Curriculum Vitae

Ing. Karel Saksl, PhD.

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Personal Information

Name	Karel Saksl
Gender	male
Date of birth	May 27th 1974
Place of birth	Košice, Slovakia
Family status	married, four children
Nationality	Slovak
Address	Atletická 22, 040 01 Košice, Slovak republic
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Work Experiences

Dates (from - to)	September 1997– current
Name and address of employer	Institute of Materials Research, Slovak Academy of Sciences, Watsonova 47, 043 53 Košice, Slovakia
Type of business or sector	scientific institution
Occupation or position held	postgraduate student, researcher, Senior Researcher
Main activities and responsibilities	involved in scientific project: Synthesis, characterization of nanostructured materials and their adaptation to engineering praxis

Dates (from - to)	April 2002– March 2007
Name and address of employer	HASYLAB at DESY, Notkestr.85, D–226 03 Hamburg, Germany
Type of business or sector	national user research facility
Occupation or position held	postdoc
Main activities and responsibilities	Structural studies of highly disordered (amorphous, nanocrystalline) materials at ambient and extreme conditions

Dates (from - to)	April - December 2001
Name and address of employer	Department of Physics, Technical University of Denmark, Building 309–307–312, DK–2800 Kongens Lyngby, Denmark
Type of business or sector	university
Occupation or position held	postdoc position
Main activities and responsibilities	involved in scientific project: Synthesis and characterization of amorphous, crystalline, quasicrystalline materials under non-ambient conditions

Education and Training

Date	14th December 2000
Name and address of organization providing education and training	Institute of Materials Research, Slovak Academy of Sciences, Watsonova 47, 043 53 Košice, Slovakia
Principal subjects/occupational skills covered	defence of disertation thesis: "*Relationship between structural parameters and mechanical properties of Cu - MgO nanocrystalline system*"
Title of qualification awarded	PhD. (*Philosophiae Doctor*, lat.)

Dates (from - to)	September 1992 - June 1997
Name and address of organization providing education and training	Technical University of Košice, Faculty of Metallurgy, Letná 9, Blok A, 042 00 Košice, Slovakia
Principal subjects/occupational skills covered	Diploma work: "*Corosion characteristics of low alloyed steels*"
Title of qualification awarded	Ing. (*Ingénieur*, lat.)

Study Abroad

Dates (from - to)	September - December 2000
Name and address of organization providing education and training	MIC - Department of Micro and Nanotechnology, DTU - Building 345 East, DK-2800 Kongens Lyngby, Denmark
Principal subjects/occupational skills covered	Construction and measurement with electronic microdevices

Relevant Activities

Teaching / tutoring

2007 – current	Pawel Rikicki,PhD. - supervisor
2007 – current	Zdeněk Spotz,PhD. - supervisor
2007 – current	Lenka Fusová,PhD. - supervisor
2007 – current	Štefan Michalík,PhD. - consultant
2007 – current	Vladimír Kolesár, PhD. - consultant
2004 – 2007	Štefan Michalík, MSc. - supervisor
2004 – 2007	Vladimír Kolesár, MSc. - consultant
2004 – 2008	Robert Kanász, MSc. - consultant
2003 – 2006	supervisor in *"DESY sumerstudent program"*

Participation on research projects

2008 – current	7.FP of EU PITN–GA–2008–211536, scientist in charge, *"Macro, Micro and Nano Aspects of Machining (MAMINA)"*
2001 – 2004	5.FP of EU G5RD–CT 2000 - 00341, *"High efficiency forming technology of light weight MMC components for automotive and household application"*
1997 – 1999	INCO–Copernicus CT– 96 0750, *"Formability modelling of aluminium base PM alloys"*
1997 – current	co–author of domestic research grant projects: VEGA, APVV

Invited talks

October 25, 2005 — invited seminar talk at Institut für Physik, TU Chemnitz, *"Atomic structure of Al–based metallic glasses"*

Talks

October 12–14, 2005 — ALUMINIUM 2005, *"Atomic Structure of $Al_{88}Y_7Fe_5$ Metallic Glass"*

Other activities

2004-2006 — responsible (scientific support, advice) of three synchrotron beamlines running at Hasylab.

