343 REDUCTION OF SPRINGBACK USING SIMULTANEOUS STRETCH-BENDING PROCESSES

H. Schilp, J. Suh and H. Hoffmann

ID356 OPTIMISATION OF CRUCIFORM TEST SPECIMEN FOR BIAXIAL TENSILE TESTING OF SHEET METAL

P. Tiernan and A. Hannon

ID306 NUMERICAL AND EXPERIMENTAL STUDY OF TWO-LAYERED TUBE FORMING BY HYDROFORMING PROCESS

S.M.H. Seyedkashi, Gh. Liaghat, H. Moslemi Naeini, S.M. Mahdavian and M. Hoseinpour Gollo

ID384 ROLL CASTING OF Al-40%Sn-1%Cu ALLOY STRIP

R. Nakamura, T. Haga, F. Matsumoto, H. Watari and S. Kumai

DAY 2: 28 Oct, 2009, (WEDNESDAY)
TIME:08:30– 10:30

Parallel Technical Session 4B : FORMING PROCESSES
Chairperson: **M. Sarwar / Co-chair: Mohd Radzi Che Daud**

VENUE:
BALLROOM 2

ID386 THE FORMABILITY OF ALUMINUM FOAM SANDWICH PANELS
G. D'Urso, G. Pellegrini and G. Maccarini

ID401 NUMERICAL STUDY OF CRACKED TITANIUM SHELL UNDER COMPRESSION
F. Ayari, A. Zghal, E. Bayraktar

ID402 THE EFFECT OF HIGH SPEED MILLING ON SURFACE INTEGRITY OF THE TITANIUM ALLOY Ti-6Al-4V
A. Daymi, E. Bayraktar, M. Boujelbene, D. Katundi, A. Ben Amara

ID406 INNOVATIVE TOOLS AND TOOL STEELS FOR THE BLANKING OF PRESS-HARDENED ULTRA HIGH-STRENGTH MANGANESE-BORON STEELS
M. Hirsch, B. Krönauer, R. Golle, H. Hoffmann, M. Golle and G. Jesner

ID410 THE EFFECTS OF MATERIAL THICKNESS AND DEFORMATION SPEED ON SPRINGBACK BEHAVIOR OF DP600 STEEL
Serkar Toros, Suleyman Kilic, Fahrettin Ozturk,

ID412 ANALYSIS OF TEMPERATURE DISTRIBUTION ON WARM FORMING OF ALUMINUM-MAGNESIUM ALLOY
F. Ozturk and M. A. Arslan

ID425 ANALYSIS THE INFLUENCE OF EDM PARAMETERS ON MATERIAL REMOVAL RATE AND ELECTRODE WEAR OF COPPER BERYLLIUM ALLOY USING GRAPHITE ELECTRODE
S. Nor Mohamad, M. Mohd Razali, P. J. Liew

ID436 STUDY ON MECHANICAL PROPERTIES OF ISOTHERMAL EXTRUDED ALUMINUM PISTON ALLOY
L. Deng, X.Y. Wang, J.S. Jin and J.C. Xia

DAY 2: 28 Oct, 2009, (WEDNESDAY)
TIME:08:30– 10:30

Parallel Technical Session 4C : CASTING AND JOINING
Chairperson: **Saeed G. Shabestari / Co-chair: N. Fatchurrohman**

VENUE:
HELANG

ID327 CHARACTERIZATION OF GLOBULAR MICROSTRUCTURE IN NMS PROCESSED ALUMINUM A356 ALLOY: THE ROLE OF CASTING SIZE
F. Akhlaghi and A.H.S. Farhood

ID339 CASTING OF NET INSERTED ALUMINUM ALLOY COMPOSITE STRIP
R. Nakamura, T. Haga, K. Takahashi and H. Watari

ID390 STRIP CASTING OF 6061 AND RECYCLED 6061 ALLOY BY AN UNEQUAL DIAMETER TWIN ROLL CASTER
T. Haga, H. Inui, R. Nakamura, S. Kumai and H. Watari

ID403 DESIGN AND SIMULATION ON COMPRESSOR METAL MATRIX COMPOSITE BY INVESTMENT CASTING
Taufik, S. Sulaiman, T.A. Abdullah, Sivarao

ID429 AN INVESTIGATION OF MECHANICAL NON-SINUSOIDAL OSCILLATION OF CONTINUOUS CASTING MOLD
Xingzhong Zhang Hongtao Zhu, A. K. Tieu, Haibo Xie, Xiaozhong Du
Xiankui Li, Chunxia Dou

ID451 THE EFFECT OF PARTICULATE REINFORCEMENT ADDITION TO LATENT HEAT AND SOLID FRACTION DURING SOLIDIFICATION OF TITANIUM CARBIDE PARTICULATES REINFORCED ALUMINIUM ALLOY MATRIX COMPOSITE PRODUCED BY SAND CASTING
N. Fatchurrohman, S. Sulaiman, M.K.A. Ariffin and A.A. Faieza

ID452 SOLIDIFICATION CHARACTERISTIC OF TITANIUM CARBIDE PARTICULATES REINFORCED ALUMINIUM-11.8% SILICON ALLOY MATRIX COMPOSITE PRODUCED BY PERMANENT MOULD GRAVITY CASTING
N. Fatchurrohman, Suraya S., S. Sulaiman, M.K.A. Ariffin and A.A. Faieza

ID462 A NOVEL SCHEME FOR WELD MICROSTRUCTURE CONTROL USING CRYOGENIC COOLING
Muhammed Olawale Hakeem Amuda and Shahjahan Mridha

DAY 2: 28 Oct, 2009, (WEDNESDAY)
TIME: 08:30 – 10:30

Parallel Technical Session 4D : MATERIALS
Chairperson: Y.Aminanda / Co-chair: Md. Rezaur Rahman

VENUE:
BALLROOM 3

ID350 EFFECT OF SUBMICRON ALUMINUM NITRIDE (AlN) ADDITION ON DRY WEAR PROPERTIES OF AL-Si ALLOY PREPARED BY STIR CASTING PROCESS
M.Noor Wahab, A.R. Daud and M.J. Ghazali

ID358 THERMAL INVESTIGATION OF ALUMINIUM – 11.8% SILICON (LM6) REINFORCED SiO₂ - PARTICLES
M. Sayuti, Suraya S, S. Sulaiman, T.R. Vijayaram, M.K.H. Arifin, and B.T.H.T. Baharudin

ID365 EFFECT OF AlCl₃ ADDITION IN PROCESSING OF TiAl-AL₂O₃ NANO-COMPOSITE VIA MECHANICAL ALLOYING
S. Alamolhoda, S. Heshmati-Manesh, A. Ataie and A. Badiei

ID367 EFFECT OF POLYMER LOADING ON TROPICAL WOOD POLYMER COMPOSITE (WPC)
Md. Saiful Islam, Sinin Hamdan, Md. Rezaur Rahman

ID368 MECHANICAL PROPERTIES AND DECAY RESISTANCE OF TROPICAL WOOD POLYMER COMPOSITES (WPC)
Md. Rezaur Rahman, Sinin Hamdan, Md. Saiful Islam

ID374 TEMPERATURE EFFECTS ON THE PREPARATION OF MULTI-WALLED CARBON NANOTUBES BY FLOATING CATALYTIC CHEMICAL VAPOR DEPOSITION
J. Cheng, X. P. Zou and F. X. Zhang

ID375 EFFECTS OF SYNTHESIS PARAMETERS ON THE PREPARATION OF CARBON NANOFIBERS BY ETHANOL CATALYTIC COMBUSTION
J. Cheng, X. P. Zou and F. X. Zhang

ID376 MULTI-LEVEL SIMULATION OF SANDWICH STRUCTURE WITH NOMEX HONEYCOMB CORE SUBJECTED TO QUASI-STATIC IMPACT LOADING AND ITS RESIDUAL STRENGTH UNDER COMPRESSION AFTER IMPACT (CAI) LOADING
Y.Aminanda, B.Castanié, C.Bouvet, J.J.Barrau

DAY 2: 28 Oct, 2009, (WEDNESDAY)
TIME: 08:30 – 10:30

Parallel Technical Session 4E: MATERIALS
Chairperson: Md. Mohar Ali Bepari / Co-chair: Saeed Farahany

VENUE:
MERAK

ID248 EFFECT OF ALKALI TREATMENT ON SURFACE MORPHOLOGY AND PROPERTIES OF JUTE YARNS
S. K. Shaha, S. Dyuti, Q. Ahsan and M. Hasan

ID383 PRELIMINARY STUDY ON TAILING SAND FROM EX-TIN MINE SITES IN PENINSULAR MALAYSIA FOR USE AS FOUNDRY SAND: GRAIN SIZE DISTRIBUTION AND AVERAGE GRAIN SIZE.
A. Azhar and S. Shamsuddin

ID391 EFFECTS OF BISMUTH OXIDE ON THE PROPERTIES OF CALCIUM PHOSPHATE BIO-CERAMICS
W. H. Yeo, S. Ramesh, C. Y. Tan, K. L. Aw, R. Tolouei, H. Kelvin, I. Sopyan, W. D. Teng & E. Hoque

ID392 MANUFACTURING, WELDABILITY AND IMPACT RESISTANCE OF THE TiB₂ REINFORCED STEEL MATRIX COMPOSITE SHEETS (TiB₂-RSMC)
E. Bayraktar, D. Katundi, J-P. Chevalier, F. Bonnet

ID408 EFFECTS OF MOLYBDENUM AND NICKEL ADDITIONS ON THE AUSTENITE GRAIN COARSENING AND FERRITE GRAIN SIZE REFINEMENT OF LOW CARBON STRUCTURAL STEELS CONTAINING 0.11% C
Md. Abidur Rahman and Md. Mohar Ali Bepari

ID414 EFFECT OF PRE AND POST HEAT TREATMENT ON MECHANICAL PROPERTIES OF HOT ISOSTATICALLY PRESSED SUPERALLOY INCONEL 738
Saeed Farahany, Ali Ourdjini, Mohd Hasbullah Idris, Mehrdad Aghaie

ID417 SOL-GEL SYNTHESIS OF MG-DOPED HYDROXYAPATITE NANOPARTICLES
Afsaneh Gozalian, Aliasghar Behnamghader

ID444 EFFECTS OF POWDER SYNTHESIS METHOD ON THE SINTERABILITY OF HYDROXYAPATITE.
K. L. Aw, R. Tolouei, S. Ramesh, C. Y. Tan, W. H. Yeo, H. Kelvin, I. Sopyan & W. D. Teng

