

PREFACE

The eighth conference on Ultra-Wideband, Short-Pulse Electromagnetics (UWBSP8) was held at the Convention Center of Albuquerque, New Mexico, USA, on 9-14 July 2006. This was part of AMEREM 2006. This in turn was part of a Joint Symposium including IEEE Antennas and Propagation Society International Symposium and USNC (US National Committee)/URSI (International Union of Radio Science) National Radio Science Meeting. This continues the tradition extending through Magdeburg, Germany (2004), on back to their beginning at Polytechnic University in Brooklyn, New York, USA (1992).

Like the previous conferences, the eighth in this series extends the earlier results. The subjects include pulse radiation and measurement, scattering theory, target detection and identification, antennas, signal processing, communications, and related subjects. It should be noted that, at this Joint Symposium, ultra-wideband was prominently recognized by the presentation of the John Kraus Antenna Award of the IEEE Antennas and Propagation Society to C.E. Baum, E.G. Farr, and D.V. Giri "For development of novel and innovative ultra-wideband antenna concepts that have enabled a new area of electromagnetics."

The photograph on the front cover is that of JOLT, an extremely powerful radiator of impulse-like electromagnetic waves. It was developed by the Air Force Research Laboratory, Directed Energy Directorate, on Kirtland AFB, adjacent to Albuquerque.

The editors wish to thank all of those involved in the Joint Symposium. The University of New Mexico, Department of Electrical and Computer Engineering, made an especially large contribution of personnel. The Three Dimensions company handled most of the administration. We would especially like to thank Chuck Reuben for handling many of the details in assembling this conference proceedings volume.

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