

Spring 2008

Kansas Environmental Health Association Newsletter



Message from the President

Scott Selee, R.S.

First let me thank you for allowing me to be a part of this great organization, the Kansas Environmental Health Association. Serving on the board has given me a whole new perspective as to what it takes to make an organization like this run.

Spring is here and now is the time to think about our Annual 2008 Spring Conference at Rock Springs. This will be a great opportunity to get folks together for training and also some fun.

Roger Daniels has great line up of presenters and there is definitely something for everyone. I hope to see all of you there.

The KEHA board of directors wants to hear from you about subjects that you feel the organization needs to address.

The vast experience in this group is one of its strengths. Let me encourage all members to take advantage of the list serve to ask questions or share concerns. No doubt someone on the list serve has dealt successfully with issues similar to what you are presently running into.

Scott

P.S. To post a note to the list serve put KEHA@neptune.kgs.ku.edu in the To: line of an e-mail and type your message as usual. The only difference is that it goes to 100 plus KEHA members for an FYI or to obtain a response from someone.

Inside this issue:

| | |
|---|---|
| <i>Conference Agenda</i> | 2 |
| <i>Registration for Spring Conference</i> | 3 |
| <i>Map of Rock Springs</i> | 4 |
| <i>NEHA Conference</i> | 5 |
| <i>Hidden Harm</i> | 6 |
| <i>NSF Web Seminars</i> | 7 |
| <i>SBEAP Classes</i> | 8 |

KEHA Spring 2008 Conference, April 10–11

Below, you will find the agenda, registration information and maps for the upcoming Spring KEHA conference.

This years conference will be held in Junction City at Rock Springs 4-H Ranch. Registration forms should be sent to Greg Willis as soon as possible. Hope to see you all there.

2008 Spring Conference Rock Springs 4-H Center Junction City, Kansas



Thursday, April 10th

- 11:45 - 12:30** **Registration at Johnson Administration Center**
- 12:45 - 1:00** **Opening Remarks, Scott Selee**
KEHA President
- 1:00 - 2:00** **Snakes of Kansas**
Dr. Collins
- 2:00 - 2:45** **Flood Plains**
Tom Morey
- 2:45 - 3:00** Break
- 3:00 - 3:45** **Environmental Education and Environmental Health**
Melissa Arthur
- 3:45 - 4:30** **Challenges facing the LEPP**
Beth Rowlands and Doug Schneweis
- 4:30 - ?** **Brochure Design**
Group Discussion
- 5:30** **Room Check In**
- 6:00 - 6:45** **Dinner in Williams Dining Hall**
- 7:00 - ?** **Council Circle Campfire**
Beverages, Smores', Chit-Chat

Friday, April 11th

- 7:30 - 8:00** **Breakfast in Williams Dining Hall**
- 8:30 - 10:30** **Communication and Safety Skills**
Debra L. McDaniel, CSP
- 10:30 - 10:45** Break
- 10:45 - 11:45** **History of On-Site**
Morgan Powell, KSU Research & Extension
- 11:45 - 12:15** **Open Mic & Closing**
- 12:30 - ?** **Board Meeting**

2008 Spring Conference Registration

Please mail the entire sheet to:

Greg Willis

373 W. 6th St

Hoisington, KS 67544

Name: _____

Address: _____

| | |
|--|----------------|
| Conference Registration-- KEHA member registered by 04/02/08 | \$ 70.00 _____ |
| Conference Registration-- KEHA member registered after 04/02/08 | \$ 80.00 _____ |
| Conference Registration --- KEHA non-member | \$ 80.00 _____ |
| Conference and Lodging --- KEHA member registered by 04/02/08 | \$ 85.00 _____ |
| Conference and Lodging --- KEHA member registered after 04/02/08 | \$ 95.00 _____ |
| Conference and Lodging --- KEHA non-member | \$ 95.00 _____ |
| 2008 KEHA Membership Dues (if not already paid at or since the 2007 Fall Conf) | \$ 20.00 _____ |
| Scholarship Donation | \$ _____ |

Please complete and send with your registration, one for each person attending.

