



International Institute of WELDING

International Congress on
WELDING and JOINING
(IIWC2009)



CONGRESS PROGRAMME

TECHNICAL SESSIONS

DAY 1: 30th NOV., 2009 (MONDAY)

ORAL PRESENTATION

TIME: 11:30-13:30

	ATTAR HALL Advanced Welding Processes	FEYZ HALL Health Monitoring
11:30-11:50	O1101: M. Abbasi, M. Ketabchi, M. A. Shafaat, ... Determining Optimum Values of Laser Welding Parameters for a TWB -Using Taguchi Method	Keynote Speech
11:50-12:10	O1102: A. Ataei, A. H. Kokabi, A. Akbarzadeh Effect of Laser Welding Conditions on Properties of Steel Tailor Welded Blanks (TWB)	
12:10-12:30	O1103: M. Kashani, T. Aizawa, K. Okagawa, ... Welding of Aluminum Alloys and High Strength Steel Sheets by Magnetic Pulse Welding Technique	O1201: E. Huanca, S. Alfaro Disturbances Monitoring and Detecting in GMAW-S through Arc Welding Acoustic and Electromagnetic Emissions
12:30-12:50	O1104: H. Adgi, A. Halvae, H. Nami, E. Omrani, ... The effects of testing time and temperature of low vacuum diffusion welding on microstructure and mechanical properties of SiCp/A356 Al MMC	O1202: S. A. Ebrahimian, M. Ahmadi An Investigation of Welded AISI 4130 Steel Behavior During Tensile Deformation Using Acoustic Emission Technique
12:50-13:10	O1105: A. Sufizade, A. A. Akbarimusavi Microstructural investigation for Nd:YAG pulsed welding of 321 stabilized stainless steel	O1203: A. Abyazi, A. Ebrahimi Characterization of inclusions causing lamellar tearing in S355N
13:10-13:30	EXHIBITION, TECHSHOW AND POSTER VISITING	Keynote Speech
13:30-15:00	LUNCH	

TECHNICAL SESSIONS

DAY 1: 30th NOV., 2009 (MONDAY)

POSTER PRESENTATION

TIME: 11:00-14:00

FEYZ LOBBY Advanced Welding Processes	
P1101	A. Sufizade, A. A. Akbarimusavi Investigations On The Effects Of Process Parameters For Nd:YAG Pulsed Laser Welding Of Cu-6%Mn-6%Ni Alloy
P1102	K. Reshad Seighalani, M. K. Besharati Geivi, P. Bahemma Comparative Study On Electron Beam Welding And Laser Beam Welding of Pure Titanium
P1103	H. Sabetghadam, A. Araee, E. Omrani, ... The Effect Of Bonding Temperature On Properties Of 410SS/Cu Diffusion-Bonded Joint
P1104	A. Noroozi, M. Hamed Investigating the effect of preheating on joint size and energy consumption in ultrasonic welding process using Taguchi Robust Design
FEYZ LOBBY Health Monitoring	
P1106	M. Sohrabinia, Kh. Khalili Assessment And Control Of Welding Defects And Dimensions By Machine Vision
P1107	G. R. Shirazi, F. Malek Ghaeni, H. Sabetghadam, ... Weld Defects Assessment Basis On Workmanship And Fitness-For-Propose

TECHNICAL SESSIONS

DAY 1: 30th NOV., 2009 (MONDAY)

ORAL PRESENTATION

TIME: 15:00-17:30

	ATTAR HALL Residual Stress and Welding Simulation	FEYZ HALL Process Development
15:00-15:20	O1301: A. Ebrahimi, A. Abyazi Calculation of the critical stress responsible for lamellar tearing in microalloyed S355N steel	O1401: H. Khorrami, H.Omidvar, A. A. Saghafi Investigation of current, pressure and time effect on mechanical properties of Aluminum alloy 2024 welding bead through designing of test by Taguchi method
15:20-15:40	O1302: M. J. Attarha, I. Sattari Far Effects of Conductivity and Expansion Coefficient Variations on the Distribution and Magnitude of Residual Stresses in Welded Plates	O1402: A. Sadeghi, M.H. Hasannia, A. H. Kokabi, ... Spot welding parameters optimization for economic design and improving mechanical properties
15:40-16:00	O1303: Sh. Daneshpour, M. Kocak, A.H. Kokabi A comparison of laser and resistance spot welding of steel sheets; fatigue lives and residual stresses	O1403: R. Beygi, M. Kazeminejad The behavior of cold welded Al-steel layers through tearing by wedge
16:00-16:20	O1304: M. Sohrabinia, S. Y. Ahmadi, S. H. Hashemi Reduction of Welding Distortion and Residual Stresses During Plastic Deformation of Stainless Steel Pipe Under Mechanical Clamping	O1404: Sh. Sarrafan, F. Malek Ghaeni, E. Rahimi Weld Metal Hydrogen Cracking in Transmission Pipelines Construction
16:20-16:30	BREAK TIME	
16:30-16:50	O1305: M. Seyyedian, M. Haghpanahi, M. Sedighi Investigating the Effect of Welding Sequence on Angular Distortions in Butt Welded Plates	O1405: M. Ebrahimnia, F. Malek Ghaini, Sh. Gholizade, ... Avoidance of disbonding in repair of large cast iron forming dies with powder welding
16:50-17:10	O1306: Z. Mikno, M. Lomozik, A. Pilarczyk, M. Zeman Impact of geometrical features of thermocouple on absolute value of temperature of structural transformations in steel in welding conditions	O1406: Gh. Azimi, I. Reisi, M. Shamanian Microstructure and Wear Properties of Ni-Al Clad on Carbon Steel by TIG Surfacing Process
17:10-17:30	O1307: E. Ranjbarnodeh, A. H. Kokabi, S. Serajzadeh, ... Evaluation of the effect of welding parameters on the residual stresses in dissimilar welding of high strength steels	O1407: A. Nekahi, K. Dehghani Effect of alloying elements of Ti and Nb on the fatigue response of thermite welding
17:30-18:00	COFFEE TIME	

