

WHAT PHYSICS FOR THE NEXT CENTURY?

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My answer to this, to make sure that this point is represented in this Conference, is **BIO**physics. It will be nonlinear, and will (hopefully) involve deeper collaboration between biologists and physicists than presently exists. It will probably concentrate on electrical information transfer, and means by which energy can be transferred through condensed matter as quasi-particles, without dissipation. Some good work has been done in this area already, but very little. The biggest problem that Theoretical Biology is nowadays almost non-existent, in contrast to the situation in Physics.

An introduction to this area may be found in the following paper, which interested colleagues are invited to write for: Woodward, A.M. & Kell, D.B. (1990) On the nonlinear dielectric properties of biological systems. Saccharomyces cerevisiae. Bioelectrochem. Bioenerg., 24, 83-100.