RECEIPT: 2008 KEHA SPRING CONFERENCE

Name: _____

Address: _____

Organization: _____

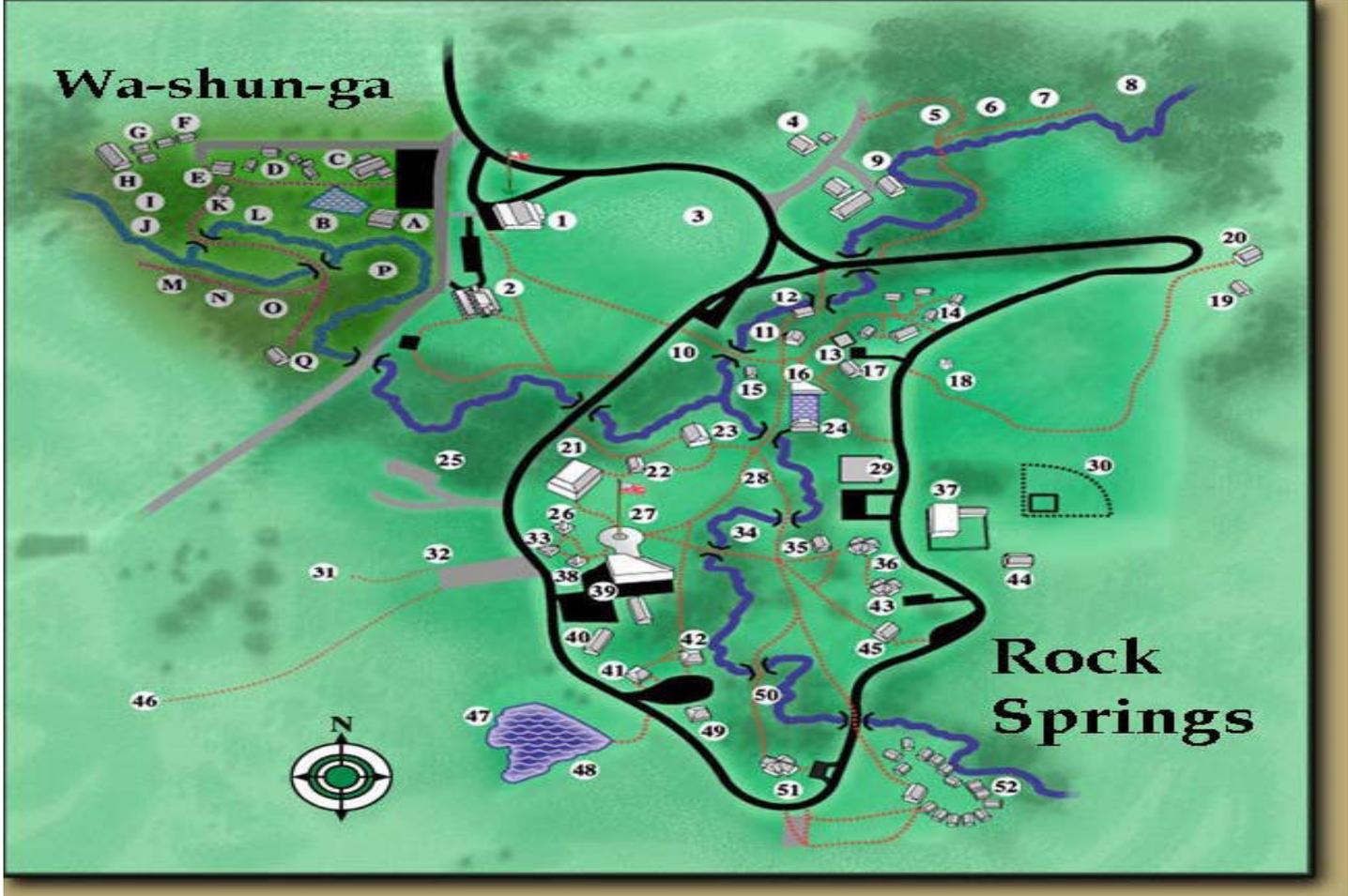
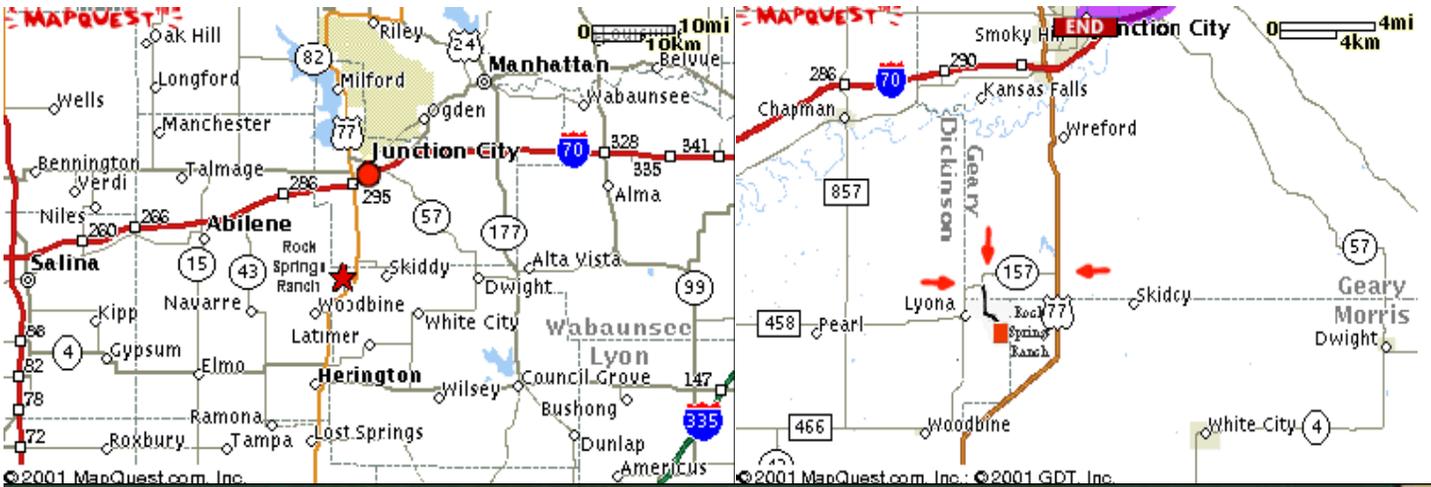
| | |
|--------------|-----------------|
| Conference | \$ _____ |
| Lodging | \$ _____ |
| CEU'S | \$ _____ |
| Dues | \$ _____ |
| Scholarship | \$ _____ |
| Other | \$ _____ |
| TOTAL | \$ _____ |