DAY 2: 28 Oct, 2009, (WEDNESDAY) TIME: 08:30 – 10:30	Parallel Technical Session 4F : MATERIAL REMOVAL PROCESSES Chairperson: A.C Wang / Co-chair: Hadi Purwanto	VENUE: ENGGANG
	ID214 ELUCIDATING THE EFFECTS OF HELICAL PASSAGEWAYS IN ABRASIVE FLOW MACHINING A.C. Wang, and K.C. Cheng, J.S. Huang , H.H. Chiu ID261 THE RESEARCH OF MICRO W-EDM TECHNIQUE USING THE ULTRAFINE TUNGSTEN WIRE Shun-Tong Chen, Hong-Ye Yang, Chih-Wei Du ID267 APPLICATION OF FEM IN MACHINING PERFORMANCE OF DUCTILE CAST IRON H.Yanda, J.A.Ghani, C.H.C.Harun ID268 NUMERICAL, ANALYTICAL AND EXPERIMENTAL STUDY OF STRUCTURAL PROPERTIES OF CUTTING TOOL IN ENDMILLING PROCESS M.Mahdi Abootorabi Zarchi, Hamed Zoghi and M.Reza Razfar ID272 SURFACE INTEGRITY OF AISI H13 IN END MILLING AND ELECTRICAL DISCHARGE MACHINING PROCESS Jaharah A.G., Goh G.Y, and Che Hassan C.H. ID280 PERFORMANCE EVALUATION OF PCBN IN END MILLING OF AISI D2 HARDENED STEEL UNDER ROOM AND PREHEATED MACHINING CONDITIONS M.A. Lajis, A.K.M. Nurul Amin , A.N. Mustafizul Karim, Turnad L. Ginta ID297 EFFECT OF NOZZLE POSITIONING OF MINIMUM QUANTITY LUBRICATION SYSTEM IN HIGH SPEED MILLING OPERATIONS A.R. Natasha, M. Hamdi, M.Muzri ID309 STATISTICAL WEAR MODEL FOR ADHESIVELY BONDED TOOLS S. M. Darwish ,Ali M Alsamhan, H. A. Helmy	
DAY 2: 28 Oct, 2009, (WEDNESDAY) TIME: 08:30 – 10:30	Parallel Technical Session 4G : NANOTECHNOLOGY Chairperson: Zahirul Alam / Co-chair: Zahurin Halim	VENUE: RAJAWALI
	ID265 EFFECT OF ELECTRON BEAM BOMBARDMENT OF THE CATALYST LAYER ON THE GROWTH OF CNTS BY TCVD METHOD A. Mahmoodi, M.Ghoranneviss,D.Hanifeh, M.Rahbar Zareh,M.Eshghabadi ID302 EFFECT OF SYNTHESIS TEMPERATURE ON PHASE AND MORPHOLOGICAL CHARACTERISTICS OF HYDROXYAPATITE NANOPARTICLES R.Kazemzadeh and A. Behnamghader ID361 FREQUENCY PULSE PERIOD AND DUTY FACTOR EFFECTS ONELECTROCHEMICAL MICRO MACHINING (EMM) Malapati M, Sarkar A and Bhattacharyya B ID369 FE ANALYSIS AND EXPERIMENTS OF ONE DIRECTIONAL AND ELLIPTICAL ULTRASONIC VIBRATION- ASSISTED CUTTING OF CUPPER S. Amini, E. Shamoto, N. Suzuki, M. J. Nategh, H. Soleimanimehr ID382 MICRO-FORMING USING THE MELT-SPUN FOIL T.Haga ,K.Inoue, R.Nakamura, H.Watari ID473 SYNTHESIZED FLOWER-LIKE ZNO NANOSTRUCTURE BY HYDROTHERMAL REACTION Y Su, X P Zou, J Cheng, G Q Yang, X M Lü, X M Meng, G Q Teng ID474 GROWTH AND CHARACTERIZATION OF ZNO NANOROD ARRAYS BY SOLUTION METHOD Y Su, X P Zou, J Cheng, G Q Yang, X M Lü, X M Meng, G Q Teng	

DAY 2: 28 Oct, 2009, (WEDNESDAY) TIME: 10.45-11.25	Parallel Keynote Speeches		Venue
	Keynote-1		
	Speaker: Prof. Mustafizur Rahman Title: Compound Micro Machining - A Tool-based Integrated Approach Chairman: Prof. Ahmad Faris		BALLROOM 1
	Keynote-2		
	Speaker: Prof. Bekir Sami Yilbas Title: Laser Cutting Process: Experimental and Model Studies Chairman: Prof. Frank Travis		BALLROOM 2
	Keynote-3		
	Speaker: Prof. Francisco Chinesta Title: On the Use of Model Reduction in Material and Processes Simulation: Realizing Some Simulation Dreams Chairman: Prof. Faleh Abdullah Al-Sulaiman		BALLROOM 3

Day 2 Technical Session V (A-G)

DAY 2: 28 Oct, 2009, (WEDNESDAY) TIME: 11:30 – 13:00	Parallel Technical Session 5A : FORMING PROCESSES Chairperson: Souad A Mohamad / Co-chair: J.W. Kim VENUE: BALLROOM 1 ID439 FORMABILITY OF LZ MAGNESIUM ALLOY SHEETS Fuh-Kuo Chen, Chi-Jay Liao ID484 SPRING BACK PREDICTION AND COMPENSATION OF ALUMINUM ALLOY SHEETS IN BENDING V. Ghomi and I.A. Choudhury ID487 INFLUENCE OF PLASTIC DEFORMATION ON THE ELASTIC PROPERTIES OF STEEL R. Padmanabhan, M.C. Oliveira, A. Ramalho, J.L. Alves, L.F. Menezes ID490 NUMERICAL AND EXPERIMENTAL STUDY OF SEMI-SOLID A356 ALUMINUM ALLOY IN RHEO-FORGING PROCESS H.H. Kim and C.G. Kang ID602 EXTRUSION BEHAVIOR OF MECHANICALLY ALLOYED ZN-22WT%AL POWDER J.W. Kim, K.H. Lee, D.W. Hwang, J.M. Lee and B.M. Km ID604 EFFICIENCY TEST RATING AND CFD ANALYSIS OF POLYMER TUBE SINGLE-AXIS EXTRUDER Jin Ho Choi, Hyo Hee Chung, Jae Yeol Kim, Kyung Seok Song, Dae Kwang Park
	Parallel Technical Session 5B : CASTING AND JOINING Chairperson: Mohamed Sarwar / Co-chair: Hazleen Anuar VENUE: MERAK ID465 HYDROGENATION OF TI-6AL-4V ALLOY DURING INDUCTION SKULL MELTING PROCESSING Yuehong Zhang ID467 X RAY MEASURING FOR RESIDUAL STRESS IN COLD RING ROLLING Zuo Zhi-jiang ID497 THE EFFECT OF CHEMICAL COMPOSITION AND POURING TEMPERATURE ON THE RESIDUAL STRAIN DEVELOPED DURING INVESTMENT CASTING Saeid Norouzi, Hassan Farhangi ID499 EFFECTS OF COOLING CONDITIONS ON HOT TEARING TENDENCY OF AN INVESTMENT CAST NICKEL-BASE SUPERALLOY S. Norouzi and H. Farhangi ID501 EVALUATION OF CRACK SENSITIVITY AND GAP BRIDGING ABILITY DURING LASER BUTT WELDING OF ALUMINUM 5J32 AND 6K21 ALLOYS C. Kim and Y.-N. Ahn ID503 INFLUENCE OF PROCESS PARAMETERS ON WELDING QUALITY DURING LAP WELDING OF ALUMINUM SHEETS USING HIGH BRIGHTNESS DISK LASER C. Kim and D.-C. Ahn
DAY 2: 28 Oct, 2009, (WEDNESDAY) TIME: 11:30 – 13:00	
	Parallel Technical Session 5C : MATERIALS Chairperson: A.S.M.A. Haseeb / Co-chair: I. Sriathanachai VENUE: BALLROOM 2 ID445 INFLUENCE OF FILLER TYPES ON MECHANICAL PROPERTIES AND CURE CHARACTERISTICS OF NATURAL RUBBER COMPOSITES W. Wongsorat, N. Suppakarn and K. Jarukumjorn ID447 DYNAMIC AXIAL COMPRESSION OF ALUMINUM TUBULAR STRUCTURE WITH HAT-SHAPED CROSS-SECTION M. Yamashita, H. Kenmotsu, T. Hattori ID449 EFFECT OF FLAME RETARDANT ON FLAME RETARDANCY AND MECHANICAL PROPERTIES OF GLASS FIBER/ POLYPROPYLENE COMPOSITES R. Jeenchan, N. Suppakarn, and K. Jarukumjorn ID463 SYNTHESESIS AND CHARECTERIZATION OF ZINC PHOSPHATEES IN AQUEOUS AND NONAQUEOUS MEDIA WITH (2-HYDROXYETHYL) TRIMETHYL AMMONIUM HYDROXIDE AS TEMPLATE A. Samadi-Maybodi and S.K. Hassani Nejad-Darzi ID480 ANALYSIS STRUCTURAL PROPERTIES OF ITO THIN FILMS AFTER ANEALING TREATMENT IN NITROGEN ATMOSPHERE I. Sriathanachai, S. Niemcharoen, S. Ueamapong and N. Atiwongsangthong ID493 COLD DEPOSITION OF ZINC SULPHIDE OPTICAL WAVEGUIDES USING THERMOELECTRIC DEVICES Saafie Salleh, H.N. Rutt, M.N. Dalimin and M.M. Salleh
DAY 2: 28 Oct, 2009, (WEDNESDAY) TIME: 11:30 – 13:00	

DAY 2: 28 Oct, 2009, (WEDNESDAY) TIME: 11:30 – 13:00	Parallel Technical Session 5D : MATERIALS Chairperson: Kassim A. Abdullah / Co-chair: Maan Hayyan		VENUE: BALLROOM 3
	ID494 OPTIMUM PROTECTION OF CARBON STEEL IN SALT SOLUTIONS USING SODIUM NITRITE AS INHIBITOR Maan Hayyan, Shatha A. Sameh, Farouq S. Mjalli, Mohd Ali Hashim, Inas M. Al-Nashef		
	ID504 EFFECT OF PROCESS PARAMETERS ON THE SYNTHESIS OF HYDROXYAPATITE NANOPARTICLES PREPARED FROM CALCIUM HYDROXIDE AND ORTHOPHOSPHORIC ACID IN SBF Mahsa Zanjani, Aliasghar Behnamghader, Abdollah Afshar, Afsaneh Gozalian		
	ID508 COEFFICIENT OF THERMAL EXPANSION MEASUREMENT OF METAL MATRIX COMPOSITES BY THERMO MECHANICAL ANALYSER B. Karthikeyan, S. Ramanathan, V. Ramakrishnan		
	ID510 SPECIFIC HEAT CAPACITY MEASUREMENT OF Al / SiCP COMPOSITES BY DIFFERENTIAL SCANNING CALORIMETER B. Karthikeyan, S. Ramanathan, V. Ramakrishnan		
	ID511 DISPERSED STUDY ON ELECTRICALLY CONDUCTING COMPOSITE MATERIAL Yovial Mahyoeidin, Jaafar Sahari, Andanastuti Muchtar and Norhamidi Muhamad		
DAY 2: 28 Oct, 2009, (WEDNESDAY) TIME: 11:30 – 13:00	ID514 NON INVASIVE 3D POROSITY AND DEFECT CHARACTERIZATION OF ADVANCED MATERIALS AT MICRO TO NANOSCALE RESOLUTION WITH A NOVEL CT SYSTEM S H Lau, Iis Sopyan, Hauyee Chang, Jeff Gelb, Wenbing Yun		
	Parallel Technical Session 5E: MATERIAL REMOVAL PROCESSES Chairperson: Che Hassan C.H. / Co-chair: T. Kanit		VENUE: ENGGANG
	ID281 MODELLING AND OPTIMIZATION IN END MILLING OF AISI D2 HARDENED STEEL USING COATED CARBIDE INSERTS M.A. Lajis, A.N. Mustafizul Karim, A.K.M. Nurul Amin , Turnad L. Ginta		
	ID334 TENSILE AND DYNAMIC MECHANICAL BEHAVIOR OF THERMOPLASTIC NATURAL RUBBER (TPNR) NANOCOMPOSITES TREATED WITH ULTRASONIC Mou'ad.A.Tarawneh, Sahrim Hj. Ahmad, S.Y.Yahya, Rozaidi Rasid		
	ID335 DESIGN OF COMPOSITE MATERIALS WITH OPTIMAL MICROSTRUCTURES T. Kanit		
	ID342 STUDY OF MICRO-EDM OF TUNGSTEN CARBIDE WITH WORKPIECE VIBRATION M.P. Jahan, T. Saleh, Y.S. Wong, M. Rahman		
DAY 2: 28 Oct, 2009, (WEDNESDAY) TIME: 11:30 – 13:00	ID344 INFLUENCE OF ELECTRODE COOLING ON RECAST LAYERS AND MICRO CRACK IN EDM OF TITANIUM Suleiman Abdulkareem, Ahsan Ali Khan and Mohamed Konneh		
	ID712 ON THE CONTACT BETWEEN THE POLISHING TOOL AND THE PART SURFACE NEAR THE SURFACE BOUNDARY H.Y. Tam, M. Hua and L. Zhang		
	Parallel Technical Session 5F : CAD, CAM, CAE Chairperson: Daekeon Ahn / Co-chair: H.W. Lee		VENUE: HELANG
	ID640 COMPARISON WITH MECHANICAL FLEXURE STRENGTH AND RIGIDITY BASIC OF AL/CFRP STRUCTURE Joo-Yeong Jeng , Jung-Min Bang and ji-Hoon Kim		
	ID645 APPLICATION OF FINITE ELEMENT METHOD IN OPTIMAL DESIGN OF FLIP-CHIP PACKAGE Y.C. Lin and Jing-Hong Lu		
	ID651 THREAD FORMING OF A MICRO SCREW FOR STORAGE DEVICES USING FINITE ELEMENT ANALYSIS H.W. Lee, J.H. Song, G.A. Lee, H.J. Lee, K.D. Park and S.M. Bae		
DAY 2: 28 Oct, 2009, (WEDNESDAY) TIME: 11:30 – 13:00	ID654 GEOMETRIC MODELING AND MULTI-AXIS NC MACHINING FOR CUSTOM-MADE FEMORAL STEM J.N. Lee, R.S. Lee and K.U. Chang		
	ID656 RELATION BETWEEN SURFACE ROUGHNESS AND OVERLAP INTERVAL IN FUSED DEPOSITION MODELING Daekeon Ahn, Jin-Hwe Kweon, Seok-Hee Lee		
	ID683 AN INVESTIGATION ON WARPAGE ANALYSIS IN PLASTIC INJECTION MOULDING A.B.M. Saifullah, S.H. Masood and M.I. Khalid		

