PUBLICATIONS AND TALKS (AS OF 15/03/2011)

REFEREED JOURNAL PAPERS

In press:

1) C. Leinenbach, F. Valenza, D. Giuranno, H.R. Elsener, S. Jin, R. Novakovic
Wetting and soldering behaviour of eutectic Au-Ge alloy on Cu and Ni substrates
Journal of Electronic Materials, accepted, in press

2) L. Duarte, C. Leinenbach, J. Wang, Yu. Plevachuk, V. Sklyarchuk, U.E. Klotz, J.F. Löffler
Comparison of the liquidus temperatures in Ti-rich alloys of the Fe–Ni–Ti system obtained by DTA, electrical conductivity and XRD measurements.
International Journal of Materials Research, accepted, in press

2011:

3) J. Wang, C. Leinenbach, L.B. Liu, H.S. Liu, Z.P. Jin
Assessment of the atomic mobilities in fcc Cu-Fe and Cu-Ti alloys
Journal of Phase Equilibria and Diffusion 21 (2011) 30-38

4) J. Wang, C. Liu, C. Leinenbach, U.E. Klotz, P.J. Uggowitzer, J.F. Löffler
Experimental investigation and thermodynamic assessment of the Cu–Sn–Ti ternary system
CALPHAD 35(1) (2011) 82-94

2010:

5) C. Leinenbach, A. Al-Badri, M. Roth
Interface microstructure of Stellite-6 coatings on a 12%Cr steel after long term thermal exposure
Materialwissenschaft und Werkstofftechnik 41(10) (2010) 861-868

6) J. Wang, S. Jin, C. Leinenbach, A. Jacot
Thermodynamic assessment of the Cu-Ge system
Journal of Alloys and Compounds 504 (2010) 159-165

7) S. Buhl, C. Leinenbach, K. Wegener, R. Spolenak
Influence of the brazing parameters on microstructure, residual stresses and shear strength of diamond-metal joints
Journal of Materials Science 45 (2010) 4358-4368

8) H.J. Schindler, C. Leinenbach
Fatigue Assessment of Brazed T-Joints Based on Damage Tolerance Including Residual Stress Effects
Journal of ASTM International (JAI) 7(3) (2010) 102515

9) J. Wang, C. Leinenbach, M. Roth and Z.P. Jin
Diffusion and atomic mobilities in fcc Ni-Sn alloys
Journal of Phase Equilibria and Diffusion 31 (2010) 28-33

10) C. Leinenbach, H.J. Schindler, T. Baser, N. Rüttimann, K. Wegener
Fracture behaviour and defect assessment of brazed martensitic stainless steel joints
Engineering Failure Analysis 17 (2010) 672-682

11) L. Duarte, U.E. Klotz, C. Leinenbach, M. Palm, F. Stein, J.F. Löffler
Experimental study of the Fe-Ni-Ti system
Intermetallics 18(3) (2010) 374-384

12) T.A. Baser, C. Leinenbach, H.J. Schindler
Fracture Behaviour of Brazed Soft Martensitic Stainless Steel Joints under Cyclic Loading
Materials Science Forum, 636-637 (2010) 1490-1495

2009:

13) J. Wang, C. Leinenbach, H.S. Liu, L.B. Liu, M. Roth and Z.P. Jin
Diffusion mobilities in the face-centered cubic Cu-Sn alloys
CALPHAD, 33 (2009), 704-710

14) J. Wang, C. Leinenbach, M. Roth
Thermodynamic assessment of the Au-Ge-Sb system
Journal of Alloys and Compounds, 485 (2009) 577-582

15) C. Leinenbach, D. Eifler
Influence of oxidation treatment on fatigue and fatigue induced surface damage of commercially pure (cp) titanium
Acta Biomaterialia, 5 (2009) 2810-2819

16) J. Wang, C. Leinenbach, M. Roth
Thermodynamic modeling of the Au-Ge-Sn ternary system
Journal of Alloys and Compounds, 481 (2009) 830-836

