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Residual Gases in High-Vacuum Systems

A N international symposium under the patronage of the Consiglio Nazionale delle Ricerche will be held September 23-25 at Como, Italy, on the subject of residual gases in electron tubes and related high-vacuum systems.

The technical sessions, which will be held in the building of the Provincial Administration of Como, will deal with the following main topics: (1) residual gases and final vacuum in transmitting tubes, television tubes, receiving tubes, and other high-vacuum systems such as accelerators; (2) method of measuring residual gases during the manufacture and life of tubes; (3) origin of residual gases, studies on the condition of internal surfaces of tubes and their gas adsorption and desorption, and effects caused by the surface alterations due to the gas adsorption; (4) influence of residual gases on tube and cathode life; (5) removal of gases during the production of electron tubes, including research on pumping systems and the influence of pumping methods on residual gases; (6) removal of gases during the production and life of the tubes including the getter in transmitting tubes, receiving tubes, and cathode-ray tubes, the nonflashing getters, and getter pumps; (7) getter activity for various gases and gas mixtures; and (8) techniques for measuring getter activity.

Communications may be delivered in Italian, German, French, or preferably in English, and the proceedings will be published. Summaries (about 40 typewritten lines) of proposed papers should be sent in English and in French to the Secretariat, c/o Società Italiana di Fisica, 50, Via Saldini, Milan, Italy, not later than August 31. Further information on the symposium as it becomes available may be obtained from the Secretariat.

Macromolecules

PHYSICAL behavior of macromolecular substances, macromolecular substances in solution, molecular processes and kinetics of polymerization reactions, the chemistry of organic and inorganic macromolecular substances, and the behavior of macromolecular natural substances are the topics to be covered at an international symposium to be held October 12–16 in Wiesbaden, Germany. The symposium will be under the auspices of the Commission on Macromolecules of the International Union of Pure and Applied Chemistry in collaboration with the International Unions of Pure and Applied Physics, Biological Sciences, and Crystallography.

The program provides for one plenary paper lasting approximately one hour and five main papers of 30-50 minutes each, to be presented during each morning session. The main papers will be delivered simultaneously in two separate sessions. Afternoon sessions will be devoted to discussions of these papers and also to discussions of short communications previously submitted and circulated in the form of preprints. The official languages of the meeting are English, French, and