

Abstracts from International Authors

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W001	Rongjie SONG, Dirk PONGE, RAABE, Dierk	The formation of ultrafine grained microstructure by large strain warm deformation and annealing in a C–Mn steel	Max-Planck-Institut für Eisenforschung, Germany
W002	Rongjie SONG, Dirk PONGE, RAABE, Dierk	Mechanical properties of an ultrafine grained plain C–Mn steel	Max-Planck-Institut für Eisenforschung, Germany
W003	S. Aleksandrov ¹ , K. Hulka ¹ , Yu. Morozov ² , I. Pemov ² , A. Stepashin ³	The Application Of Microalloyed Hsla Steel In The Russian Construction Industry	¹ Niobium Products Company GmbH (Germany) ² I.P.Bardin Research Institute (Russia) ³ UralSteel – OkhMK (Russia)
W004	S. Aleksandrov ¹ , K. Hulka ¹ , A. Stepashin ² , E. Yakushev ² , Yu. Morozov ³ , S. Nastich ³	High Strength Steel for the Truck Industry and Mining Equipment Operating under Arctic Environment	¹ Niobium Products Company GmbH (Germany) ² UralSteel – OkhMK (Russia) ³ I.P.Bardin Research Institute (Russia)
W005	N.A. Narkevich ¹ , N.K. Galchenko ¹ , E.A. Ivanova ² , Yu.P. Mironov ¹ and S.I. Belyuk ¹	Hardening of Low-Carbon Steel by Electron-Beam Surfacing of Nitrogen and Carbon Coatings with the Austenitic Matrix	1. INSTITUTE OF STRENGTH PHYSICS AND MATERIALS SCIENCE SB RAS, RUSSIA 2. Tomsk Polytechnic University, Russia
W006	G. Azevedo ¹ , R. Barbosa ¹ , E.V. Pereloma ² and D.B. Santos ¹	CORRELATION BETWEEN Mechanical Properties, Microstructure And Processing Parameters In ULTRAFINE GRAINED C-Mn And Nb-Ti Steels	¹ Department of Metallurgical and Materials Engineering, Federal University of Minas Gerais- Brazil ² School of Physics and Materials Engineering, Monash University, Australia
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W009	Masana IMAGUMBAI	Microalloy Design and Weld Joint Properties of ERW Linepipe via TSC	CBMM ASIA Co., Ltd., Japan
W010	E. Ratte, V. Uthaisangsuk, M. Blumbach, W. Bleck	Reliable input data for FEM of advanced HSLA sheet steels	Department of Ferrous Metallurgy (IEHK), RWTH Aachen University, Germany
W011	S. Shanmugam, ¹ Devesh K. Misra ¹ , Jack Hartmann ² , and Steven G. Jansto ³	Development of Ultrahigh Strength (100-120ksi) Niobium Containing HSLA Steels for Pipeline Applications	¹ Center for Structural and Functional Materials, Department of Chemical Engineering, University of Louisiana at Lafayette, USA ² International Steel Group, Indiana Harbor Works, USA ³ Reference Metals Company, USA