17) S. Mudry, A. Korolyshyn, I. Shtablavyi, Y. Kulyk, U.E. Klotz, C. Leinenbach
The structure changes in $Sn_{1-x}Ti_x$ alloys at the transition from liquid to solid state
Physics and Chemistry of Liquids, 47(4) (2009), 437-446

18) Yu. Plevachuk, S. Mudry, V. Sklyarchuk, A. Yakimovich, A. Korolyshyn, I. Shtablavyy, Y. Kulyk, U.E. Klotz, C. Liu, C. Leinenbach
Determination of liquidus temperature in Sn-Ti-Zr alloys
International Journal of Materials Research, 100(5) (2009) 689-694

19) Z.Z. Dong, U.E. Klotz, C. Leinenbach, A. Bergamini, C. Czaderski, M. Motavalli
A novel Fe-Mn-Si shape memory alloy with improved shape recovery properties by VC precipitation
Advanced Engineering Materials, 11(1-2) (2009) 40-44

2007:

20) C. Leinenbach, N. Gelder, V. Bissig, F. Gattiker, U.E. Klotz
Shielding gas brazing of high strength stainless steel with Cu-free silver based filler metals
Science and Technology of Welding and Joining, 12(8) (2007) 708-717

21) C. Leinenbach, H. Lehmann, H.J. Schindler
Mechanisches Verhalten und Fehlerempfindlichkeit von Hartlötverbindungen
MP Materials Testing, 4 (2007), 149-156

2006:

22) C. Leinenbach, D. Eifler
Fatigue and cyclic deformation behaviour of surface modified titanium alloys in simulated physiological media
Biomaterials, 27 (2006) 1200-1208

23) D. Krause, B. Thomas, C. Leinenbach, D. Eifler, E.J. Minay, A.R. Boccaccini
The electrophoretic deposition of Bioglass$^{(R)}$ particles on stainless steel and Nitinol substrates
Surface and Coatings Technology, 200 (2006) 4835-4845

2005:

24) C. Leinenbach, D. Eifler
Thermisch und anodisch oxidierte Titanlegierungen - Wechselverformungsverhalten und ermüdungsbedingte Oberflächenschäden
MP Materials Testing, 10 (2005) 582-590

25) C. Leinenbach, B. Schwilling, D. Eifler
Cyclic deformation behaviour and fatigue induced surface damage of titanium alloys in simulated physiological media
Materials Science and Engineering C, 25 (2005) 321-329

2004 and before:

26) C. Leinenbach, D. Eifler
Characterization of the cyclic deformation behaviour and fatigue crack initiation on titanium in physiological media by electrochemical techniques
Zeitschrift für Metallkunde 95 (6) (2004) 535-541

27) C. Leinenbach, C. Fleck, D. Eifler
The Cyclic Deformation behaviour and fatigue induced surface damage of the implant alloy TiAl6Nb7 in simulated physiological media
International Journal of Fatigue 26 (2004) 857-864

28) C. Leinenbach, C. Fleck, D. Eifler
Wechselwirkung mechanisch induzierter Oberflächenschäden an TiAl6Nb7 mit quasi-physiologischen Medien
Biomaterialien 3 (2) (2002) 109

29) C. Leinenbach, C. Fleck, D. Eifler
Characterisation of mechanically induced surface damage on the implant alloy TiAl6Nb7 in quasi-physiological media
Materialwissenschaft und Werkstofftechnik 33 (8) (2002) 442-447

Submitted:

30) S. Buhl, C. Leinenbach, K. Wegener, R. Spolenak
Microstructure, residual stresses and shear strength of diamond-steel-joints brazed with a Cu-Sn-based active filler alloy
Materials Science & Engineering A, submitted

31) L.I. Duarte, C. Leinenbach, U.E. Klotz, K. Richter, J.F. Löffler
Phase equilibria in the Fe-Ni-Ti-Al system Part I: Critical data evaluation of the Fe-Ni-Ti-Al system and its sub-systems
Intermetallics, in preparation

