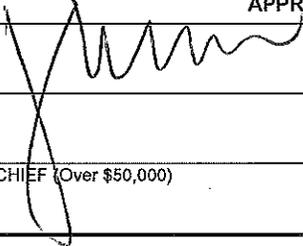
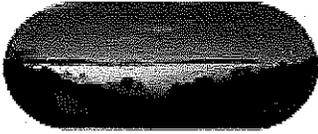


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1. Group Registration Fee for Extreme Precipitation Symposium (6/24/14)		1.00	\$455.00	
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Climate Change group registration fee for the California Extreme Precipitation Symposium on June 24, 2014.		SALES TAX		
PO Not Accepted		TOTAL \$455.00		
APPROVAL SIGNATURES				
SUPERVISOR (Up to \$5,000)		PRINTED NAME OF SUPERVISOR John Andrew		
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CIA NUMBER	DWR CHECK NUMBER	ISSUE DATE	NAME Michael Healey	
SAP DOCUMENT NUMBER			PHONE NUMBER (916) 651-1289	
JOURNAL DOCUMENT NUMBER			EMAIL mhealey@water.ca.gov	

American River Watershed Institute



www.ARWI.us
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4135 Eagles Nest
Auburn, CA 95603

Phone: 530-889-9025

Invoice

June 23, 2014

To: Michael Healey
California Dept. of Water Resources
Sacramento, CA

For registrants: Pete Coombe
Jim Goodridge
Elissa Lynn
Lauma Jurkevics
Aaron Cuthbertson
Jim Lin
Matt Correa

Amount: \$455.00

Registration fees to attend the 2014 California Extreme Precipitation Symposium on June 24, 2014.

Make check payable to: ARWI (American River Watershed Institute)

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Auburn, CA 95603



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About the Symposium

Why this year's theme?

Dam failures are considered "low-probability, high-loss" events because massive death and destruction can occur to people and property located downstream. One major focus in designing a dam is performing a risk assessment of the potential causes of failure. All dams must be designed to prevent water overtopping the dam. The primary cause of dams failing from overtopping has been inadequate capacity of the dam's spillway, that is, more water coming into the reservoir behind the dam than the spillway can release. The water has to go somewhere, so it is over the top.

Designing the dam's spillway includes the ability to convey the theoretical maximum flood waters — termed the "probable maximum flood" or PMF. To estimate the PMF requires an estimation of the theoretical maximum precipitation — called "probable maximum precipitation" or PMP. The hydrologists and meteorologists responsible for estimating PMP are working to update their tools and information used for this work. There are two main types of approaches for estimating PMP: Hydrometeorological and Statistical. The 2014 Symposium is focused on hydrometeorological approaches to estimating PMP.

Purpose

The Symposium's primary purpose is to focus attention on extreme precipitation events in California watersheds responsible for producing floods and placing life and property at risk. We hope this attention will increase our knowledge and understanding of extreme precipitation events, so we can:

1. Provide better information on the size of large floods for land use and flood risk management planning efforts, and
2. Increase the warning time in advance of large floods.

The Symposium is designed to be an informal setting for an interesting day of scientific and technical presentations with time for questions and answers. The cost is kept low to encourage participation by a diverse audience.

History

The first Symposium was convened in 1994, and held annually thereafter (except for 2000). From 1994 to 2003, the Symposium was known as the *California Weather Symposium*.

The name was changed in 2004 to **California Extreme Precipitation Symposium** to acknowledge our emphasis on extreme precipitation. From the initial gathering of 55 weather aficionados, participation has grown to over 200.

Over the years our primary focus has been on precipitation responsible for floods. Flooding is of primary concern to government agencies responsible for protecting life and property located in California's floodplains and the private sector professionals assisting them.

In 2003, the Symposium was invited to be part of the larger *Lower American River Science Conference* and in 2005 and 2007 the *American River Watershed Conference*, each organized by the College of Natural Sciences and Mathematics, California State University, Sacramento.

Web Consulting by Dorene Matney
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