Materials Interactions Relevant to the Pulp, Paper, and Wood Industries
Materials Interactions Relevant to the Pulp, Paper, and Wood Industries

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MATERIALS RESEARCH SOCIETY SYMPOSIUM PROCEEDINGS
Preface

The first endeavor of its kind by MRS to incorporate pulp, paper and wood as topics of a Materials Research Symposium culminated in Symposium U: Materials Interactions Relevant to the Pulp, Paper and Wood Industries. The symposium demonstrated that wood and paper, although often overlooked as materials by the materials research community, provide a vibrant field for materials research. Of special interest to materials researchers is the interaction between pulp, paper and wood with other materials. This general topic was divided into categories that constituted the themes for the five sessions of the symposium: 1) wood/polymer composites, 2) fiber/fiber interactions, 3) fiber/water interactions, 4) papermaking and coating processes, and 5) surface interactions: fillers and pigments. One recurrent problem discussed throughout the symposium was the need to discover new ways to promote intimate and effective interactions between the highly polar surfaces of wood, paper and cellulose and materials whose surfaces might tend to be non-polar in nature.

The presentations at the symposium were almost equally divided into contributions from government laboratories, industrial laboratories, and universities. Countries represented by speakers were the United States, Canada, Sweden and Finland. Evidence of the timely nature of the symposium was its co-sponsorship by TAPPI, the Technical Association of the Pulp and Paper Industries, and by the financial support of industry (Pfizer Inc. and International Paper), DOE Office of Industrial Programs and the NSF.

Daniel F. Caulfield
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MATERIALS RESEARCH SOCIETY SYMPOSIUM PROCEEDINGS


Earlier Materials Research Society Symposium Proceedings listed in the back.