

Materials Research - Revista Ibero-americana de Materiais

Rigorous, but fair and educative!

This issue of *Materials Research* contains selected papers from the “International Symposium on High Temperature Corrosion in Energy Related Systems”, HTCERS, held in Angra dos Reis, RJ, in September 2002. The symposium was organized to discuss the materials aspects relevant to this field, taking into account the increasing importance of thermal generation in the future energy matrix of Brazil, as evidenced by the forecast for annual growth in electric energy consumption during the present decade. While still heavily dependent on hydroelectric generation, the predicted electric energy supply will experience a diversification of sources, with the largest contribution coming from thermal generation. Natural gas will be the main fuel for thermal generation in Brazil, increasing its contribution in the energy matrix from 3% nowadays to around 10% in the near future. Compared to other fossil fuels, the use of natural gas has a less detrimental effect on the environment. However, its use does not prevent or reduce degradation of materials at high temperatures, as observed in most industrial processes.

The symposium offered a unique opportunity for engineers and scientist from our community to interact with many outstanding specialists in the field. The topics covered

in the event included Gas Turbines, Gasifiers, Combustion Engines, Waste Incinerators, Coal Fired Boilers, Power Plants, Petrochemical Industry and Fuel Cells. Total attendance of HTCERS reached 80 participants and the international character was clearly achieved, with 34 foreign participants, from 15 different countries. The distribution of delegates showed an interesting mix, with 25 participants from Universities, 18 from Research Centers and 18 from Industry, besides students and independent professionals.

Invited Editors for this issue were Prof. Fernando Rizzo (Associate Editor - Materials Research), Prof. Dave Douglass (Editor - Oxidation of Metals) and Prof. Brian Gleeson (Associate Editor - Oxidation of Metals). Funding for this number was provided by FINEP, through the Metal-Mechanics Network (RECOPE program) and CNPq, through an Editorial grant. Support from the Department of Materials Engineering at UFSCar (DEMa, LaMaV and NIT) is gratefully acknowledged. Thanks are also given to ABC, ABM and ABPol for their help on advertising the journal and managing their member subscriptions.

Fernando Rizzo
Guest Editor

We deeply thank the guest editor, professor Fernando Rizzo, for setting up such interesting, updated thematic issue of *Materials Research* on High Temperature Corrosion in Energy Related Systems. This will certainly be an invaluable addition to our collection.

Edgar Dutra Zanotto
Editor-in-chief
30-1-2004