2002-2006 — adaptation of Paris-Edinburgh large volume pressure cell at Petra II beamlines, unique apparatus for in–situ XRD measurement at high pressures and high temperatures.

Personal Skills

Languages

Slovak (native)
English (advanced), Czech (near-native), Russian (intermediate), German (intermediate)

Social skills and competencies

leading skills, team work, communication skills, presentation skills

Computer skills

familiar with many Windows^{TM} applications
familiar with scientific programs: Microcal Origin^{TM}, Maple, PDFgetX2, RMCA, GSAS etc.
knowledge of programming languages: PASCAL, LaTeX, IDL, HTML

Technical skills and competencies

determination of structure and characterization structural transformations by means of X-ray powder diffraction (XRD) and X-ray absorption spectroscopy(XAS) techniques

investigation of thermal properties by means of differential scanning calorimetry (DSC) method

Modeling of highly disordered atomic structures by Reverse Monte Carlo (RMC) method

preparation of amorphous and nanocrystalline powders by mechanical milling

Publications

Scientific Papers in Regular Journals Currented by the ISI-web of Science

[1] B. Nagler, U. Zastrau, R.R. Fäustlin, S.M Vinko, T. Whitcher, A.J. Nelson, R. Sobierajski, J. Krzywinski, J. Chalupsky, E. Abreu, S. Bajt, T. Bornath, T. Burian, H. Chapman, J. Cihelka, T. Döppner, S. Düsterer, T. Dzelzainis, M. Fajardo, E. Förster, C. Fortmann, E. Galtier, S.H. Glenzer, S. Göde, G. Gregori, V. Hajkova, P. Heimann, L. Juha, M. Jurek, F.Y. Khattak, A.R. Khorsand, D. Klinger, M. Kozlova, T. Laarmann, H.J. Lee, R.W. Lee, K.-H. Meiwes-Broer, P. Mercere, W.J. Murphy, A. Przystawik, R. Redmer, H. Reinholz, D. Riley, G. Röpke, F. Rosmej, **K. Saksl**, R. Schott, R. Thiele, J. Tiggesbäumker, S. Toleikis, T. Tschentscher, I. Uschmann, H.J. Vollmer, and J.S. Wark. Turning solid aluminium transparent by intense soft X-ray photoionization. *Nature Physics*, 5(9):693–696, 2009.

[2] A.J. Nelson, S. Toleikis, H. Chapman, S. Bajt, J. Krzywinski, J. Chalupsky, L. Juha, J. Cihelka, V. Hajkova, L. Vysin, T. Burian, M. Kozlova, R.R. Fäustlin, B. Nagler, S.M. Vinko, T. Whitcher, T. Dzelzainis, O. Renner, **K. Saksl**, A.R. Khorsand, P.A. Heimann, R. Sobierajski, D. Klinger, M. Jurek, J. Pelka, B. Iwan, J. Andreasson, N. Timneanu, M. Fajardo, J.S. Wark, D. Riley, T. Tschentscher, J. Hajdu, and R.W. Lee. Soft x-ray free electron laser microfocus for exploring matter under extreme conditions. *Optics Express*, 17(20):18271–18278, 2009.

[3] S. Michalik, **K. Saksl**, P. Sovák, K. Csach, and J.Z. Jiang. Crystallization of $Zr_{60}Fe_{20}Cu_{20}$ amorphous alloy. *Journal of Alloys and Compounds*, 478(1–2):441–446, 2009.

[4] S. Couet, K. Schlage, **K. Saksl**, and R Rohlsberger. Morphology of the interfaces between transition metals and their native oxides: Role of interdiffusion processes. *Physical Review B*, 79:085417 1–6, 2009.

[5] J. Bednarčík, **K. Saksl**, R. Nicula, S. Roth, and H. Franz. Influence of cryomilling on structure of CoFeZrB alloy. *Journal of Non-Crystalline Solids*, 351(47–51):5117–5119, 2008.

[6] S. Couet, K. Schlage, **K. Saksl**, and R Rohlsberger. How metallic Fe controls the composition of its native oxide. *Physical Review Letters*, 101(5):056101, 2008.

[7] **K. Saksl**, D. Vojtěch, and J. Ďurišin. In-situ XRD studies on Al-Ni and Al-Ni-Sr alloys prepared by rapid solidification. *Journal of Alloys and Compounds*, 464(1–2):95–100, 2008.