TECHNICAL SESSIONS

DAY 1: 30th NOV., 2009 (MONDAY)

POSTER PRESENTATION

TIME: 11:00-14:00

FEYZ LOBBY	
Residual Stress and Welding Simulation	
P1201	M. Hamidnia, A. Mostafapur Prediction of Mechanical Properties of Pulsed- Spot Welded Parts with Artificial Neural Network
P1202	M. Seyyedian Choobi, Sh. Amini, M. Haghpanahi Effect of Temperature-Dependent Material Properties on Transient Temperatures in Arc Welding of SUS 304
P1203	A. Kohandehghan, S. Serajzadeh, A. H. Kokabi Effects of heat flux models on temperature distribution and fluid flow during Gas Tungsten Arc Welding
P1204	I. Akbarzadeh, I. Sattari Far A Study on the Effect of Convection Modeling On the Distribution and Magnitude of Welding Temperature Fields and Residual Stresses
P1205	A. Fathololumi, A. Fallahi Simulation of Crack Growth Behavior in Residual Stress Field of Welding
FEYZ LOBBY	
Process Development	
P1206	N. S. Mohajerani, M. Goodarzi In situ formation of Fe-TiC composite layer on steel through GTA hardfacing of Ti bearing paste
P1207	T. Teker, T. Kursun The Effect Of The Synergic Controlled Pulsed (GMAW-P) And Manual MIG-MAG Welding Techniques On Mechanical Properties In Joining Of AISI 430/AISI 1030 Steel Couples
P1208	A. A. Akbarimusavi, A. Ghrahi Furnace Brazing type 304 and A351CF-3M Stainless Steels Using Pure Copper Filler Metal
P1209	M. Shafiei, A. R. Soltanipour, M. Tamizi Far Influence of frequency changes in the welding with automatic pulse TIG process with unbalanced wave on the "5083" marine alloy aluminum
P1210	A. Halvae, R. Pahlevan, H. Moghareh Effect of Resistance Upset Welding Parameters on Metallurgical Structure, Electrical Resistivity and Strength of Heating Element 80Ni-20Cr
P1211	A. R. Doodman Tipi, M. Kalantar Hormozi, F. Sahraei Adjusting of oscillation amplitude in automatic pipeline GMAW system
P1212	H. Ghazvinloo, A. Honarbakhsh, N. Shadfar A study on effect of process variables on fatigue and impact behavior and bead penetration of robotic MIG welded AA6061 aluminum alloy joints

TECHNICAL SESSIONS

DAY 2: 1st DEC., 2009 (TUESDAY)

ORAL PRESENTATION

TIME: 9:30-11:30

	ATTAR HALL Friction Stir Welding and Processing	FEYZ HALL Micro-Structure and Mechanical Properties Investigation
9:30-9:50	O2101: M. Saeidi, N. Bani Mostafa Arab, F. Ashenai Ghasemi The effect of pin geometry on mechanical properties of pp composite friction stir welds	O2201: B. Beidokhti, A. Dolati, A. H. Kokabi Investigation on the SSC resistance of the API 5L-X70 weld metals with different amounts of acicular ferrite
9:50-10:10	O2102: P. Bahemmat, M. K. Besharati Givi, K. Reshad The influence of welding speed on microhardness and microstructure in dissimilar friction stir welded of AA6061-T6 and AA7071-T6	O2202: F. Fraidooni, A. Halvae, N. Pourkia Influence of welding wire chemical composition on microstructure and mechanical properties in submerged arc welded API X70 steel
10:10-10:30	O2103: M. Rezaee Ardani, M. Hadad Sabzevar Study on possibility of friction stir welding of dissimilar and non uni-thickness materials (aluminum alloy to copper)	O2203: S. Farhangdust, A. H. Kokabi, A. A. Ekrami, ... Microstructure and Failure Behavior of Resistance Spot-Welded of Dissimilar Steel Sheets (HSLA and ST12)
10:30-10:50	O2104: M. Shohani, R. Bagheri, A.H. Kokabi Incorporation of friction stir processing into surface modification of polymeric materials	O2204: J. Ostadi Ghaziani, K. Zanganeh, A. Yazdipour Effect of Post Weld Heat Treatment On The Substructure and Mechanical Properties of Ultra Strength Low Alloy Steel CrMnSiNi
10:50-11:30	COFFEE BREAK	

