Max-Wertheimer Minerva Center for
Cognitive Processes and Human Performance
Head of Center: Prof. Asher Koriat ראש המרכז פרופ׳ אשר קוריאט

אנו שמחים לארח את

Prof. Boris Velichkovsky

Institute of Psychology III.
Unit of Engineering Psychology and Cognitive Ergonomics, Dresden University of Technology

From Studying Cognitive Systems to Developing Cognitive Technologies

ההרצאה תתקיים **ביום ב' ה- 16 במרץ 2009, בשעה 10:00**

בחדר ההרצאות במעמק"ה, הבניין הרב תכליתי, אוניברסיטת חיפה.

נשמח לראותכם בין אורחינו

המעוניינים באישור כניסה לרכב לאוניברסיטה - אנא שלחו מייל לאתי לברן:

elevran@univ.haifa.ac.il

Instead of abstract, Prof. Velichkovsky preferred to attach short Vita and recent publications:

Boris M. Velichkovsky received his education at Moscow Lomonossow-University (psychology) and Berlin Humboldt-University (physics). In 1990, he became professor of the Department of Neuropsychology at the University of Bielefeld (Germany). Following a NSERC Professorship at the University of Toronto, he assumed his current position of director of the Psychology Institute III, Dresden University of Technology. He is the co-ordinator of EU NEST-Pathfinder project PERCEPT, a member of European Steering Committee for Cognitive Science and other professional boards, past president of the Division of Applied Cognitive Psychology, IAAP. Since 2008, he also is director of Institute of Cognitive Studies at Kurchatov Research Centre in Moscow. He has been invited to give keynote addresses to International Congresses of Psychology and to ACM CHI conferences.

Recent Publications

Burgert, O., Örn, V., Velichkovsky, B.M., Gessat, M., Joos, M., Strauss, G., Tietjen, C., Preim, B. & Hertel, I. (2007). Evaluation of perception performance in neck dissection planning using eye tracking and attention landscapes. *SPIE Medical Imaging: Proceedings of the SPIE-2007*, Paper No. 6516-3, San Diego, USA.

Cornelissen, F.W., Marsman, J.B.C., Renken, R., & Velichkovsky, B.M. (in press). Predicting gaze behavior and cognitive task from cortical activity: A Fixation Based Event Related (FIBER) fMRI study. *Neuroimage*.

Graupner, S.-T., Velichkovsky, B. M., Pannasch, S., & Marx, J. (2007). Surprise, surprise: Two distinct components in the visually evoked distractor effect. *Psychophysiology* (USA), *44*(2), 251-261.

Graupner, S.T., Heubner, M., Pannasch, S. & Velichkovsky, B.M. (2008). Evaluating requirements for gaze-based interaction in a see-through head mounted display. In K.-J. Räihä & A. Duhowski (Eds), *ETRA-2008: Proceedings of the Symposium on Eye Tracking Research & Applications* (pp. 91-94). Palm Beach Gardens, NY: ACM Press.

Kohler, P., Pannasch, S., & Velichkovsky, B.M. (2008). Enhancing mutual awareness, productivity and feeling: Cognitive science approach to design of groupware systems. In P. Saariluoma & H. Isomäki (Eds), *Future Interaction Design II*. Springer: London.

Mojzisch, A., Schilbach, L., Helmert, J. R., Pannasch, S., Velichkovsky, B. M., & Vogeley, K. (2006). The effects of self-involvement on attention, arousal, and facial expression during social interaction with virtual others: A neurophysiological study. *Social Neuroscience*, *1*, 184-195.

Pannasch, S., & Velichkovsky, B. M. (in press). Distractor effect and saccade amplitudes: Further evidence on different modes of processing in free exploration of visual images. *Visual Cognition*.

Pomplun, M., Carbone, E., Sichelschmidt, L., Velichkovsky, B. M., & Ritter, H. (2005). How to disregard irrelevant stimulus dimensions: Evidence from comparative visual search. In W. Kinsner, D. Zhang, Y. Wang & J. Tsai (Eds.), *Proceedings of the 4th IEEE International Conference on Cognitive Informatics (ICCI 2005)* (pp. 183-192): University of California, Irvine, USA.

Schrammel, F., Pannasch, S., Graupner, S.-T., Mojzisch, A., & Velichkovsky, B. M. (in press). Virtual friend or threat? The effects of facial expression and gaze interaction on psychophysiological responses and emotional experience. *Psychophysiology* (USA).

Unema, P. J. A., Pannasch, S., Joos, M., & Velichkovsky, B. M. (2005). Time course of information processing during scene perception: The relationship between saccade amplitude and fixation duration. *Visual Cognition*, *12*(3), 473-494.

Velichkovsky, B. M. (2006). *Cognitive Science: Foundations of Epistemic Research*: Volumes 1 and 2. Moscow: Academia (in Russian)

Velichkovsky, B. M. (2007). Towards an evolutionary framework for human cognitive neuroscience. *Theoretical Biology* (MIT Press), *2*(1), 3-6.

Velichkovsky, B. M., Joos, M., Helmert, J. R., & Pannasch, S. (2005). Two visual systems and their eye movements. In B. G. Bara, L. Barsalou & M. Bucciarelli (Eds.), *Proceedings of the XXVII Conference of the Cognitive Science Society* (pp. 2283-2288). Mahwah, NJ: Lawrence Erlbaum.

Vogel U., Kreye D., Richter B., Bunk G., Reckziegel S., Herold R., Scholles M., Törker M., Grillberger C., Amelung J., Graupner S.-T., Pannasch S., Heubner M., Velichkovsky B.M. (2008). Bi-directional OLED microdisplay for interactive HMD applications. In *Proceedings of the Society for Information Display, SID 2008* (pp. 196-209). San Francisco, USA.