[8] M. Orolínová, J. Ďurišin, K. Ďurišinová, M. Besterci, and **K. Saksl**. Structural analyses on AlSi26Ni8 rapidly solidified alloys. *High Temperature Materials and Processes*, 27(1):61–72, 2008.

[9] R. Kanász, J. Bednarčík, **K. Saksl**, R. Nicula, M. Stir, and C. Lathe. In situ energy dispersive X-ray diffraction analysis of the temperature-pressure stability of Co-Fe-(Ta,W)-B alloys. *Acta Physica Polonica A*, 113(1):79–82, 2008.

[10] P. Poulopoulos, S. Baskoutas, L.F Kiss, L. Bujdosó, T. Kemény, F. Wilhelm, A. Rogalev, V. Kapaklis, C. Politis, M. Angelakeris, and **K. Saksl**. Magnetic moments of Fe and Y in the FeBY glass forming system. *Journal of Non-Crystalline Solids*, 354(2–9):587–591, 2008.

[11] L Yang, J Z Jiang, **K. Saksl**, and H Franz. Origin of the pre-peak in $Zr_{70}Cu_{29}Pd_1$ metallic glass. *Journal of Physics: Condensed Matter*, 19(47):476217 (6pp), 2007.

[12] L. Yang, S. Yin, X. D. Wang, Q. P. Cao, J. Z. Jiang, **K. Saksl**, and H. Franz. Atomic structure in $Zr_{70}Ni_{30}$ metallic glass. *Journal of Applied Physics*, 102(8):083512, 2007.

[13] X. D. Wang, J. Bednarčík, **K. Saksl**, H. Franz, Q.P. Cao, and J.Z. Jiang. Tensile behavior of bulk metallic glasses by in situ x-ray diffraction. *Applied Physics Letters*, 91(8):081913 1–3, 2007.

[14] P. Zetterström, R. Delaplane, Y. D. Wang, P. K. Liaw, H. Choo, **K. Saksl**, H. F. Zhang, and Y. Ren. Nanoscale defect clusters in metallic glasses. *J. Phys.: Condens. Matter*, 19(37):1–8, 2007.

[15]P. Jóvári, **K. Saksl**, N. Pryds, B. Lebech, N. Bailey, A. Mellergård, R. G. Delaplane, and H. Franz. Atomic structure of glassy $Mg_{60}Cu_{30}Y_{10}$. *Physical Review B*, 76(5):054208 1–8, 2007.

[16]Q.K. Jiang, G.Q. Zhang, L. Yang, X.D. Wang, **K. Saksl**, H. Franz, R. Wunderlich, H. Fecht, and J.Z. Jiang. La-based bulk metallic glasses with critical diameter up to 30 mm. *Acta Materialia*, 55(13):4409–4418, 2007.

[17]B. Yang, J. Jiang, Y. Zhuang, **K. Saksl**, and G. Chen. Crystallization of $Pd_{40}Cu_{30}Ni_{10}P_{20}$ bulk metallic glass with and without pressure. *Journal of University of Science and Technology Beijing: Mineral Metallurgy Materials (Eng Ed)*, 14(4):356–360, 2007.

[18]X.D. Wang, L. Yang, J.Z. Jiang, **K. Saksl**, H. Franz, H. Fecht, Y.G. Liu, and H.S. Xian. Enhancement of plasticity in Zr-based bulk metallic glasses. *Journal of Materials Research*, 22(9):2454–2459, 2007.

[19]A. B. Abrahamsen, J.-C. Grivel, N. H. Andersen, J. Homeyer, and **K. Saksl**. Kinetics of MgB_2 Formation Studied by in-situ Synchrotron X-Ray Powder Diffraction. *IEEE Transactions on Applied Superconductivity*, 17(2):2757 – 2760, 2007.

[20]**K. Saksl**, J. Bednarčík, R. Nicula, E. Burkel, and H. Franz. The influence of short time ball milling on the stability of amorphous CoFeB alloys. *Journal of Physics: Condensed Matter*, 19(17):176215, 2007.

