Workshops at ECEM 13 (by May 12, 2005)

"Workshop" means (similar to symposium) a block of 4-6 related contributions, each lasting 15+5 minutes, put together by an organizer, who is responsible for calling and coordinating the presenters and chairing the session. The time slot is 90 minutes for a workshop of 4 participants and 120 minutes for 6 participants, including the chairperson's contributions. One organizer per workshop is entitled to participate at ECEM13 without paying the conference fee.

W. F. Bischof (University of Alberta, Edmonton, Canada):
Formal models of eye fixation behaviour

M. Ferraro, Torino, Italy & G. Boccignone, Salerno, Italy: *Modelling Eye-movement Control via a Search Approach*

W. F. Bischof, Edmonton, Canada, E. Birmingham, A. Kingstone, Vancouver, Canada: *Modeling the Influence of Top-Down Mechanisms on Fixation Behavior*

R. Engbert, Potsdam, Germany: *SWIFT: A Dynamical Model of Saccade Generation during Reading*

C. Paladini, M. Holschneider, R. Kliegl, & R. Engbert, Potsdam, Germany: *The continuous wavelet analysis as a tool to investigate fixational eye movements*

R. Groner & M. Groner, Bern, Switzerland: *Stochastic Latency Mechanisms for Modelling Gaze Durations*

Y. Chen (Harvard Medical School/McLean Hospital, USA):
Cortical mechanisms of smooth pursuit dysfunction in schizophrenia

W. Heide, Celle, Germany, M. Nagel, S. Zapf, C. Erdmann, A. Sprenger, F. Binkofski & R. Lencer, Luebeck, Germany: *Cortical mechanisms smooth pursuit (SP) eye movements driven by retinal or extraretinal signals*

G. Thaker, E. Hong, M. Avila, M. Tagammets & I. Wonodi, Baltimore, USA: *Neuronal correlates of eye tracking deficits in schizophrenia*

R. Lencer, M. Nagel, S. Zaph, A. Sprenger, F. Binkofski & W. Heide, Luebeck, Germany: *Reduced neuronal activity in the V5-complex underlies smooth pursuit deficit in schizophrenia*

Y. Chen, Massachusetts, USA: *Altered cortical and behavioral responses to visual motion in schizophrenia: Sensory processing for eye tracking*

S. Hutton, Brighton, UK: *The role of cortical attentional systems in eye tracking dysfunction*

K.C. Erkelens (University Utrecht, The Netherlands):
Properties of prediction in oculomotor control

C. Erkelens, Utrecht, Germany: *Direction-specific properties of predictive smooth pursuit*

G. Barnes, Manchester, UK: *The importance of expectation in the ability to control the speed, timing and direction of anticipatory smooth pursuit*

M. Shelhamer, Baltimore, USA: *Statistics and modeling of the timing of predictive saccades*

M. Missal, C. de Hemptinne, P. Lefèvre, Brussels, Belgium: *A representation of cognitive expectation in the supplementary eye fields of the Macaque monkey*

John Henderson & Fernanda Ferreira (Michigan State University, USA):
Integrating language and vision

P. Gordon, Chapel Hill, USA: *Interaction of Lexical and Discourse Factors during Reading*

G. Altmann, York, UK: *On the automaticity of language-mediated eye movements*

Z. Griffin, Atlanta, USA: *Where Speakers Look*

M. Crocker, Saarbruecken, Germany: *Interpreting eye-movements in visual scenes: evidence from conflicting processes during spoken comprehension*

F. Ferreira, G.L. Pierce, N.D. Patson, B. Bartek & J.M. Henderson, Michigan, USA: *The influence of concurrent linguistic information on fixation patterns during natural scene viewing*

S. Garrod, Glasgow, Scotland: *Interactions of language and vision restrict "visual world" interpretations*

B. Kersten (University of Bern, Switzerland):
Visual Art and Eye Movements

R. Müri, Bern, Switzerland: *Art, aesthetics, and eye movements a historical approach*

K. Koga, Nagoya, Japan: *Unusual non-conjugate eye positions in Kabuki play and Ukiyoe wood prints.*

Ch. Scheier, Hamburg, Germany: *Processing of visual art: Insights through AttentionTracking*