Greg Willis, Treasurer _____

Spring 2008

KEHA 2008 Spring Conference Map

Directions: From the Junction of I-70 and U.S.77, travel eight miles south on U.S. 77. Turn right (west) at the junction of K-157 and follow the blacktop highway 4 miles west and south through the gateway and into Rock Springs Ranch. Registration begins at 11:45 at the Johnson Administration Building.



IT'S THAT SPECIAL TIME AGAIN!

Yes, folks it is that special time of the year when we are thinking of the FALL conference already. And with the fall conference comes the Silent Auction! There are some of you who come up with unique ideas and put them together, some in our group have talents and make things to share and all of us have things around our houses and lives that we would gladly give new homes to. The proceeds from your donation goes to the "Bill Spaniol Memorial Scholarship" fund. So, it is not too early to start looking in the closets, attic and neighbor's house for items to bring to the KEHA 2008 Fall Conference.

Please call Keena Privat at the Lyon County Health Department 620-342-4864 X5, if you have any questions.

Register now for the NEHA AEC & Exhibition in Tucson!

Design your conference experience to meet your educational needs and **choose** how you want your education delivered at the National Environmental Health Association's 2008 Annual Educational Conference (AEC) & Exhibition in Tucson, Arizona, June 22nd – 25th.

Choose sessions from **The Lecture Hall** (featured at the Westin La Paloma Resort & Spa) - a rich learning environment where you can select from over 130+ educational sessions with experts covering hot topics and the entire spectrum of environmental health. AND/OR, select sessions from **The Learning Laboratory** (featured at the Hilton Tucson El Conquistador Golf & Tennis Resort) where you will take part in interactive sessions with experts and where you will also participate as the expert by sharing your knowledge. Design your educational experience to include sessions from one campus or choose an itinerary that encompasses both the Lecture Hall and Learning Laboratory.

Wondering how this all works? To start planning your 2008 AEC & Exhibition experience, visit neha.org. Check out the cool graphical representation of the conference campuses and schedules of activities at the Lecture Hall, Learning Laboratory, and on the shuttles - COMING SOON! Also refer to the conference brochure coming to your mailbox early March.

