

Factoid

It's a common belief that the larger the vehicle, the deeper the water it can drive through. Many people do not realize that two feet of water can float most vehicles, including SUVs and pickups. If the water is moving, vehicles can be swept away.

A Better Way

Warning motorists about trouble spots can be a challenge. For those locations that tend to be "repeat offenders," HSE has a line of non-intrusive road surface sensors to meet most any application. Cut accident rates significantly when you combine our sensor with our Advance Warning System. Learn more by calling us 800-275-2080.

The Sierra Summit is published by High Sierra Electronics, Inc. for companies, agencies, and individuals devoted to environmental monitoring. It is distributed without charge.

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ADDRESS CORRECTION REQUESTED



SIERRA SUMMIT CHALLENGE

Do you consider yourself a force of nature? Well then, take this quiz to make it official.

1. What causes water vapor in the air to condense?
 - a) Rain
 - b) A cooler temperature
 - c) Nimbus clouds
 - d) Gravity
2. On approximately what date is Earth farthest from the sun?
 - a) January 3
 - b) March 3
 - c) July 3
 - d) September 3
3. A lunar halo is caused by the moon shining through what type of clouds?
 - a) Cirrus
 - b) Cumulus
 - c) Cumulonimbus
 - d) Cirrostratus
4. Okta is unit of measurement of what?
 - a) Air pressure
 - b) Electrical charge
 - c) Cloud cover
 - d) Temperature interval

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WEST VIRGINIA FLOOD EVENT Real-time Experience



HAPPY TRAILS A Heartfelt Tribute

Did You Know?

If the earth were flat, water would cover everything in a layer two miles deep.



Winter Issue: Volume 23, December 2016

Reaching New Heights

On August 11, 2016, OneRain, Inc. announced their acquisition of High Sierra Electronics, Inc. The acquisition combines the strengths of OneRain's software, HSE's hardware, and both companies' service divisions. "OneRain and HSE share a passion for serving public safety agencies where real-time monitoring of hydrology supports their core mission," said James Logan, CEO of both OneRain and HSE.

Eric Gibbons, HSE's General Manager agrees. "This is an exciting time for us and a great opportunity to better support our customers. We can provide more complete solutions through all phases of our customer's projects."

"The meeting of two personalities is like the contact of two chemical substances: if there is any reaction, both are transformed."
- Carl Jung

HAPPY TRAILS

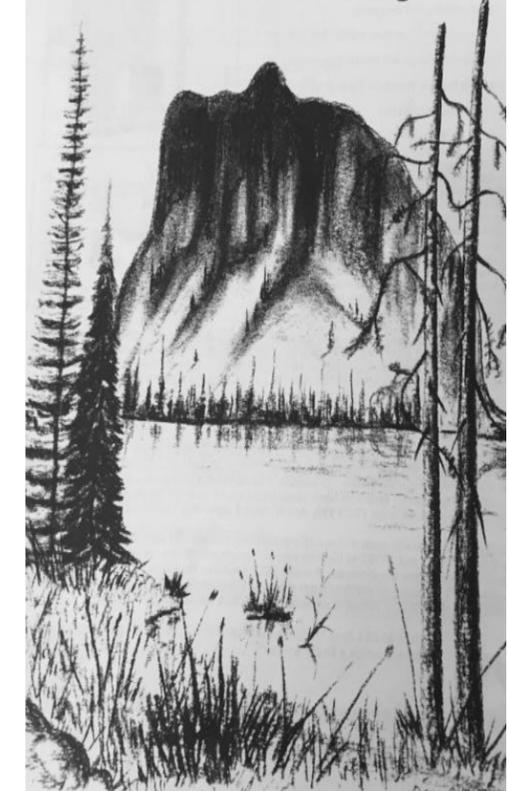
A heartfelt tribute to Jim & Kathy Slouber

In August Kathy and Jim Slouber took their first steps toward retirement, following OneRain's acquisition. "Our companies have worked together for more than twenty years. Looking back now it seems inevitable that one day we merge and form one company," said Kathy.

Having established High Sierra Electronics in 1992, the Slouber's saw their company grow from a small "garage start-up" to a prosperous, multi-million dollar corporation. Their leadership and foresight led HSE to become a leading provider of flood warning and other types of environmental monitoring systems. They fostered new ideas from innovations in hardware designs, two-way communication, and the ALERT2 protocol.

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High Sierra Electronics ALERT Product Catalog



HSE's first product catalog circa 1992

They created a company built on trust and engineering experience. Kathy and Jim greatly appreciated the respect of their peers, which included customers, vendors, and even competitors. HSE was founded on their reputation for business integrity. As a Rotarian, Kathy has always embraced their motto, "service above self."