B. Kersten & D. Stricker, Bern, Switzerland: *Looking without seeing in works of Paul Klee*

B.W. Tatler & N. Wade, Dundee, UK: *The art of eye movements: inspecting initially unseen objects*

J. Zanker, London, UK: *How eye movements can generate motion illusions in Op Art paintings*

R. Kliegl (University of Potsdam, Germany):
Distributed processing across reading fixations

R. Kliegl, A. Nuthmann & R. Engbert, Potsdam, Germany: *The Influence of past, present, and future words on fixation durations*

J. Pynte, Aix-en-Provence, France, & A. Kennedy, Dundee, Scotland: *Cross-linguistic differences in the Dundee corpus*

S. McDonald, R. Carpenter & R. Shillcock, Edinburgh, Scotland: *Modelling saccade latencies in reading as a consequence of independent visual processing in the two hemifields*

R. Reilly, Dublin, Ireland, R. Radach Tallahassee, USA, D. Corbic, Aachen, Germany, & S. Luksaneeyanawin, Bangkok, Thailand: *Comparing reading in English and Thai - The role of spatial word unit segmentation in distributed processing and eye movement control.*

F. Vitu, Marseille, France & G. McConkie, Urbana, USA: *Distinguishing serial and parallel processing accounts of a parafoveal preview function in reading*

K. Rayner, S. Brown & B. Juhasz, Amherst, USA: *Do readers obtain preview benefit from word n+2?*

K. Koga (Nagoya University, Japan) & M.F. Land (University of Sussex, UK)
Non-transactional recording and research technique of eye movements

K. Koga, M. Sukigara & A. Nakagawa, Nagoya, Japan: *How to calibrate eye position data for the infant without verbal communications*

M;F. Land, Brighton, UK: *Recording the eye movements of mantis shrimps and men*

A. Takabayashi & K. Iwata, Toyoake, Japan: *Eye movements of goldfish under the micro-gravity environment*

Marino Menozzi, Zurich, Switzerland: *Mini telemetric system continuously recording field of gaze and movements of eye and head*

P. Majaranta & K.J. Räihä (University of Tampere, Finland):
Communication by gaze interaction - in search of new solutions

M. Donegan, L. Oosthuizen, Oxford, UK, R. Bates, Leicester, UK, G. Daunys, Siauliu, Lithuania, J. P. Hansen, Copenhagen, Danmark, M. Joos, Dresden, Germany, I. Signorile, Torino, Italy & P. Majaranta, Tampere, Finland: *Providing eye control for those who need it most - a study on user requirements*

J. P. Hansen, Copenhagen, Danmark: *Design criteria for gaze typing systems*

O. Spakov & D. Miniotas, Tampere, Finland: *EyeChess: A Tutorial for Endgames with Gaze-Controlled Pieces*

B. M. Velichkovsky, S. Pannasch, M. Joos, J. R. Helmert & S.T. Graupner, Dresden, Germany: *Towards communication of unusual things: Attention, consciousness and, perhaps, feeling*

M. Dorr, M. Boehme & T. Martinetz, Luebeck, Germany, K. Gegenfurtner, Giessen, Germany, E. Barth, Luebeck, Germany: *Analysing and reducing the variability of gaze patterns on natural videos*

D. Grover, East Lansing, USA, T. Delbruck, Zurich, Switzerland & M. King, Lansing, USA: *An eye tracking system using multiple near-infrared channels with special application to efficient eye-based communication*

Marino Menozzi (Swiss Federal Institute of Technology Zürich, Switzerland):
Eye movements in fitting the task to man

Ch. Lange, Garching, Germany: *The development and usage of Dikablis (Digital wireless gaze tracking system)*

A.S. Cohen, M. Menn & N. Studer, Zurich, Switzerland**:** *Eye movement behaviour analysis and detection of information when driving in the Gotthard tunnel and on the open road: A pilot study*

S. Hubalek & Ch. Schierz, Zurich, Switzerland: *Light and eye movement at workstations*

F. Mast, Zurich, Switzerland, N. Newby, Huston, USA, T. Jarchow & L. Young, Massachusetts, USA*: Orientation illusions and eye movements during high-speed artificial gravity*

N. Takahashi, Nagoya, Japan, M. Menozzi & E. Bergande, Zurich, Switzerland: *Horizontal and vertical reading in Japanese*