[21]**K. Saksl**, D. Vojtěch, and H. Franz. Qasicrystal-crystal structural transformation in Al-5 wt.% Mn alloy. *Journal of Materials Science*, 42(17):7198–7201, 2007.

[22]Ľ. Medvecký, M. Kmecová, and **K. Saksl**. Study of $PbZr_{0.53}Ti_{0.47}O_3$ solid solution formation by interaction of perovskite phases. *Journal of the European Ceramic Society*, 27(4):2031–2037, 2007.

[23]**K. Saksl**, P. Jóvári, H. Franz, Q. S. Zeng, J. F. Liu, and J. Z. Jiang. Atomic structure of $Al_{89}La_6Ni_5$ metallic glass. *Journal of Physics: Condensed Matter*, 18(32):7579–7592, 2006.

[24]J. Bednarčík, E. Burkel, **K. Saksl**, P. Kollár, and S. Roth. Mechanically induced crystallization of an amorphous CoFeZrB alloy. *Journal of Applied Physics*, 100(1):014903, 2006.

[25]D. Vojtěch, **K. Saksl**, J. Verner, and B. Bártová. Structural evolution of rapidly solidified Al-Mn and Al-Mn-Sr alloys. *Materials Science and Engineering A*, 428(1-2):188–195, 2006.

[26]L. Yang, J. H. Xia, Q. Wang, C. Dong, L. Y. Chen, X. Ou, J. F. Liu, J. Z. Jiang, K. Klementiev, **K. Saksl**, H. Franz, J. R. Schneider, and L. Gerward. Design of Cu_8Zr_5 -based bulk metallic glasses. *Applied Physics Letters*, 88(24):241913, 2006.

[27]D. Vojtěch, J. Verner, B. Bártová, and **K. Saksl**. Rapid solids hold hope for strong aluminium alloys. *Metal Powder Report*, 61(6):32–35, 2006.

[28]Y. Wang, Y. Z. Fang, T. Kikegawa, C. Lathe, **K. Saksl**, H. Franz, J. R. Schneider, L. Gerward, F. M. Wu, J. F. Liu, and J. Z. Jiang. Amorphouslike Diffraction Pattern in Solid Metallic Titanium. *Physical Review Letters*, 95(15):155501, 2005.

[29]**K. Saksl**, P. Jóvári, H. Franz, and J. Z. Jiang. Atomic structure of $Al_{88}Y_7Fe_5$ metallic glass. *Journal of Applied Physics*, 97(11):113507, 2005.

[30]**K. Saksl**, J. Ďurišin, M. Orolínová, K. Ďurišinová, and P. Lazár. Structural study on Al-26 mass% Si-8 mass% Ni powder. *Journal of Materials Science*, 40(8):1975–1978, 2005.

[31]J. Ďurišin, K. Ďurišinová, M. Orolínová, and **K. Saksl**. Preparation and microstructure evolution of nanocomposite powder copper. *International Journal of Materials and Product Technology*, 23(1-2):42–68, 2005.

[32]J. Ďurišin, K. Ďurišinová, M. Orolínová, and **K. Saksl**. Effect of the MgO particles on the nanocrystalline copper grain stability. *Materials Letters*, 58(29):3796–3801, 2004.

[33]J. Z. Jiang and **K. Saksl**. Structural stability of $Pd_{40}Cu_{30}Ni_{10}P_{20}$ metallic glass in supercooled liquid region. *Materials Science and Engineering A*, 375-377(1-2):733–737, 2004.

[34]L. Yang, Y. Chao, **K. Saksl**, H. Franz, L. L. Sun, W. K. Wang, N. P. Jiang, X. J. Wu, and J. Z. Jiang. Short-range structure of $Zr_{41}Ti_{14}Cu_{12.5}Ni_{10}Be_{22.5}$ glass prepared by shock wave. *Applied Physics Letters*, 84(24):4998–5000, 2004.

[35]H. Bruncková, Ľ. Medvecký, J. Briančin, and **K. Saksl**. Influence of hydrolysis conditions of the acetate sol-gel process on the stoichiometry of PZT powders. *Ceramics International*, 30(3):453–460, 2004.

