

Nanotech Forum 2021

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The nanoscale world and a new view of the human mass social exception

For nearly all its existence humanity has had minimal knowledge and conscious contact with the nano scale world so humanity's greatest thinkers could not learn from its great richness discovered in the last century and decades. In 1917 even Einstein did not know of the existence of galaxies, had no knowledge of DNA and had hardly any knowledge of what is now called neuroscience. In the 20th century mathematical knowledge increased by more than thousandfold and much the same is true for most major sciences. This talk is about a long-standing project really beginning in the 1960's after Desmond Morris's *The Naked Ape* and Tinbergen's *Animal Behavior*, but in 1973 the latter shared a Nobel Prize in Physiology or Medicine with Konrad Lorenz and Karl von Frisch for their research in the *Biology of Behavior* or *Ethology*. There was still no talk of nanoscale actors working within complex societies of proteins within biological cells, no species were parts of others, so in spite of much interest in analogies, there was no talk yet of self-similarity. The work presented here can be seen as the continuation of a BA thesis, Magnusson MS (1975) "Communication and Social organization in Social Insects and Primates (Humans Included)" strongly motivated by a wish to understand modern human mass social behaviour and the stunning human exception among all animals and life.

Biography

Magnus S. Magnusson, PhD, Emeritus Research Professor, founder, and director of the Human Behavior Laboratory (hbl.hi.is), School of Health Sciences, University of Iceland. Author of the T-system, detection algorithms and software THEMETM (PatternVision.com), initially focusing

on real-time organization of behavior. Co-directed a two-year project "DNA analysis with Theme". Keynotes notably in biology, neuroscience, mathematics, science of religion, proteomics, A.I., robotics and nanoscience. Associate Professor and Deputy Director 1983-1988 in the Museum of Mankind of the French National Museum of Natural History in Paris. Repeatedly, invited Professor at the University of Paris V, VIII & XIII. Now works in formal collaboration between 38 European and American universities initiated 1995 at the University Rene Descartes of Paris V, Sorbonne, based on "Magnusson's analytical model"

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