

NISTIR 6242

ANNUAL CONFERENCE ON FIRE RESEARCH
Book of Abstracts
November 2-5, 1998

Kellie Ann Beall, Editor

Building and Fire Research Laboratory
Gaithersburg, Maryland 20899

NIST

United States Department of Commerce
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U.S. Department of Commerce
William M. Daley, *Secretary*
Technology Administration
Gary Bachula, *Acting Under Secretary for Technology*
National Institute of Standards and Technology
Raymond G. Kammer, *Director*

INTRODUCTION

The NIST Annual Conference on Fire Research has long been the prime forum for the presentation and discussion of the latest advances in the science of fire and the engineering of fire safety. Hundreds of billions of dollars of products and services are involved in fire safety decisions each year. New technology is changing the way those products are developed, manufactured, evaluated, and used.

This conference enables all interested parties to hear of and discuss advances in fire science, with the intent of stimulating (a) new products that are more fire-safe and (b) new ways to capture that value in the ways products are tested and approved for use. The Conference scope includes all fire research performed within Federal laboratories or sponsored by Federal agencies, as well as work from laboratories around the world.

This booklet contains the abstracts of the 75 papers and posters focussing on the phenomenology of fire: fire sensing, fire measurement, fire-safe materials, fire suppression, flame structure, pool fires, fire-induced flows, fire plumes, combustion product generation and measurement, compartment fires, and outdoor fires. Discussion sessions will consider the status of our knowledge and the most important understanding yet to be developed. With this, we hope to continue cross-pollinating the elements of the fire research community while stimulating our members to new understanding that will lead to more fire-safe products and practices.

Richard G. Gann, Conference Chair
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