[36]**K. Saksl**, H. Franz, P. Jovari, K. Klementiev, E. Welter, A. Ehnes, J. Saida, A. Inoue, and J. Z. Jiang. Evidence of icosahedral short-range order in $Zr_{70}Cu_{30}$ and $Zr_{70}Cu_{29}Pd_1$ metallic glasses. *Applied Physics Letters*, 83(19):3924–3926, 2003.

[37]J. Z. Jiang, H. Kato, T. Ohsuna, J. Saida, A. Inoue, **K. Saksl**, H. Franz, and K. Sthl. Origin of nondetectable X-ray diffraction peaks in nanocomposite CuTiZr alloys. *Applied Physics Letters*, 83(16):3299–3301, 2003.

[38]V. Kovaľ, C. Alemany, J. Briančin, H. Bruncková, and **K. Saksl**. Effect of PMn modification on structure and electrical response of xPMN- (1- x)PZT ceramic systems. *Journal of the European Ceramic Society*, 23(7):1157–1166, 2004.

[39]J. Z. Jiang, B. Yang, **K. Saksl**, H. Franz, and N. Pryds. Crystallization of $Cu_{60}Ti_{20}Zr_{20}$ metallic glass with and without pressure. *Journal of Materials Research*, 18(4):895–898, 2003.

[40]J. Z. Jiang, **K. Saksl**, N. Nishiyama, and A. Inoue. Crystallization in $Pd_{40}Ni_{40}P_{20}$ glass. *Journal of Applied Physics*, 92(7):3651–3656, 2002.

[41]J. Z. Jiang, **K. Saksl**, J. Saida, A. Inoue, H. Franz, K. Messel, and C. Lathe. Evidence of polymorphous amorphous-to-quasicrystalline phase transformation in $Zr_{66.7}Pd_{33.3}$ metallic glass. *Applied Physics Letters*, 80(5):781–783, 2002.

[42]J. Z. Jiang, **K. Saksl**, H. Rasmussen, T. Watanuki, N. Ishimatsu, and O. Shimomara. High-pressure X-ray diffraction of icosahedral Zr–Al–Ni–Cu–Ag quasicrystals. *Applied Physics Letters*, 79(8):1112–1114, 2001.

[43]**K. Saksl**, Ľ. Medvecký, and J. Ďurišin. Preparation of nanocrystalline Cu–xMgO mixture. *Journal of Materials Science*, 36(15):3675–3678, 2001.

Scientific Papers in Proceedings of the Conferences

[1] J. Cihelka, L. Juha, J. Chalupský, F.B. Rosmej, O. O. Renner, **K. Saksl**, V. Hájkov'a, L. Višín, E. Galtier, R. Schott, A.R. Khorsand, D. Riley, T. Dzelzainis, A.J. Nelson, R.W. Lee, P.A. Heimann, B. Nagler, S. Vinko, J. Wark, T. Whitcher, S. Toleikis, T. Tschentscher, R Fäustlin, H. Wabnitz, S. Bajt, H. Chapman, J. Krzywinski, R. Sobierajski, D. Klinger, M. Jurek, J. Pelka, S. Hau-Riege, R.A. London, J. Kuba, N. Stojanovic, K. Sokolowski-Tinten, A.J. Gleeson, M. Störmer, J. Andreasson, J. Hajdu, B. Iwan, and N. Timneanu. Optical emission spectroscopy of various materials irradiated by soft x-ray free-electron laser. *Proceedings of SPIE - The International Society for Optical Engineering*, 7361, 2009.

[2] J. Bednarčík, R. Nicula, **K. Saksl**, M. Stir, and E. Burkel. Microstructure evolution during thermal processing: Insight from in-situ time-resolved synchrotron radiation experiments. *Materials Science Forum*, 550:607–612, 2008.

[3] A.B. Abrahamsen, J.-C. Grivel, N.H. Andersen, M. Herrmann, W. Hasler, B. Birajdar, O. Eibl, and **K. Saksl**. In-situ synchrotron x-ray study of MgB2 formation when doped by SiC. *Journal of Physics: Conference Series*, 97(1):012315, 2008.

[4] J.-C. Grivel A.B. Abrahamsen, N.H. Andersen, and **K. Saksl**. Manufacture of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$-based tapes with a composite sheath. *Journal of Physics: Conference Series*, 97(1):012033, 2008.