DAY 2: 28 Oct, 2009, (WEDNESDAY) TIME: 11:30 – 13:00	Parallel Technical Session 5G : OTHERS		VENUE:
	Chairperson: Wan Ahmad Yusmawiza / Co-chair: H.S. Yoon		RAJAWALI
	ID618 A STUDY ON COOLING CHARACTERISTICS OF THERMOELECTRIC COOLING SYSTEM USING THERMOELECTRIC MATERIALS H.S. Yoon and Y.K. Oh		
	ID720 HEALTH AND SAFETY ISSUES FOR FEMALE WORKFORCE OF GARMENT INDUSTRIES IN BANGLADESH Salma Akhter, Abul Fazal Md. Salahuddin ,Mohammad Iqbal and Nasrin Jahan		
	ID771 EFFECTS OF ANGLE OF PROBE LASER AND PINHOLE DIAMETER ON THE IN-SITU TIME-RESOLVED OPTICAL INSPECTION SYSTEM Chil-Chyuan Kuo		
	ID798 BENCHMARKING THE RAPID PROTOTYPING MACHINES (RPM) FOR EDUCATION PURPOSE USING QUALITY FUNCTION DEPLOYMENT (QFD) WAY Yusoff, Zu Hazmin Badri, Zainal Masri, Zahir Hussin		
	ID821 INVESTIGATION ON MECHANICAL PROPERTIES OF ABS USING RAPID RPOTOTYPING TECHNOLOGY AND INJECTION MOLDING PROCESS WAY Yusoff, Khairil Syazmi, Mohd Naeem		
	ID878 PATTERN RECOGNITION METHOD TO PREDICT RECYCLING STRATEGY FOR ELECTRONIC EQUIPMENTS M. M. Noor, K. Kadirgama, M. M. Rahman and M. A. Maleque		

Day 2 Technical Session VI (A-G)

DAY 2: 28 Oct, 2009, (WEDNESDAY) TIME: 14:00 – 16:00	Parallel Technical Session 6A : FORMING PROCESSES		VENUE:
	Chairperson: Waqar Asrar / Co-chair: E.M. Rubio		BALLROOM 1
	ID506 THE EFFECTS OF CS CASTING AND ISOTHERMAL TREATMENT ON WEAR BEHAVIOR OF A380 ALLOY N. Saklakoglu, S.Gencalp and S. Kasman		
	ID507 ENERGETIC STUDY OF PLATE DRAWING PROCESSES BY THE UPPER BOUND METHOD USING THEORETICAL WORK-HARDENING MATERIALS E.M. Rubio, M.Villela, M. Marcos and M.A. Sebastián		
	ID515 INFLUENCE OF EXTRUSION VARIABLES ON THE MICROSTRUCTURAL CHARACTERISTICS OF AA6061-SiC COMPOSITES Amir Pakdel and Hassan Farhangi		
	ID516 THE EFFECT OF CHROMIUM ADDITION ON THE MICROSTRUCTURE OF CASAT AL-MG2Si METAL MATRIX COMPOSITE M.R.Ghorbani, M.Emamy, N.Nasiri		
	ID519 PROPERTIES OF ALUMINUM FOAM FABRICATED USING SINTERING DISSOLUTION PROCESS WITH DIFFERENT COMPACTION PRESSURE AND SPACE HOLDER H. Zuhailawati and M.N. Mohamad Aizuddin		
	ID532 MICROSTRUCTURE CHARACTERIZATION OF AL ₂ O ₃ FIBRE-REINFORCED AL METAL MATRIX COMPOSITES PROCESSED BY LOW-PRESSURE INFILTRATION Huawei Rong, HyunJun Lee, SunChul Huh, and WonJo Park		
	ID537 A BOLT FORMING OF ULTRA-FINE GRAINED ALUMINUM J.S. Choi, S. Nawaz, S.K. Hwang, H.C. Lee and Y.T. Im		
	ID538 LOCAL THICKENING LIMITATION OF TUBE END AND THE PRE-FORM DESIGNS J.J. Sheu and C.H. Yu		

DAY 2: 28 Oct, 2009, (WEDNESDAY)
TIME: 14:00 – 16:00

Parallel Technical Session 6B : FORMING PROCESSES

Chairperson: Waleed Fikri / Co-chair: B. Dratz

**VENUE:
BALLROOM 2**

ID547 EFFECT OF LOW PRESSURE HMDSO/Ar PLASMA TREATMENT ON THE WETTABILITY AND SURFACE ENERGY OF BOPP AND PET

S.Hamideh Mortazavi, Amir.H Sari, Mahmood Ghoranneviss, Mansour Khoramabadi and Hamid.R Ghomi

ID548 DYNAMIC MODEL OF COMPACTION PROCESS OF METALLIC POWDERS

K.Mohammadi ,A. Darvizeh

ID549 NEW FRICTION TESTING METHOD BASED ON EXTRUSION

S. H. Kang, Y. W. Yun, and Y. S. Lee

ID573 USE OF MECHANICAL PREFORMING FOR SUPERPLASTIC FORMING OF NON-SUPERPLASTIC ALLOYS

Jun Liu, Ming Jen Tan, Yingyot Aue-u-lan, Anders E. W. Jarfors, Kai Soon Fong, Sylvie Castagne

ID581 OPTIMAL CLOSED DIE FINISH FORGINGS FOR NIMONIC115 USING FEM METHOD

D.Shahriari, A.Amiri, M.H.Sadeghi

ID584 IDENTIFICATION OF CONSTITUTIVE LAWS OF STEEL SHEETS FOR ROLL LEVELLING OPERATIONS

B. Dratz, V. Nalewajk and Y. Chastel

ID594 IMPROVEMENT OF JOINING STRENGTH USING ANALYTICAL MODEL OF FRACTURE LOAD IN CLINCHING PROCESS

C.J. Lee, J.Y. Kim, S.K. Lee, D.C. Ko, B.M. Kim and J.O. Kim

ID600 INTERPRETATION OF WEAR CAUSED BY WIRE VIBRATIONS IN WIRE-DRAWING PROCESS

K.H. Lee, J.W. Kim, S.K. Lee and B.M. Kim

DAY 2: 28 Oct, 2009, (WEDNESDAY)
TIME: 14:00 – 16:00

Parallel Technical Session 6C : CASTING AND JOINING

Chairperson: Yool-Kwon Oh / Co-chair: H. Zuhailawati

**VENUE:
MERAK**

ID518 THE INFLUENCE OF ANNEALING TREATMENT ON SPOT WELDING PERFORMANCE OF CU-WC COMPOSITE ELECTRODE

H. Zuhailawati

ID530 TEMPERATURE DISTRIBUTION OF ALUMINUM ALLOYS UNDER FRICTION STIR WELDING

B.Y. Lin, P. Yuan, J.J. Liu

ID546 EXPLOSIVE WELDING OF CYLINDERS

Katayoun Mohammadi, Abolfazl Darvizeh

ID570 ON-LINE EMPIRICAL MODELS FOR CONTROL OF BEAD GEOMETRY IN ROBOTIC ARC WELDING PROCESS

J.S. Son, I.S. Kim, H.H. Kim, S.W. Son, H.H. Na and J.H. Lee

ID572 A STUDY ON MAGNETOSTRICTIVE SENSOR FOR DETECTING THE WELD DEFECTS

J.H. Seo, I.S. Kim, B.Y. Kang, J.Y. Shim, J.W. Jeong and J.S. Kim

ID582 THE GLOBULAR MICROSTRUCTURE FORMATION OF A380 ALUMINUM ALLOY BY COOLING SLOPE CASTING

N. Saklakoglu, S.Gencalp and S. Kasman, I.E.Saklakoglu

ID610 WEAR CHARACTERISTICS OF Fe-C-Si AND Fe-C-Al CAST IRONS

S. K. Shaha and M. M. Haque

ID614 A STUDY ON COOLING CHARACTERISTICS OF AC4C AND AC7A CASTING MATERIAL FOR MANUFACTURING TIRE MOLD

J.S. Choi and Y.K. Oh

DAY 2: 28 Oct, 2009, (WEDNESDAY)
TIME: 14:00 – 16:00

Parallel Technical Session 6D : MATERIALS
Chairperson: I. Sopyan / Co-chair: Jae-keun Hong

VENUE:
BALLROOM 3

ID517 PREPARATION AND CHARACTERIZATION OF MAGNETIC RUBBER WOOD (HEVEA BRASILIENSIS)
Chin-Hua Chia, Maisarah Yusoff, Sarani Zakaria

ID522 EVALUATION OF MECHANICAL PROPERTIES AND VARIOUS PILE-UP OF PLATE-TYPE POLYMER USING NANOINDENTER
Y.N. Joung and C.G. Kang and S.M. Lee

ID526 SYNTHESIS OF HIGH FRACTURE TOUGHNESS OF HYDROXYAPATITE BIOCERAMICS
C. Y. Tan, S. Ramesh, R. Tolouei, I. Sopyan & W. D. Teng

ID533 A STUDY ON THE DELAY EFFECT OF FATIGUE LIFE BY LASER WELDING USING SHOT-PEENING
HyunJun Lee, JongWon Choi, HaeYoung Jung, SunChul Huh, and WonJo Park

ID543 CALORIMETRIC STUDY OF PRECIPITATION KINETICS OF Al–Cu–Mg AND Al–Cu–Mg–0.06 wt.% Sn ALLOYS
Sanjib Banerjee, P.S. Robi, A. Srinivasan

ID562 INTEGRITY EVALUATION OF COATINGS ACCORDING TO OPERATING CYCLES OF THE 1ST STAGE BUCKET ON GAS TURBINE
Seung-Hyun Choi, Yong-Ha Yang and Jae-Yeo Kim

ID539 HIGH TEMPERATURE FLOW BEHAVIOR OF Al-Cu-Mg ALLOYS MICRO ALLOYED WITH Sn
Sanjib Banerjee, Lakavath Praveen Kumar P.S. Robi, A. Srinivasan

ID558 MICROSTRUCTURE CHARACTERISTICS OF FRICTION STIR WELDED ALUMINUM AND TITANIUM DISSIMILAR JOINT
Jae-keun Hong, Jee-hoon Kim, Jeung-han Kim, Jong-taek Yeom, Chang-Gil Lee and Nhokwang Park

Parallel Technical Session 6E: MATERIAL REMOVAL PROCESSES
Chairperson: Mustafizur Rahman / Co-chair: Shen-Yung Lin

VENUE:
ENGGANG

ID354 EXPERIMENTAL INVESTIGATION INTO PULSED ND:YAG LASER MICRO-TURNING OF ENGINEERING CERAMICS
G. Kibria, B. Sharma, B. Doloi and B. Bhattacharyya

ID363 CHIP FORMATION AND CUTTING PERFORMANCE INVESTIGATION ON TITANIUM ALLOY MACHINING
Shen-Yung Lin, Y. Y. Cheng and C. T. Chung

ID378 INVESTIGATION ON THE SURFACE FINISH, MRR AND THE SURFACE DAMAGE DURING THE EDM OF TUNGSTEN CARBIDE
Ahsan Ali Khan, Suleuman Abdulkareem, Nadiatul Amirah Ahmad Abdul Ghani and Dayanna sarrah Mohammad Ariffin

ID437 ANALYSIS OF DIAMETRICAL ERROR OF MACHINED WORKPIECES IN ULTRASONIC VIBRATION ASSISTED TURNING
H. Soleimanimehr, M.J. Nategh and S. Amini

ID485 SIMPLE AND POWDER MIXED DIELECTRIC ELECTRIC DISCHARGE MACHINING OF NAK80 MOLD STEEL
I.A. Choudhury and T.K. Gan

ID488 CUTTING FORCE ANALYSIS OF ON-MACHINE FABRICATED PCD TOOL DURING GLASS MICRO-GRINDING
Asma Perveen, M.P. Jahan, Y.S. Wong and M. Rahman