32) L.I. Duarte, C. Leinenbach, U.E. Klotz, M. Marker, K. Richter, J.F. Löffler
Phase equilibria in the Fe-Ni-Ti-Al system Part II: Experimental study of the section FeAl-NiAl-TiAl
Intermetallics, in preparation

CONFERENCE PROCEEDINGS (PARTLY REFEREED)

1) H.R. Elsener, C. Leinenbach, J. Neuenschwander, P. Wurz, D. Piazza
Fügen einer beheizbaren Metall-Keramik-Struktur mit eutektischem Au-Ge Lot, Proceedings of 9th
Proceedings of 9th International Conference on Brazing, High Temperature Brazing and Diffusion Bonding 2010, Aachen, DVS-Berichte Band 263, 93-97

2) S. Buhl, C. Leinenbach, R. Spolenak, K. Wegener
Microstructure, residual stresses and shear strength of diamond-steel-joints as a function of brazing parameters
Proceedings of 9th International Conference on Brazing, High Temperature Brazing and Diffusion Bonding 2010, Aachen, DVS-Berichte Band 263, 243-247

3) T.A. Baser, C. Leinenbach, H.J. Schindler
Cyclic fracture behaviour of brazed steel joints
Proc. 12th International Conference on Fracture (ICF12), Ottawa, 12.-17.07.09

4) C. Leinenbach, A. Al-Badri, M. Roth
Influence of thermal exposure on the interfacial microstructure of Stellite 6 coated 12%-Cr steels for steam turbine applications
Proc. Materials Science & Technology 2008, Pittsburgh, 05.-09.10.08, 2130-2138

5) C. Leinenbach, H.J. Schindler, T.A. Baser, N. Rüttimann, K. Wegener
Fracture behaviour and defect assessment of brazed steel joints
Proc. 17th European Conference on Fracture – ECF17, Brno (CZ), 05.-09.09.08, 2121-2128

6) C. Leinenbach, H.J. Schindler, N. Rüttimann, K. Wegener
Mechanische Prüfung von Hochtemperatur-Lötverbindungen – Festigkeit, Bruchverhalten und Fehlertoleranz
Proc. Werkstoffprüfung '07 – Festigkeit, Bruchverhalten und Fehlertoleranz, Neu-Ulm, 29./30.11.07, 345-350

7) C. Leinenbach, N. Gelder, U. Klotz
Hochtemperatur-Schutzgaslöten von rostfreiem, martensitischem Stahl mit kupferfreien Silberbasisloten
Proc. 8th International Conference Löt07, Brazing, High Temperature Brazing and Diffusion Welding, Aachen, 19.-21.06.07, DVS (2007), 6-11

8) C. Leinenbach, H. Lehmann, H.J. Schindler
Mechanische Charakterisierungen von Lötverbindungen aus X3CrNi 13-4 und AuNi18 – Tragverhalten und Fehlerempfindlichkeit bauteilähnlicher Proben
Proc. 38. Tagung DVM-Arbeitskreis „Bruchvorgänge": Bruchmechanik von Grenzflächen, Aachen, 14./15.02.2006, DVM Berlin (2006) 185-194

9) C. Leinenbach, D. Eifler
Charakterisierung des Wechselverformungsverhaltens und ermüdungsbedingter Oberflächenschäden thermisch und anodisch oxidierter Titanlegierungen
Proc. 4. Tagung DVM-Arbeitskreis „Biowerkstoffe": Grenzflächen bei Implantaten: Mechanische und biologisch-chemische Aspekte, Köln, 26./27.03.2004, DVM Berlin (2004) 49-58