[5] X. Ou, W. Roseker, **K. Saksl**, H. Franz, L. Gerward, X. Xu, G. Q. Zhang, and L. N. Wang. Microstructure and crystallization in $Cu_{50}Zr_{45}Al_5$ metallic glass. In *Proceedings of the International Symposium on Metastable Mechanically Alloyed and Nanocrystalline Materials*, volume 441, pages 185–188. Journal of Alloys and Compounds, Paris, France, 2007.

[6] J. Bednarčík, R. Nicula, **K. Saksl**, M. Stir, and E. Burkel. Microstructure Evolution During Thermal Processing : Insight from In-Situ Time-Resolved Synchrotron Radiation Experiments. In *Proceedings of the International Symposium held to coincide with the retirement of Professor John Humphreys in Manchester, UK, September 2006*, volume 550, pages 607– 612. Materials Science Forum, Trans Tech Publications, Switzerland, 2007.

[7] D. Vojtěch, J. Verner, B. Bártová, and **K. Saksl**. Thermal Stability of Rapidly Solidified Alloys of Aluminium with Transition Metals. In *Proceedings of the 10th International Conference on Aluminum Alloys, Materials Science Forum*, volume 519–521, pages 389–395. Materials Science Forum, Vancouver, Canada, 2006.

[8] D. Vojtěch, J. Verner, B. Bártová, and **K. Saksl**. Microstructure and Properties of Rapidly Solidified Al–TMs Alloys. In *Proceedings of the EURO PM2005*, volume II, pages 205–210. EPMA, Prague, 2005.

[9] D. Vojtěch, J. Verner, B. Bártová, and **K. Saksl**. Microstructural features of rapidly solifdified Al–TM (transition metals) based alloys. In H. Danninger Ľ. Parilák, editor, *Proceedings of the Int. Conf. DF PM 2005: Deformation and Fracture in structural PM materials*, pages 91–99. Institute of Materials Research of the Slovak Academy of Sciences in Košice, Stará Lesná, 2005.

[10] J. Verner, D. Vojtěch, B. Bártová, and **K. Saksl**. Microstructure and thermal stability of rapidly solidified Al–Mn–Sr alloys. In *Proceedings of the Int. conf. Juniormat 05*, pages 131–134. VÚT Brno, Brno, 2005.

[11] J. Verner, D. Vojtěch, B. Bártová, and **K. Saksl**. Structural evolution of rapidly solidified Al–Mn and Al–Mn–Sr alloys. In *Proceedings of the Int. conf. Nano 05*, page 88. VÚT Brno, Brno, 2005.

[12] D. Vojtěch, J. Verner, B. Bártová, and **K. Saksl**. Vlastnosti rychle ztuhlých slitin Al–Mn a Al–Mn–Sr. In *Proceedings of the METAL 2005*, page 82. Tanger, Hradec nad Moravicí, 2005.

[13] **K. Saksl**, P. Jóvári, H. Franz, and J. Z. Jiang. Atomic structure of $Al_{88}Y_7Fe_5$ metallic glass. In *Proceedings of the 4th Int. Conf. On Aluminium Alloys*, pages 250–254. Alcan Děčín Extrusion, Děčín, 2005.

[14] J. Ďurišin, K. Ďurišinová, M. Orolínová, and **K. Saksl**. Influence of Reduction Conditions on Powder Copper Microstructural Characteristics. In H. Danninger Ľ. Parilák, editor, *Proceedings of the Int. Conf. DF PM 2002: Deformation and Fracture in structural PM materials*, volume I, pages 234–240. Institute of Materials Research of the Slovak Academy of Sciences in Košice, Stará Lesná, 2002.

[15] **K. Saksl** and J. Ďurišin. Relationship between Structure Parameters and Mechanical Properties of Nanostructural Dispersion System Cu-MgO. In H. Danninger Ľ. Parilák, editor, *Proceedings of the Int. Conf. DF PM 1999: Deformation and Fracture in structural PM materials*, volume II, pages 88–92. Institute of Materials Research of the Slovak Academy of Sciences in Košice, Piešťany, 1999.

[16]**K. Saksl**. Röntgenovo-difrakcná analýza nanokryštalickej práškovej sústavy CuO–MgO. In *Proceedings of the Int. Conf. Metallurgy Junior 99*, pages 46–53. Technical University of Košice, Košice, 1999.

