



**EVOLUTIONARY BIOLOGY OF
SPECIES AND
ORGANIZATIONS**

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New Paradigms for Organic Knowledge Management

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Caveat

- **My view of organisational KM is unique**
 - physics (3½ years from 1957)
 - **computers** (hands-on all generations back to cog-wheel calculators, beginning in 1958)
 - neurophysiology (2+ years as research assistant - signal processing)
 - **evolutionary biology** PhD (Harvard, 1973) - genetic system, systematics
 - personal KM in the sciences with bibliographic search engines
 - **studied epistemology and scientific revolutions** (1977-1979)
 - I bought my first microcomputer in 1980 and began to switch into technical word processing to pay for it
 - 1980's: computer literacy journalism, software tech writing, and documenting Hogan banking systems
- **Last 14+ years with Tenix Defence analysing and designing technical writing environments**
 - building content authoring/management systems
 - now working on cross divisional knowledge management solutions
- ***Combining evolution, epistemology, cybernetics and military affairs reformulates organisational KM***

Scope

- Themes

- Towards a biologically based theory of organisational knowledge
- Technology impacts on the nature and processing of human and organisational knowledge

- Presentation is in three parts:

- Introducing the organisation
- Theory of knowledge and knowledge management for individuals and organisations
- How new concepts are being applied in Tenix Defence

- A lot of ideas - can drill down in discussion later