10) C. Leinenbach, C. Fleck, D. Eifler
Charakterisierung von Oberflächenschäden der Implantatlegierung TiAl6Nb7 nach mechanischer Beanspruchung in quasi-physiologischen Medien
Proc. 3. Tagung DVM-Arbeitskreis „Biowerkstoffe": Eigenschaften und Prüftechniken mechanisch beanspruchter Implantate, Köln, 12./13.04.2002,DVM Berlin (2002) 21-30

11) K.P. Koch, C. Leinenbach, T. Stieglitz
Fabrication and test of robust spherical epimysial electrodes for lower limb stimulation
Proc. of the 5th Annual Conference of the International Functional Electrical Stimulation Society (IFESS) (2000) 261-264

12) C. Leinenbach, H. Engström
Nd:YAG-laser surface treatment improves surface properties of a cast AlSi10-alloy
Proc. 7th Nordic Conference in Laser Processing of Materials (NOLAMP), Lappeenranta (1999), 516-525

INVITED TALKS

Conferences

1) C. Leinenbach (Sp), J. Wang, S. Buhl, M. Roth
Thermo-Chemical Design of Brazed Diamond-Metal Joints
CIMTEC 2010, 06.-11.06.2010, Montecatini Terme, Italy

2) C. Leinenbach (Sp), H.R. Elsener, J. Wang
Novel gold based filler metals for soldering highly loaded components – fundamentals and applications
GOLD 2009 – 5th International Conference on Gold Science, Technology and its Applications, Heidelberg, 26.-29.07.2009

3) C. Leinenbach (Sp), H. Lehmann, H.J. Schindler
Mechanisches Verhalten und Fehlerempfindlichkeit hartgelöteter, bauteilähnlicher Proben mit T-Stoß-Geometrie
30. Sitzung der SVMT-Fachgruppe "Strukturintegrität"/ ESIS Sektion CH, PSI Villigen, 29.03.2006

4) C. Leinenbach (Sp), B. Schwilling, D. Eifler
Cyclic deformation behaviour and fatigue induced surface damage of titanium alloys in simulated physiological media
Materials Science & Technology '04, New Orleans, 26.-29.09.2004

Seminars & Workshops

5) C. Leinenbach
Joining of advanced components – fundamentals and applications
Invited lecture, University of Vienna and Göch-Gesellschaft Österreichischer Chemiker, 19.11.2010, Vienna, Austria

6) C. Leinenbach
Novel Au-based lead-free solders for highly loaded components
School of Materials Science and Technology, Sino-Swiss Workshop EMPA-CSU 2010, Central South University, Changsha, China

7) C. Leinenbach
Neue hochmanganhaltige Stähle mit exzellenten Formgedächtniseigenschaften
Invited Lecture, Landesforschungsschwerpunkt Advanced Materials Engineering, TU Kaiserslautern, 25.02.09

8) C. Leinenbach
Active brazing of diamond and cubic boron nitride – interface reactions and microstructure
CECAM Workshop, Reflections on Metal/Ceramic Interface Design, ETH Zürich, 20.-22.07.2009

9) C. Leinenbach
Neuartige Formgedächtnislegierungen auf Fe-Basis
Seminar Talk, Institute of Metallurgy, University of Leoben/Austria, 17.02.09

10) C. Leinenbach
Mikrostruktur und Integrität grenzflächenbestimmter, hochbeanspruchter Komponenten
Invited lecture, Fachbereich Maschinenbau & Verfahrenstechnik, TU Kaiserslautern, 11.04.08

11) C. Leinenbach
Advanced Engineering Components Under Complex Loading – Characterization of damage behaviour and long term stability of metal alloys used for orthopaedic implants and turbo compressor parts
Seminar Talk, Laboratory of Metal Physics and Technology, ETH Zürich, 06.09.2006

12) C. Leinenbach (Sp), B. Schwilling, D. Eifler
Interaction between mechanically induced surface damage on metallic implant materials and physiological media
Seminar talk, Division of Manufacturing Systems Engineering, Luleå University of Technology, 04.03.2003

OTHER CONFERENCE AND SEMINAR CONTRIBUTIONS

2011:

