

Press Release for IAPWS Annual Meeting in Buenos Aires, Argentina

July 2002

Sixty nine scientists and engineers from **thirteen** countries attended the annual meetings of the International Association for the Properties of Water and Steam (IAPWS), July 22-26 in Buenos Aires, Argentina. IAPWS serves as a forum where academic scientists and engineers from the power industry can communicate problems and solutions to each other. IAPWS has traditionally concentrated on the science underlying the thermodynamics and chemistry in steam power plants, but is broadening into other aspects of power generation.

A symposium, Advances in Basic and Applied Research in Hydrothermal Systems, highlighted the various features of IAPWS. Presentations both on the core thermodynamic topics and on advanced energy generation systems were included.

IAPWS has recognized two new directions in the power industry and is moving to fill the properties needs. A major issue is the chemical properties of steam and the interaction of steam with materials in advanced power plants with temperatures above 600°C and pressures above 300 bar. The second direction is driven by the use of combustion turbines with pressures of 30 bar, where older formulations for the properties of air and combustion product gases are inadequate. Parties interested in contributing to these efforts should contact their national committees on the IAPWS website (see below).

IAPWS approved Certified Research Needs (ICRNs) on the need for experimental data on thermodynamic properties of Metastable Steam and on the need for new formulations of thermophysical properties of humid air and combustion gases. The intent of ICRNs is to state to the scientific, engineering, and funding communities that a definite need exists and to promote the work to satisfy the need. IAPWS does not provide funding, but IAPWS ICRN sponsors will provide assistance for researchers seeking funding.

The working group on Power Cycle chemistry exchanges information on the chemical problems in steam power plants world wide. The electrochemical monitoring of power cycles and corrosion were important topics.

IAPWS will meet in Denmark next year, tentatively August 24-29, 2003. In the following year, IAPWS will present the 14th Conference on the Properties of Water and Steam in Kyoto, Japan, August 29-September 3, 2004.

IAPWS maintains a website with more information at www.iapws.org. Releases and Guidelines are published at this site. Minutes of the meeting will appear there shortly.

Attachment 13

People interested in IAPWS activities should contact the chairman of their IAPWS National Committee (see website) or the IAPWS Executive Secretary, Dr Barry Dooley, EPRI, 3412 Hillview Ave, Palo Alto, California 94303, USA.