

# Welcome to the 2019 Annual KRWA

## Conference and Exhibition



**March 26 - 28, 2019**

**“Planting Good Ideas – Harvesting Results”** is the theme of the 2019 Annual Conference & Exhibition for water and wastewater systems sponsored by KRWA. It does take good ideas to gain good results – and many people in utilities – and in KRWA – have been able to help systems harvest results. The KRWA conference provides more than 80 expert presenters who will discuss topics of concern for water and wastewater utilities. This conference also features the largest assembly of vendors showing materials and service within the 365 exhibit spaces. Combined with great food and hospitality, top class entertainment makes the KRWA conference the “go-to” event. Register early and save \$25. This conference is an investment you should not miss. It’s March 26 - 28 at the Century II Convention Center in Wichita, Kansas.



### WHO SHOULD ATTEND?

Everyone is welcome – city council members, mayors, operators, clerks, managers, bookkeepers, RWD board members, administrators, industry and government officials, sanitarians and plumbers! In 2018, registrants totaled 2,280 from 309 cities and 189 rural water and public wholesale systems.

### DATES & LOCATION

**Tuesday, Wednesday, Thursday, March 26 - 28**  
**Century II Convention Center, Wichita, Kansas**



### REGISTRATION

**Early registration** is encouraged. [Register for the preconference sessions on the reverse side of the registration form.](#) Registration forms are at the back of this booklet. Save \$25 with early registration postmarked or called in by March 12. Meal tickets should be specified with early registration. Registration name badges are required to attend sessions, exhibits or meal functions.

**Operator Credits (Water and Wastewater certification) and credits for City Clerks** are posted for each session. Verification forms will be in each operator's packet. Check the box at the top of the registration form for operator credit. The operator **certification exam** is set for

Thursday, 3/28 at 1:30 p.m. in Hyatt Ballroom E. See page 37 for details.

**Registration forms** are printed on the last pages of this booklet. Make additional copies if necessary. Return registration forms with payment to: KRWA, PO Box 226, Seneca, KS 66538. Or, you may register online at [www.krwa.net](http://www.krwa.net) and pay by credit card. Questions? Call 785-336-3760.

**Accommodations** – see page 35 for hotel blocks.



# CONFERENCE AT A GLANCE



## TUESDAY, MARCH 26

- 7:00 a.m. 5K-KRWA run/walk (see p. 36)
- 7:30 a.m. Registration Opens – Connecting Lobby, Century II, Hospitality – beverages, rolls and more
- 8:30 a.m. Spring Golf Tourney – Rolling Hills Golf Club (pay \$75, see registration form)
- 9:00 a.m. Attorneys' Forum (for attorneys only, p. 38)
- 9:30 a.m. City Clerks' (p. 15) and RWD Office Forum (p. 40)
- 9:30 a.m. Engineers' Forum and other preconference sessions begin (pp. 38-42)
- Noon: Lunch, purchase meals on registration form
- 1:00 p.m. Preconference sessions reconvene
- 4:00 p.m. EXPO Hall opens – 365 booths (pp. 52-54)
- 6:30 p.m. Opening Nite – *Meet & Greet!* – barbecue, social, games, \$10,000 in prizes (p. 33); purchase ticket for \$15 on registration form (p. 56)

## WEDNESDAY, MARCH 27

- 7:30 a.m. Registration Opens – Connecting Lobby, Century II, Hospitality – beverages, rolls and fruit
- 8:30 a.m. Opening Session – Concert Hall; Keynote: "The Mayberry Deputy" (p. 43)
- 10:00 a.m. EXPO Hall Opens (pp. 47)
- 10:45 a.m. Concurrent Sessions (pp. 44)

Noon: Luncheon – Century II, Special Guest: Tom J. Sloan, State Representative (ret.) (p. 34)

- 1:30 p.m. Spouse Program – Paint the Town! No additional charge but spouses need to mark their registration form. (p. 43)
- 1:30 p.m. Concurrent Sessions (pp. 45)
- 2:45 p.m. Concurrent Sessions (pp. 46)
- 4:00 p.m. Concurrent Sessions (pp. 48)
- 5:00 p.m. Social in EXPO Hall
- 6:30 p.m. Awards Banquet, Awards Presentations, Entertainment: The musical comedy – *All Night Strut!* (p. 49)