1) S. Jin, C. Leinenbach, J. Wang, L.I. Duarte, A. Watson, A. Scott, S. Delsante, G. Borzone, M. Rappaz
Thermodynamic modelling of the Au-Ge-Ni and Au-Cu-Ge ternary systems
Workshop on Multiscale simulation of heterogeneous materials and coupling of thermodynamic models, 12.-14.01.2011., Leuven, Belgium

2010:

2) L.I. Duarte, C. Leinenbach, U.E. Klotz, M.M. Marker, K.W. Richter, J.F. Löffler
Phase equilibria in the section FeAl-NiAl-TiAl
TOFA 2010, 12.-16.09.2010, Porto, Portugal

3) C. Leinenbach, S. Jin, F. Valenza, D. Giuranno, R. Novakovic, J. Wang, H.-R. Elsener, S. Delsante, G. Borzone, A. Watson, A. Scott
Au-Ge-X (X = Cu, Ni) alloys for novel high-T Lead-free solder materials
TOFA 2010, 12.-16.09.2010, Porto, Portugal

4) S. Jin, C. Leinenbach, J. Wang, L.I. Duarte, A. Watson, A. Scott, S. Delsante, G. Borzone, M. Rappaz,
Design of Novel Au-Ge Based High Temperature Solders,
Junior Euromat 2010, 26.-30.07.2010, Lausanne, Switzerland

5) A. Al-Badri, C. Leinenbach, M. Roth, B. Scarlin, R. Hitzek
The effect of high temperature exposure on the interfacial microstructure of Co-coatings on 9-12% Cr steels and Ni-based alloys for high steam turbine applications
1st International conference on Materials for Energy, 04.-08.07.2010, Karlsruhe, Germany

6) L.I. Duarte, C. Leinenbach, U.E. Klotz, J.F. Löffler
Phase Diagram Study in the Fe-Ni-Ti-Al System and its Importance in Materials Science
17th International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM '10), 04.-09.07.2010, Zürich, Switzerland

7) H.R. Elsener, C. Leinenbach, J. Neuenschwander, P. Wurz, D. Piazza
Fügen einer beheizbaren Metall-Keramik-Struktur mit eutektischem Au-Ge Lot
9th International Conference on Brazing, High Temperature Brazing and Diffusion Bonding 2010, Aachen

8) S. Buhl, C. Leinenbach, R. Spolenak, K. Wegener
Microstructure, residual stresses and shear strength of diamond-steel-joints as a function of brazing parameters
9th International Conference on Brazing, High Temperature Brazing and Diffusion Bonding 2010, Aachen

9) J. Wang, C. Leinenbach, C. Liu
Development of the thermodynamic and atomic mobility database for active brazing of diamond to steel substrate
CALPHAD XXXIX, 23.-28.05.2010, Jeju, South Korea

10) S. Jin, C. Leinenbach, J. Wang, A. Watson, A. Scott, S. Delsante, G. Borzone
Experimental Investigation and Thermodynamic Modelling of the Au-Ge-X (X=Cu, Ni) Ternary Systems
CALPHAD XXXIX, 23.-28.05.2010, Jeju, South Korea

11) C. Leinenbach, J. Wang, S. Buhl, C. Liu
Simulation of interface reactions of Cu-Sn-Ti based active brazing filler metal with diamond and steel substrates
CALPHAD XXXIX, 23.-28.05.2010, Jeju, South Korea

12) C. Leinenbach, T.A. Baser, H.J. Schindler
LCF-Ermüdungsverhalten und Ermüdunsrissfortschritt in fehlerfreien und fehlerbehafteten gelöteten Stahlproben
34. Sitzung der SVMT-Fachgruppe „Strukturintegrität"/ ESIS Sektion CH, Winterthur, 05.05.10

13) M. Roth, J. Janczak-Rusch, C. Leinenbach, M. Galli, K. Sosnovska
Novel concepts in metal-ceramic joining
34th International Conference on Advanced Ceramics and Composites, 24.-29.01.10, Daytona Beach, USA

