

1035-35-2

**Constantine M. Dafermos\*** (dafermos@dam.brown.edu), Brown University, Applied Mathematics Division, 182 George St., Providence, RI 02912. *Progress in Hyperbolic Conservation Laws*.

Hyperbolic conservation laws constitute a class of nonlinear partial differential equations with an illustrious pedigree and diverse applications to physics and beyond. Despite dramatic progress in recent years, this area is still replete with challenging open problems. The aim of this lecture is to illustrate the current state of affairs and to point out emerging research trends in the field. (Received September 17, 2007)