## THURSDAY, MARCH 28

- 7:30 a.m.- EXPO Hall opens – pancakes & more by Chris Cakes in EXPO Hall – breakfast closes at 9:00 a.m. Purchase ticket on registration form
- 8:00 a.m. Annual Meeting of KRWA Membership, Room 209A (p. 37)
- 9:30 a.m. Concurrent Sessions (pp. 50)
- 10:45 a.m. Concurrent Sessions (pp. 51)
- Noon: Luncheon – Century II, Special Guest: Hannes Zacharias, Professor, University of Kansas (p. 34)
- 1:30 p.m. Certification Exam, Water & Wastewater Small Systems, Classes I - IV, Hyatt Ballroom E (p. 37)

## TUESDAY EVENING "MEET & GREET"

### OPENING NITE – BBQ, GAMES, SOCIAL AND \$10,000 IN PRIZES!

#### Doors open at 6:30 p.m. Century II Convention Center

This Opening Nite *Meet & Greet* is a relaxing way to end a full day of preconference sessions. There's going to be plenty of food and social. And there's a carnival – a Midway inside Century II complete with an amusement ride that will have you swinging over the event. The KRWA conference is one big, down-home, happy family. Kansas' oldest Rock N' Roll band, King Midas & The Muflers, will be playing for your listening and dancing enjoyment. It's complete with more than 30 games, including midway game trailers, a casino, a photo booth, laser skeet shoot, an O<sub>2</sub> Bar and "The Spider" ride.



And there's a chance to win \$10,000 in putt-putt golf! There's something for everyone! Want your face drawn? See one of the caricaturists. Want to win prizes? Then take part in the games. The ticket price for this full event is only \$15 for an evening of food and fun. Everyone who attends has a chance to win one of the ten \$250 VISA gift cards drawn from admission tickets. Win at the games and then place your tickets for prizes that you select. The drawings begin at 9:45 p.m. Winners must be present. This year's menu again has great barbecue, potato salad, baked beans, cole slaw, dessert and beverages. It's one big party. There is nothing like it for a conference opener.

This is the seventh year for the appearance of King Midas & The Muflers band at the KRWA conference. These guys play real music! King Midas specializes in oldies – songs of the 50s, 60s and 70s. These guys do rock!

Play the games, rack up the tickets, renew acquaintances and make new friends at the Opening Nite *Meet & Greet!* Purchase your ticket [on the registration form](#).

# WHAT THIS CONFERENCE OFFERS

**9 preconference sessions** on Tuesday, March 26; early registration is required. See pages 38 - 42

**48 concurrent sessions**, Wednesday and Thursday. See page 44 and beyond for these sessions.

**365 exhibit spaces** in EXPO Hall with the latest in products and services. See pages 47 for the floor plan.

**Attorneys' Forum – for lawyers only** – a great opportunity to learn more and exchange information. Open at no charge to attorneys of KRWA-member utilities. See page 38.

**Opening Nite – Meet & Greet!** This is the “one-of-a-kind” conference opener with great food and social, games to play to earn tickets for the prizes worth more than \$10,000. Kansas’ oldest rock ‘n roll band, **King Midas and the Mufliers** will be playing favorite hits. Opening Nite *Meet & Greet* tickets are available for a nominal fee of \$15. See page 33.

**Opening Session & Keynote – The Mayberry Deputy** – returns to entertain and challenge the audience at the 2019 KRWA conference. David Browning is an impersonator and improvisational master and speaker. Lots of good clean fun. Watch for “The Deputy” also during the *Meet & Greet* party. See page 43.

**Special Guests - Thomas J. Sloan, Ph.D., State Representative (ret), Wednesday luncheon speaker; Hannes Zacharias, Professor, Univ. of Kansas, Thursday luncheon speaker.** See page 34.

