

CONNECTIONS

The Newsletter of Electronic Engineering

Summer 2007

Alegent Health Adds GPS Timing to Paging Network

In any hospital, being able to get in touch with medical personnel through a paging system is vital. Now imagine how crucial it is when those medical professionals are scattered throughout five separate hospitals, across a large metropolitan area, each with a different in-house paging system. Doctors would have to wear different pagers, with different phone numbers, depending on what hospital they were staffing.

That's the situation that Alegent Health Network in Omaha faced years ago. So they decided to build a citywide paging system throughout the Omaha area when Bergan Mercy, Immanuel, Lakeside, Midlands and Mercy-Council Bluffs hospitals all became part of their health system. But that solution never ended up working as well as planned, and Electronic Engineering was asked to help with the citywide paging system.

"It was running extremely inefficiently and at a very slow speed, because of the decoding technology of the pagers and analog transmitters," said Corry Hill, Technical Services Manager at Electronic Engineering. "To enhance the network and improve the citywide paging system, we recommended a digital system that uses GPS referencing to control both the broadcast and launch of pages. Doing this allowed Alegent to build a true simulcast system between all five hospitals – using one paging frequency."

To make the system work, Alegent purchased new alphanumeric pagers from Electronic Engineering with FLEX technology. Pagers with FLEX are smart enough that if any changes are made to the system, the pager automatically adjusts.

"Currently we're adding the GPS referencing technology to each of the hospitals in the health system to stabilize the system even more," Hill said. "An important concern when doing a simulcast system is that all the tower sites have to operate in perfect unison. GPS referencing does two things—it provides a stable launch time for pages to be broadcast and it stabilizes the actual operating frequency of the transmitters. Also, the number of trouble spots in the Omaha area, where paging was not reliable dropped by



90% because of this type of system." With further "fine tuning" Hill says the Alegent Health Network will get close to 100% paging coverage, 100% of the time.

To learn more about GPS-synchronization of network of paging or enhancing your current paging network, contact your local Electronic Engineering sales representative.

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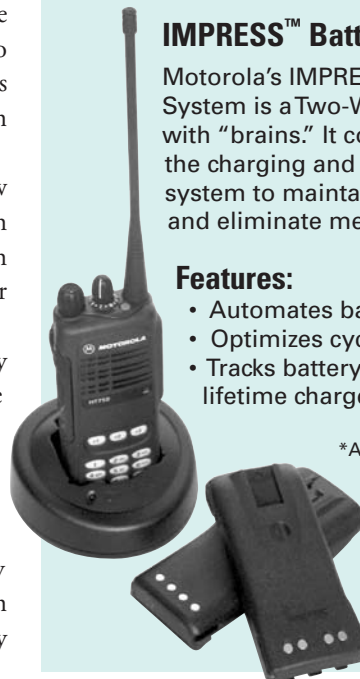
IMPRESS™ Batteries

Motorola's IMPRESS™ Smart Energy System is a Two-Way Radio battery with "brains." It continuously analyzes the charging and reconditions the system to maintain peak performance and eliminate memory effect.

Features:

- Automates battery maintenance
- Optimizes cycle life
- Tracks battery capacity and lifetime charge cycle

*Available on select
Motorola Two-Way
Radios.



A Letter From The President



I really enjoy the summertime. The late sunsets and early sunrises, so much time to do and get things done. The great smells of the flowers, trees and fresh air. OK, maybe I do not miss our exceptional midwestern heat and humidity!

The summer is also a time for festivals, sporting activities, concerts, golf tournaments, fairs, tours, races, farmer's markets and even hot-air balloon races. While Electronic Engineering always enjoys providing products and services that make our customers more efficient, profitable and keep the public safe with communications products, it is a great feeling to be part of and be able to help in the operation of many of these community events.

We have provided simple hand-held radios "walkie-talkies" to countless events to make them run efficiently and safely. Sometimes they are used at the entrances for ticket taking or parking lot control. Sometimes they coordinate the beginning and ending of races. They are often teamed up with medical personnel – to be able to quickly get aid and support to someone in need. Radios are used by event coordinators to communicate between the several separate task groups within a festival. Many times – the radios help with the timely arrival of the beverage cart—one of my favorite uses!

Many of our regular clients are in the manufacturing business, or in one of the many types of public safety or emergency services. So at these events and festivals – we get to show our goods and services to a different

group of people, as most who work with or at these various events – are volunteers and have completely different "day jobs". It is very rewarding to be able to help these events run smoothly and provide products that allow for instant communication – and instant answers, all designed to provide the best possible festival or sporting event for the participants, the guests, the spectators and event coordinators.