R. Mueri (University of Bern, Switzerland):
Clinical studies of perceptual and oculomotor dysfunctions

Th. Nyffeler T. Pflugshaupt, R. von Wartburg, P. Wurtz, C.W. Hess & R.M. Müri, Bern, Switzerland: *Oculomotor behaviour in simultanagnosia: A longitudinal case study*

B. Reuter, Ch. Ploner, G. Juckel, E. Herzog & N. Kathmann, Berlin, Germany: *Volitional action and the inhibition of reflexive saccades in patients with focal lesions of the prefrontal cortex and schizophrenia patients*

G. B. Wilhelmsen, Oslo, Norway: *Effects of eye movement rehabilitation on stroke patients*

T. Pflughaupt, R. von Wartburg, P. Wurtz, Th. Nyffeler, C.W. Hess & R.M. Müri, Bern, Switzerland: *The Functional Visual Field: A new method to analyse outcomes of visual field defects.*

D. Spengler, P. Trillenberg, A. Sprenger, A. Kordon, K. Junghanns, W. Heide, F. Hohagen & R. Lencer, Luebeck, Germany: *Evidence from enhanced predictive saccade behaviour for a dysfunction of fronto-striatal circuits in obsessive-compulsive disorder*

T.J. Crawford, S.J. Higham, Lancaster, UK: *Inhibitory control of saccades in Parkinson's Disease and Alzheimer's Disease in relation to effects of normal aging*

R. Radach (Florida State University, USA):
Eye movements in reading: individual differences

K. Rayner, X. Li, C. Williams & K. Cave, Amherst, USA: *Eye movements in reading and other cognitive tasks: How stable are eye movement measures?*

R. Radach, Tallahassee, USA, S. Huestegge, R. Piringer & L. Huestegge, Aachen, Germany: *Eye movements in reading and visuomotor development*

F. Hutzler & A. Jacobs, Berlin, Germany: *Dyslexic readers: No evidence for deficits in oculomotor control or visual perception during reading*

U. Weger & A. Inhoff, Binghamton, USA: *Regression size is predicted by individual differences in Inhibition of Return*

R. Williams, Tallahassee, USA & R. Morris, Columbia, USA: *Relative contributions of working memory and vocabulary knowledge to the process of vocabulary acquisition in silent reading.*

J. Laubrock, R. Kliegl & R. Engbert, Potsdam, Germany: *Eye movements in reading: Modeling age differences with SWIFT*

W. H. Zangemeister (University of Hamburg, Germany) & S.R. Ellis (NASA Ames Research Center, USA):
Lawrence Stark revisited: The control of eye movements and the Noton & Stark scanpath theory

S.R. Ellis, Moffett Field, USA: *Reminiscence of scanpaths past*

C. Privitera, D. Chemyak, T. Fujita, M. Azzariti & L.W. Stark, Berkeley, USA: *The Top-Down Scanpath Theory of Vision and the Role of Bottom-Up Conspicuity Information*

R. Groner & E. Schollerer, Bern, Switzerland: *Local scanpaths versus global scanpaths – is it necessary to extend the Noton-Stark theory?*

S.A. Brandt , M. Olma, Berlin, Germany & T. Donner, Hamburg, Germany: *Cortical mechanisms of selective visual attention - fMRI studies of visual search*

W.H. Zangemeister & Th. Liman Hamburg, Germany: *Parafoveal training and visual imagery in virtual hemianopic normal subjects.*

J.L. Semmlow (Rutgers University, USA) & W. H. Zangemeister (University of Hamburg, Germany):
L.Stark's Dry Dissection, Reading-Path, Saccadic Scene Analysis & Problem Solving

J.L. Semmlow, Piscataway, USA: *'Dry dissection' of motor movements using independent component analysis*

K. Schill, Bremen, Germany: *A Hybrid Model of Attention and Recognition by Information Maximization*

Ch.C. Krischer, Juelich, Germany, W.H. Zangemeister, Hamburg, Germany & R. Meißen, Aachen, Germany: *The reading scanpath for variable top-down and bottom-up processing performance.*

S. Bertel & Ch. Freksa, Bremen, Germany: *Can we use eye tracking to support problem solving?*