ID500 CHARACTERISTIC STUDY ON MICRO ASPHERIC SURFACE USING DIAMOND TOOL CUTTING
Y.-T. Liu and W.-C. Chang

ID509 STUDY OF SURFACE ROUGHNESS OF PIECES OF MAGNESIUM UNS M11311 OBTAINED BY DRY TURNING USING ANOVA
E.M. Rubio, J.M. Sáenz de Pipaón, M.Villete, and M.A. Sebastián

DAY 2: 28 Oct, 2009, (WEDNESDAY)
TIME: 14:00 – 16:00

DAY 2: 28 Oct, 2009, (WEDNESDAY)
TIME: 14:00 – 16:00

Parallel Technical Session 6F : NANOTECHNOLOGY
Chairperson: M. Ghoranneviss / Co-chair: N. Phongphanthra

VENUE:
RAJAWALI

ID713 A PROCESS INVESTIGATION FOR MICRO-EDM FABRICATION OF THROUGH HOLES IN THIN COPPER SHEETS

H.Y. Tam, W. Jiang and K.L. Chan

ID455 SUBSTRATE BIAS EFFECTS ON DIBL OF BURIED CHANNEL PMOS DEVICES

N. Phongphanthra, A. Ruangphanit, R. Muanghlua, S. Niemcharoen
N. Atiwongsangthong, W. Pengchan and Sanya Khunkhao

ID609 THE EFFECT OF MICROSTRUCTURE ON THER PHOTOCATALYTIC PROPERTIES OF TiO₂

Shahab Khameneh Asl, M. Kianpour Rad, S.K. Sadrnezhad, M.R. Vaezi, H. Tohidi

ID633 DETERMINATION OF THERMAL EXPANSION COEFFICIENT OF TITANIUM THIN FILM

F.Y. Chen, R.C. Chang and M.J. Kuo

ID658 DEVELOPMENT OF AN INTELLIGENT AUTO-TURNING CONTROLLER FOR PRECISION MACHINING

Shih-Ming Wang and Han-Jen Yu and Si-Chi Ouh

ID672 THE GROWTH OF NANO CRYSTALLINE DIAMOND BY HFCVD USING DIFFERENT ETCHING GASSES

Z. Khalaj, M. Ghoranneviss, S. Nasiri Jahaghi, P. Alizadeh Eslami, M. Najafi

ID756 MICRO PATTERN REPLICATION ONTO THE METALLIC FILM SUBSTRATE USING THE ROLL IMPRINTING SYSTEM

J. H. Song, H. J. Lee, N. K. Lee, G. A. Lee, T. J. Lee and S. M. Bae

ID759 INVESTIGATION OF MICROHOLES PRODUCED BY FOCUSED ION BEAM MICROMACHINING

Nurul Hajar and Mohammad Yeakub Ali

DAY 2: 28 Oct, 2009, (WEDNESDAY)
TIME: 14:00 – 16:00

Parallel Technical Session 6G : SURFACE ENGINEERING
Chairperson: S. Mridha / Co-chair: A.R. Bushroa

VENUE:
HELANG

ID304 COATING PRODUCED BY DEPOSITION OF NANOPARTICLES BLENDED WIRES

A. Al Askandarani, M.S.J. Hashmi, B.S. Yilbas

ID152 EFFECTS OF PROCESSING PARAMETERS ON MICROSTRUCTURES AND PROPERTIES OF TIG MELTED SURFACE LAYER OF STEEL

S. Mridha and S. Dyuti

ID305 HVOF COATING OF DIAMALLOY 2002 AND 4010 ON CARBON STEEL SHEETS: MICROSTRUCTURE EXAMINATION

Y.A. Al-Shehri, M.S.J. Hashmi, B.S. Yilbas

ID326 PREPARATION OF CARBON FIBRES FOR ALUMINIUM COMPOSITES

R. Kozera, J. Bieliński, A. Broda, A. Boczkowska, K.J. Kurzydowski

ID332 INTEGRAL APPROACH AND NUMERICAL IMPROVEMENT TO CALCULATE THE CARBON CONCENTRATION PROFILES IN CARBURISING PROCESS

W.M. Gao, L.X. Kong and P.D. Hodgson

ID385 ANALYSIS OF MICROSTRUCTURAL CHANGES DURING PULSED CO₂ LASER SURFACE PROCESSING OF AISI 316L STAINLESS STEEL

E. Chikarakara, S. Naher and D. Brabazon

ID400 A FEM BASED NUMERICAL-EXPERIMENTAL STUDY FOR DETERMINING STRENGTH PROPERTIES BY MICRO INDENTATION OF A METAL MATRIX COMPOSITE

F. Ayari, Z. Hamouche, E. Bayraktar, J-P. Chevalier

ID421 SURFACE MODIFICATION OF PLASTIC THIN FILM ON NANOIMPRINT USING ANODIC ALUMINUM OXIDE TEMPLATE

Jeou-Long Lee, Chih-Wei Wu, Yi Lin, Yung-Kang Shen, Chuan-Min Huang

ID733 OPTIMIZATION ON THE MECHANICAL PROPERTY OF TiAlN VIA ALUMINA MICRO BLASTING

A.R. Bushroa, A. L. Aznizam, A. Azrina, M. Hassan and M. R. Muhamad

Day 2 Technical Session VII (A-G)

DAY 2: 28 Oct, 2009, (WEDNESDAY)
TIME: 16:15 – 18:30

Parallel Technical Session 7A : FORMING PROCESSES
Chairperson: Francisco Chinesta / Co-chair: Zahurin Halim

VENUE:
BALLROOM 1

ID456 RHEOLOGICAL CHARACTERIZATION OF WATER ATOMISED STAINLESS STEEL POWDER FOR MICRO METAL INJECTION MOLDING

M.H.I Ibrahim, N. Muhamad, A.B. Sulong, K.R. Jamaludin, N.H.M Nor, S. Ahmad

ID459 OPTIMIZATION OF MICRO METAL INJECTION MOLDING FOR THE HIGHEST GREEN STRENGTH BY USING TAGUCHI METHOD

M.H.I Ibrahim, N. Muhamad, A.B. Sulong, K.R. Jamaludin, N.H.M Nor, S. Ahmad

ID621 DESIGN OF CROSS SECTIONAL SHAPE OF DIE FOR MULTI-PASS PROFILE DRAWING PROCESS

S.K. Lee, J.E. Lee, T.K. Lee, S.M. Kim, S.B. Lee and B.M. Kim

ID623 THE EFFECT OF COOLING RATE ON MECHANICAL PROPERTIES OF 22MnB5 STEEL SHEET DURING HOT PRESS FORMING

Ki-Young Kwon, Nak-Hyun Kim, and Chung-Gil Kang

ID624 MECHANICAL CHARACTERIZATION BEHAVIOR OF BORON STEEL SHEET IN HOT PRESS FORMING PROCESS WITH COOLING SYSTEM

Sang-Hyun An, Ki-Young Kwon, Chung-Gil Kang

ID626 THEORETICAL ANALYSIS OF TUBE HYDROFORMING ROUND TUBES INTO SQUARE SECTIONS

Ramtin Sheikhhassani, Mohammad Farahani, Hamed Deilami Azodi

ID627 SOME ASPECTS OF DEPOSITION PARAMETERS OF RF SPUTTERED FERROMAGNETIC FILM GERMANE TO THE STUDY OF MAGNETORESISTIVE SENSING DEVICES

P. Akhtar, T.J. Ali and A. Aziz

ID628 MATERIAL EFFECTS ON PLASTIC WRINKLING INSTABILITY UNDER DIFFERENT LOADING CONDITIONS

H. Li, H. Yang, M.Zhan

ID635 AN ELASTO-PLASTIC FINITE ELEMENT ANALYSIS OF THE RADIAL COMPRESSION OF ALUMINIUM TUBE BETWEEN RIGID PLATES

T.C. Chen and M.Y. Tsai

DAY 2: 28 Oct, 2009, (WEDNESDAY)
TIME: 16:15 – 18:30

Parallel Technical Session 7B : MATERIALS
Chairperson: Seyed Naser Azizi / Co-chair: A. K. M. Masud

VENUE:
BALLROOM 2

ID568 MICROWAVE AND ULTRASONIC-ASSISTED VERSUS CONVENTIONAL SYNTHESIS OF ANA-TYPE ZEOLITE

S.N. Azizi, M.Yousefpour

ID586 IMPACT COLLAPSE CHARACTERISTICS OF CFRP HAT-SHAPED SECTIONAL MEMBERS FOR IMPROVED CRASH CAPABILITY

Ju-Ho Choi, Kil-Sung Lee, and In-Young Yang

ID593 EXPERIMENTAL INVESTIGATION OF MACHINING PARAMETERS ON SURFACE ROUGHNESS IN DRY AND WET WIRE-ELECTRICAL DISCHARGE MACHINING PROCESS

Suleiman Abdulkareem, Ahsan Ali Khan and Zakaria Mohd Zain

ID603 STRENGTH EVALUATION ACCORDING TO AXIAL COLLAPSE OF CFRP HAT SHAPED SECTIONAL MEMBERS UNDER THE HYGROTHERMAL

Yong-Jun Yang and In-Young Yang

ID631 COMPARATIVE ANALYSIS OF AXIAL AND BENDING OF STRENGTH AND STIFFNESS OF THE CFRP AND HYBRID MEMBER

Jung-Min Bang, Joo-Yoeng Jeong and Ji-Hoon Kim

ID632 IMPACT PROPERTIES OF NATURAL FIBER HYBRID REINFORCED EPOXY COMPOSITES

Mohammad Jawaid, H.P.S. Abdul Khalil, A.H.Bhat and A. Abu Baker

ID636 IMPROVEMENT OF FATIGUE LIFE OF 34CRNIMO STEEL BY THERMOMECHANICAL TREATMENT

J. Džugan, Z. Nový, M. Sosnová

ID643 STUDY OF THE PROPERTIES OF TRANSVERSELY ISOTROPIC CARBON NANOTUBE-BASED POLYMER COMPOSITE USING FINITE ELEMENT METHOD

A. K. M. Masud, Farhana Abedin, Abdullah-Al-Khaled and Md. Rajib Anwar

ID649 THE ABSORPTION ENERGY CHANGE OF CFRP CIRCULAR MEMBERS UNDER THE HYGROTHERMAL ENVIRONMENT

Eu ddeum Park, In-Young Yang

DAY 2: 28 Oct, 2009, (WEDNESDAY)
TIME: 16:15 – 18:30

Parallel Technical Session 7C : MATERIALS
Chairperson: E. Bayraktar / Co-chair: Mir Vadood Khadem Mousavi

VENUE:
BALLROOM 3

ID661 NUMERICAL SIMULATION AND KINETIC STUDY OF THE ISOMERISATION REACTION OF ORIENTED POLYACETYLENE FOLLOWED BY RAMAN AND I.R.T.F
Z. Skanderi, S. Bitam, A. Djebaili

ID686 THE EFFECT OF ALLOYING ELEMENT ON ALUMINA SCALE MORPHOLOGY GROWN BY HIGH TEMPERATURE ISOTHERMAL OXIDATION
Norarney Ahmad, Zuhailawati Hussain and Nurulakmal Mohd. Sharif

ID687 EVOLUTION OF OXIDE SCALE ON IRON ALUMINIDE ALLOY DURING CYCLIC OXIDATION AT HIGH TEMPERATURE
Norarney Ahmad, Khor Boon Yee, Zuhailawati Hussain and Nurulakmal Mohd. Sharif

ID693 GROWTH OF CARBON NANOWALLS BY THERMAL CVD ON FE THIN FILM
P. Alizadeh Eslami, M. Ghoranneviss, Sh. Moradi, P. Abroomand Azar, S. Nasiri Laheghi and M. Najafi

ID700 FINITE ELEMENT ANALYSIS AND COMPARISON OF CASTELLATED & CELLULAR BEAM
P.D.Pachpor and Dr.N.D.Mittal and Dr.N.V.Deshpande

ID704 STRUCTURE AND PHOTOLUMINESCENT PROPERTIES OF SICO THIN-FILMS DOPED WITH Al PREPARED BY DUAL MAGNETRON SPUTTERING
Jicheng Zhou, Xuqiang Zheng, Zhijie Shi, Baoxing Zhao, Fu Liu

ID717 TWO-DIMENSIONAL STRESSES IN A HOLLOW FG SPHERE WITH HEAT SOURCE
M. Jabbari and A.H. Mohazzab

ID724 FATIGUE BEHAVIOR AND DAMAGE MECHANISM OF AN CAST ALUMINUM ALLOY IN VERY HIGH CYCLE REGIME
Hongqian Xue E. Bayraktar C. Bathias