Hidden Harm

By Billie Vines

Cross Connection Manager

Wichita Water Utilities

During a Water Protection Review of a local meatpacking facility, conditions within the cutting and processing areas were found to be in good order with protection needed at hose bibb faucets. The full review, which included the office and employee areas, however found illegal ballcock assemblies were installed in the employee restrooms which could have resulted in contamination of common water used in the food service portions of the facility with potentially lethal implications. Following well publicized problems with E. coli 0157 outbreaks in restaurants, the risk of fecal contamination is well known and a direct connection with our food supply and human wastewater disposal is especially loathsome to consider.

Every year, suspected incidents of illness thought to be related to drinking water result in surveys which have found the same or similar ballcock assemblies in use in the home or surrounding neighborhood. Suspicions are often impossible to confirm in these surveys, although one call came in from a tri-plex tenant complaining of blue water following a temporary interruption of service to the residence during road construction. Other tenants also noticed the blue water in their apartments following the return of water service. Upon review of the apartment, an illegal toilet filler assembly without required anti-siphon design was found in the bathroom toilet tank, which the tenant had recently equipped with a self-cleansing tablet containing an eye catching blue dye popularized in the old “Tidy-Bowl” commercials. Previously, the tenant had used a white non-tinted tablet form. Blue tinted water was collected from the bathtub, which had been filled from the tub faucet. The danger does not lie in the tablet itself so much, but the origin of the water that its presence indicates, namely the toilet tank. All taps in the house were reported to run with this colored water including the kitchen sink. Interviews tenant revealed that all family members had suffered gastro-intestinal symptoms since moving to the apartment seven months prior to this incident.

Specifically, an 18 month old boy had chronic diarrhea requiring 10-11 diapers each day, which had lessened after switching to bottled water for his formula. A seven-year-old boy in the apartment had repeated doctor visits seeking remedy for problems with diarrhea and was diagnosed with a “spastic colon”. Most of us would likely develop a “spastic colon” if we drank water contaminated by our toilets! The mother had also had gastro-intestinal problems during this period.

Staff contacted the apartment owner and informed him of the problem. His comment was that they had used the unprotected ballcock assemblies for years and had never noticed a problem before. The problem was probably always there, but combined conditions to identify it were not present and health problems often get blamed on something eaten or a virus going around such as the “stomach flu”. Often, these problems can be identified with a little information and a willingness to investigate on the part of the knowledgeable inspector. Moderate “flu-like” symptoms should not be ignored; the cause of which may be preventable and something you really should not just live with.



This note to let you know that NSF International is offering to provide a series of onsite wastewater educational web seminars for your organization and constituents. The web-based presentations are arranged by NSF. NSF will provide attendees with an access code to the presentation website and toll-free telephone number for the audio portion. Attendees from around the country will be on the conference call and presentation website individually, and from their own desks. It's as if we will all be together face-to-face, and with live dialogue amongst the attendees and NSF.

There is no cost to receive this service for your organization or the attendees.

NSF will work with you to tailor the programs such that attendees receive CEU's. In addition we will promote the training in cooperation with your association. We just put this same training on for the California Environmental Hygiene Association. This notice was posted in the CEHA website and promoted to the membership.

Please contact me if you are interested in participating.

Regards,

Paul R. Jackson

Program Manager, [Water and Wastewater Treatment Units](#)

NSF International

18106 Emerald Bay Street

Tampa, Florida 33647

813 907 2590

Fax 734 827 7110

Kansas City Lunch and Learns

Attend one of four “lunch and learns” during summer 2008 to learn more about ways to reduce your impact on local air quality.

Topics include:

1. What Businesses Need to Know (MARC Clean Air Action Plan)
2. Idling Reduction
3. Energy Efficiency for Businesses
4. Clean Air for Lawn Care

These **FREE** sessions will take place on the second Wednesday of each month from June through September, 12:00 – 1:00 p.m. (June 11, July 9, August 13, and September 10). Attend in-person or through your computer via conference call. Each session will be held at the Johnson County Sunset Drive office building located at 11811 S. Sunset Drive, Suite 1500, Olathe, KS 66061.

Call the Small Business Environmental Assistance Program at 1-800-578-8898 or visit www.sbeap.org for more information.



Attend the Diesel Technologies Workshop and Equipment Expo at the Kansas Speedway

May 9, 2008

Pre-register by May 1 to be eligible to win tickets to the Kansas Speedway! See details at www.sbeap.org.