**Best Tasting Water Contest, WaterPAC Raffle**, page 37.

**Awards Banquet and Entertainment** – recognition of Kansas’ Best – Operators, Managers and Administrators. Then it’s the rollicking musical, *The All Night Strut!*, page 49.

**Spouse Program** – Wednesday, 1:30 p.m., “Paint the Town” This program was an absolute hit in 2018 and the unanimous request was to Paint the Town again in 2019. You don’t need to be an experienced artist; this is plain fun for gals and guys. Set up will be in Convention Hall. See page 43.

**Operator Certification Exam** – the certification exam will be given for Small System (SS) and Class I - IV Water and Wastewater, Thursday afternoon. Be in Ballroom E at 1:30 p.m., March 28. Refresher courses on Tuesday and Thursday. See page 37 for information on obtaining an exam application form.

**Annual Membership Meeting** – Thursday, March 28 at 8:00 a.m. in Room 209A. See page 37.

**Spring Golf Tourney** – Tuesday, March 26 at the Rolling Hills Golf Club, 223 S. Westlink (off of Maple and Tyler in west Wichita). This is a four-person scramble. (Name your team members). Register to play golf on the KRWA registration form. The \$75 fee includes green fees, cart rental and box lunch. Remit payment to KRWA. No jeans and no spikes!

# SPECIAL GUESTS

## Thomas J. Sloan, Ph.D

State Representative (ret.)



### “The Power of One”

**R**ep. Tom Sloan, Kansas’ 45th District State Representative (ret.) served twelve terms as a member of the Kansas House of Representatives. During that time he provided outstanding legislative leadership on behalf of rural utilities and services including state laws that impacted Kansas municipalities and rural water districts. Tom was a key member in the effort to gain sales tax exemptions on purchases by water systems and the establishment of the Clean Drinking Water Fee.

Tom holds bachelor degree from Syracuse University, master degree from Michigan State University and Ph.D from the Univ. of North Carolina at Chapel Hill. He has professional employment at Kansas State University, Kansas Nurses Association, Getty Refining, the Kansas Senate where he was Chief of Staff to Senate Majority Leader and President, Kansas Dept. of Corrections, Western Resources and Sloan & Associates Strategic Planning. He has professional experience with service to numerous state and federal commissions. For example, Tom is presently a member of the US EPA Local Government Advisory Committee.

Tom’s address at the Wednesday luncheon will be entitled “The Power of One” in which he will detail successful methods for communicating with legislators, how to develop a call to action and identify legislative agendas.

## Hannes Zacharias

Professor, University of Kansas



### “Kayaking Down The Ark”

**F**ew people have ever kayaked the full length of the Arkansas River once yet alone, twice. Yet, that is exactly what Dodge City native Hannes Zacharias did in 2018. In 1976, in the spirit of adventure and somewhat as a nod to his father, Hannes solo kayaked the Arkansas River from Dodge City, KS to New Orleans. Upon completion, he promised himself to do it again, only this time following the entire 2060 mile length of the Ark river from Tennessee Pass in Colorado to Venice Louisiana, the mouth of the Mississippi. In 2018 Hannes, at age 64, was able to fulfill this promise made some 42 years earlier.

Hannes Zacharias currently serves as the “Bob Kipp, Professor of Practice in Public Administration” at the University of Kansas in Lawrence, Kan. He has more than 35 years of experience in the field of Public Administration serving in a host of capacities in Federal, State, County, and City governments. Positions include Assistant Director for the Kansas Dept. of Travel and Tourism; Program Manager for the Kansas Division of the Ozarks Regional Commission; Assistant Director for the Kansas Arts Commission; Management Analyst for the City of Lawrence, KS; City Manager for the City of Boonville, MO; City Manager for the City of Hays, KS; and Assistant County Manager, Deputy County Manager, and County Manager for Johnson County, KS.

Relaying his recent kayak experience, making comparisons to 1976, and revealing what he has learned about the environment, adjacent communities, and himself are all part of this enjoyable presentation.



