Texas Flash Flood Coalition
Annual Meeting
December 10, 2015
Seguin, Texas

Andrew Rooke, PE, CFM
NHWC Board of Directors
AMR Consults
Hydrologic Warning

The ability to warn of imminent danger to life, property, and the environment from hydrologic disasters through the use of automated remote data collection networks, modeling and analysis, and integrated forecast and warning systems.
The Warning Process

Train, maintain, test, observe, monitor, detect, forecast and generate warnings

Organizations and public respond appropriately, reducing loss of life and property

Disseminate warnings

These will not work as desired without a solid foundation of planning & preparedness.
NHWC Vision

Our vision is for all communities to effectively use hydrologic information and warnings to protect lives, property, and the environment.
NHWC Mission

Our mission is to provide education, training, and standards for the generation, delivery, and use of timely reliable hydrologic information.
NHWC History

• Formed in 1993 by ALERT Users Group (AUG) & Southwestern Association of ALERT Systems (SAAS)

• ALERT-Flows East Coast Users Group joined in 1999

• Officially incorporated in 2005
Technical Areas

- Hydrology
- Data Collection
- Modeling & Analyses
- Standards and Guidance
- Hazard Communication & Public Awareness
Educational Areas

• Training & Professional Development
  o Biennial Conferences
  o Workshops and webinars
The NHWC Transmission

October 2015

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NHWC, 2015-17
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Urban Drainage and FCD

NHWC Newsletter

A System for Integrated Data Collection, Dissemination and Sharing via Web Technologies

Ibrahim Demir, PhD, and Witold F. Krajewski, PhD,
UW Hydraulics & Engineering, University of Iowa

The Iowa floods of 2008 provided the impetus for the Iowa state legislature to create the Iowa Flood Center (IFC), based at IHR. IFC researchers began collecting time-sensitive data on many aspects of the flood — from high-resolution data to document flood water elevations to contaminated sediments deposited by flood waters. The IFC is actively engaged in flood projects in many Iowa communities and employs several graduate and undergraduate students participating in flood-related research. IFC researchers designed a cost-effective sensor network to better monitor stream flow in the state; they also developed a library of flood-inundation maps (Gilles, et. al., 2012) for several Iowa communities.

IFIS provides visualization of multiple sensors in a river path

When floodwaters rose yet again in the spring of 2013, Iowans had innovative new tools that hadn't even been dreamed of five years ago — thanks to IFC's focused research designed to help all Iowans be better prepared for future flooding. The IFC's Iowa Flood Information System (IFIS. Demir and Krajewski, 2013), is a one-stop hydroinformatics web-platform to access community-based flood conditions, forecasts, visualizations, inundation maps and flood-related data, information, and
NHWC Members

87 Federal Agencies
75 Local/Regional Agencies
4 State Agencies
94 Companies/Businesses
1 Academia
15 Individuals
Leadership – National & Geographic Perspective

NHWC Board Member Locations
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<tr>
<th>BOARD MEMBERS</th>
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<td>Houston, TX</td>
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<td>Bruce Reindahl, AUG Rep.</td>
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<td>Sacramento, CA</td>
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<td>Austin, TX</td>
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<td>Kevin Stewart</td>
<td>Denver, CO</td>
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Liaisons

Organizations:
- AUG
- ASFPM
- TFMA

Agencies:
- NOAA
- FEMA

Others:
- CoCoRaHS

AMS
ASDSO
NAFSMA
NWS
USACE
IFLOWS
Benefits – In My Own Words

- Collaboration – share and learn from each other
- Support each other in time of need (local coordination: operations & maintenance)
- Monitoring & developing technologies
- Collective national voice to government agencies, vendors and academia
Join Us

11th National Training Conference & Exposition

Squaw Valley, CA
(Lake Tahoe Area)
June 2017

www.HydrologicWarning.org