

RIO DE JANEIRO, BRAZIL
MAY 10 – 11, 2011



Figure 1 (above):
Rio de Janeiro city, Brazil
(cover of the proceedings).

Figure 2:
Photo of participants 1st
Brazilian Congress of Rheology
(CBR 2011).

The 1st Brazilian Congress of Rheology (CBR 2011) was held at Federation of Industries of the State of Rio de Janeiro (FIRJAN), in Rio de Janeiro, Brazil (Figure 1). It was organized by Brazilian Association of Rheology (ABR) and co-organized by Federal University of Rio de Janeiro, Federal University Rural of Rio de Janeiro, Federal University of Amazonas, Federal University of Ceará, Federal University of Sergipe, University State of São Paulo, Federal University of Pernambuco, Federal University of Minas Gerais, Federal University of Bahia, University State of Feira de Santana and Federal University of Rio Grande do Sul.

Consolidated as the most important event in the area of rheology in Brazil, the CBR 2011 encompassed in its scope: viscosity, viscoelasticity, dynamic measurements, kinetic, mechanical, fluid processing, mathematical models; with more than 400 participants (Figure 2), in which includ-

ed researchers, professors, engineers, students, technicians and scientific cooperation by the national and international rheology community. It was designed to be the driver of a leap into a new level regarding science, technology and innovation in the themes as Food, Pharmaceuticals, Polymers and Petroleum, with a view to the development of the future of our country and South America.

The opening of the congress of rheology was in the presence of the executive committee: Cheila Mothé, Gerson Coelho, Walter Suemitsu, Regina Lago, Alberto Ermida, Giselia Cardoso, Carla Reis, Eliana Sérvulo, Suzana Lannes and Michelle Mothé. The meeting was a complete event schedule, including: presentation of lectures and mini-courses, ninety-four scientific papers selected for poster presentation and honorable mention awards to the three best entries, and a special award to Prof. M.A. Rao (Cornell University/USA), – as Honorary Member of the Brazilian Association of Rheology for their contribution in the field of Rheology and support to the exchange students between Brazil and United States – exhibition material, information and equipment's exhibition by the sponsors / companies and book's exhibition of rheology and delivery of material to the participants of the congress, which included a folder with brochures and corporate brochures, informational materials, conference proceedings and a CD with information about the congress.

Some of the scientific papers titles included in food area: Time-dependent rheological behavior of tomato juice, Evaluation of the interaction between protein and soy polysaccharide on the stability and rheology of emulsions, Rheological Evaluation of isonitrogenous gels of different proteins, Characterization of fractions of cashew gum by rheological analysis and chromatography, Functionality of different hydrocolloids on the structure of an ice cream, Influence of tempera-



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ture and strain rate on the viscosity of cassava starch gel, Honey from Brazil, Spain and France: A rheological study. In pharmaceutical area: Rheological characterization of cosmetics, Sensory analysis of cosmetics, Rheology of microemulsions and liquid crystals, Determination of temperature sol-gel of thermoreversible poloxamer gels in the treatment of burn. In the polymer area: Rheological analysis of blends PVDF/PMMA, Evaluation of interface fiber/polymer matrix in composites with fiber PU curaua by dynamic tests, Rheological properties during processing of cured elastomers, Rheological behavior of compatibilized blends of polyamide and SEBS with nanoparticles, Effect of addition of polyaniline in the rheological behavior of acrylic paints, Influence of the antioxidant and the time spent on the rheological behavior of polypropylene, Influence of basal spacing of clay in the viscoelastic behavior of polymeric materials, Polypropylene with addition of nanoclays. In the petroleum, biofuels and derivatives area: Rheological Study of medium, heavy and extra heavy oil from Brazil, Evaluation of viscosity of the oil after the foaming, Rheological Modeling of a new fluid oil well drilling, Procedures for construction of master curves for asphaltic materials, Rheological characterization of asphalt binder additive with ground rubber from recycled tires, Influence of the kinematic viscosity of diesel with biodiesel blends of cotton, sunflower, palm oil and tallow, Effect of temperature on the rheological behavior of stillage from ethanol processing of cane sugar, Revision of a rheological study of liquefied natural gas (LNG).

The 1st Brazilian Congress of Rheology (CBR 2011) contributed with the following topics, such as: "Practical Applications of Rheological Properties in the Process of Food" which was brilliantly presented by Alfredo Vitali, who opened the talks at the first day of the event, followed by Hans M. Petri, who introduced the subject on "Fundamental and Advanced Methods of Rheometry - Applied in Emulsions and Gels". In the afternoon, Marcio Coutinho had contributed with relevant information about the "Rheology Applied in the Consistency of Natural Polymers", followed by the conference "Rheology of Asphalts" presented by Leni Leite. In addition to lectures, at the first day, the following mini-courses, "Rheological Behavior of Food" and "Nanocomposites" delivered by Suzana Lannes and Fatima Marques and a parallel session of posters were held.

On the second day of the event, work began with the session on "Rheology, Processing and Crystallization of Polymeric Nanocomposites" presented in a way very informative by Rosario Bretas, followed by Jorge de Almeida Rodrigues Jr, with a lecture on "Rheology of associative micellar systems and their applications in the oil industry." Before the coffee-break, the lecture was delivered by Rafael G. Pileggi on "Rheological Challenges towards concrete eco-efficient". The afternoon was started by the lecture "Rheology as a tool for studying and monitoring the processing of starchy foods" performed by Carlos Piler de Carvalho Silva, followed by the Conference "Review of Yield Stress Techniques using Rotational Rheometers" performed by John Casola. Contributing to relevant information in the field of oil and derivatives, Carlos Henrique M. Carvalho, gave a talk on "Rheology of extra-heavy oils." In addition to lectures on the second day the following mini-courses were performed: "Rheology of Pharmacies", by Marli Miriam, "Polysaccharides in Solution" given by Lea Maria Lopes and "Rheology Methods in Asphalt" conducted by Adalberto Leandro Faxina.

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