### Attachment 1: List of published papers and reports

1. M.S. Veshchunov, K. Mueller and A.V. Berdyshev, Molten corium oxidation model. [Nuclear Engineering and Design,](http://www.sciencedirect.com/science?_ob=JournalURL&_cdi=5756&_auth=y&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=5bc1bb0de40acc1a7b0e4129b21d809f) [Volume 235, Issue 22](http://www.sciencedirect.com/science?_ob=IssueURL&_tockey=%23TOC%235756%232005%23997649977%23607278%23FLA%23&_auth=y&view=c&_acct=C000060790&_version=1&_urlVersion=0&_userid=3525703&md5=5ab18ab628df149196a1ac1dbf03d454) , November 2005, Pages 2431-2450.
2. B. Adroguer, F. Bertrand, P. Chatelard, N. Cocuaud, J.P. Van Dorsselaere, L. Bellenfant, D. Knocke, D. Bottomley, V. Vrtilkova, L. Belovsky, K. Mueller, W. Hering, C. Homann, W. Krauss, A. Miassoedov, G. Schanz, M. Steinbrück, J. Stuckert, Z. Hozer, G. Bandini, J. Birchley, T.v. Berlepsch, I. Kleinhietpass, M. Buck, J.A.F. Benitez, E. Virtanen, S. Marguet, G. Azarian, A. Caillaux, H. Plank, A. Boldyrev, M. Veshchunov, V. Kobzar, Y. Zvonarev and A. Goryachev, Core loss during a severe accident (COLOSS). [Nuclear Engineering and Design,](http://www.sciencedirect.com/science?_ob=JournalURL&_cdi=5756&_auth=y&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=5bc1bb0de40acc1a7b0e4129b21d809f) [Volume 235, Issues 2-4](http://www.sciencedirect.com/science?_ob=IssueURL&_tockey=%23TOC%235756%232005%23997649997%23561412%23FLA%23display%23Volume_235,_Issues_2-4,_Pages_123-540_(February_2005)%23tagged%23Volume%23first%3D235%23Issues%23first%3D2%23last%3D4%23spans%3D3%23date%23(February_2005)%23&_auth=y&view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=bac3cc643d1e091c8e1449586b359520) , February 2005, Pages 173-198.
3. M.S. Veshchunov, A.V. Berdyshev, A.V. Boldyrev, A.V. Palagin, V.E. Shestak,  
   M. Steinbrueck, J. Stuckert. "Modelling of B4C oxidation by steam at high  
   temperatures based on separate-effects tests and its application to the  
   bundle experiment QUENCH-07," FZKA 7118, Forschungszentrum Karlsruhe, Juni  
   2005.
4. J. Stuckert, A.V. Boldyrev, A. Miassoedov, A.V. Palagin, G. Schanz, L. Sepold, V.E. Shestak, U. Stegmaier, L. Steinbock, M. Steinbrueck, H. Steiner, M.S. Veshchunov, Experimental and Computational results of the QUENCH-08 Experiment (Reference to QUENCH-07). FZKA 6970, Forschungszentrum Karlsruhe, August 2005.
5. L. Sepold, G. Schanz, M. Steinbruck, J. Stuckert, A. Miassoedov, A. Palagin, M. Veshchunov, “Results of the QUENCH-09 Experiment Compared to QUENCH-07 with Incorporation of B4C Absorber”. Nuclear Technology, 154 (2006) 107-116.
6. M. Steinbrück, M.S. Veshchunov, A.V. Boldyrev and V.E. Shestak, “Oxidation of B4C by steam at high temperatures: New experiments and modeling”. Nucl. Eng.& Des., v. 237, 2007, p. 161-181.
7. M.S. Veshchunov, A. V. Boldyrev, V.E. Shestak and K. Mueller, Analysis of Molten Pool Physico-Chemical Interactions and Interpretation of the PHEBUS FP Tests Observations (*paper accepted for publication in* Nuclear Engineering and Design).
8. M. S. Veshchunov, A. V. Boldyrev and B. Toth,Application of Mechanistic Criteria of Cladding Oxide Shell Failure to the Analysis of Core Degradation Simulated in Bundle Meltdown Tests (*paper submitted to* Nuclear Engineering and Design).
9. V.V. Chudanov, “Models and methods to three-dimensional heat and mass transfer for description of the severe accidents”, Izvestiya of Academy of Sciences, Energetica, №2, 22-37, 2004 (Russian).
10. A.E. Aksenova, V.V. Chudanov, et al., “Numerical simulation of heat and mass transfer processes in a stratified molten pool”, MASCA seminar 2004, Aix-en-Provence, France 10-11 June, 2004, vol.1, pp.241-249. 2004.
11. V.V. Chudanov, A.E. Aksenova, V.A. Pervichko, “CFD to modeling molten core behavior simultaneously with chemical phenomena”. Proc. Of 11th International Topical Meeting on Nuclear Reactor Thermal-Hydraulics (NURETH-11) Popes’ Palace Conference Center, Avignon, France, October 2-6, 2005. CDROM paper 048. 2005.
12. V.V. Chudanov, A.E. Aksenova, V.A. Pervichko, I.G. Plotnikova, A.A. Korotkov, “ “Grid Office” for CFD Pre and Post Processing”, Proc. 17th IMACS World Congress, Paris, France July 11-15, 2005. ISBN 2-915913-02-1, CDROM paper T1-I-57-0970. 2005.
13. V.V. Chudanov, A.E. Aksenova, V.A. Pervichko, I.G. Plotnikova, A.A. Korotkov, “”Grid Office” for CFD Pre and Post Processing, Proc. International Conference on CAE and Computational Technology for Industry, TCNCAE2005, 5 - 8 October, THE PLACE CONVENTO DI SAN DOMENICO, Italy, Lecce, 2005. CDROM.
14. V.V. Chudanov, A.E. Aksenova, V.A. Pervichko, “3D unified CFD approach to thermalhydraulic problems in safety analysis”. Proc. ICONE15. 15th International Conference on Nuclear Engineering April 22-27, 2007, Nagoya, Japan. Publisher ASME, CDROM Paper №ICONE 15-10101. 2007.
15. V.V. Chudanov, “3D CFD methodology for the safety analysis of TEK objects”, 5th International Scientific and Technical Conference «Safety Assurance of NPP with WWER», 29 May – 1 June 2007, Podolsk, Russia, FSUE EDO «GIDROPRESS». 2007. Theses, p.28 + CDROM.