Hasylab and ESRF Reports

[1] **K. Saksl**, D. Zajac, H. Franz, Š. Michalík, and J. Z. Jiang. Comparisons Between XAFS Signals Measured in Transmission and Total Electron Yield Mode. In *HASYLAB Annual Report 2006*, volume I. HASYLAB at DESY, Hamburg, 2006.

[2] S. Couet, T. Diederich, R. Röhlsberger, E. Welter, **K. Saksl**, and O. Seeck. X-ray Absorption and reflectivity studies of Iron/native oxide multilayers. In *HASYLAB Annual Report 2006*, volume I. HASYLAB at DESY, Hamburg, 2006.

[3] C. Paulmann, R. Peters, **K. Saksl**, K. Petermann, and U. Bismayer. Characterisation of disorder-induced scattering in $NaGd(WO_4)_2$:Yb^{3+} crystals. In *HASYLAB Annual Report 2006*, volume I. HASYLAB at DESY, Hamburg, 2006.

[4] J. Bednarčik, **K. Saksl**, R. Nicula, and E. Burkel. Influence of cryomilling on structure of CoFeZrB alloy. In *HASYLAB Annual Report 2006*, volume I. HASYLAB at DESY, Hamburg, 2006.

[5] D. Oleksaková, J.Fuzer, J. Bednarčík, and **K. Saksl**. The influence of mechanical miling and alloying on structure of NiFe alloys. In *HASYLAB Annual Report 2006*, volume I. HASYLAB at DESY, Hamburg, 2006.

[6] **K. Saksl**, A. Ehnes, H. Franz, Š. Michalík, and V. Kolesár. Multi-channel collimator, a tool for high-pressure angular-dispersive XRD experiments. In *HASYLAB Annual Report 2005*, volume I, pages 46–53. HASYLAB at DESY, Hamburg, 2005.

[7] **K. Saksl** and D. Vojtěch. In-situ high temperature XRD study on rapidly solidified Al–17 wt.% Ni and Al–17 wt.% Ni 2–wt.% Sr alloys. In *HASYLAB Annual Report 2005*, volume I, pages 387–388. HASYLAB at DESY, Hamburg, 2005.

[8] **K. Saksl**, H. Franz, and J. Z. Jiang. Structural study of $Zr_{70}Ni_{29}Pd_1$ amorphous alloy. In *HASYLAB Annual Report 2004*, volume I. HASYLAB at DESY, Hamburg, 2004.

[9] G. Wellenreuther, T. Asthalter, H. Franz, I. Sergueev, U. van Buerck, **K. Saksl**, and A. Chumakov. Dynamics of a glass–forming binary liquid confined in mesoporous silicon. In *ESRF Report 2004*. ESRF, Grenoble, 2004.

[10]**K. Saksl**, P. Jóvári, H. Franz, and J. Z. Jiang. Structural study of bulk amorphous NdNiAl. In *HASYLAB Annual Report 2003*, volume I. HASYLAB at DESY, Hamburg, 2003.

[11]A. Ehnes, **K. Saksl**, P. Jóvári, and H. Franz. A Mirror Furnace for High Temperature Applications. In *HASYLAB Annual Report 2003*, volume I. HASYLAB at DESY, Hamburg, 2003.

[12]**K. Saksl**, H. Franz, A. Ehnes, J. Koch-Bodes, and J. Ďurišin. Paris–Edinburgh Large–volume Cell for Structural Studies at High Pressure and High Temperature. In *HASYLAB Annual Report 2003*, volume I. HASYLAB at DESY, Hamburg, 2003.

[13]**K. Saksl**, H. Franz, J. Z. Jiang, and A. Ehnes. In situ crystallisation of bulk-glass forming $Cu_{60}Zr_{20}Ti_{20}$ alloy. In *HASYLAB Annual Report 2002*, volume I. HASYLAB at DESY, Hamburg, 2002.

[14]**K. Saksl**, H. Franz, J. Z. Jiang, and A. Ehnes. EXAFS and XRD study of $Al_{89}La_6Ni_5$ amorphous alloy. In *HASYLAB Annual Report 2002*, volume I. HASYLAB at DESY, Hamburg, 2002.

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Other Papers

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