

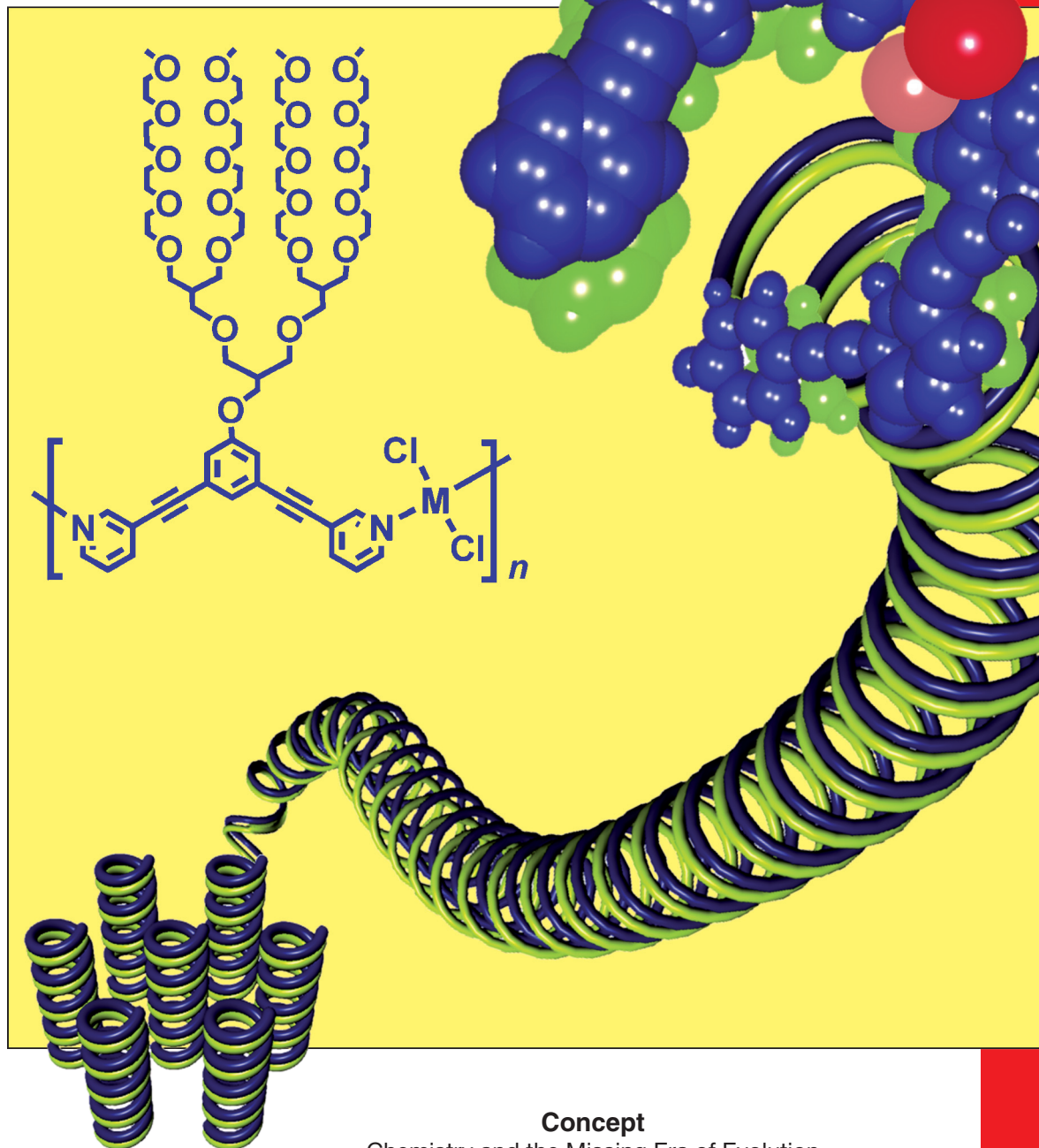
# CHEMISTRY

## A EUROPEAN JOURNAL

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Communications



### Concept

Chemistry and the Missing Era of Evolution

A. G. Cairns-Smith



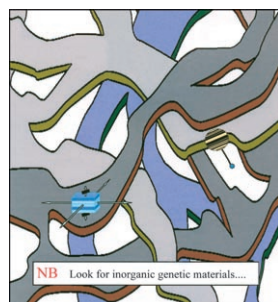
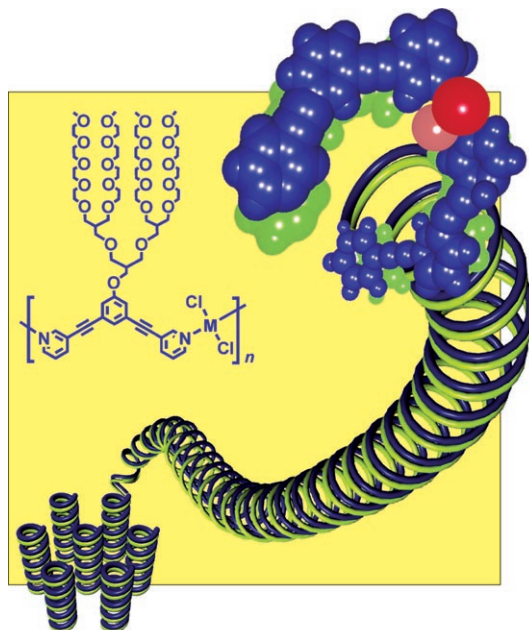
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# The organization...

... of the double-helical conformation is described by M. Lee and co-workers, in their Full Paper on page 3883 ff. The coordination based on  $\text{Cu}^{\text{II}}$  adopts double-helical conformations with the regular grooves, driven by interstranded copper-chloride dimeric interaction. The picture shows that the double-stranded helices self-organize into a 2D columnar structure in the bulk state.

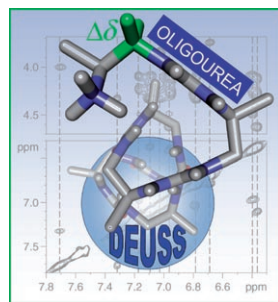
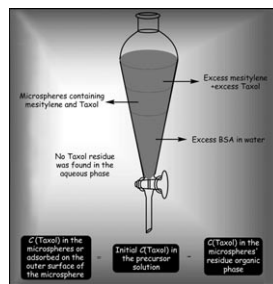


## Inorganic Genetic Materials

In the Concepts article on page 3830 ff., A. G. Cairns-Smith imagines a primitive genetic material, which is like DNA in that it holds information as an irregular stacking sequence of flat units, but is quite unlike DNA in that its chemistry is inorganic and it amplifies its information through crystal growth.

## Sonochemistry

In the Review article on page 3840 ff., A. Gedanken describes the formation of proteinaceous microspheres by the use of high-intensity ultrasound methods. Mechanism of formation and applications (for example, drug delivery) are discussed.



## Conformation Analysis

In their Full Paper on page 3874 ff., G. Guichard et al. describe the latest developments of appropriate methods to detect folding propensity in candidate foldamers by using high-resolution magic-angle-spinning (HRMAS) NMR spectroscopy.

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