2009:

14) C. Leinenbach, S. Jin, F. Valenza, D. Giuranno, J. Wang, H.R. Elsener, R.Novakovic
Investigation of the Au-Ge-X (X= Cu, Ni) systems for high-T lead free solders
COST Action MP0602, Working Group 1 meeting, 23./24.11.09, Genova, IT

15) C. Leinenbach, J. Wang
Phase diagram investigations in the Au-Ge-X (X = Sn, Sb, Si) system for novel high temperature lead free solder alloys
Euromat 2009, 06.-10.09.09, Glasgow, UK

16) H.R. Elsener, C. Leinenbach, P. Wurz, D. Piazza
Soldering of a Heated Support Structure with Eutectic Au-Ge Alloy for the ENA Spectrometer
Euromat 2009, 06.-10.09.09, Glasgow, UK

17) S. Buhl, C. Leinenbach, K. Wegener, R. Spolenak
Influence of brazing parameters on the properties of diamond-metal joints
Euromat 2009, 06.-10.09.09, Glasgow, UK

18) A. Al-Badri, C. Leinenbach
The effect of high-temperature exposure on the interfacial microstructure of Co-based coatings on a 9% - Cr steel for steam turbine applications
Euromat 2009, 06.-10.09.09, Glasgow, UK

19) T.A. Baser, C. Leinenbach, H.J. Schindler
Cyclic fracture behaviour of brazed steel joints
International Conference on Fracture (ICF12), 12.-17.07.09, Ottawa, Canada

20) T.A. Baser, C. Leinenbach
Fatigue Crack Propagation Behavior of Brazed Steel Joints
19th Electron Microscopy Congress 22-25.06.2009, Trabzon, Turkey

21) H.J. Schindler, C. Leinenbach
Determination of Residual Stresses in Brazed Compressor Impellers and Assessment of Their Effect on Fatigue Crack Growth
9th International ASTM/ESIS Symposium on Fatigue and Fracture Mechanics, Vancouver, 20.-22.05.2009

22) J. Wang, C. Leinenbach. M. Roth
Thermodynamic modeling of the Au-Ge-X (X = Sb, Si, Sn) systems
CALPHAD XXXVIII, Prague, 17.-22.05.2009

23) C. Leinenbach, J. Wang
Phase diagram investigations in the Au-Ge-X (X = Si, Sn, Sb) systems – current status
COST MP0602 Action "HighSold" Midterm meeting, Bochum, 15.-17.05.2009

24) T.A. Baser, C. Leinenbach, H.J. Schindler
Fracture behaviour of brazed martensitic stainless steel joints under cyclic loading
5th International Materials Symposium Materiais 2009, Lissabon, 05.-08.04.2009

25) L.I. Duarte, C. Leinenbach, U.E. Klotz, J.F. Löffler
Phase relations in the FeAl-NiAl-TiAl section
5th International Materials Symposium Materiais 2009, Lissabon, 05.-08.04.2009

26) C. Leinenbach
Calphad-Modellierung als Werkzeug in der Füge- und Grenzflächentechnologie
EMPA/SwissLaser.net-Tagung „Neue Konzepte in der Füge- und Grenzflächentechnologie", Dübendorf, 15.01.09

2008:

27) L.I. Duarte, C. Leinenbach, U.E. Klotz, J.F. Löffler
Mapping the phase diagram Al-Fe-Ni-Ti using the diffusion multiples technique
MRS Fall Meeting 2008, Symposium U: Advanced Intermetallic-Based Alloys for Extreme Environment and Energy Applications, Boston, 01.-05.12.08

28) C. Leinenbach, Z.Z. Dong, U.E. Klotz, A. Bergamini
Development of Iron Based Shape Memory Alloys (FeSMA) for Civil Engineering Applications
19th International Conference on Adaptive Structures and Technologies – ICAST19, Ascona, 06.-09.10.08