## ACCOMMODATIONS

**Ambassador Hotel**, 104 S. Broadway, Ph. 316/239-7100; comp shuttle to Century II. \$162 flat

**Best Western Plus Eastgate Inn & Suites**, 8300 E. Kellogg; Ph. 316/682-3000. Free breakfast; new hotel in 2009; Use Group ID 2Y9BN7Y6; Single or Double \$79

**Best Western Governors Inn & Suites**, 4742 S. Emporia, Ph. 866/522-0775 or 316/522-0775; comp. Deluxe hot breakfast; Fully renovated in 2015; \$79.99 flat

**Best Western Plus West Wichita Airport**, (Formerly Hampton Inn) 3800 W. Kellogg; Ph. 316/945-4100; comp. airport shuttle and deluxe hot breakfast bar; \$89.99 flat.

**Best Western Wichita North Hotel & Suites**, 915 E. 53rd St. North; Ph. 316/832-9387; Hot Breakfast Buffet; \$82.99 Flat

**Clarion Hotel**, (Formerly LaQuinta), 5500 W. Kellogg; Ph. 316/943-2181; complimentary deluxe continental breakfast; newly renovated; \$85 flat

**Courtyard by Marriott** (in OldTown), 820 E. 2nd Street North; Ph. 866-522-8909; \$156 Flat

**Drury Plaza Hotel Broadview**, 400 W. Douglas; Ph. 316/262-5000; Newly renovated; Free hot comp. breakfast; free 5:30 Kickback; Use group #2280438; \$8.00 daily parking fee; Single or Double \$162

**Fairfield Inn Suites by Marriott**, Wichita Downtown, 525 S. Main. New in 2011. Comp. shuttle to Century II; expanded comp. breakfast. Ph. 316-201-1400; \$132 King or Queen

**Holiday Inn Select**, 549 S. Rock Road; Ph. 888/558-5113 or 316/686-7131, for king or double, (one to four persons); \$95 flat

**Hotel at Old Town**, 830 E. First, complimentary parking garage; complimentary hot buffet breakfast; Ph. 877/265-3869; \$145 Queen; \$145 King

**Hotel at Waterwalk**, 711 S. Main St., Downtown Wichita; Ph. 316/263-1061, within walking distance of the Event Center; Complimentary Cook-to-Order Breakfast and Shuttle; \$119 Kings; \$129 Doubles and One Bedrooms; \$159 Loft Suites

**Hyatt Regency**, attached to Century II, complimentary parking garage; Ph. 316/293-1234; \$163 single; \$163 double

**LaQuinta Inn & Suites**, 6335 W. Kellogg Dr.; Ph. 316/943-2373; complimentary hot breakfast; \$85 flat

**Red Roof Inn & Conference Center**, 6815 W. Kellogg; Ph. 316/942-5600. Free breakfast; comp shuttle to Century II. \$70.99 flat

**Wyndham Garden Hotel** (formerly Holiday Inn), 221 E. Kellogg; within walking distance to Century II, comp. breakfast; Ph. 316/269-2090; \$99 Single or Double

## RECOGNITION AWARDS



### The Best in Kansas

- ★ Best Tasting Water
- ★ Friend of Rural Water
- ★ Rural Water Operator
- ★ Municipal Operator
- ★ Rural Water Manager
- ★ Municipal Business Manager
- ★ Rural Water Office Manager
- ★ Wastewater Operator
- ★ Most Improved Water System
- ★ Special Recognition
- ★ Conger Award





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# TUESDAY MORNING WAKE UP!

# A UNIQUE CONFERENCE . . .

## THE “ALMOST 5K-KRWA CONFERENCE RUN/WALK”

It may be cool out but we're ready to run! Join in this 2.75-mile run/walk that takes you along the Riverwalk path adjacent to the Arkansas River near Century II. You don't have to be a professional runner to enjoy an early morning outing.

When and where? Assemble in the area of the registration booth in the Connecting Lobby at Century II at 7 a.m.

The route is from Century II, south, across the Arkansas River and then north to Exploration Place. Then turn east; watch the sun rise over the Keeper of the Plains as you cross back over the Arkansas River. Then follow the Riverwalk past the Drury Inn and you're into the home stretch with the finish line back at Century II.