ID737 SYNTHESIS AND CHARACTERISATION OF DY-NI-FE THIN FILMS USING ELECTRODEPOSITION TECHNIQUE
Mir Vadood Khadem Mousavi, Ismet Zakia Rahman, Admali Abbasi Gandhi, Md Abdur Rahman

Parallel Technical Session 7D : MATERIAL REMOVAL PROCESSES
Chairperson: S. Naher / Co-chair: Neng-Hsin Chiu

VENUE:
ENGGANG

ID528 STUDY ON MACHINING CHARACTERISTIC OF AERONAUTICAL MATERIAL UNDER ORTHOGONAL DRY CUTTING
A. Ginting and M. Nouari

ID544 A RATIONAL BETWEEN MANUFACTURING PROCESSES DESIGN AND MANUFACTURING COST
Abdul Md Mazid, Md Shahanur Hasan and Richard Clegg

ID551 FLANK WEAR MODELING IN HIGH SPEED HARD TURNING
Muataz Al Hazza and Erry Adesta

ID553 MACHINING TIME SIMULATING IN HIGH SPEED HARD TURNING
Erry Adesta and Muataz Al Hazza

ID554 INFLUENCE OF ELECTRODE COOLING ON MATERIAL MIGRATION AMONG THE ELECTRODES DURING EDM OF TITANIUM ALLOY
Suleiman Abdulkareem, Ahsan Ali Khan and Mohamed Konneh

ID555 THE CONDITION MONITORING OF THE MICRO V-GROOVING WITH A SINGLE CRYSTAL DIAMOND TOOL USING THE AE TECHNOLOGY
Su-Hoon Jang, Hae-Woong Kwon, Ik-Soo Kang, Jeong-Suk Kim, Myung-Chang Kang

ID557 SURFACE ROUGHNESS MODELS FOR END MILLING TITANIUM ALLOY TI-6AL-4V UNDER ROOM TEMPERATURE AND PREHEATED MACHINING
Turnad L. Ginta, A.N.M. Karim, A.K.M. Nurul Amin, Mohd Amri Lajis

ID571 STUDY OF TOOL WEAR FOR MICRO-BALL-END MILLING PROCESS
Neng-Hsin Chiu and Nai-Kang Liu

ID577 APPLICATION OF DUCTILE FRACTURE CRITERIA TO INDUSTRIAL CUTTING PROCESSES
J.Petruska, J.Borkovec, J.Hulka and R.Foret

DAY 2: 28 Oct, 2009, (WEDNESDAY)
TIME: 16:15 – 18:30

DAY 2: 28 Oct, 2009, (WEDNESDAY)
TIME:16:15 – 18:30

Parallel Technical Session 7E: HIGH ENERGY BEAM PROCESSES

Chairperson: Ş.Kasman / Co-chair: Shih-Feng Tseng

**VENUE:
MERAK**

ID87 LASER SURFACE MELTING OF AUSTENITIC Cr-Ni STAINLESS STEEL

D.S. Stavrev, Ts.D. Dikova, VI.Shtarbakov, M.P. Milkov

ID145 LASER MICROMACHINING OF ROUGH PATTERNED TEMPLATES FOR GENERATION OF LIQUID DROPLETS

Shih-Feng Tseng, Kuo-Cheng Huang, Don-Yau Chiang, Ming-Fei Chen, Sheng-Yi Hsiao, Yung-Sheng Lin, and Chang-Pin Chou

ID220 OSCILLATION OF PLASMA FROM ELECTRON BEAM EVAPORATION OF A METAL TARGET

C.Y. Ho, Y. H. Tsai and M.Y. Wen

ID317 MULTI-SPHERE MIRROR DESIGN OF YAG LASER APPLIED FOR GLASS SUBSTRATE CUTTING

Wen-Hong Wu, Kuo-Cheng Huang and Shih-Feng Tseng

ID372 A STUDY ON THERMAL FRACTURE PROCESSING MODELS APPLIED TO GLASS SUBSTRATE CUTTING

Kuo-Cheng Huang, Min-Wei Hung, Shih-Feng Tseng, and Chi-Hung Hwang

ID468 A STUDY OF JET CHARACTERISTICS OF PLASMA ARC UNDER TRANSVERSE ALTERNATING MAGNETIC FIELD

J.B. Meng, L.J. Wang, X.Y. Wang, W.Q. Song and W.J. Xu

ID492 FORMING OF COATING STRUCTURE BY ELECTRIC EXPLODING OF CONTACT

E.G. Grigoryev

ID641 THE EFFECT OF SCAN SPEED ON ENGRAVING DEPTH AND SURFACE ROUGHNESS OF EN 1.2344 TOOL STEEL

Ş.Kasman And İ.E.Saklakoğlu

ID644 WEAR BEHAVIOUR OF EN 1.2344 TOOL STEEL MACHINED BY FIBER LASER

İ.E.Saklakoğlu And Ş.Kasman

DAY 2: 28 Oct, 2009, (WEDNESDAY)
TIME:16:15 – 18:30

Parallel Technical Session 7F : CAD, CAM, CAE

Chairperson: Faleh Abdullah Al-Sulaiman/ Co-chair: Nafis Ahmad

**VENUE:
HELANG**

ID699 LOW BIT RATE VIDEO CODING FOR REMOTE DESKTOP OPERATION OF CNC MILLING

Haris Al Qodri Maarif, Teddy Surya Gunawan, Afzeri

ID711 NUMERICAL SIMULATIONS OF NORMAL AND OBLIQUE PROJECTILE IMPACT ON DUCTILE TARGETS

M. A. Iqbal, G. Gupta and V. S. Deore

ID720 HEALTH AND SAFETY ISSUES FOR FEMALE WORKFORCE OF GARMENT INDUSTRIES IN BANGLADESH

Salma Akhter, Abul Fazal Md. Salahuddin , Mohammad Iqbal and Nasrin Jahan

ID792 EFFECT OF MOULDING SAND PROPERTIES ON COST EFFECTIVE HYBRID RAPID CASTING SOLUTION FOR ZINC ALLOY

T. Lal and R. Singh

ID813 VIRTUAL SIMULATION AND REMOTE DESKTOP INTERFACE FOR CNC MILLING OPERATION

Afzeri, A.G.E Sutjipto, R. Muhida, M. Konneh, Darmawan

ID849 OPTIMIZATION OF MULTIPASS TURNING PARAMETERS BY GENETIC ALGORITHM

Nafis Ahmad, Tomohisa Tanaka And Yoshio Saito

ID854 FINITE ELEMENT ANALYSIS OF TUBULAR OVALITY IN OIL WELL

Tasneem Pervez, Sayyad Z. Qamar

ID858 COMPUTER AIDED PROCESS PLANNING FOR MACHINING THEGEARS

Deepak Byotra, Rajesh Kumar Bhushan

ID870 LOAD CARRYING CAPABILITY OF LIQUID FILLED CYLINDRICAL SHELL STRUCTURES UNDER AXIAL COMPRESSION

Qasim H. Shah, Mohammad Mujahid

ID191 NUMERICAL SIMULATION OF COMBUSTION SYNTHESIS OF NI-AL INTERMETALLIC COMPOUNDS : PROCESS PARAMETERS STUDY

Maryam Shekari, Seyed Hossein Seyedein, Mahamad Reza Abutalebi, Mandana Adeli

DAY 2: 28 Oct, 2009, (WEDNESDAY) TIME: 16:15 – 18:30	Parallel Technical Session 7G : OTHERS Chairperson: A N M Karim/ Co-chair: M. Maizirwan	VENUE: RAJAWALI
	ID204 A HEURISTIC SOLUTION OF MULTI-ITEM SINGLE LEVEL CAPACITATED DYNAMIC LOT-SIZING PROBLEM WITH SETUP TIME Sultana Parveen, and Md. Ahsan Akthar Hasin	
	ID289 RESOURCE ALLOCATION AND BATCH SIZING IN A FLEXIBLE JOB SHOP Umar M. Al-Turki, Shaikh Arifusalam, Mohammed El-Seliaman and Mehmood Khan	
	ID889 RAPID PROTOTYPING IN MALAYSIA WAY Yusoff, Mohd Izzuan Md Zain, Muhammad Asrul Kamasan, Zuraida Nor Aman	
	ID890 FABRICATION SYSTEM FOR SURFACE MODIFICATION OF POLYSTYRENE BEADS BY UV/OZONE TREATMENT AND ITS CHARACTERIZATION A.N. Yusilawati, M. Maizirwan, I. Sopyan, M.S. Hamzah, K.H. Ng and C.S. Wong	
	ID891 FABRICATION OF CERAMIC MEMBRANE CHROMATOGRAPHY FOR BIOLOGICS PURIFICATION M. Mel, F.R. Abdeen, and I. Sopyan	
	ID892 POWDER METALLURGICAL PROCESSING OF GRAPHITE PARTICULATE ALUMINIUM MMC S. Sulaiman, Mohd Shukor B. Salleh, Thoguluva Raghavan Vijayaram	
	ID893 CAE FOR WARM DEEP DRAWING OF MG-AL-SUS CLAD SHEET METAL Y.S. Lee, T.W. Jung, D. Kim, Y.H. Moon	
	ID894 RAPID FABRICATION OF PROTOTYPES AND FUNCTIONAL PARTS USING SELECTIVE LASER SINTERING (SLS) TECHNOLOGY WAY Yusoff, D.T Pham, K.Dotchev	
	ID895 MANUFACTURING OF ACRYLIC DIE FOR THE PRODUCTION OF HIP-BONE JOINT BY CENTRIFUGAL CASTING PROCESS S. Norbahiyah, M. M. Haque	
	ID897 MECHANICAL ASSESSMENT OF DISSIMILAR DIFFUSION JOINTS OF CP-TI TO STAINLESS STEEL M. R. Soltan Mohammadi and S. F. Kashani Bozorg	

Day 3 Technical Session VIII (A-G)

DAY 3: 29 Oct, 2009, (THURSDAY)
TIME: 08:30 – 10:30

Parallel Technical Session 8A : FORMING PROCESSES Chairperson: S. A. A. Akbari Mousavi / Co-chair: Amirhossein Mansouri

VENUE:
BALLROOM 1

- ID639** SINTERING OF HYDROXYAPATITE CERAMIC PRODUCED BY WET CHEMICAL METHOD
S. Ramesh, R. Tolouei, C.Y. Tan, K. L. Aw, W. H. Yeo, I. Sopyan & W. D. Teng
- ID647** COMPUTER AIDED DESIGN OF FORGING MANIPULATOR ADAPTABILITY FOR HOT FORMING OF HEAVY FORGING
Y.C. Lin, M.S. Chen
- ID650** A COMPARATIVE STUDY OF LIQUID ROUTE POWDER COMPACT FOAMING METHODS FOR METAL FOAMS FABRICATION
Amirhossein Mansouri, N. Muhamad, A. Sulong, H. Abolhasani
- ID652** DEBINDING PROCESS OF A STARCH-BASED BINDER IN MIM
Hooman Abolhasani, Norhamidi Muhamad
- ID655** FAILURE PREDICTION IN DRAWING PROCESSES OF MG ALLOY SHEET BY THE FEM AND DUCTILE FRACTURE CRITERION
S.W. Kim, Y.S. Lee and B.S. Kang
- ID694** GROWTH OF CARBON NANOTUBE BY CVD ON THE AL NANO-CATALYST
P. Alizadeh Eslami, M. Ghoranneviss, Sh. Moradi, P. Abroomand Azar, S. Nasiri Laheghi and M. Najafi
- ID695** EFFECT OF SUBSTRATE ON GROWTH OF CARBON NANOFIBER BY CVD
M. Ghoranneviss, P. Alizadeh Eslami, S. Nasiri Laheghi, S. Babrzadeh and Kh. Mehrani
- ID728** EFFECTS OF ROLLING PROCESS AFTER TWIST EXTRUSION PROCESS ON MICROSTRUCTURE AND HARDNESS OF PURE ALUMINUM ALLOYS
S. Ranjbar Bahadori, S. A. A. Akbari Mousavi, A. R. Shahab
- ID865** STUDY OF MOLD DESIGN ON CAR-SEAT WITH 3D MOLD-FLOW ANALYSIS
Jui-Chang Lin, W.S. Lin, King Sun Lee

DAY 3: 29 Oct, 2009, (THURSDAY)
TIME: 08:30 – 10:30

Parallel Technical Session 8B : CASTING AND JOINING Chairperson: K. K. Ray / Co-chair: R. Singh