Let the games begin, and good times be shared with all.

Thanks for your business, and we'll talk to you next quarter.

Mark Clark

Can You Guess the Year?

- First ever Super Bowl
- Earth Day is celebrated for the first time
- Sesame Street is first broadcast

Think you know the year? E-mail your answer to contest@connectingyou.com. Every correct entry received by July 31st will be placed in a drawing for a chance to win a \$100 gift certificate from Electronic Engineering.

**Last quarter's winner:
Kent Kline, Iowa City, Iowa**

Kent correctly guessed the year 1967.

Electronic Engineering Locations

| | | | |
|---------------------------------------|--|---------------------------------------|--------------------------------------|
| Des Moines (515) 283-1100 | 1100 Keo Way (800) 343-3998 | Marshalltown (641) 752-0778 | 913 Iowa Avenue E. (800) 345-2540 |
| Ames (515) 232-5385 | 2220 E. Lincoln Way (800) 343-7718 | Mason City (641) 423-6818 | 608 S. Delaware (800) 343-2688 |
| Cedar Rapids (319) 364-1900 | 1900 6th Street S.W. (800) 762-0795 | Mt. Pleasant (319) 385-7650 | 126 N. Main Street (800) 458-2355 |
| Davenport (563) 322-0981 | 1354 W. 4th Street (800) 322-0981 | Omaha (402) 346-5123 | 13704 P Street (800) 315-3579 |
| Fort Dodge (515) 576-2411 | 2411 5th Avenue S. (800) 343-3405 | Sioux City (712) 258-5234 | 500 W. 20th Street (800) 243-3756 |
| Fremont (402) 727-5115 | 339 N. Broad Street (800) 427-2185 | Waterloo (319) 235-5556 | 750 Ansborough (800) 365-9702 |

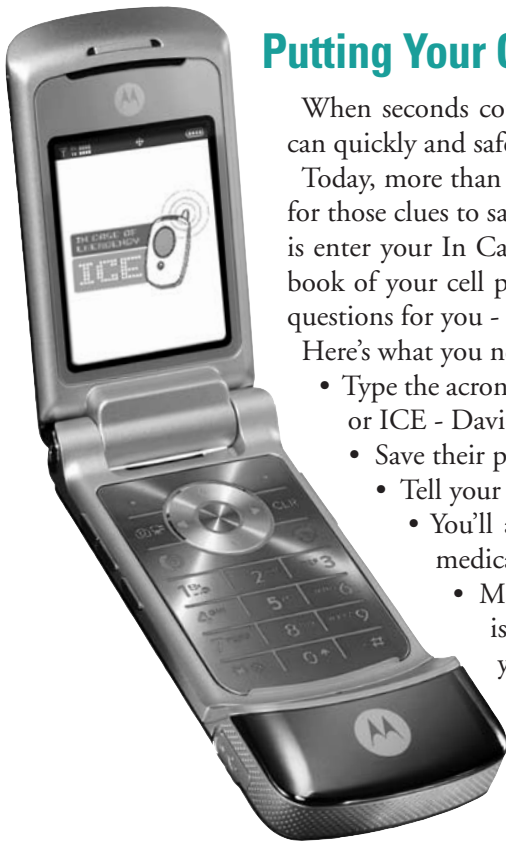
Putting Your Cell Phone on ICE Could Save Your Life

When seconds count, emergency medical personnel need answers fast so they can quickly and safely give you or your loved ones medical care.

Today, more than ever before, medical personnel are turning to your cell phone for those clues to save valuable time. But they need your help. All you need to do is enter your In Case of Emergency (ICE) contact information into the address book of your cell phone. That way your ICE contact can answer the important questions for you - when you can't.

Here's what you need to do:

- Type the acronym ICE followed by a contact name (for example, ICE - mom or ICE - David) into the address book of your cell phone.
- Save their phone number.
- Tell your ICE contact that you listed them.
- You'll also want to make sure your ICE contact knows about any medical conditions that could affect your medical treatment.
- Make sure if you are under the age of 18, that your ICE contact is a parent or guardian authorized to make decisions on your behalf.



Give a Life-Size GiftSM

Iowa Governor Chet Culver recently signed a new law that brings Iowa to the forefront with nationwide standards for organ donation. Previously, if you'd made the decision to donate, in some states relatives could veto that plan; the new law prevents that from happening.