There's no cost to participate. The top three placers will receive trophies. Only registered conference attendees may enter. This run/walk is not open to the public!

All ages and paces are welcome! Let's make it fun!



**DATE: TUESDAY MARCH 26**

**WHERE TO START: CONNECTING LOBBY,  
CENTURY II**

**TIME: 7 AM, RAIN OR SHINE**

**DISTANCE: 4.4K - 2.75 MILES**



Back by popular demand! The *Butler Headliners* will help get the 52nd Annual Conference off to a rousing start with a musical revue, “From Page to Stage” at the Opening Session, Wednesday, 3/27 at 8:30 a.m. in Concert Hall.

## HERE ARE SEVEN REASONS TO ATTEND

**Access:** Enjoy unmatched access to colleagues and leaders from all facets of the water and wastewater industries. This conference has you among friends!

**Learning:** No matter how experienced you are, everyone can learn. Discover the best practices, insights, and trends that will help make you and your community stronger.

**Develop Partnerships:**  
Explore new opportunities with funding agencies and others.

**Meet Experts:**  
Benefit from the expertise of some of the leading authorities in Kansas and from across the United States.

**It's a Value:** Gain access to all the resources you need while you participate in preconference and concurrent sessions and explore EXPO Hall. The exhibition is among the largest in the U.S.

**Model Practices:** Discover innovations and solutions that can make an impact on your community. This conference is not a cost; it's an investment.

**Network With Others:** Expand your network of peers and meet people you can turn to for ideas that can serve you and your community. We learn from each other. Share your challenges and successes.





# CONTESTS – WATERPAC

## BEST TASTING WATER IN KANSAS CONTEST

Every water system has good water – but some may be better than others. Let's put them to the test. In 2002, the city of Emporia won and was among the five finalists in the nation; in 2003, Public Wholesale District No. 4 won and placed first in the nation! In 2012 and 2016, Emporia placed second and third place respectively in the national contest. The winner in 2018 was WaterOne.

How to enter? It's easy. Bring a one gallon sample of water (in a glass container) from your city or rural water district to the registration desk at Century II by noon on Tuesday, March 26. A panel of water industry professionals will judge the samples that afternoon. The winner goes on to represent Kansas in the Great American Water Taste Test at National Rural Water's "Rural Water Rally" in Washington, D.C. The 2018 winner, WaterOne, will be entered in the 2019 national contest which will be held in Washington in February. The KRWA winner at the 2019 conference will be entered in the national contest in 2020.



## EXPO HALL IS NO LONGER WIRELESS

Century II Convention Center now requires users to purchase Internet access. Internet access is available for purchase by opening a web browser and selecting a plan. Or use your cell phone data plan.

## SUPPORT "RURAL WATER" THROUGH THE WATERPAC RAFFLE

The WaterPAC Raffle supports the National Rural Water Association's political action committee. In 2018, a total of \$7,716 was raised for WaterPAC. As an affiliate of the National Rural Water Association (NRWA), KRWA members benefit from the legislative representation of NRWA in Washington. The WaterPAC Raffle is an opportunity for conference-goers to support the NRWA political action committee. Stop by the WaterPAC booths **103 and 104** in EXPO Hall to make a donation and have opportunities for drawings for great prizes.



# CERTIFICATION EXAMS

## WATER OR WASTEWATER OPERATOR CERTIFICATION EXAM – SMALL SYSTEM, CLASS I, II, III AND IV

Thursday, March 28, 1:30 P.M.

### Hyatt Ballroom E

The Kansas Department of Health and Environment requires that the exam application be received by KDHE at least two (2) weeks prior to the exam date (or March 14). For an exam application, please call KDHE at 785/296-5511 or print an application from KDHE's Web site [www.kdhe.state.ks.us/water/www.html](http://www.kdhe.state.ks.us/water/www.html). Click on the appropriate link for the water or wastewater application. **The application and payment must be mailed to KDHE and be postmarked by March 18.** The exam will begin at 1:30 p.m. to allow operators ample time to attend the Thursday noon lunch.



