



RIO DE JANEIRO, BRAZIL
JULY 12 – 14, 2006

The III-BCR was held at Marina Palace Hotel, in Rio de Janeiro, RJ, Brazil, and had the support of the Brazilian Society of Engineering and Mechanical Sciences (ABCM), a co-sister of the American Society of Mechanical Engineering (ASME), through its Committee of Rheology and Non-Newtonian Fluids. It has been co-organized by Pontifícia Universidade Católica do Rio de Janeiro (PUC-RJ), Laboratório Nacional de Computação Científica (LNCC/MCT), Universidade Federal do Rio de Janeiro (UFRJ) and Universidade de São Paulo - São Carlos (USP-SC).

The first issue of the Conference was held in 2001 at LNCC, in the city of Petrópolis, RJ, with the name of I-Brazilian Conference on Non-Newtonian Fluid Mechanics, creating a specific national forum to discuss about non-Newtonian fluids and rheological aspects. At the same time it happened the foundation of the Committee of Rheology and Non-Newtonian Fluids of ABCM, which conceived the Conference and keep on with the responsibility to organize the Brazilian Conference and to promote the aggregation of the existing research groups acting in the various areas: experimental, theoretical, numerical and computational.

The second issue of the Conference, that was already called II-Brazilian Conference on Rheology (II-BCR), was held in the city of Rio de Janeiro, RJ, at Marina Palace Hotel, in July 2004, amplified, with increasingly success, the Brazilian community participation and had the attention of some very welcome foreign groups.

The present III-BCR maintained the workshop format, presenting four invited lecturers, Brazilian and foreign, and included forty four papers selected for oral presentation, from national and some foreign research groups. Following the well succeeded experience of the previous BCR's, the non-existing parallel sessions format was planned to

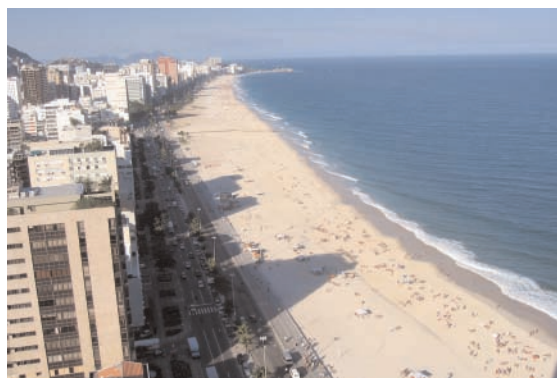
facilitate the interaction among the people from experimental, numerical and theoretical areas, comprising work presentations, communications and discussions.

The opening of the first session was made by a keynote lecture given by I. Frigaard on "Moving bubbles and particles in yield stress fluids", followed by three technical sessions until the end of the afternoon. In the second day, P. J. Carreau opened the morning session with a keynote lecture on "Rheological properties of glass fiber filled polymers: facts and challenges", followed by a technical session. Starting the afternoon session, M. A. Rao gave a keynote lecture on "Rheological behavior of selected foods" followed by two technical sessions. In the last day, M. S. Carvalho opened the activities with a keynote lecture about the "Role of Rheology in coating process".

In this III-Brazilian Conference on Rheology, there have been contributions to several topics, such as: rheology of polymeric systems, characterization, morphology, free boundary problems, forced convection, drilling operation simulations, viscoplastic, viscoelastic and pseudoplastic materials, film coating, flow in porous media, crystallization, emulsions, petroleum, rheological measurements, polymer solubility, rheology of mud and clay, asphalt and concrete, food products, applied computational methods, stabilized numerical methods, computational rheology of biological fluids, parameter sensitivity analysis.

Beside the auditorium where the technical session took place, there was a show room with an exposition of rheology equipments from the company sponsors: DP-Union, Braseq, Altmann, Polimate and Precitech. An acknowledge to the Brazilian Council for Scientific and Technological Development (CNPq) and to the Rio de Janeiro State Foundation for Research Support (Faperj) is also very fair.

Also during this Conference there was the ABCM/Committee of Rheology summit meeting, that identified the evident success of the Conference, with high-level discussions, interesting and up-to-date themes, and an increase of participating areas and researchers, consolidating the aggregation of the rheological community in Brazil.



Leblon beach in Rio de Janeiro, view from Marina Palace Hotel

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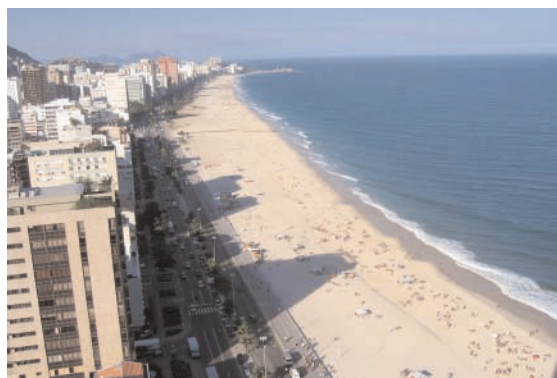
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