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To appear in Volume 19, Number 2 (1996)

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Sexual selection and sex differences in mathematical abilities

David C. Geary, University of Missouri, Columbia

Sexual selection and associated proximate mechanisms influence indirectly the male advantage in solving mathematical word problems and in geometry. Sexual selection resulted in greater elaboration in males than females of the systems that support navigation in 3-dimensional space. Knowledge implicit in these systems reflects an understanding of basic Euclidean geometry and this may be one source of the male advantage in geometry. Males also use more readily than females spatial representations in problem-solving situations which provides them with an advantage in solving word problems and in geometry. Sex differences in engagement in mathematical activities, as influenced by sexual selection and psychosocial factors, are also discussed.

With Commentary from TJ Crow, A Dowker, J. Foss, V. Frith, JW Gilger, C Hummer, LG Humphreys, MM Kimball, D Kornbrot, N Newcombe, DC Rowe, J Sherman, JC Stanley, T Wynn, AH Zohur, and others.

Memory metaphors and the real-life/laboratory controversy: Correspondence versus storehouse conceptions of memory

Asher Koriat and Morris Goldsmith, University of Haifa, Israel

The study of memory is witnessing a spirited clash between proponents of traditional laboratory research and those advocating a more naturalistic approach to the study of "everyday" memory. The debate has generally centered on the "what" (content), "where" (context), and "how" (methods) of memory research. Traditional memory research has been dominated by the *storehouse* metaphor, leading to a focus on the *number* of items remaining in store and accessible to memory, the recent wave of everyday memory research has shifted toward a *correspondence* metaphor, focusing on the *accuracy* of memory in representing past events. This analysis ties together some of the what, where, and how aspects of the "everyday—laboratory" controversy. More importantly, our aim is to promote a more effective exploitation of the correspondence metaphor in *both* naturalistic and laboratory research contexts.

With Commentary from D Algom, R Alterman, HP Bahrick, IM Begg, RA Bjork, MA Conway, H Eichenbaum, K Karn, AR Mayes, G Mazzoni, V Neisser, BL Schwartz, JP Small, E Winograd, DB Wright, and others.

Dynamics of the brain at global and microscopic scales: Neural networks and the EEG

J. J. Wright & D. T. J. Liley, Mental Health Research Institute, Victoria, Australia

Complementarity of EEG and neural network models is considered, and simulations of cortical neuronal interactions at global and microscopic scales are presented. These simulations are based on realistic synaptic densities, coupling symmetries, synaptic gain and dendritic and axonal delays. Experimentally observed ECoG properties are reproduced, and neural network dynamics capable of interactions across scale are demonstrated. Overall cortical stability appears to depend upon cortical/subcortical interactions which in turn offer a mechanism for the control of global dynamics.

With Commentary from D Amit, TH Bullock, P Erdi, WJ Freeman, L Ingber, T Koerner, ZJ Kowalik, H Liljenstrom, M Molnar, PL Nunez, H Preissl, WS Pritchard, I Tsuda, MN Zhadin, and others.

Among the articles to appear in forthcoming issues of BBS:

"Controversies in Neuroscience IV" (Motor learning and synaptic plasticity in the cerebellum); AM Glenberg, "What memory is for"; R-A Müller, "Innateness, autonomy, universality? Neurobiological approaches to language"; GH Heyman, "Resolving the contradictions of addiction"; V Braitenberg, D Heck & F Sultan, "The detection and generation of sequences as a key to cerebellar function: Experiments and theory"; "Controversies in Neuroscience V" (Persistent pain)

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