## CELL PHONE ETIQUETTE – RESPECT FOR OTHERS

Friends, every cell phone call is not an emergency. Cell phones are great conveniences. But it is not other people's responsibility to cope with everyone else's mobile phone use. It's everyone's responsibility to use their mobile phone inoffensively.

KRWA requests that when attending the opening session, concurrent training sessions, noon luncheons or other events during the conference, **cell phones should be silenced.** It is a matter of courtesy to the speakers and to others who are attending. No one wishes to be distracted because of a ringing cell phone or someone taking a call when in a group. If you receive a call, depart the room and return the call or wait until break.

## ANNUAL MEMBERSHIP MEETING

The annual meeting of KRWA membership and business meeting will be held in Meeting Room 209A beginning at 8:00 a.m., Thursday, March 28. Delegate forms were mailed to all voting members on January 3, 2019. Check with your city or RWD's office to ensure that your voting delegate is registered.

# ATTORNEYS' FORUM

**Tuesday, March 26,  
9:00 a.m.  
Hyatt Trail Rooms**

## **PLANTING GOOD IDEAS – HAR- VESTING RESULTS!**

This program marks the 19th consecutive year for the KRWA Conference Attorneys' Forum.

Those attending must be attorneys who represent KRWA-member water or wastewater systems. Attendees receive 6.5 hours of Continuing Legal Education (CLE credit). The forum offers a unique opportunity for attorneys to develop relationships with peers but more importantly, to participate in discussions on topics of concern. There is no charge for attendance. The forum is limited to the first 40 registrants.

**7:30 a.m.: Registration opens.** Enjoy complimentary coffee, juice and rolls available in Connecting Lobby, Century II Convention Center.

**9:00 - 9:50: Current Issues at the Kansas Water Office** – Earl Lewis, Interim Director, Kansas Water Office, Topeka, Kansas

**9:50 - 10:40: The Verdict Is In: Great Film – Ethical Disaster** – Penny R. Moylan, Deputy Disciplinary Administrator, Topeka, Kansas

**10:40 – 10:55: Break**

**10:55 – 11:45: The Future of Water in Kansas – A View From the Legislature** – Representative Tom Sloan (Retired), Kansas House of Representatives, Lawrence, Kansas

**11:45 – 1:00: Lunch:** Lunch provided, compliments of KRWA

**1:00 – 2:30: Roundtable Discussion (Part I): Age Discrimination and Local Government; Easement Descriptions/Changes in Location; Leasing of Towers for Commercial Antennas; Other Topics of Interest**

**2:30 – 2:45: Break**

**2:45 – 3:45: Roundtable Discussion (Part II): Recent Cases and AG Opinions, New/Pending Legislation; KORA Exceptions; Collecting a Debt From Governmental Entity; Other Topics of Interest**

**3:45: Adjourn.** EXPO Hall opens. *Meet & Greet* Opening Nite Party at 6:30 in Convention Hall, Century II Convention Center.



**9:30 a.m., Room 210A**

## **2019 ENGINEERS' FORUM FOR WATER AND WASTEWATER SYSTEMS**

While this forum may appear to be for "Engineers", it is open to anyone who may have water, wastewater or other essential community facility improvement needs. This training will provide the most current Guidance for the Use of Engineers Joint Contract Documents Committee (EJCDC) Documents on Water and Waste Projects with RUS Financial Assistance (RUS 1780-26) and information on the continued compliance of American Iron and Steel (AIS) Requirements with Rural Utilities Service Financial Assistance (RUS 1780-35). In addition, Agency personnel will be presenting the latest updates to the Agency's ePER and RD Apply. This training will help engineers, environmental consultants, and other professionals that provide services to applicants by preparing Engineering and NEPA documents.



**7:30 a.m.: Conference registration opens:** in Connecting Lobby at Century II Convention Center. Enjoy complimentary coffee, juice and rolls.

