

Readers by now recognize the name of Jeff Mordkowitz, author of the Science Update column which has become a regular feature of this Newsletter.

Jeff is a Phi Beta Kappa graduate of SUNY at Stony Brook with a B.S. in computer science. He work as a research programmer/coordinator for the Hospital for Joint Diseases Orthopaedic Institute, NYC There his duties include translating and interpreting the needs of investigators working on immunogenetics and molecular biology into a language



the computer can understand, and vice versa.

Jeff 'discovered' general semantics in 1977,
his junior year at college. His interest 'gestated'
for the next two years while he "read <u>Science</u> and

Sanity two or three times."

Jeff attended his first Summer Seminar in 1979 and has attended everyone since, first as a partipant, then as a staff-participant. In addition to his Science Update column, Jeff has recently been appointed an Associate Editor of the <u>Bulletin</u>.

Jeff is presently involved in a long-term project of creating a listener's guide to Korzybski's 1948-49 Winter Holiday Intensive Seminar. [See special announcement in this Newsletter.]

Jeff plans to marry Martha Santer of NYC in September. He hopes to "actively continue working for the growth of the Institute for the next fifty to sixty years."

SCIENCE UPDATE: NEW MECHANISMS OF MEMORY, by Jeff Mordkowitz.

In a paper published in 1941 Korzybski "formidable forewarned his readers of difficulties in this work" attributable to "the well-known difficulty of recanalizing our nervous systems." He also asserted that application [of the extensional devices] may seem simple when explained, yet reorientation the extensional laborious and difficult to acquire as it profound neurological leads to recanalization." Forty- three years later this 'canalization' which attention of Korzybski still captures the neuroscientists, though they now speak in plasticity'. of synaptic terms scientists in particular, G. Lynch and M. have described cellular Baudy, propose underlies mechanism which they particular forms of memory and learning in mammals. d

Their findings show that a significant intra-cellular calcium increase in (following brief periods of high-frequency stimulation) results a long-lasting in increase in cell-surface glutamate receptors should which modify the functional properties of neuronal circuits. In their own words, "This process provides a means through which physiological activity could produce long lasting changes in synaptic chemistry and ultrastructure." Also of note is the degree of linguistic high sophistication they exhibit: "Problems with hypothesis testing arise from the fact that both physiological memory, in behavioral sense, must be assumed to be a higher order phenomenon. "Comparable advances in other areas of neuroscientific research will be covered in future articles.

Korzybski, A.(1941) "General Semantics, Psychiatry, Psychotherapy and Prevention." American Journal of Psychiatry, 98: 203-214.

²Lynch,G. and Baudry,M.(1984) "The Biochemistry of Memory: A New and Specific Hopothesis." Science, 224: 1057-1063.

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