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ADDRESSING CLIMATE CHANGE TO CONSERVE EARTH'S RESOURCES FOR FUTURE GENERATIONS

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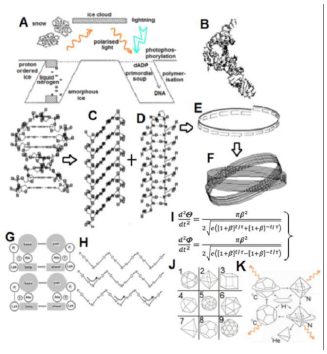
As a Cambridge undergraduate in 1967,I chanced to discover the ferroelectric phase transition in ice crystallised in liquid nitrogen. It was recently confirmed that 'ice XIc' has a phase change at ~72 K, it releases latent energy as λ ~ 4 μ infrared laser light, ice light, just right for activating the deoxynucleotides now known to have been present in Charles Darwin's primordial soup. During an extremely cold ice age, ice XIc formed in pools of liquid nitrogen on Earth's poles. Reflected and polarized by ice in clouds and on Earth's surface, it created DNA in tropical waters. Some formed tRNA analogues, transport DNAs, they fed 'coacervate' proto-cells with life's ingredients including amino-acids. Long before ribosomes and protein synthesis evolved, they formed minion complexes, neutralizing DNA's acidity. Linus Pauling's flat anti-parallel β-pleated-sheet proteins hold DNA uncoiled, creating a structure facilitating chromosome packing and replication. Chains of oscillating H-bonds connecting amino-acid ω-amines to DNA phosphates propel protons along adjacent tunnels sufficiently fast to fuse with obstructing atomic nuclei. If the energy generated by tanks of genetically modified bacteria could be harnessed to national grids, it would complement wind, wave and photo-electric energy sources. Clean nuclear fusion energy would prevent climate change, conserving scarce resources for future generations. Science Uncoiled, Melrose Press, describes my other research, explaining how diesel engine air pollution and selenium deficiency cause Alzheimer's disease and heart attacks. As my study of muscle contraction illustrated, biological energy coupling is highly efficient. Allowing evolved biological tricks to resolve problems arising from inefficient thermodynamic engines makes sense. Windmills and water wheels afforded adequate energy before fossil fuel combustion took over. By careful recycling, economy and shared wisdom, Earth's limited resources can be conserved for our progeny and the welfare of wild animals and plants.



A origin of life B tRNA showing hole C uncoiled DNA D β-pleated sheet E 21-unit coil F replicating minions G end view showing tunnels, T H concatenated H-bonds I Tyger relativity equation J nine polyhedrons K carbon-nitrogen fusion cycle

Biography

Michael graduated from Cambridge University in Chemistry and University College London in Biochemistry, trained in Clinical Biochemistry and programmed IMB-360 and Commodore PET computers. His PhD thesis on Some Biochemical Consequences of a Consistent Framework for the Origin of Life was refused publication in 1988. Since then, he collected literature supporting its proposals. Despite recurrent health problems preventing laboratory access, extensive correspondence with prospective peers occasionally suggests corrections to his successful theory of everything. His proposals for preventing heart attacks, strokes, cancers, diabetes, Alzheimer's disease and other maladies, artificial intelligence modelled on minions and energy conservation call for urgent implementation and public education.

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