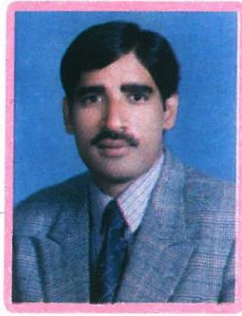


Third Winner



Project Title:

Peristalsis of Non-Newtonian Fluids

Researcher:

Tasawar Hayat (Ph.D.)

Country:

Pakistan

University:

Quaid-i-Azam

Dr. Taswar Hayat, the Ph.D. graduate of Quaid-i-Azam University, Pakistan, has the honor of receiving some prestigious awards from Pakistan Academy of Sciences and the Third world Academy of Sciences, moreover he has been selected associate member of ICTP in 2003, in recognition of his works to the development of mathematics. He has published 112 research papers at the age of 34 out of which 109 were in international journals.

Dr. Hayat's work is mainly in biomechanics, waves mechanics, and fluid mechanics. His works on peristaltic motion has applications in plant physiology, biomedical systems, powder technology and etc. Dr. Hayat modeled a number of barriers for the reduction of noise pollution programme.

He proposed scattering of waves in presence of sources. He also dealt the scattering of acoustic waves from elastic structures which, have a particular characteristic in air and seawater. Moreover, Dr. Hayat has investigated scattering in homogenous biisotropic medium and shown a contradiction to Prezdziecki's assertion, in addition to a good number of other works, which considered as distinguished if not unique.