

STRUCTURAL APPLICATIONS

STRUCTURAL STEEL

Keynote: Light-weight design chances using high-strength steels

C.M. Sonsino

Structural applications of stainless steel

G. Abbruzzese, M. Barteri

Production and properties of high-strength nickel-alloy steel plates for low temperature applications

K. Hickmann, A. Kern, U. Schriever, J. Stumpfe

Consumables for welding of (very) high strength steels - mechanical properties of weldments in as-welded and stress-relieved applications

E. Bauné, C. Chovet, B. Leduey, C. Bonnet, S. Starck, A. Bertoni

OCTG & DIVERSIFIED

Development of high strength quenched and tempered seamless pipes

A. Di Schino, E. Anelli, G. Cumino, M. Tivelli, A. Izquierdo

The design of X80 to X120 steels with increased carbonic acid corrosion resistance

D.V. Edmonds, R.C. Cochrane, R.M. Grau, J.P. Gonzalez, B. Kermani

Design criteria vs line pipe requirements for offshore pipelines

E. Torselletti, L. Vitali, R. Bruschi

PIPELINE

Keynote: The TAP Project

F. Marchesani, E. Donati, C.M. Spinelli, G. Mannucci, G. Demofonti, M. Cabrini, T. Pastore

Development, production and application of heavy plates in grades up to X120

F. Grimpe, S. Meimeth, C.J. Heckmann, A. Liessem, A. Gehrke

Effect of simulated thermomechanical processing on the transformation characteristics and microstructure of an API X80 pipeline steel

P. Cizek, B.P. Wynne, P.D. Hodgson, B.C. Muddle

Technological solutions for ultra-high strength gas pipelines

H.G. Hillenbrand, C. Kalwa, A. Liessem

Fracture resistance against internal pressure on high strength over X80 line pipe

N. Takahashi, A. Yamamoto, M. Miura, H. Makino, M. Hamada, I. Takeuchi

Strain based design for land high grade pipelines in harsh environments

L. Vitali, E. Torselletti, F. Marchesani, R. Bruschi

Development of high strength linepipes with excellent deformability

M. Okatsu, N. Ishikawa, S. Endo, N. Suzuki

X100 - Fracture initiation and propagation

G. Mannucci, G. Demofonti, M. Di Biagio

X100 - Girth welding, joint properties and defect tolerance

M. Hudson, L. Di Vito, G. Demofonti, R. Aristotile, B. Andrews, S. Slater

Development of API X-80 grade electric resistance welding line pipe with excellent low temperature toughness

H. Nakata, C. Kami, O. Shiotani, M. Matsushita, S. Kawamura

Development of new in-mill mechanical testing towards X100 assessment for gas pipe

G. Perrin, M. Martinez, P. Odru, T.T. Luu, A. Pineau, B. Tanguy, J. Besson

CONSTRUCTION

Keynote: HS steels in tension structures

M. Majowiecki

Keynote: High strength steels for launching bridges structures

E. Maiorana, A. Miazon

The development of ultrahigh strength wire

S. Hobson, J. Wilkinson, C. O'Connor, S. Sefton

High-strength steels in welded state for light-weight constructions under high and variable stress peaks

H. Kaufmann, C.M. Sonsino, G. Demofonti, S. Riscifuli

Eurocode for high strength steel and applications in construction

B. Johansson, P. Collin

Recent developments in the use of quenched and self-tempered hot rolled h-beams

L. Weber, L-G. Cajot

Properties of high strength steel S890 in dry and aqueous environments

N. Enzinger, H. Cerjak, Th. Böllinghaus, Th. Dorsch, K. Saarinen, E. Roos