W012	H. Nathani, ¹ Devesh K. Misra ¹ , Jack Hartmann ² , and Steven G. Jansto ³	Some Physical Metallurgy Aspects of High Strength Hot Rolled Nb-Ti Microalloyed Steels with Superior Fracture Resistance and Formability	¹ Center for Structural and Functional Materials, Department of Chemical Engineering, University of Louisiana at Lafayette, USA ² International Steel Group, Indiana Harbor Works, USA ³ Reference Metals Company, USA
W013	Christian LESCH ^{1,a} , Pedro ÁLVAREZ ^{2,b} , Wolfgang BLECK ^{1,c} , Javier GIL SEVILLANO ^{2,d}	Grain refinement of cold rolled low carbon steels by rapid transformation annealing	¹ Department of Ferrous Metallurgy (IEHK), RWTH Aachen University, Germany ² CEIT and TECNUN (Universidad de Navarra).
W014	Pascoal Bordignon Klaus Hulka	An Alloy Design Concept for Better Matching of Strength and Toughness in Line Pipe Steels – its Development and Application (invited paper)	Companhia Brasileira de Metalurgia e Mineração – CBMM Niobium Products Company GmbH – NPC, Germany
W015	Y. Morozov ¹ , V. Kornilov ² , S. Nastich ¹ , O. Nikolaev ² , S. Denisov ² , E. Kudrjakov ²	Development Of Hot Rolled Strip Steels With Improved Weldability For Api X60-X70 Grade Pipes	¹ I.P. Bardin Research Institute (Russia) ² "MMK" - Magnitogorsky Metallurgical Combine (Russia)
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W017	Christian Klinkenberg	Niobium in Microalloyed Structural & Engineering Steel	Niobium Products Company GmbH, 40210 Düsseldorf, Germany
W018	HK Chikwanda ¹ , LC Kgomari ¹ and PJ Mcgrath ²	Microscopy, hardness and fatigue properties of a laser formed HSLA steel	¹ Department of Chemical and Metallurgical Engineering ² Department of Mechanical Engineering Tshwane University of Technology, Pretoria, South Africa
W019	A. J. DeArdo ⁺ , C. I. Garcia ⁺ , K. Cho ⁺ , M. Hua ⁺ and R. Maraccini ⁺⁺	Thin Slab Casting of Niobium-Bearing High Performance Steels (invited paper)	+ Basic Metals Processing Research Institute, Materials Science and Engineering, University of Pittsburgh, USA ++ NUCOR Steel, USA
W020	Kazuto Kawakami, Yuki Takayama* and Yasuhiro Akahoshi*	Molecular dynamics simulation of dislocation pinning by Cu precipitate in bcc-Fe	Advanced Technology Research Laboratories, Nippon Steel Corporation, Japan *Department of Mechanical & Control Engineering, Kyushu Institute of Technology, Japan
W021	Tadanobu Inoue ¹ , Jae-Young Cho ^{1*2} , Fuxing Yin ¹ and Kotobu Nagai ¹	Effect of Shear Deformation on Microstructural Evolution of Ni-30Fe Alloy during Hot Deformation	1 Steel Research Center, National Institute for Materials Science, Japan 2 Technical Research Laboratories, POSCO, Korea

W022	J. S. Kang, *D. H. Seo, *K. B. Kang and C. G. Park	Effects of Deformation and Isothermal Holding Temperature on the Formation of lower bainite Microstructure in B-added Low Carbon HSLA Steels	Dept. of Materials Science and Engineering, Pohang Univ. of Science and Technology, South Korea *Technical Research Laboratories, POSCO, South Korea
W023	Golovanov A.V., * Iljinsky V.I.,* Popova T.N., * Kljukvin M.B.,* Efron L.I., ** Matrosov M. Y. **	Development of steels with increased strength and cold resistance for large-diameter electric-welded pipes at Severstal steel works	*Severstal steel works, Cherepovets, Russia ** I.P.Bardin institute, Moscow, Russia
W024	Nina FONSTEIN	Effect of Al, C, and Mn on Structure and Mechanical Properties of Dual-Phase and TRIP steels	Mittal Steel, USA R&D Center, Indiana, USA
W025	J.W. Morris, Jr. ¹ , Maio Jin ¹ and Andrew Minor ²	Deformation Mechanisms in Nanoindentation of Ultrafine- and Nanograined Metals (invited paper)	¹ Dept. of Materials Science, University of California, USA ² National Center for Electron Microscopy, Lawrence Berkeley National Laboratory, USA
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W027	John G. Speer ¹ , Steve Jansto ² , Matthew S. Walp ³ , Justin Cross ¹ , David M. Matlock ¹	Elevated Temperature Properties of Niobium-Microalloyed Steels for Fire-Resistant Structural Applications	¹ Advanced Steel Processing and Products Research Center, Colorado School of Mines, USA ² Reference Metals Company, Inc., USA ³ Matthew Walp, DaimlerChrysler Corporation, Sheet Metal and Materials Engineering, USA
W028	Debanshu Bhattacharya	Developments in Advanced High Strength Steels in the United States (invited paper)	Mittal Steel, R & D Laboratories, U.S.A.
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W030	Fulvio Siciliano ¹ , Luis A. Leduc Lezama ² , Christian Klinkenberg ³ , Karl-Ernst Hensger ⁴	Processing of Nb-microalloyed HSLA steels in CSP facilities	¹ Companhia Brasileira de Metalurgia e Mineração- Brazil ² Hylsa, Ave. Los Angeles Ote., San Nicolas, N.L. C.P. 66452 Mexico, ³ Niobium Products Company GmbH, Germany ⁴ Paul-Wäge-Str. 22, D - 04435 Schkeuditz, Germany
W031	*Janusz Majta, Monika Stefanska-Kadziela, Adam Bator	Modeling of strain rate effects on microstructure evolution and mechanical properties of HSLA and IF-Ti steels	* AGH University of Science and Technology, Mickiewicza 30, Poland