29) L.I. Duarte, C. Leinenbach, U.E. Klotz, J.F. Löffler
Determination of phase relations in the quaternary Fe-Ni-Ti-Al system
Materials Science & Technology 2008, Pittsburgh, 05.-09.10.08

30) C. Leinenbach, A. Al-Badri, M. Roth
Influence of thermal exposure on the interfacial microstructure of Stellite 6 coated 12%-Cr steels for steam turbine applications
Materials Science & Technology 2008, Pittsburgh, 05.-09.10.08

31) C. Leinenbach, H.J. Schindler, T.A. Baser, N. Rüttimann, K. Wegener
Fracture behaviour and defect assessment of brazed steel joints
17th European Conference on Fracture – ECF17, Brno (CZ), 05.-09.09.08

32) M. Roth, C. Leinenbach, A. Al-Badri
Neuartige Beschichtungen für Schaufeln und Ventile in Dampfturbinen der nächsten Generation
Jahrestagung zum Energieforschungsprogramm „Kraftwerk 2020", Bern/Ittigen, 26.06.2008

33) Yu. Plevachuk, V. Sklyarchuk, S. Mudry, A. Korolyshyn, A. Yakymovych, I. Shtablavyy, Yu. Kulyk, U.E. Klotz, C. Liu, C. Leinenbach
Viscosity, electrical conductivity, XRD studies of liquid Sn-Ti, Sn-Zr, and Sn-Ti-Zr alloys
TOFA 2008, Krakau, 22.-27.06.2008

34) L.I. Duarte, C. Leinenbach, U.E. Klotz, J.F. Löffler
Phase relations in the Al-Fe-Ni-Ti system at 1273K
TOFA 2008, Krakau, 22.-27.06.2008

35) M. Roth, C. Leinenbach, A. Al-Badri
Thermodynamic Modelling of Novel Coatings for Steam Turbines
Forum of Technology – Turbine Forum 2008, Nizza, 23.-25.04.08

36) C. Leinenbach
Fehlertoleranz hochbeanspruchter gelöteter Komponenten
32. Sitzung der SVMT-Fachgruppe „Strukturintegrität"/ ESIS Sektion CH, Zürich, 23.04.08

2007:

37) C. Leinenbach, H.J. Schindler, N. Rüttimann, K. Wegener
Mechanische Prüfung von Hochtemperatur-Lötverbindungen – Festigkeit, Bruchverhalten und Fehlertoleranz
Werkstoffprüfung '07 – Festigkeit, Bruchverhalten und Fehlertoleranz, Neu-Ulm, 29./30.11.07

38) M. Roth, C. Leinenbach
Application of CALPHAD modelling in advanced joining technology
International Conference of Nonferrous Materials – ICNFM07, Changsha, 25.11-30.11.07

39) L.I. Duarte, U.E. Klotz, C. Leinenbach, J.F. Löffler
Experimental study of the Fe-Ni-Ti system at 800°C and 1000°C
2nd EMPA PhD Symposium, EMPA Dübendorf, 21.11.07

40) L.I. Duarte, U.E. Klotz, C. Leinenbach, J.F. Löffler
Experimental study of the Fe-Ni-Ti system at 800°C and 1000°C
COST Action 535 Thermodynamics of Alloyed Aluminides (THALU) Final Conference, Interlaken, 21.-24.10.07

41) C. Leinenbach, N. Gelder, U. Klotz
Hochtemperatur-Schutzgaslöten von rostfreiem, martensitischem Stahl mit kupferfreien Silberbasisloten
8th International Conference Löt07, Brazing, High Temperature Brazing and Diffusion Welding, Aachen, 19.-21.06.07

42) M. Roth, J. Janzcak, U. Klotz, C. Leinenbach
New concepts in brazing technology
Forum of Technology – Turbine Forum 2007, Nizza, 18.-20.04.07

