

# THE 3<sup>RD</sup> INTERNATIONAL CONFERENCE OF THE HELLENIC SOCIETY OF RHEOLOGY (HSR)

(Dedicated to Professor Andreas Acrivos on the occasion of his retirement from the City College of the City University of New York)

**PATRAS, GREECE  
JUNE 10<sup>TH</sup> - 14<sup>TH</sup>, 2001**

The third International Conference of the Hellenic Society of Rheology (HSR) took place in Patras, Greece, in June 10-14, 2001. It was co-organized by the Institute of Chemical Engineering and High-Temperature Chemical Processes (ICE/HT-FORTH), the University of Patras (Department of Chemical Engineering), and the National Technical University of Athens (Department of Mining and Metallurgical Engineering). The Conference was a special one, since it was dedicated to Professor Andreas Acrivos, one of the most influential chemical engineers of the last 50 years, on the occasion of his retirement from the City College of the City University of New York, where he held the A. Einstein Chair at the Levich Institute. Professor Acrivos' research interests lie in the general areas of Applied Mathematics, Newtonian and non-Newtonian Fluid Mechanics, Transport Phenomena and, currently, in the rheology of concentrated suspensions and the study of the effective properties of two-phase materials. He has published more than 180 papers in well-reputed journals, and has graduated a large number of Ph.D. students who, in their majority, have become leading scientists and engineers. His academic tree includes more than 400 members. He has received a number of distinguished awards, which include election to the U.S. National Academy of Engineering, the U.S. National Academy of Sciences, and the U.S. Academy of Arts and Sciences.

In order to honor Professor Acrivos, HSR had invited a number of his former students, academic descendents and associates whose career has been influenced by him, as well as a fair number of internationally recognized researchers to participate in the Conference. Almost all of them gladly participated in the Conference as invited lecturers. In total, more than about 100 people attended the Conference and its scientific program which included invited lectures spread in 6 different sessions which were dedicated to Professor Acrivos, oral presentations and a poster session. They covered a broad range of topics encompassing all areas of the general theme of Rheology: Polymer melts and solutions, colloids and suspensions, molecular modeling and simulations, and experimental, theoretical, and computational fluid dynamics.

The Conference was opened by the welcome remarks of Professor J. Tsamopoulos (current President of HSR), Professor C. Vayenas (Vice Rector of the University of Patras) and Dr. V. Mavrantzas (current Secretary/Treasurer of HSR). In the first day, the first four of the six sessions dedicated to Professor Acrivos were presented with invited lectures in the areas of suspensions-particulates, polymer dynamics and Newtonian fluid mechanics. Speakers included Professors J. D. Goddard, D. Barthes-Biesel, A. Nir, W. B. Russel, R. H. Davis, J.F. Brady, F. A. Gadala-Maria, W. L. Olbricht, N.J. Wagner, L. G. Leal, G. Marrucci, L. A. Archer, J. P. Oberhauser, C. J. S. Petrie, W. R. Schowalter, R. Mauri, G. S. Triantafyllou, N. A. Pelekasis and S. Kim. In the second day, two additional sessions were held, also dedicated to Professor Acrivos, with presentations from Professors J.R.A. Pearson, R.I. Tanner, K. Walters, J.-M. Piau and M. Denn in the session of non-Newtonian Fluid Mechanics, and a plenary talk by Professor Acrivos on "Particle migration and segregation in suspension flows undergoing shear". The rest of the program included oral presentations and a poster session from non-invited participants in the areas of polymer rheology, drops and particulates, suspensions-colloids, bio-rheology, computational rheology, polymer processing, and theory-modeling.

In addition to the scientific program, the social program of the Conference was also very interesting. This included a tour to the archaeological site of Olympia, a reception by the Director of ICE/HT-FORTH (Professor A. Payatakes) and Researchers of the Institute followed by dinner, and the formal Conference dinner on June 13<sup>th</sup>, where HSR and Professor Acrivos celebrated his 65<sup>th</sup> birthday. During the Conference, commemorative tablets were awarded to Professor Acrivos by the Vice Rector of the University of Patras (Professor C. Vayenas) and the Director of ICE/HT-FORTH (Professor A. Payatakes). Gifts were also presented to Professor Acrivos by the HSR and friends of his.

A complete list of participants, the program of the Conference and photos highlighting moments from the scientific and technical program of the Conference are posted on the official

site of the Society (<http://esperia.iesl.forth.gr/~hsr/Hsr2001.htm>). The Abstracts of the presentations given in the Conference were compiled in a Book, which is also posted there. Extended versions of some of the papers presented at the Conference appeared in *Journal of Non-Newtonian Fluid Mechanics* 102:2 (2002) 111-473. The Organizing and Scientific Committees of the Conference are grateful to Prof. Ken Walters, editor of *Journal of Non-Newtonian Fluid Mechanics*, for providing this opportunity in honor of Prof. Acrivos.

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## Eurorheo 2002-01

Joint Meeting of British, Italian,  
Portuguese and Spanish Rheologists



Torremolinos - Málaga (Spain)  
April 24-26, 2002



*The European Society of Rheology*



*Grupo Español de Reología*



*Sociedade Portuguesa de Reologia*

**S.I.R.** *Società Italiana di Reologia*



*The British Society of Rheology*

### Local Committee

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### Conference Topics

Constitutive Equations, Theory and Molecular Theories / Electro and Magnetorheology / Fluid Mechanics and Numerical Simulation / Food Rheology and Biorheology / Industrial Rheology / Polymer Rheology and Processing / Rheometry, Experimental Methods and Instrumentation / Suspensions, Emulsions and Foams, Gels

### Conference Address

Eurorheo2002-01  
Departamento de Ingeniería Química; Universidad de Sevilla  
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Tlf.: +34 95455 7179; Fax: +34 95455 7134  
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### Registration Fees (by February 1<sup>st</sup>)

Delegates	360 Euros
BSR/GER/SIR/SPR Members	285 Euros
Students	180 Euros

Late registrants will be charged an additional 20% fee

### Conference Venue

The conference will be held at Amaragua Hotel located at "La Carihuela" beach, Torremolinos.

### Call for Papers/Posters

Authors are invited to submit an abstract (not exceeding 200 words) to the Conference Address by November 1<sup>st</sup>, 2001. Submission of abstracts by e-mail or via web page is strongly encouraged. Extended abstract of all accepted presentations will be published in a book of proceedings. The official language will be English.