Two sessions will be offered:

Over-the-Road Fleets

9:00 a.m. – 12:00 p.m.

- Kansas City diesel engine idling rule
- Idling-reduction strategies
- Diesel retrofit technologies
- EPA SmartWay Program
- Resources and financing



In-Town Fleets

1:00 p.m. – 4:00 p.m.

- Kansas City diesel engine idling rule
- Idling-reduction strategies
- Diesel retrofit technologies
- Resources and financing

Exhibits will be open from 9 a.m. to 4 p.m. and a vendor-sponsored lunch will be served between noon and 1:00 p.m.



To register for this FREE workshop, call the Small Business Environmental Assistance Program at 1-800-578-8898, or visit our Web site at www.sbeap.org for more information.

Paid for by the Kansas Department of Health and Environment

NSF Wastewater Joint Committee Holds Annual Meeting

By Paul R. Jackson

Program Manager

Water and Wastewater Treatment Units

National Sanitation Foundation

The NSF Wastewater Treatment Technology Joint Committee (JC) held its annual meeting September 20-21, 2007. The JC is comprised of volunteer members from regulatory agencies, manufacturers, and product users. Any proposal to establish or revise a standard goes before the JC and is either recommended for ballot or assigned for development to a task group composed of JC members and external experts. Task group members are assigned by the task group chairman (who is appointed by the JC chair) from a pool of volunteers.

During the most recent meeting JC Chairman Mike Hoover, Ph.D., introduced Elizabeth Dietzmann, Esq.; Kevin Sherman, Ph.D.; and James Meyer as new members. Ms. Dietzmann is an environmental attorney with years of experience in onsite wastewater issues. She is based in Richmond, Virginia and represents the law firm AquaLaw PLC. Dr. Sherman is Director of Engineering at Quanics, Inc., a Kentucky based manufacturer of onsite treatment systems. Mr. Meyer is Vice President of Engineering at Norweco, an Ohio based manufacturer of water and wastewater treatment products, systems and chemicals.

Work performed by the JC during the course of this past year and at the annual meeting cover a wide range of issues:

Changes to Current NSF/ANSI Standards

S NSF/ANSI 40 Residential wastewater treatment systems - 2005:

§ Bottomless treatment systems: Recognizing that some treatment systems are installed with no bottom, Standard 40 was revised to allow these systems to be tested. The change was in the performance testing for the evaluation of effluent treatment quality. A new requirement was added that required effluent samples to be representative of all treated effluent, as sampled from a central point of collection. In the case of systems with no bottoms, a collection system must be employed by the test facility.

§ Maximum dose: To ensure consistency between test facilities, a requirement was added for a maximum individual dose volume of 10 gallons as delivered to the treatment device under test, and uniformly applied over the dosing periods prescribed in the standard to achieve the daily rated capacity.

§ NSF/ANSI 41 Non-liquid saturated treatment systems - 2005:

§ The scope of the standard was revised to clarify that the standard addresses treatment systems that treat both solid and liquid waste, as well as those that treat solid waste only.

§ NSF/ANSI 46 Evaluation of components and devices used in wastewater treatment systems - 2005 and 2007:

§ Chlorine disinfection:

o The scope was modified to increase the overall rated capacities for chlorination devices, changing from a minimum flow of 400 gpd down to 200 gpd. This increased range allowed for greater flexibility of device adjustment in the field when encountering low flow treatment systems, avoiding the addition of excessive amounts of chlorine.

§ Effluent filters:

o The 2005 edition of Standard 46 added new structural integrity testing of filters to better address situations of frequent removal and reinstallation of filters, such as with frequent maintenance cycles.

o The 2007 edition of Standard 46 incorporated a new buoyancy test, requiring a fully clogged filter to prevent bypass of solids while being subjected to an upward force.

o The 2007 edition of Standard 46 incorporated a change in the size of the beads used for demonstrating solids retention. The previous edition used a bead size of 0.48 cm (3/16 in.). The revision replaced the previous size with two new sizes, both smaller than the previous. The new sizes are 0.178 cm (1/16 in.) and 0.338 cm (1/8 in.). Manufacturers can choose either size. NSF certification will then clarify which bead size was used.