VENUE:
MERAK

- ID615** STUDY ON THE MICROSTRUCTURE AND PROPERTIES OF Fe-C-Si AND Fe-C-Al CAST IRONS
S. K. Shaha and M. M. Haque
- ID674** STRUCTURAL INTEGRITY OF SPOT-WELDS USED FOR AUTO-BODY FABRICATION
K.K. Ray and G. Mukhopadhyay
- ID684** CASTING OF HIP BONE JOINT WITH BIOCOMPATIBLE MATERIAL AND ANALYSIS OF ITS LOAD BEARING CAPACITY
Siti Norbahiyah and M. M. Haque
- ID730** EFFECTS OF POST WELD AGEING HEAT TREATMENTS ON THE MICROSTRUCTURE OF 17-4PH GTA WELDED JOINTS
S.A. A. Akbari Mousavi, S. A. Hoseini Hosein Abad
- ID731** EFFECTS OF OPERATIONAL PARAMETERS AND HEAT TREATMENTS ON THE ALUMINUM-STEEL EXPLOSIVELY WELDED COMPOSITE PLATES
S. A. A. Akbari Mousavi, A. A. Dashti and A. Halvaei
- ID787** INVESTIGATION ON JOINT STRENGTH OF DISSIMILAR RESISTANCE SPOT WELDS OF ALUMINUM ALLOY AND LOW CARBON
Seyedeh Nooshin Mortazavi, Pirooz Marashi, Majid Pouranvari, Masoud Goodarzi, Maryam Masoumi
- ID794** EFFECT OF WORK PIECE DIMENSIONS ON COST EFFECTIVE HYBRID RAPID CASTING SOLUTION FOR ALUMINIUM ALLOY
R. Singh and R. Singh
- ID800** DESIGN AND SIMULATION ON CAST METAL MATRIX COMPOSITE BY INVESTMENT CASTING
Taufik, S. Sulaiman, T.A. Abdullah, Sivarao

DAY 3: 29 Oct, 2009, (THURSDAY)
TIME: 08:30 – 10:30

Parallel Technical Session 8C : MATERIALS
Chairperson: I. Etem Saklakoglu / Co-chair: A. A. Gandhi

VENUE:
BALLROOM 2

ID147 AN INFLUENCE OF A BINDER SYSTEM TO THE RHEOLOGICAL BEHAVIOR OF THE SS316L METAL INJECTION MOLDING (MIM) FEEDSTOCK

Khairur Rijal Jamaludin, Norhamidi Muhamad, Hooman Abolhasani, Murtadhahadi, Mohd Nizam Ab. Rahman

ID738 SM-DOPED NiFe THIN FILMS: STRUCTURAL AND MAGNETIC CHARACTERISATION

A. A. Gandhi, I. Z. Rahman, M. V. K. Mousavi and M. A. Rahman

ID739 MICROSTRUCTURAL AND MAGNETIC STUDIES ON CALCINED Ni-Zn FERRITE POWDERS PREPARED BY CHEMICAL CO-PRECIPITATION METHOD

I. Z. Rahman and T. T. Ahmed

ID740 SYNTHESIS OF La_{0.75}Sr_{0.25}Cr_{0.5}Mn_{0.5}O_{3-δ} PEROVSKITE BASED SOLID OXIDE FUEL CELL ANODE MATERIALS USING SOLUTION-COMBUSTION METHOD

I. Z. Rahman and M. A. Raza

ID774 THE EFFECT OF INCORPORATING LITHIUM FLUORIDE ON THE COMPRESSIVE STRENGTH AND DIAMETRIC TENSILE STRENGTH OF THE GLASS IONOMER CEMENT

Ammar A. Mustafa, Khalid A. S. Al-Khateeb, Ahmad Faris Ismail

ID778 INFLUENCES AND PROPERTIES OF VARIOUS ACTIVATED CARBON AND CARBON BLACK FILLED IN EPOXY COMPOSITE

P. Firoozian and H.P.S Abdul Khalil, Hazizan Md. Akil, Ahmad Md. Noor

ID781 PREPARATION OF EPOXY-KENAF NANOCOMPOSITE BASED ON MONTMORILLONITE

A. Zuliahani, H.D. Rozman and G.S. Tay

ID782 ULTRA-VIOLET RADIATION CURED COMPOSITES BASED ON UNSATURATED POLYESTER RESIN FILLED WITH MMT AND KENAF BAST FIBER

A.R. Rozyanty, H.D. Rozman and G.S. Tay

DAY 3: 29 Oct, 2009, (THURSDAY)
TIME: 08:30 – 10:30

Parallel Technical Session 8D : MATERIALS
Chairperson: Qasim H. Shah / Co-chair: Amro M. Al-Qutub

VENUE:
BALLROOM 3

ID783 USING OF THE ELECTRON MICROSCOPY IN THE STUDY OF IRON BASED ALLOYS

L. Adnane-Amara, S-E. Amara and R. Kesri

ID790 EVALUATION OF FRICTION WELDED BI-MATERIAL JOINT STRENGTH SUBJECTED TO IMPACT LOADS

Qasim H. Shah, Meftah Hrairi, Kassim A. Abdullah

ID795 CONTROLLED POTENTIAL ELECTRODEPOSITION AND CHARACTERIZATION OF ZNTE THIN FILMS ON INDIUM TIN OXIDES

S. A. Mohamad, W. J. Basirun, Z. A. Ibrahim, A. K. Arof, M. Ebadi

ID796 STRUCTURE AND OPTICAL CHARACTERIZATION OF ELECTRODEPOSITED ZINC SELENIDE THIN FILMS

S. A. Mohamad, W. J. Basirun, Z. A. Ibrahim, A. K. Arof, M. Ebadi

ID810 THE EFFECTS OF COMPATIBILIZER AGENT AND ELECTRON BEAM RADIATION ON TENSILE PROPERTIES OF PP/EPDM-OMMT NANOCOMPOSITES

Nurhidayah Md Kahar, Iryani Daud, Hazleen Anuar and Shamsul Bahri, A.R.

ID816 COMPATIBILIZED PP/EPDM – KENAF FIBRE COMPOSITE USING MELT BLENDING METHOD

Nur Asilah Hassan, Nur Fadzlin Mohd Fauzey and Hazleen Anuar

ID817 FABRICATION OF CuSiC COMPOSITE BY POWDER METALLURGY ROUTE

A.R. Fatimah Azreen and A.G.E. Sutjipto

ID825 GROWTH OF CARBON NANOMATERIAL ON GRANULAR ACTIVATED CARBON

Yusuf Bamidele Onundi, Abdullah Al-Mamun, Ma'an Fami R. Al-khatib and Yehya M. Ahmed

ID840 HIGH TEMPERATURE TENSILE RESPONSE OF AL 6061 REINFORCED WITH SUBMICRON ALUMINA COMPOSITE

Amro M. Al-Qutub

DAY 3: 29 Oct, 2009, (THURSDAY)
TIME:08:30– 10:30

Parallel Technical Session 8E: MATERIAL REMOVAL PROCESSES

Chairperson: Pradip Kumar Pal / Co-chair: H.Y. Tam

**VENUE:
ENGGANG**

ID349 OPTIMIZATION OF PROCESS PARAMETERS ON EDM MILLING OF STAINLESS STEEL AISI 304
AKM Asif Iqbal, Ahsan Ali Khan

ID580 PRINCIPAL METHODS OF EXPERIMENTAL DESIGN AND STATISTICAL ANALYSIS USED IN
EXPERIMENTAL STUDIES OF MACHINING PROCESSES
M. Villeta, B. de Agustina, J.M. Sáenz de Pipaón and E.M. Rubio

ID565 SURFACE ROUGHNESS AND SURFACE INTEGRITY OF END MILLED TITANIUM ALLOY TI-6AL-4V AT
ROOM TEMPERATURE AND PREHEATED MACHINING
Turnad L. Ginta, A.K.M. Nurul Amin, A.N.M. Karim, Mohd Amri Lajis

ID595 INFLUENCE OF ELECTRODE PROFILES ON ELECTRICAL DISCHARGE MACHINING OF TITANIUM
Zakaria Mohd Zain, Ahsan Ali Khan and Suleiman Abdulkareem

ID598 EFFECTS OF PROCESS PARAMETERS ON SURFACE FINISH IN CYLINDRICAL GRINDING
Pradip Kumar Pal, Asish Bandyopadhyay, Ramesh Rudrapati

ID607 VIBRATION IN TRAVERSE CUT CYLINDRICAL GRINDING – EXPERIMENTS AND ANALYSIS
Ramesh Rudrapati, Pradip Kumar Pal, Asish Bandyopadhyay

ID616 ANALYSIS OF THE MACHINABILITY OF ALUMINIUM ALLOYS UNS A97050-T7 AND UNS A92024-T3
DURING SHORT DRY TURNING TESTS
B. de Agustina, A. Saa, M. Marcos and E.M. Rubio

ID678 INVESTIGATION OF A NEW METHOD FOR PREDICT SURFACE ROUGHNESS AFTER HIGH SPEED
MACHINING OF GAMMA TITANIUM ALUMINIDE
Sajjad Kolahdouz, B.Arezoo and Mostafa Hadi

DAY 3: 29 Oct, 2009, (THURSDAY)
TIME:08:30– 10:30

Parallel Technical Session 8F : SURFACE ENGINEERING

Chairperson: Agus Geter / Co-chair: J. H. Park

**VENUE:
HELANG**

ID422 THE EFFECTS OF CBN CUTTING TOOL EDGE GEOMETRY ON THE TOOL LIFE AND WEAR MECHANISM
WHEN DRY TURNING OF TITANIUM ALLOY
Yanuar Burhanuddin, Che-Hassan Che-Haron, Jaharah A. Ghani

ID154 FORMATION OF Ti-Al-N DISPERSED LAYER ON STEEL SURFACE BY TIG MELTING IN A REACTIVE
ENVIRONMENT
S.Dyuti, S. Mridha, S.K.Shaha

ID464 INVESTIGATION ON COLORFUL TITANIUM OXIDE REACTED FILM USING EDM PROCESS
P.L. Song, Y.Y. Tasi, C.H. Lee and M.C. Hung

ID486 TiO₂ FOAM: CHARACTERIZATION AND CELL ADHESION
Roshasnorlyza Hazan, Srimala Sreekantan, Adilah Abdul Khalil, Ira Maya Sophia Nordin, Ishak Mat

ID495 TEMPERATURE DISTRIBUTION IN PULSE LASER GLAZING OF DIE STEEL
S.N. Aqida, D. Brabazon, and S. Naher

ID505 THE EFFECTS OF CS CASTING AND ISOTHERMAL TREATMENT ON WEAR BEHAVIOR OF A380 ALLOY
N. Saklakoglu, S.Gencalp and S. Kasman

ID523 RESIDUAL STRESSES OF CONDUCTIVE THIN FILMS DEPOSITED ON FLEXIBLE SUBSTRATES
R. C. Chang, F. Y. Chen and C. P. Yeh

ID560 THE HIGH TEMPERATURE FATIGUE BEHAVIOR OF INCONEL-738LC MATERIAL DEPOSITED THERMAL
BARRIER COATING
J. H. Park, M. S. Ku, T. K. Choi, J. S. Kim, K. H. Lee, Y. S. Song, M. C. Kang

ID754 TITANIUM INTERLAYER AND ITS EFFECT ON THE ADHERENCE STRENGTH OF TIALN BY TAGUCHI
METHOD
Bushroa Abdul Razak, Chee Wei Choong, Muhamad Rasat Muhamad and Masjuki Hassan

