

JFIC2010

PROCEEDINGS OF THE

JOINT FEDERAL INTERAGENCY CONFERENCE 2010



Hydrology and Sedimentation for a Changing Future: Existing and Emerging Issues

Proceedings of papers of the
4th Federal Interagency Hydrologic Modeling Conference
and the 9th Federal Interagency Sedimentation Conference
Las Vegas, NV, June 27 – July 1, 2010
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PREFACE

The Federal Interagency Sedimentation Conferences (FISC) began in 1947, and the Federal Interagency Hydrologic Modeling Conferences (FIHMC) began in 1998. These highly successful conferences, which together have produced over 2100 papers, were held jointly for the first time in April of 2006. They were held again in 2010 under the theme “Hydrology and Sedimentation for a Changing Future: Existing and Emerging Issues.” The objective of the Joint Conference is to provide Federal and non-Federal scientists and managers from various disciplines, the opportunity to discuss recent accomplishments and progress in research and technical developments in the physical, chemical, and biological aspects of sedimentation and water quality and quantity issues. The broad scope of subjects encompasses measurements, theory, modeling, engineering practice, and applications in the support of management. The Joint Conference contains a mixed set of presentation formats, including formal oral presentations, poster sessions, model demonstrations, short courses, and field trips. A student poster and paper competition also takes place, with awards that include cash prizes.

The Subcommittee on Hydrology (SOH) held the Federal Interagency Workshop on Hydrologic Modeling Demands for the 90's in Fort Collins, Colorado in 1993. That highly successful workshop was limited to Federal participants. Subsequent to that Workshop, the SOH decided to hold a broader series of conferences and to open it to all interested parties. Conferences were held in 1998, 2002, and 2006, and covered models addressing surface water quality and quantity issues.

Federal Interagency Sedimentation Conferences were held in 1947, 1963, 1976, 1986, 1991, 1996, 2001, and 2006. As a continuation of these highly successful conferences, the 9th FISC again provides an interdisciplinary mix of scientists and managers from government agencies, academia, and the business community to make professional presentations on recent accomplishments and progress in research and on technical developments related to sedimentation processes and the impact of sediment on the environment.

The current Conference was held at the Riviera Hotel in Las Vegas, Nevada in June 27 – July 1, 2010. Over 260 papers and 60 posters and model demonstrations from the United States and several foreign countries, incorporating results of recent research and technology development and/or applications relating to surface water modeling, have been accepted for presentation. This book contains the extended abstracts of those presentations. These series of conferences have been regarded, and shall remain, one of the most important sources of references by researchers, engineers, managers, and policy makers in the fields of hydrology and sedimentation.

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9th FISC

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