**9:30 – 9:45: Welcome and Logistics:** Richard Boyles, Program Support Director, Rural Development, United States Department of Agriculture

**9:45 – 11:45: AIS (1780-35) and E-Per:** Randy Stone, Civil Engineer, Rural Development, United States Department of Agriculture

**11:45 – 1:00: Lunch:** purchase ticket on registration form

**1:00 – 2:00: RD Apply:** USDA Rural Development

**2:00 – 2:15: Break**

**2:15 – 2:45: EJCDC (1780-26) and General Engineering Discussion:** Randy Stone, Civil Engineer Rural Development, United States Department of Agriculture

**2:45 – 3:15: Program Topic Updates:** Dan Fischer, Community Programs Director, Rural Development, United States Department of Agriculture

**3:15: Wrap-up and Questions**

**3:30: Adjourn.** EXPO Hall opens at 4:00 p.m. Opening Nite *Meet & Greet* begins at 6:30 p.m. in Convention and Exhibition halls.

**No operator credit is awarded for attendance.**



# PRECONFERENCE SESSIONS

## TUESDAY MARCH 26

9:30 a.m., Hyatt Ballroom D

### WATER OPERATOR FORUM – PREPARING FOR CERTIFICATION EXAMS

This session is a must for operators planning to take the KDHE certification exam. This session offers water operators an excellent opportunity to refresh and to review prior to taking the operator certification exam. Even those operators already certified will find this session very informative.



The session will review a number of sample questions and provide the correct answers, including a short explanation of why the answers are correct. These sample questions will cover a number of topics including the following:

- Chlorination concepts (free vs. combined, etc.)
- Chlorine residual monitoring
- Sample collection procedures (bacteriological, THM/HAA5, lead and copper, etc.)
- Well operation and maintenance
- Knowledge of water quality issues
- Regulatory update/Maximum Contaminant Levels (MCLs)
- Distribution system operation, including leak detection, waterline disinfection procedures, water loss, storage tanks
- Review of plans required by KDHE, including Emergency Operation Plan, Cross-Connection Control Program, Bacteriological Sampling Plan
- Safety issues and procedures (safety hazards, chemical handling, gas chlorine, etc.)
- Basic math calculations including surface area, volume, chemical dosages, water pressure, etc.

The material presented in this session will be helpful to Small Systems and Class I operators planning to take the exam. Also, all levels of certification should find the information useful. There will be ample time available to answer your questions, so don't be shy!

#### Presenters:

**PAT McCool**, Kansas Rural Water Assn., Wichita, Kansas

**BERT ZERR**, Kansas Rural Water Assn., Manhattan, Kansas

**Water operators who attend will receive five hours of credit towards operator certification renewal.**

9:30 a.m., Hyatt Ballroom E

### QUALITY WATER DISTRIBUTION – PRACTICAL THOUGHTS AND ACTIONS FOR OPERATORS

From a child's bath water to aging individuals living out their final days, everyone in the community will come in contact with your water every day. The very flow of your community's economy and health is dependent on that delivery of clean safe water. But that comes with many challenges. With the average age of a system exceeding 40 years and replacement expensive (okay, outrageously out of budget), maintaining what you have is all that can be hoped for.



Flushing is a necessary yet often overlooked part of distribution maintenance. It promotes public health and prolongs the life of an already aging system. Determine the frequency for system flushing and know when the flush is complete. Your flushing program may not fit the standard one or two times a year and you may be working harder than you need to be. Find out.

Damage happens, but you can take steps to prevent man-caused accidents. Knowing where the pipes are is the challenge. Learn some tricks of the trade from a multitude of operators for many of the sciences now available.

System resources need to be a priority as time and finances are limited. Your water is precious as is your time. They need to be treated that way. A water audit is okay, but incomplete. There are methods available which will not only tell you where your revenue stream is lacking, but how much is being lost also.

Set your priorities based upon knowledge instead of guesswork. This pre-conference will cover the basics of quality water distribution.