Parallel Technical Session 8G : MANUFACTURING MANAGEMENT		VENUE: RAJAWALI
Chairperson: Nassereldeen. A. Kabbashi / Co-chair: M. M. Rahman		
DAY 3: 29 Oct, 2009, (THURSDAY) TIME:08:30– 10:30	ID541 COMMON PROBLEMS ENCOUNTERED BY MALAYSIAN DREDGING STAKEHOLDERS, THE RECOMMENDATION AND RELATION TO THE ENVIRONMENT Norpadzlihatun Binti Manap, Norzima Zulkifli	
	ID575 SELECTION OF MATERIALS AND MANUFACTURING PROCESSES TOWARDS ACHIEVING GREEN ENGINEERING M. M. Haque, Tuti Y. Alias and Ahmad F. Ismail	
	ID648 AN ANTHROPOMETRIC STUDY TO DETERMINE THE MISMATCHES OF FURNITURE USED BY BANGLADESHI UNIVERSITY STUDENTS: A CASE STUDY Abdullah-Al- Khaled, Md. Shahriar Jahan Hossain and Md. Tanveer Ahmed	
	ID751 INTEGRATED SCHEDULED WASTE MANAGEMENT USING AN EXPERT SYSTEM (ISWMES) KUALA LUMPUR CASE STUDY Nassereldeen. A. Kabbashi, Mohammed Saedi Jami, Mohamed E. S. Mirghani and Najla Bt Shuhud	
	ID871 REVERSE ENGINEERING OF MOTORCYCLE CHAIN M.A. Maleque and M. M. Rahman	
	ID876 PREDICTION OF RECYCLE METHOD BY RELEVANCE VECTOR MACHINE (RVM) K. Kadirgama, M.M. Noor, M.M. Rahman	
	ID902 DETERMINATION OF ARSENIC (III) AND ARSENIC (V) SPECIES BY PRECONCENTRATION AND INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY (ICP-MS) IN DRINKING WATER SAMPLES ANALYSIS. A. M. Yusof, M. M. Rahman, A. K. H. Wood, S. Hamzah and A. Shamsiah	
	ID903 SPECIATION OF MERCURY IN ENVIRONMENTAL WATER SAMPLES WITH SEASONAL CHANGE M. M. Rahman and A. M. Yusof	
	ID906 THE APPLICATION OF RAPID PROTOTYPING TECHNOLOGY AND FMEA QUALITY TOOL IN THE DEVELOPMENT OF AUTOMOTIVE COMPONENT WAY Wan Yusoff, Sa'edun, Faidhi Afiq	

DAY 3: 29 Oct, 2009, (THURSDAY) TIME:10.45-11.25	Parallel Keynote Speeches		Venue
	Keynote-4		
	Speaker: Prof. Faleh Abdullah Al-Sulaiman Title: An Assessment of the Regional Needs For Advanced Manufacturing Technologies: Rapid Prototyping Chairman: Prof. MSJ Hashmi		BALLROOM 1
	Keynote-5		
	Speaker: Prof. Emin Bayraktar Title: Development of Steel Matrix Composites in ARCELOR-FRANCE: Evolution of metallurgical and mechanical properties Chairman: Prof. Shamsuddin Sulaiman		BALLROOM 2
	Keynote-6		
	Speaker: Prof. M. Sarwar Title: Wealth creation through Emerging and Established Technologies - A strategy for the future Chairman: DR. Amir Akramin Shafie		BALLROOM 3

Day 3 Technical Session IX (A-G)

DAY 3: 29 Oct, 2009, (THURSDAY) TIME: 11:30 – 13:00	Parallel Technical Session 9A : FORMING PROCESSES Chairperson: Afzeri / Co-chair: W.L. Chan VENUE: BALLROOM 1 ID734 NUMERICAL STUDY OF THE FLOW FORMING PROCESS OF AISI 630 STAINLESS STEEL Seyed Mohammad Ebrahim, Seyed Ali Asghar Akbari Mousavi, Mostafa Soltan Bayazidi, Mohammad Mastoori ID741 INVESTIGATIONS ABOUT THE SINGLE POINT INCREMENTAL FORMING OF ANISOTROPIC TITANIUM ALLOY SHEETS G. Palumbo, M. Brandizzi, G. Cervelli, M. Fracchiolla ID765 A 3-D FORMING PREDICTION METHOD OF INCREASE OF SHEET THICKNESS DURING DRAWING PROCESS Y. Kotani, A. Watanabe, K. Nishiumura and H. Watari ID767 IMPROVEMENT OF LOCAL DECREASE IN MATERIAL THICKNESS ON FUEL SUPPLY PIPE N. Kamei, H. Watari, T. Hatano, and Y. Kawamura ID811 EFFECT OF ADDENDUM PARAMETERS TO THE FORMABILITY OF ALUMINUM AL 6303 Afzeri, Shahdan M.S, Qasim H ID841 3D CONTACT MODELING OF LARGE PLASTIC DEFORMATION IN POWDER FORMING PROCESSES A.R. Khoei, S.O.R. Biabanaki, S.M. Taheri-Mousavi and A.R. Vafa ID867 SIZE EFFECT ON MICRO DEFORMATION AND FRICTIONAL BEHAVIORS IN MICROFORMING W.L. Chan, M.W. Fu, J. Lu
	Parallel Technical Session 9B : MATERIALS Chairperson: M.Mahbubur Rashid / Co-chair person: N.A., Jamal VENUE: BALLROOM 2 ID827 CHARACTERIZING CHICKEN EGGSHELL REINFORCED POLYPROPYLENE (PP) Sivarao, Azhar Shah, Mohd Rizal Salleh, Kamely A, Tajul.A, Taufik ID828 MECHANICAL PROPERTIES MODIFICATION OF POLYETHYLENE (PE) FOR CaCO₃ PARTICULATED COMPOSITES Sivarao, Azhar Shah, Mohd Rizal Salleh, Kamely A, Tajul.A, Taufik ID830 STUDY ON THE POSSIBILITY OF UTILIZATION OF RICE HUSK FOR SILICON PRODUCTION Nor Fazilah Mohd Selamat, Hadi Purwanto and Yassin Nimir ID836 EGG YOLK AS PORE CREATING AGENT TO PRODUCE POROUS TRI-CALCIUM PHOSPHATE FOR BONE IMPLANT APPLICATION A.R. Fariza, A. Zuraida, I.Sopyan ID837 THE EFFECTS OF HIGH ENERGY RADIATION ON THE TENSILE PROPERTIES OF RUBBER TOUGHENED NANOCOMPOSITES N.A., Jamal, H., Anuar and S.B. A., Razak ID839 MOULD FILLING AND PRESSURE DISTRIBUTION FOR POLYMER RESINS Mohd A, C Hindle, M Barker and WAY Yusoff ID900 DEVELOPMENT OF VIBRATION SUPPRESSION DEVICES FROM SMART FLUIDS M.Mahbubur Rashid, Momoh J.E Salami, M. Raisuddin. K and Mozasser.R
	Parallel Technical Session 9C : MATERIALS Chairperson: Zuraida Ahmad/ Co-chair person: Hongqian Xue VENUE: BALLROOM 3 ID848 THE STUDY OF GRAFTING GLYCIDYL METHACRYLATE ONTO NATURAL RUBBER P. Juntuek C. Ruksakulpiwat, P. Chumsamrong and Y. Ruksakulpiwat ID850 FATIGUE BEHAVIOR AND DAMAGE MECHANISM OF AN CAST ALUMINUM ALLOY IN VERY HIGH CYCLE REGIME Hongqian Xue, E. Bayraktar, C. Bathias ID863 SELF DOPED CONDUCTING POLYMER AND Na⁺-MMT CLAY NANOCOMPOSITES Leela Joshi, Pralay Mait and Rajiv Prakash ID864 NANOCOMPOSITE: DEVELOPMENT AND CHARACTERIZATION Bhavana Gupta, Vignesh Sundar, Rajiv Prakash ID872 MATERIAL PROPERTIES AND DESIGN ASPECTS OF FOLDING BICYCLE FRAME M.A. Maleque and M S Hossain ID884 EFFECTS OF TITANIUM COMBINED WITH ALUMINUM ON THE ELECTROCHEMICAL PROPERTIES AND EFFICIENCY OF MG-MN ANODES E.Fadaei, M. Emamy, C. Dehghanian and M. Karshenas

DAY 3: 29 Oct, 2009, (THURSDAY) TIME:11:30– 13:00	Parallel Technical Session 9D : MATERIAL REMOVAL PROCESSES Chairperson: Md. Zahangir Alam / Co-chair person: M. Y. Tsai VENUE: ENGGANG ID726 STUDY OF MACHINING PARAMETERS SETTING FOR DIFFERENT MATERIALS IN WEDM Y.S. Liao and Y.P. Yu ID732 AN OPTIMIZATION OF GLASS MILLING PROCESS USING TAGUCHI DESIGN METHOD TO MINIMIZE ITS CRACK EFFECT Mohd Hamdi Abdul Shukor, Mohd Sayuti Ab Karim and Yong Lin Ng ID768 EXPERIMENTAL INVESTIGATION DURING FINISHING OF AL/SiC-MMC's BY ABRASIVE FLOW MACHINING PROCESS Harlal Singh Mali and A. Manna ID775 IMMOBILIZATION OF ACTIVATED CARBON ON FUNGAL BIOMASS USED AS BIOADSORBENT FOR DECOLORIZATION Mohammad Jakir Hossain Khan, Md. Zahangir Alam and Nassereldin Ahmad Kabbashi ID776 THE INFLUENCE OF CHANGING TOOL ORIENTATION AND FEED-RATE CONTROL ON THE MACHINED SURFACE QUALITY IN 5-AXIS MILLING Gandjar Kiswanto, Suntoro Suntoro, Vinsensius Ricko ID820 ORGANIC DIAMOND DISK VERSUS BRAZED DIAMOND DISK FOR DRESSING CMP POLISHING PAD M. Y. Tsai, T. C. Chen, J. C. Sung
	Parallel Technical Session 9E: MATERIAL REMOVAL PROCESSES Chairperson: Mirghani I. Ahmed/ Co-chair person: Gunawan Setia Prihandana VENUE: MERAK ID823 PERFORMANCE OF CBN AND PCBN TOOLS ON THE MACHINING OF HARD AISI 440C MARTENSITIC STAINLESS STEEL S.Thamizhmanii, Rosli and S.Hasan ID851 AN ANALYTICAL STUDY OF VIBRATION ASSISTED MACHINING A. R. Alao ID852 ANALYSIS OF THE VITRIFIED CBN WHEELS FOR THE PERFORMANCE OF GRINDING HARDENED STEEL S.Y. Luo and S.Q. Xu ID855 nMACHINABILITY IMPROVEMENT BY WORKPIECE PREHEATING DURING END MILLING AISI H13 HARDENED STEEL Suhaily Mokhtar, AKM Nurul Amin, Anayet Ullah Patwari, Nurhayati Ab. Razak ID856 PREDICTION OF SURFACE ROUGHNESS IN HIGH SPEED MACHINING OF INCONEL 718 Suhaily M, AKM Nurul Amin, Md. Anayet U Patwari ID857 STUDY ON THE EFFECT OF NANO AND MICRO MOS2 POWDER IN MICRO-ELECTRICAL DISCHARGE MACHINING Gunawan Setia Prihandana, Muslim Mahardika, Sar Sambo, M. Hamdi, Y. S. Wong, Kimiyuki Mitsui ID881 CURRENT RESEARCH TRENDS ON DRY, NEAR-DRY AND POWDER MIXED ELECTRICAL DISCHARGE MACHINING M.A.R. Khan, M. M. Rahman, M. M. Noor, K. Kadirgama and M. A. Maleque
DAY 3: 29 Oct, 2009, (THURSDAY) TIME:11:30– 13:00	Parallel Technical Session 9F : HIGH ENERGY BEAM PROCESSES Chairperson: Sany Izan / Co-chair person: Omer Keles VENUE: RAJAWALI ID653 SOLUTION OF A NONLINEAR TWO-TEMPERATURE MODEL FOR ULTRASHORT-PULSE LASER C. Y. Ho and M.Y. Wen ID667 CO₂ LASER – MIG HYBRID WELDING OF TITANIUM ALLOY M. Brandizzi, A.A. Satriano, L. Tricarico ID723 ANALYSIS OF THE KERF QUALITY IN THE FIBER LASER CUTTING OF Ti6AL4V THIN SHEET Leonardo Daniele Scintilla, Donato Sorgente and Luigi Tricarico ID727 INFLUENCE OF LASER PARAMETERS ON PRECISION IN HYBRID PLASMA LASER DEPOSITION MANUFACTURING Ying-ping Qian and Hai-ou Zhang and Ju-hua Huang ID769 A STUDY OF OPTIMIZATION OF THE EFFECTS OF MACHINING PARAMETERS FOR DIE-SINKING ELECTRICAL DISCHARGE MACHINING OF AISI D2 STEEL M. Konneh, A. Suleiman and A. A. Khan ID819 LASER CUTTING PROCESS: INFLUENCE OF LASER POWER SETTING AND CUTTING SPEED OF THE CUT QUALITY Omer Keles and Ufuk Oner