Please join us in wishing Kathy and Jim the very best in health and happiness for their future. They created not only a company, but a community of friends and family. Their contributions to flood warning and road weather management are a testimony to their intelligence, generosity, and pioneering spirit.

ANSWERS INSIDE

WEST VIRGINIA FLOOD EVENT

Real-time experience



On June 23, 2016, a flash flood hit areas of West Virginia and nearby parts of Virginia. The flooding was the result of 8 to 10 inches of rain falling over a period of a few hours. Remarkably, this was the third-deadliest flood in the history of West Virginia, after the Buffalo Creek flood of 1972 and the Election Day floods of 1985. It is also the deadliest flash flood event in the United States since the 2010 Tennessee floods.

Our client, State of West Virginia's Division of Homeland Security and Emergency Management met the challenges of this flood with confidence and grace. Bill Wood, Communication Officer, reported that their system initiated alarms appropriately and provided useful data in meeting the storms challenges. He said he was pleased with the overall performance of their network.

Vicki Chandler, Flood Warning Administrator was personally affected by the flash flood, as she and her husband and dog were forced to leave their home late in the night by boat. "It was a pretty terrifying experience," said Vicki. She lost her home in a community that she loved and is gradually rebuilding her life; grateful for a fresh start. As a highly regarded member of the High Sierra Electronics "extended family," we applaud Vicki and the rest of the team at WVDHSEM. They've personally embraced the ideals of flood warning: Using hydrologic information and warnings to protect lives, property, and the environment.

Answers to Sierra Summit Challenge on back page

Answers: B, C, D, C

PRODUCT ALERT

Surface Sentinel

Winter related traffic accidents have a large societal and economic impact each year. On average there are 5.8 million vehicle crashes per year with twenty-three percent of these crashes attributed to poor road conditions due to weather.

Weather instrumentation is just one of the tools that can be used to change driver behavior and potentially reduce the risk of accidents . . . and save lives. At HSE we design and manufacture the Surface Sentinel, a non-intrusive surface temperature sensor.

The Surface Sentinel provides surface temperature, air temperature, relative humidity and dew point measurements for warning systems and fixed weather stations. The sensor is typically mounted on a pole or tower next to a road surface. Our engineers used premium materials in their design to ensure long-lasting, reliable performance.



- Surface Temperature, Air Temperature, Relative Humidity, Dew Point
- SDI-12 Communications
- Contact Output (low/high threshold, frost warning)
- Low Power Consumption
- Fan Aspirated Air Temp and RH
- Affordably Priced



For more information about the Surface Sentinel, visit our web site at www.highsierraelectronics.com or call us at 800-275-2080.

SMART SOLUTION THAT SAVES MONEY

ALERT2 Rain-only Upgrade Kit



The ALERT2 Rain-Only Upgrade Kit is the latest edition to HSE's line of ALERT2 products. It provides a cost effective option for upgrading from ALERT to ALERT2 at sites that only measure rainfall.

- Reports Precip, Battery, GPS Status
- Works with Tipping Buckets using 2-wire or 3-wire Reed Switches
- Includes 16GB Data Logging on Removable SD Card

The Kit is compatible with HSE Models 3201 and 3206, as well as the Model 5906 Transmitter. It's easy to install and very budget friendly. Call or visit our web site to request a price quote.

NOW ONE FAMILY

OneRain & High Sierra Electronics

High Sierra Electronics and OneRain are now one family and we couldn't be more excited. Following the acquisition of OneRain, what can you expect?

You still have access to your trusted, reliable HSE hardware. Plus, we have OneRain's software for a full system solution. If you are interested in the Conrail software platform, contact us for a demo.

Now that HSE and OneRain are sister companies, you have even more resources and tools at your fingertips. Our joint service team is available to provide all levels of service required to facilitate installation, operation, and maintenance of your system.

This is the best part: the HSE contacts you know and appreciate are not changing.

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ADVICE FROM THE FIELD

Tip: Rain Gauge Performance

Matt Cota, HSE Field Service Technician – San Antonio, TX

Site exposure conditions that change with time will affect rain gauge performance. These changes include not only vegetation, but also the size and number of nearby buildings. A study by the WMO shows that growth of vegetation over time significantly changes wind velocity at a gauge site and alters catch characteristics.

Be sure to keep trees and shrubs trimmed at your rain gauge sites to ensure reliable operation and accurate data. A good practice is to keep a pair of garden clippers or pruning shears in your service truck. Always make sure you have permission from the agency and/or land owner before cutting back or removing vegetation.