

## Curriculum Vitae



### POSCH, Gerhard, Dr. DI

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### Education and Employment

From (year)	to (year)	
1985	1992	University of Leoben (Material Science), Austria; diploma thesis
1993	1997	Technical University of Graz (Mechanical Engineering), Austria; PhD
1997	1999	PEWAG Austria GmbH, Graz, Austria; Product Manager and Head of Development
1999	2011	Böhler Schweißtechnik Austria GmbH; General Manager Applied Research
2006	2008	BTF S.p.a., Cittadella/Italy; Managing Director
2002		University Leoben; Lecturer
2005		University of Applied Sciences Wels; Lecturer
2010		University Graz; Lecturer
2011		Fronius Int. GmbH; Segment Management Power Generation

### Research (main areas)

High alloyed flux-cored wires for special GMAW-application (creep resistance, corrosion, high strength, low temperature application)

Laser hybrid welding process applied to high alloyed/nickel base materials

Cored wires for GMAW-joining/cladding of aluminum

Optimization of production of cored wires

Welding of High Strength Steels

### Projects (scientific)

“Development of Aluminum cored wires”

“Development of creep resistant FCW for use in future power generation plants” (COST 536)

“Laserhybrid welding with high alloyed/nickel-base FCW”

“Welding of High Strength Steels” (voestalpine Research Project)

“Laserssealed Flux cored wires”

“Safety and reliability of pipelines and penstocks”

### Honours and Awards

2005: Franz Leitner prize of the Austrian Society for Metallurgy and Materials

2003-2012: Chairman of IIW SC II-C

Since 2010: President of ÖGS (Österreichische Gesellschaft für Schweißtechnik)

Since 2012: Chairman IIW SC II

## Patents and List of Publications

Patents
AT 406 136 B: G. Posch: „Verstellanordnung für einen Knotenpunkt von Kettensträngen“
EP 0878 331 A2 (98890136.9-2306) G. Posch, H. Kronsteiner: „Verstellanordnung für den Knotenpunkt von (Gleitschutz-) Kettensträngen“
AT 500 494 A1: G. Posch, S. Baumgartner, H. Ziegerhofer, W. Klagges, H. Felberbauer: „Zusatzwerkstoff für Fügeverbindungen und Verfahren zu dessen Herstellung“
EP 1 748 865 B1: G. Posch, S. Baumgartner, H. Ziegerhofer, W. Klagges, H. Felberbauer: „Filler for joint and method for production thereof“
AT507914 B1: G. Posch, M. Fiedler, W. Berger, G. Moitzi, F. Rotter „Fülldrahtelektrode“
PCT WO 2010/102318A1: G. Posch, M. Fiedler, W. Berger, G. Moitzi, F. Rotter “Cored Wire Electrode“

Welding-related Publications since 2005
G. Posch, J. Tösch: “Corrosion Behavior of High Alloyed Stainless Steel Weld Metals, Joints and Overlays in Standardized Corrosion Tests with some Examples”; Welding in the World, Vol. 49, No. 9/10-2005; p58-67
G. Posch, M. Fiedler, W. Berger, H. Königshofer, J. Fischer: „Investigation of HAC-susceptibility of multi-layer welds with the “Bead Bend Test” - Procedure and examples”; Welding in the World, Vol. 50; No. 9/10-2006; p75-81
G. Posch, J. Tösch, M. Höfer, K. H. Gugimeier, P. A. Legait: „Soudage de tubes en acier austenitique pour application cryogenique“; Soudage et Techniques Connexes ; Janvier-Fevrier 2007
G. Posch, W. Klagges, R. Vallant, H. Cerjak: „Influence of niobium on mechanical properties and hot cracking susceptiblity of nickel-base cored-wire weld metal types 70/20 and 70/15“; TIC Bulletin No. 130 - June 2007, ISSN 1019-2026
G. Posch, M. Panzenböck, J. Tösch, S. Pözl: „Gefügeausbildung in der ersten Lage von austenitischen Plattierungen auf un- und niedrig legierten Stählen - Microstructure of the First Seam of Austenitic Overlays on Un- and Low Alloyed Steels“; Prakt. Metallogr. 45 (2008) 7
G. Posch, S. Baumgartner, M. Fiedler: „GMAW of creep resistant steels with flux cored wires – perspectives and limitations“; African Fusion, November 2009
S. Schultze, K. Schilling, J. Göllner, G. Posch: “Procedures for Corrosion Testing and Corrosion Failure Analysis”; MP Materials Testing 52 (2010) 9
S. Lorenz, T. Kannengießner, H. Herold, G. Posch: „Suitability of high alloyed wire electrodes for the positional laser-GMA-hybrid welding“; Int. J. Microstructure and Materials Properties, Vol. 5, Nos. 2/3, 201
C. Sommitsch, G. Posch, T. Weinberger, G. Figner: “Neue Fügetechnologien mit höherer Prozesssicherheit“; BHM (2010) Vol. 155(5)
S. Baumgartner, G. Posch, P. Mayr: “Welding advanced martensitic creep-resistant steels with boron containing filler metal”; Welding in the World, 2012, vol. 56, no. 7/8
M. Stoschka, M. Leitner, T. Fössl, G. Posch: “Effect of high-strength filler metals on fatigue”; Welding in the World, 2012, vol. 56, no. 3/4
W. Vanovsek, C. Bernhard, M. Fiedler, G. Posch: “Influence of aluminum on the characterization of microstructure and inclusions in high-strength steel welds”; Weld World DOI 10.1007/s40194-012-0008-0
T. Schlagradl, R. Schneider, G. Posch, R. Schnitzer: „Investigation of the hardness-toughness relationship of a welded joint after different heat treatment cycles“;Weld World DOI 10.1007/s40194-012-0012-4