DAY 3: 29 Oct, 2009, (THURSDAY) TIME:11:30– 13:00	Parallel Technical Session 9G : SURFACE ENGINEERING Chairperson: Shahida Begum / Co-chair person: A.R.Daud		VENUE: HELANG
	ID84 EFFECTS of SILICON CONTENT ON THE MICROSTRUCTURE AND CORROSION BEHAVIOR of Fe-Cr-C HARDFACING ALLOYS G. Azimi and M. Shamanian		
	ID625 THE EFFECT OF THERMAL AGING ON WEAR BEHAVIOUR OF AL-4SI-4MG ALLOY CONTAINING CERIUM A.R.Daud, A.S.Anasyida, M.J.Ghazali		
	ID153 WEAR BEHAVIOR OF MODIFIED SURFACE LAYER PRODUCED BY TIG MELTING OF PREPLACED Ti POWDER IN NITROGEN ENVIRONMENT S.Dyuti, S. Mridha, S.K.Shaha		
	ID669 MODELING IMPACT OF CERAMIC DROPLET ON SOLID SURFACE Z. Skanderi ; I. Kriba; A. Djebaili		
	ID702 THE EFFECT OF BLACK POWDER COMPOSITION ON THE ERROSION OF COMPRESSOR'S IMPLLER IN GAS TRANSMISSION LINE M.Saremi and M. Kazemi		
	ID703 OXIDATION, CORROSION AND ELECTRICAL RESISTNCE OF NANOCRYSTALLINE COPPER DEPOSIT PRODUCED BY PULSE ELECTRODEPOSITION M .Saremi, M .Abouie		

Day 3 Technical Session X (A-G)

DAY 3: 29 Oct, 2009, (THURSDAY) TIME:14:00 – 15:30	Parallel Technical Session 10A : FORMING PROCESSES Chairperson: A A Khan / Co-chair person: Paul Derham		VENUE: BALLROOM 1
	ID905 DESIGN AND MANUFACTURE OF VACUUM FORMING MOULDS Paul Derham, Sumsun Naher, Dermot Brabazon		
	ID910 DEVELOPMENT OF AN ACTIVE DIE-SET FOR COLD FORGING Zhigang Wang, Hiromitsu Takano, Katsuyoshi Hirasawa		
	ID911 DEFORMATION BEHAVIOR OF METAL SHEETS IN V-BENDING Zhigang Wang, Shota Ikeido		
	ID912 ASTIC DEFORMATION PROCESSES FOR TRIPLE CUP Zhigang Wang, Masayuki Kumano		
	ID913 AN UPSETTING - EXTRUSION TYPE TRIBO-METER FOR EVALUATING TRIBOLOGICAL PERFORMANCE OF LUBRICATION COATINGS IN COLD FORGING Zhigang Wang, Shinobu Komiyama, Yuichi Yamaoka		
DAY 3: 29 Oct, 2009, (THURSDAY) TIME:14:00 – 15:30	Parallel Technical Session 10B : CASTING AND JOINING Chairperson: M A Maleque / Co-chair person: O. Al-Mana		VENUE: BALLROOM 2
	ID838 THE EFFECT OF HEAT TREATMENT PARAMETERS ON THE MICROSTRUCTURE AND TOUGHNESS OF THE AUSTEMPERED DUCTILE IRON (ADI) A.Abedi, S.P.H.Marashi, K.Sohrabi, M.Marvastian, S.M.H.Mirbagheri		
	ID853 ALUMINIUM METAL MATRIX COMPOSITE: IMPROVING WEAR PERFORMANCE THROUGH TREATMENT M.A. Maleque and M.R. Karim		
	ID868 AN INVESTIGATION INTO WETTING BEHAVIOR OF HIGH TEMPERATURE Pb2.0Sn2.5Ag and Sn25Ag10Sb SOLDERS ON Cu SUBSTRATE S.Anwar, Sharon Leong, M.Hamdi		
	ID880 THE EFFECTS OF ISOTHERMAL TEMPERATURE ON THE MICROSTRUCTURE OF SEMISOLID A6070 ALLOY PRODUCED BY SIMA PROCESS M. Karshenas, M. Emany and E. Fadaei		
	ID901 LASER GAS ASSISTED NITRIDING AND TIN COATING OF Ti-6Al-4V ALLOY O. Al-Mana M.S.J. Hashmi B.S. Yilbas		
	ID558 MICROSTRUCTURE CHARACTERISTICS OF FRICTION STIR WELDED ALUMINUM AND TITANIUM DISSIMILAR JOINT Jae-keun Hong, Jee-hoon Kim, Jeung-han Kim, Jong-taek Yeom, Chang-Gil Lee and Nhokwang Park		

DAY 3: 29 Oct, 2009, (THURSDAY) TIME: 14:00 – 15:30	Parallel Technical Session 10C : MATERIALS Chairperson: M Haque / Co-chair person: E. Pujiyanto VENUE: BALLROOM 3 ID246 OPTIMIZATION OF SYNTHESIS OF HYDROXYAPATITE FROM LOCAL GYPSUM AND CYTOTOXICITY EVALUATION E. Pujiyanto, A.E.Tontowi , M.W. Wildan and W.Siswomihardjo ID885 EFFECTS OF STRONTIUM AND CALCIUM ON THE MICROSTRUCTURE AND GRAIN SIZE OF CAST AZ91 MAGNESIUM ALLOY A. Kiani, M. Emamy, E. Fadaei and S. Ghannadi ID886 THE EFFECT OF CHROMIUM ADDITION ON THE MICROSTRUCTURE AND TENSILE PROPERTIES OF CASAT AL-MG₂Si METAL MATRIX COMPOSITE M.R.Ghorbani, M.Emamy, N.Nasiri ID887 THE EFFECT OF LITHIUM ON MORPHOLOGY OF FE-RICH INTERMETALLIC COMPOUNDS IN 360 CAST ALLOY N.Nasiri, M.Emamy, M.Bigdeli ID818 MICROSTRUCTURE AND ELECTRICAL PROPERTIES OF AZO FILMS A.G.E. Sutjipto, R. Othman, R. Muhida and Afzeri ID896 PHASE FORMATION DURING REDUCTION OF IRON SAND WITH SODA ASH FLUX ADDITION Nuryadi Saleh, Hadi Purwanto, Yuhelda Dahlan and Pramusanto
DAY 3: 29 Oct, 2009, (THURSDAY) TIME: 14:00 – 15:30	Parallel Technical Session 10D : MATERIAL REMOVAL PROCESSES Chairperson: Mohammad Mujahid / Co-chair person: Mariano Marcos VENUE: ENGGANG ID866 ELUCIDATING THE EFFECTS OF HELICAL PASSAGEWAYS IN ABRASIVE FLOW MACHINING A.C. Wang, and K.C. Cheng, J.S. Huang , H.H. Chiu ID875 OPTIMISATION OF HEAT AFFECTED ZONE BY PARTIAL SWARM OPTIMISATION IN AIR PLASMA CUTTING OPERATION K. Kadirgama, M. M. Noor, M. M. Rahman, W.S.W. Haron and M. A. Maleque ID877 END MILLING SURFACE ROUGHNESS OPTIMIZATION USING RESPONSE ANT COLONY (RACO) M. M. Noor, K. Kadirgama, M. M. Rahman, M. A. Maleque, Aidy Ali and S.M.Sapuan ID878 PATTERN RECOGNITION METHOD TO PREDICT RECYCLING STRATEGY FOR ELECTRONIC EQUIPMENTS M. M. Noor, K. Kadirgama, M. M. Rahman and M. A. Maleque ID715 ROUGHNESS VARIABLES BASED MODELS FOR TANGENTIAL CUTTING FORCES IN THE HORIZONTAL DRY TURNING OF AL-CU ALLOYS J. Salguero, M.S. Carrilero, M. Batista, M. Álvarez , M. Marcos ID716 AN EXPONENTIAL PARAMETRIC MODEL FOR PARALLELISM DEVIATION IN THE DRY TURNING OF AEROSPACE ALLOYS Mariano Marcos, Jose Miguel Sanchez Sola, Jorge Salguero, Miguel Angel Sebastian, Eva Rubio
DAY 3: 29 Oct, 2009, (THURSDAY) TIME: 14:00 – 15:30	Parallel Technical Session 10E: NANOTECHNOLOGY Chairperson: M. Konneh / Co-chair person: S. Sarfraz VENUE: RAJAWALI ID252 ANALYTICAL STUDY OF BAND STRUCTURE EFFECT ON CARRIERS IN SEMICONDUCTING CARBON NANOTUBES Mohammad Taghi Ahmadi, Hassan Jafari, Razali Ismail ID760 FABRICATION OF SILICON NANOPILLAR SHEET FOR CELL CULTURE DISH Mohammad Yeakub Ali and Nurul Hajar ID770 DEVELOPMENT OF A LOW COST LAPPING PROCESS M. Konneh, A. K. M. Nurul Amin, Afzeri and A. A. Ahmarofi ID833 RESIDUAL STRESSES OF MULTIPLE THIN FILMS DEPOSITED AT VARIOUS SUBSTRATE TEMPERATURES Tsai-Cheng Li and Rwei-Ching Chang ID882 SYNTHESIS AND CHARACTERIZATION OF NANO HYDROXYAPATITE S. Sarfraz, B. Naseem, S. Amin and M. Mujahid ID845 MECHANOCHEMICAL REDUCTION OF MoO₃ POWDER BY SILICONE TO SYNTHESIZE NANOCRYSTALLINE MoSi₂ H. Ramezanalizadeh and S. Heshmati-Manesh

DAY 3: 29 Oct, 2009, (THURSDAY) TIME: 14:00 – 15:30	Parallel Technical Session 10F : SURFACE ENGINEERING Chairperson: B.S.Y. Yilbas / Co-chair person: N. Bahiyah Baba VENUE: HELANG ID764 EFFECTS OF SIMULTANEOUSLY USING ZNO&AL₂O₃ NANOPARTICLES TO IMPROVE ANTICORROSIVE AND ADHESION PROPERTIES EPOXY'S COATING AbdolRasoul Ghanbar, Hossein Nuranian ID784 STUDY OF THE DEPOSITION OF Ti/TiN MULTILAYERS BY MAGNETRON SPUTTERING N.Saoula, K.Henda, R.Kesri, R.M.Erasmus, J.D.Comins ID789 EFFECTS OF CERAMIC PARTICLE SIZE AND BATH CONDITIONS ON DEPOSITION RATE IN ELECTROLESS NICKEL/YSZ COMPOSITE COATINGS N. Bahiyah Baba, W. Waugh and A. M. Davidson ID832 NANO-CHARACTERISTICS OF EXPANDED AUSTENITE LAYER ON SS 316 L RESULTING FROM LOW TEMPERATURE HYBRID THERMOCHEMICAL TREATMENTS Askar Triwiyanto, Esa Haruman, Shahjahan Mridha ID898 APPLICATION OF FEM SIMULATION AND ABDUCTIVE NETWORK TO PREDICT SCRATCH CHARACTERS FOR THE ENGINEERING MATERIAL S. Y. Chang, T.S. Yang and J.C. Chou ID908 HVOF COATING OF INCONEL 625 BLENDED WITH WC: FRACTURE TOUGHNESS MEASUREMENT Z.Y. Al-Taha , M.S.J. Hashmi ,B.S.Y. Yilbas
	Parallel Technical Session 10G :CAD, CAM, CAE AND OTHERS Chairperson: A.K.M. Mohiuddin / Co-chair person: Lal Mohan Baral VENUE: MERAK ID742 FEASIBILITY STUDY OF CAD AND CAM TECHNOLOGY IN GARMENTS INDUSTRIES OF BANGLADESH Lal Mohan Baral ID873 MODELING, ANALYSIS AND FATIGUE LIFE PREDICTION OF LOWER SUSPENSION ARM M. M. Rahman, M. M. Noor, K. Kadirgama, M. A. Maleque ID874 CONCEPTUAL DESIGN OF ALUMINIUM METAL MATRIX COMPOSITE BRAKE ROTOR SYSTEM M.A. Maleque and M. M. Rahman ID904 APPLICATION OF MULTI-OBJECTIVE GENETIC ALGORITHM (MOGA) FOR DESIGN OPTIMIZATION OF VALVE TIMING AT VARIOUS ENGINE SPEEDS A.K.M. Mohiuddin, Md. Ataur Rahman and Yap Haw Shin ID909 DEVELOPMENT OF A PILOT-SCALE WEB-BASED INVENTORY MANAGEMENT SYSTEM FOR LAB EQUIPMENT AND CONSUMABLES A.N Mustafizul Karim and Mohd Fadli Saad