



**THIRD
INTERNATIONAL SYMPOSIUM**

mpc'91

● **MECHANICS OF POLYMER
COMPOSITES**

● **Institute of Theoretical and Applied Mechanics
Czechoslovak Academy of Sciences
Prague, Czechoslovakia**

Among many meetings of scientists and specialists serving for exchange of ideas, knowledges and experiences on composite materials the Prague symposium directed already second times to the mechanics of polymer composites has win the significant position.

The information explosion of partial knowledge about the structure, interactive and synergic actions, laws of deformation and fracture of systems, deposed from many different compounds, made possible, it is true, to assess well in many cases their mechanical, physical and performance characteristics. Nevertheless, we was not successful to synthetize these knowledge into physically founded general theory so far. Many specialists even take a manage of the theory for material systems which could originate practically in endless number of variation as impossible.

In spite of that, on the way to the general synthesis it already were made first steps which were significantly shared even by Czechoslovak school of composite research. The importance of it is preferably in the fact that it passes from different, more or less lifelike physical or mathematical models to the real description of composite systems and definition of the weight of single entering parameters in view of both the type of material and the kind of watched property.

For all grate effort of the row of scientist remains, however, still opened the extraordinarily complex question of interface, it is not chared up the problem of disipation and transmission of energy and stays, therefore, opened also the problem of a synergy and of a possibility of its control. Still it is laying before us the task to compose the mosaic of complex picture of composites and their behavior in different condition from individual crocks and, of course the aimed supplement of blanks in this ficture.

It was my wish in order this already third Prague Symposium on polymer composites contribute to the mentioned goals.

I should like to thank to the active participants in the Symposium for their valuable contributions, namely also to the senior research workers of Czechoslovak scientific research for their survey papers on the research results in the past five years, as well as to the authors of invited papers. In the same way I wish to give thanks and acknowledgement to all persons who share the organization of the Symposium.

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