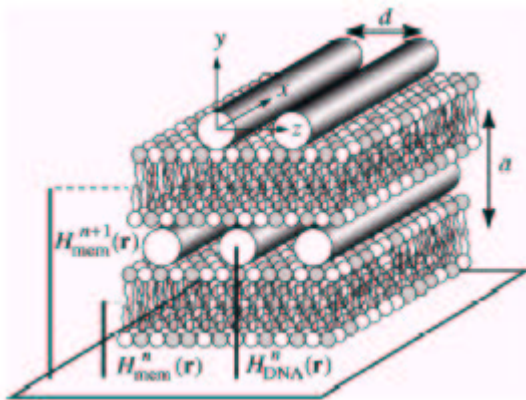


Faculty of Physics, Belgrade University
December 20-30, 2004

WUS-Austria Brain Gain Mini-Course

'Modern Physics of Bio-molecular Materials''

Prof. Dr. Leonardo Golubovic
West Virginia University, USA



This short course addresses the physics of biologically significant systems such as DNA molecules and lipid (cell) membranes. The course deals also with the physics of technologically important complex fluid systems, such as microemulsions, liposomes,

and DNA-cationic lipid complexes used in modern gene therapy. The course will demonstrate how much can be learned on these bio-molecular materials by using theoretical methods of the Statistical and Condensed Matter Physics.

Professor Golubovic is a theoretical physicist well known of his results in the Statistical Physics of Soft Condensed Matter. He is the recipient of the 2001 Marko Jaric Prize for Physics, for scientific results in the areas of the interfacial dynamics and of the statistical physics of fluctuating random surfaces, membranes, and complex fluids.