

1/9/93

Biosystematics, Evolution, & Modern Biology Seminar

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M. Ghiselin: Systematics

① "Systematics is the science of diversity"
- but - what about other sciences,
- so can say "Biosystematics"

② Classification
- provides language, summary, research tools, reference list
- but may not have history

③ Historical classification - phylogeny
• but not always done this way
 e.g. T.H. Huxley - classify by organisms' subjection
 to Laws of Nature
• identification distinct from classification
• "Species"
 - definitions v. important
 - not important whether scientists can
 tell "them" apart but whether the
 organism(s) recognizes groups.

Genealogical Classification vs.

- language problems when all genealogically based

what about chimeras

- what about using two separate classification systems

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Philosophers would say that our perception of what we classify as a table is not that I can see it's a table. J. Roughgarden's lab been doing a

Pat Koechle: Museums & Systematics

J. Roughgarden: Systematics, Ecology, & Geology

Geology -

plate tectonic processes may cause many of the branches in evolution

Classification better

① better understanding of how to do morphological classification

② more characters - especially from molecules

Species concepts

what's wrong with it?

Biological
Morphological

① nobody understands how speciation happens and works.

② the biological species concept makes it unusable for testing theories of evolution because it assumes how species originate

③ the concept may not work... "good" species may not exist.

because once hybridization limits there may be little selection against

John Thomas - also says biological species concept is
very useful & maybe want to have " α & β "
system.

The first part of the book is devoted to a study of the history of the English language from its origin to the present time. It is a very interesting and useful book for all who are interested in the history of the English language.

The second part of the book is devoted to a study of the grammar of the English language. It is a very interesting and useful book for all who are interested in the grammar of the English language.

The third part of the book is devoted to a study of the syntax of the English language. It is a very interesting and useful book for all who are interested in the syntax of the English language.

The fourth part of the book is devoted to a study of the semantics of the English language. It is a very interesting and useful book for all who are interested in the semantics of the English language.

The fifth part of the book is devoted to a study of the phonetics of the English language. It is a very interesting and useful book for all who are interested in the phonetics of the English language.

The sixth part of the book is devoted to a study of the orthography of the English language. It is a very interesting and useful book for all who are interested in the orthography of the English language.

The seventh part of the book is devoted to a study of the lexicology of the English language. It is a very interesting and useful book for all who are interested in the lexicology of the English language.

The eighth part of the book is devoted to a study of the morphology of the English language. It is a very interesting and useful book for all who are interested in the morphology of the English language.

The ninth part of the book is devoted to a study of the syntax of the English language. It is a very interesting and useful book for all who are interested in the syntax of the English language.

The tenth part of the book is devoted to a study of the semantics of the English language. It is a very interesting and useful book for all who are interested in the semantics of the English language.

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