Additionally, the new law states that if you die without making the decision to donate, doctors may now ask grandparents and grandchildren – in addition to your spouse or adult children – for organ donation permission.

Electronic Engineering is committed to helping the Iowa Donor Registry save lives by providing pagers at no cost to families waiting for an organ donation.

Presently there are around 400 people in Iowa waiting for organ transplants and some 90,000 across the country.

Here's how you can help:

- **Call the Iowa Donor Network toll free: (877) 366-6742**
- **Register online at: www.IowaDonorNetwork.org**
- **Stop by any Electronic Engineering office for an Iowa Donor Network brochure.**

Help save lives. Become an organ and tissue donor.

Hy-Vee World Cup Triathlon Counted on Communications From Electronic Engineering

During the inaugural Hy-Vee World Cup Triathlon, June 16-17, athletes from around the world gathered in Des Moines to compete for the richest purse on the elite triathlon circuit.

Throughout the race, event coordinators depended on Two-Way Radios, from Electronic Engineering, to stay in constant contact as they handled all of the behind-the-scenes logistics – safety, security, race details, road closures and event communication.

In addition to the professional race, the event included a mini-triathlon for youth ages 5-12, the USAT Youth Elite and Junior Elite championships, and citizens' races for amateur triathletes.



Electronic Engineering Employee Profile



Name: Gary Little

EE location: Des Moines

Job title: Mobile Radio Repair Technician

Job history: Growing up in a small rural community, I have worked many odd jobs: mowing lawns, a paper route for the *Des Moines Register*, a swimming instructor for the Red Cross, lifeguard, bailing hay, building livestock feeders for Triple "F" Feeds, painting houses

and just about anything else that would make a buck.

My first "real" job: I think my first regular paycheck job was working for McQuary Perfex Co. They built water and oil coolers, (Radiators). I started as a tube pusher (a.k.a. The pusher man), then moved to different departments. I worked the 3rd shift for the extra pay (\$3.75/hr).

Recent accomplishments: Recently I was the captain of the Lighten Up Iowa team at the Des Moines EE branch. The team participated in the weight loss and activity divisions of the program. For four months we kept track of our weight loss and hours of activity, then reported to the program once a month. I distributed diet, health and activity information to the team. Part of the team participated in the JDRF Walk for the Cure. It was fun and helped a good cause.

The toughest part of my job: I think that since we have to cover multiple duties, the most difficult part is dealing with the constant multitasking and interruptions. Some days what you start on in the morning you don't get back to until the next day. This makes it hard to remember where you were with a project and what you needed to do next. It does, however, make the day go by quickly.

Someone I admire: My mother – she raised five children by herself and had to work multiple jobs but still found time to be there when it was important. She is a role model for me.

About my family: My wife, Mary, and I have been married for 26 years. We have two children, Christina and Nicholas. We also have two grandchildren, Trinity and Olivia.

Something else I'd like to accomplish: I would like to figure out how I can retire before I die. Since they keep raising the retirement age and Social Security is in question and the stock market is always unstable and insurance premiums keep going up, I can't say that retirement looks like a sure thing anytime soon.

Something about me not everyone knows: I graduated from high school a year early on academic credits. I also teach a Domestic Battering Education class on Wednesday nights for the Department of Correctional Services.

Outside interests: I am a member of the Elks Lodge in Indianola. I currently hold the position of Chaplain. I enjoy working on community service projects through the lodge. I also enjoy camping, fishing, hunting, hiking, swimming and being in the great outdoors.

Favorite vacation spot: Through my travels thus far I would have to say that Hawaii is my absolute favorite spot, hands down. I like most anywhere with a warm climate and beaches. Other places of note are the Rocky Mountains, the Smoky Mountains and Alaska.

If I had a different job: I would like to work in research and development of new products. I enjoy figuring out how to make things work and designing new applications.

Words you live by: This one is hard for me because I live by many ideas and am always open to new concepts. One of my favorites is: "You reap what you sow."

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At Electronic Engineering, we're seeing (RED)

Features

- Ultra-thin design
- 1.3 megapixel digital camera
- Bluetooth wireless technology
- MicroSD slot for upgradeable memory



The ultra-sleek, sharp and sophisticated Motorola RAZR and KRZR cellular phones are designed to give you the ultimate in mobile connectivity. So you can stay connected with words, photos, video and more.

Upgrade your phone today.

Electronic Engineering

Connections you can count on.™

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06/07

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