Newly Adopted NSF/ANSI Standard

§ NSF/ANSI 245 Wastewater treatment systems - Nitrogen reduction:

NSF/ANSI 245 was adopted in March 2007, after two years of development. The EPA Environmental Technology Verification Program's Residential Nutrient Reduction protocol and NSF/ANSI 40 provided the basis for development of the

Standard. Certification under the Standard requires Standard 40 Class I certification. As the testing program follows the framework as Standard 40, certification against both standards can be achieved in a single test. Samples for nitrogen reduction testing are collected three times per week and twice during stress sequences. The standard requires that a system meet effluent quality of:

- CBOD5 - 25 mg/L
- TSS - 30 mg/L
- Total Nitrogen - < 50% of average influent TKN
- pH - 6.0 to 9.0 SU

For in depth information about NSF/ANSI 245 see the Standard <http://www.nsf.org/business/wastewater_certification/standards.asp?program=WastewaterCer#245> 245 website.

New Standard Under Development

S Draft NSF 240 Gravelless trench products for on-site wastewater treatment and distribution:

A new standard for gravelless trench products has been under development for the past four years. The scope of the draft standard is for the evaluation of products used as alternatives to traditional stone or gravel trenches, with emphasis placed on hydraulic performance measured over time in comparison to a conventional gravel drain field, tested in parallel with the gravelless trench. The end of test is determined in terms of hydraulic failure, i.e. measurable ponding.

Testing under the standard is completed in a constructed soil matrix made up of a well defined concrete sand that is carefully placed and compacted in a lined trench to allow for collection of all wastewater that has passed through the test and control trenches. Collection of the water from the trenches provides a means for completing chemical testing of the wastewater that has passed through the systems, and provides a means of completing a water balance to account for precipitation on the trenches.

Detailed methodology for preparing the control and test trenches is provided in the standard, with the gravel control having a trench length of 20 feet

and a width based on that of the gravelless trench to be tested, but generally ranging from 1 foot to 3 feet. The gravelless trench will be sized by the manufacturer to account for the claimed reduction in size when compared to the gravel control. Daily dosing to both will be the same in terms of loading pattern, strength and total volume.

The consistency in total volume will cause the gravelless trench to receive a greater volume per square foot than the gravel control, as would be the case under actual use conditions. Wastewater will be of typical residential strength, dosed to the test units after passing through a septic tank. Both the gravel control and the gravelless trench will be tested in triplicate.

A validation test has been completed at the Massachusetts Alternative Septic System Test Center on Cape Cod. The testing identified several test details needing attention, which will be addressed in the next draft of the standard.

And finally, some new words from 2007...

Blamestorming: Sitting around in a group, discussing why a deadline was missed or a project failed and who was responsible!

Seagull Manager: A manager who flies in, makes a lot of noise, craps on everything and then leaves.

Assmosis: The process by which some people seem to absorb success and advancement by kissing up to the boss rather than working hard.

Salmon Day: The experience of spending an entire day swimming upstream only to get screwed and die in the end!

Mouse Potato: The on-line, wired generation's answer to the couch potato.

Stress Puppy: A person who seems to thrive on being stressed out and whiny.

Swipeout: An ATM or credit card that has been rendered useless, because the magnetic strip is worn away from extensive use.

(New Words Continued)

Cube Farm: An office filled with cubicles.

Prairie Dogging: When someone yells or drops something loudly in a cube farm and people's heads pop up over the walls to see what's going on.

Percussive Maintenance: The fine art of whacking the crap out of an electronic device to get it to work again.

Adminisphere: The rarefied organizational layers beginning just above the rank and file. Decisions that fall from the adminisphere are often profoundly inappropriate or irrelevant to the problems they were designed to solve!

OHNOSECOND: That miniscule fraction of time in which you realize that you've just made a BIG mistake!

The Objective of the Kansas Environmental Health Association is to promote competency and effectiveness in sanitarians and other environmentalists engaged in the regulation of the Kansas environment including, but not limited to, food service establishments, commercial food preparation facilities, dairy products businesses, meat processing plants, bakeries, commercial lodging and hotels, swimming pools, water supplies, wastewater treatment and disposal, solid waste collection and disposal, air pollution control, radiation control, hazardous waste materials management, pesticide usage, institutions, schools, nursing homes, hospitals and health care facilities, recreational camps and public events.

Affiliate of the National Environmental Health Association
and the International Association of Food Protection.

Formerly Kansas Association of Sanitarians

We're on the web @ www.e-keha.org