43) C. Leinenbach
Schädigungsverhalten von Hartlötverbindungen bei quasistatischer und zyklischer Beanspruchung
31. Sitzung der SVMT-Fachgruppe „Strukturintegrität"/ ESIS Sektion CH, EMPA Dübendorf, 07.03.2007

2006:

44) C. Leinenbach, H. Lehmann, H.J. Schindler
Mechanische Charakterisierungen von Lötverbindungen aus X3CrNi 13-4 und AuNi18 – Tragverhalten und Fehlerempfindlichkeit bauteilähnlicher Proben
38. Tagung DVM-Arbeitskreis „Bruchvorgänge": Bruchmechanik von Grenzflächen, Aachen, 14./15.02.2006, DVM Berlin (2006)

2004 and before:

45) C. Leinenbach, B. Schwilling, D. Eifler
Cyclic deformation behaviour and fatigue induced surface damage of titanium alloys in simulated physiological media
Materials Science & Technology '04, New Orleans, 26.-29.09.2004

46) C. Leinenbach, D. Eifler
Charakterisierung des Wechselverformungsverhaltens und ermüdungsbedingter Oberflächenschäden thermisch und anodisch oxidierter Titanlegierungen
4. Tagung DVM-Arbeitskreis „Biowerkstoffe": Grenzflächen bei Implantaten: Mechanische und biologisch-chemische Aspekte, Köln, 26./27.03.2004

47) C. Leinenbach, D. Eifler
Detection and Characterization of Mechanically Induced Surface Damage on Titanium in Quasi-Physiological Solutions by Electrochemical Techniques
XVIIth Aachen Colloquium on Biomaterials, Aachen, 06./07.03.2004

48) C. Leinenbach, C. Fleck, D. Eifler
Characterization of the interaction between mechanically induced surface damage on metallic implant materials and quasi-physiological media
EUROMAT 2003, Lausanne, 01.-05.09.2003

49) C. Leinenbach, C. Fleck, D. Eifler
Wechselwirkung mechanisch induzierter Oberflächenschäden an TiAl6Nb7 mit quasi-physiologischen Medien
Internationale Biomechanik- und Biomaterial-Tage, München, 12./13.07.2002

50) C. Leinenbach, C. Fleck, D. Eifler
Charakterisierung von Oberflächenschäden der Implantatlegierung TiAl6Nb7 nach mechanischer Beanspruchung in quasi-physiologischen Medien
3. Tagung DVM-Arbeitskreis „Biowerkstoffe": Eigenschaften und Prüftechniken mechanisch beanspruchter Implantate, Köln, 12./13.04.2002

51) S. Winter, C. Leinenbach, V. Biehl, J. Breme
Generation of microstructured surfaces on TiNb-alloys for blood-vessel implants with improved haemocompatibility
Materials Week 2001, München (2001)

52) K.P. Koch, C. Leinenbach, T. Stieglitz
Fabrication and test of robust spherical epimysial electrodes for lower limb stimulation
5th Annual Conference of the International Functional Electrical Stimulation Society (IFESS) (2000)

53) C. Leinenbach, H. Engström
Nd:YAG-laser surface treatment improves surface properties of a cast AlSi10-alloy
7th Nordic Conference on Laser Materials Processing (NOLAMP 7)
Lappeenranta (Finnland) (1999)

MISCELLANEOUS

1) C. Leinenbach, Z.Z. Dong, A. Bergamini
Novel Fe-based shape memory alloys with excellent shape recovery properties
EMPA Activity-Report 2008, p. 5

2) C. Leinenbach, M. Roth, P. Schwaller
Life-cycle engineering of brazed turbine compressors
EMPA Activity-Report 2007, p. 19

3) C. Leinenbach
Mechanische Eigenschaften und Ermüdungsverhalten von Titan und Titanlegierungen für orthopädische Applikationen
Titan-Anwenderseminar, Haus der Technik e.V. / EMPA Akademie, Arbeitsunterlagen