TECHNICAL SESSIONS

DAY 2: 1st DEC., 2009 (TUESDAY)

ORAL PRESENTATION

TIME: 11:30-13:30

11:30-11:50	O2105: A. R. Yazdipour, H. Abaszadeh, A. M. Nasiri Microstructural and Mechanical Investigation of Friction Stir Welded Al5083-H321	O2205: M. Pournavari, S. M. Mousavizadeh, ... Effect of Failure Mode on the Mechanical Properties of Dissimilar Resistance Spot Welds between DP600 and St14 Steels
11:50-12:10	O2106: A. Sadeghi, A. M. Nasiri, A. H. Kokabi, ... Effect of Welding Parameters on Microstructure and Mechanical Properties in Dissimilar Friction Stir Welding between Magnesium and Aluminum Alloys	O2206: H. Sabet, M. M. Hosseinioun The Effect of Nickel on Mechanical and Microstructural Properties of TIG Al5058 Welds
12:10-12:30	O2107: J. Teimournezhad, A. Masoumi On the formation of onion-ring structure in friction stir butt welds of copper plates produced by non-threaded tool pin	O2207: A. Ghazi Daryani, A.h. Kokabi, A. Nemati Interfacial Microstructure and Properties of SiC / SiC Joint brazed with Ag-Cu-Ti Alloys
12:30-12:50	O2108: A. Alimoradi, M. Loh-Mousavi, R. Salekrostam 3-D Finite Element Simulation of Friction Stir Welding Process of Aluminums Sheets	O2208: H. Kamali, M. Akhlaghi, M. Ahmadifard Influence of welding temperature and pressure on the mechanical properties of welding zone of polyethylene pipes welded via Butt Fusion method
12:50-13:10	O2109: H. Nazari, M. Riahi Numerical Simulation of Transient Temperature and Residual Thermal Stresses in Friction Stir Welding of Aluminum Alloy 6061-T6	O2209: H. R. Zareie, M. Shamanian Effects of pulsed GTA Welding on Microstructure and Mechanical Properties of AISI 316 Stainless Steel Welds
13:10-13:30	O2110: S. Kolahgar, A. Akbarzadeh, A. H. Kokabi Influence of Friction Stir Welding Parameters on Mechanical Properties of Aluminum Tailor Welded Blanks with Different Thickness Ratios	O2210: S. Moeinifar, A. H. Kokabi, H. R. Madaah Hosseini Effects of Thermal Cycles and Peak Temperature on Microstructure and Toughness Properties of Reheated Heat Affected Zone
13:30-15:00	LUNCH	

TECHNICAL SESSIONS

DAY 2: 1st DEC., 2009 (TUESDAY)

POSTER PRESENTATION

TIME: 9:30-13:30

FEYZ LOBBY

Friction Stir Welding and Processing

P2101	A. R. Yazdipour, H. Abbaszadeh, A. Shafiei M. Investigation the Microstructures and Properties of Metal Inert Gas and Friction Stir Welds in Aluminum Alloy 5083
P2102	S. M. Mirian, S. Abbasi Dehnovi, R. Farzaneh, ... A New Method of Friction Welding And Estimation Of It's Residual Stress
P2103	R. Salekrostam, M. K. Besharati, P. Bahemmat, ... SiC/Cu Surface Composites Fabricated by Friction Stir Processing (FSP)
P2104	R. Abdi, M. K. Besharati, R. Salekrostam Producing of composite layer of SiC/Al5083 via Friction Stir Processing
P2105	M. A. Safarkhanian, M. Goodarzi, S. M. A. Boutorabi The break-up of particles during friction stir welding in 2024-T8 aluminum alloy
P2106	P. Asadi, R. Mahdavi, M. K. Besharati Givi Obtaining the Temperature Variations Curve in Friction Stir Processing of AZ91 Magnesium Alloy
P2107	P. Asadi, M. K. Besharati Givi, K. Abrinia The Effect of Process Parameters on the Surface Quality of Friction Stir Processed AZ91 Magnesium Alloy
P2108	R. Abdi, M. K. Besharati, Y. Imani Influence of tool pin profile on the formation of friction stir welding of AA7075 and AA5083

FEYZ LOBBY

Micro-Structure and Mechanical Properties Investigation

P2109	M. Golyani, M. H. Moayed, A. Davoodi Multi-pass hybrid GTAW-SMAW operation on 2205 duplex stainless steel; Microstructure characterization and micro-hardness measurement
P2110	A. Mohassel, A.H. Kokabi, P. Davami Performance of Aluminothermally welded Wide-Gap Rails
P2111	M. Sharifitabar, A. Halvae Resistance upset butt welding of 304 austenitic stainless steel
P2112	A. Roshanghias, A. H. Kokabi, M. Barzegari, H. R. Madaah Hosseini Welding characteristics of ultrahigh strength steel in annealed and quench-tempered conditions
P2113	H. Farahani, A.R. Ebrahimi Effect of lamellar tearing on welded S355N steel plate's fatigue properties