W032	D.L. Johannsen, P.J. Ferreira ¹⁾ A. Kyrolainen ²⁾	Martensite Reformation in Nano/Submicron Grained Austenitic Stainless Steels	1) Materials Science and Engineering Program, University of Texas at Austin, USA 2) Tornio Research Center, Outokumpu Stainless Oy, Finland
W033	R.E. Lino and R. Barbosa	MODELING STRESS-STRAIN CURVES OF A Ti-Nb IF STEEL	Department of Metallurgical and Materials Engineering, Federal University of Minas Gerais- UFMG - MG - Brazil
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W042	B. L. Li, N. Tsuji, M. Sugiyama*, Y.	Development of Ultrafine Grained Structure in High Purity Iron Deformed	Department of Adaptive Machine Systems, Osaka University, Japan

	Minamino	by ARB process	*Advanced Technology Research Laboratories, Nippon Steel Co., Japan
W043	Y.Z.Bao, Y.Adachi, J.H.Lee, P.G.Xu, T.Suzuki and Y.Tomota	Grain refinement by continuous dynamic recrystallization for martensite steels	Institute of Applied Beam Science, Graduate School of Science and Engineering, Ibaraki University, Japan
W044	Setsuo Takaki	Mechanical Properties of Ultra Fine Grained Iron and Steel (invited paper)	Department of Materials Science and Engineering, Kyushu University, Japan
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W047	Ali R. Shokouhi, Peter D. Hodgson	Ferrite refinement through strain induced transformation	School of Engineering and Technology, Deakin University, Australia
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W050	Jozef Zrník ^{1,2*} , Jaroslav Drnek ¹ , Zbyšek Nový ¹ , Sergey Dobatkin ³ , Ondrej Stejskal ⁴	Deformation behaviour of carbon steel subjected to warm severe plastic deformation	¹ Comtes FHT Ltd., Pilsen, Czech Republic ² Technical University of Košice, Slovak Republic ³ Moscow State Steel and Alloys Institute, Russia ⁴ West Bohemian University, Pilsen, Czech Republic
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W052	S.Y. Shin ^{a*} , S. Lee ^a , N.J. Kim ^a , Y.W. Chang ^a , and D.H. Shin ^b	Analysis of Fracture Toughness in Transition Temperature Region of an API X70 Linepipe Steel	^a Pohang University of Science and Technology, Korea ^b Hanyang University, Korea
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	Nagai		Ibaraki University , Japan (Y.Tomota) National Institute for Materials Science, Japan (K.Nagai)
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W056	I.Yu. Pyshmintsev, D.A. Pumpyansky, L.G. Marchenko, V.I. Stolyarov	Strength and Bauschinger Effect in TMCP Line Pipe Steels	Russian Research Institute for Tube and Pipe Industry, Chelyabinsk Pipe Metallurgical Company, Moscow
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	Kantor ² , J.I. Marchenko ¹ , I.I. Lube ³		Baikov of the Russian Academy of Science ³ Volzhsky pipe producing plant, Russia.
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W077	Bill Fazackerley ¹ Paul Manuel ²	First X-80 HSLA Pipeline in the USA	1 EWIMicroalloying International, LP, Houston, USA 2 Crantek Quality Services Inc.,

			Calgary, Canada
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W086	Das K. P., Chattopadhyay P. P. ¹ , Datta S., Tarafder S. ² & Bandyopadhyay N. R.	Study on the Mechanical Behaviour of Low Carbon TRIP Aided Steel	1. Department of Metallurgy & Materials Engineering, Bengal Engineering And Science University, Shibpur, India 2. National Metallurgical Laboratory, Jamshedpur, India
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