**Presenter: DON VAN VELDHIJZEN**, USABlueBook, Gurnee, Illinois

*Moderator: David Rinaldi, Leavenworth RWD 7*

**Water operators who attend will receive five hours of credit towards operator certification renewal.**





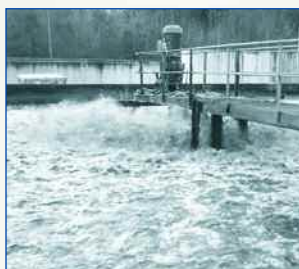
# PRECONFERENCE SESSIONS

## TUESDAY MARCH 26

9:30 a.m., Room 209 A

### MICROBIOLOGICAL MONITORING OF ACTIVATED SLUDGE PROCESSES

This presentation was so much in demand in 2018 that KRWA is pleased to have Toni Glymph-Martin return to present again in 2019.



The objective of this presentation is to teach the operators, lab personnel and consultants how to optimize the wastewater treatment plant processes using the microscope and knowledge of wastewater microbiology. In this class the wastewater professional will learn how to identify the microorganisms that are favorable to the activated sludge treatment process and gain an understanding of how to maintain the proper environment for their growth. The class will include understanding and methods for controlling, identifying and monitoring microorganisms in biological phosphorus and nitrogen removal systems. Participants will also learn to diagnose treatment system problems based on the microbiology of the system and will gain an understanding of identifying and controlling filamentous bacteria.

The instructor will present simple and practical step-by-step laboratory procedures for tracking, identifying and diagnosing conditions in activated sludge processes.

The microorganisms are responsible for removing the nutrients from the wastewater. Therefore, it is important to understand the conditions that allow them to do their best work. And the system operators need to do their best to create these conditions.

Toni's motto is "If you treat the bugs right, they will treat your wastewater right."

#### Presenter:

**TONI GLYPH-MARTIN**, Metropolitan Water Reclamation District of Greater Chicago, Chicago, Illinois

*Moderator: Charlie Schwindamann  
Kansas Rural Water Association*

**Wastewater operators who attend will receive five hours of credits towards operator certification renewal.**

9:30 a.m., Room 209 B

### CITY CLERKS' FORUM; HARVESTING RESULTS

The role of a city clerk is often a misunderstood position in local government. The tasks are dictated by law or statute and include some of the most basic services expected by residents. In fact, municipal clerks are often the first and most direct link between residents and government. This City Clerks' Forum will provide valuable information on two subject areas: Human Resource Pitfalls and Data Security.

**9:30 a.m. to noon:** Human Resource Pitfalls That Can Cost. Tim Huston weighs on his experience of providing human resource support serving nearly 90 clients in Kansas and other Midwestern states. Many of those clients have little or no HR departments. Here are topics Tim will discuss:

- **Employee Handbooks – What's Needed, What's Not:** 10 most common handbook mistakes
- **Harassment Cases - Dos and Don'ts:** How to protect your city; policies; investigations – when, where & how
- **Employment Classification (We're still doing it wrong!):** Exempt / non-exempt status; overview; what is the big deal?; what do the new regulations mean?; FLSA checklist
- **Proper Documentation:** I-9s do's and don'ts; job descriptions – make them lawsuit-proof; what not to put in personnel files
- **What policies are needed?:** Employment at will; probation; progressive discipline

**Presenter: TIM HUSTON**, Human Resource Solutions, LLC, Overland Park, Kansas

#### 1:00 – 4:00 p.m. Cybersecurity, Data Security, Data Transfer, and Working with Vendors Related to These Fields:

This training will be highly engaging and provide a broad overview of options available in the market for housing of data and risks affiliated with different storage options. The transfer of data will also be reviewed as an aspect to consider prior and post transferring of data. Equipment storage, maintenance, and destruction will be addressed. Vendors will also be discussed during these topics and what questions should be asked to determine who is providing the best solution available.

**Presenter: CHAD HOLLINS**, Collection Bureau of Kansas, Inc., Topeka, Kansas

*Facilitators: Kim Everley, City of McLouth  
Julie Stutzman, City of Lyndon*

**No operator credit is awarded for this session.**

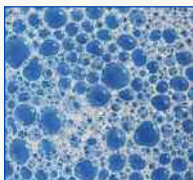
**The IIMC Education Department has reviewed and approved this City Clerks' Forum for one CMC Experience point or one MMC Professional and Social Contributions point.**

# PRECONFERENCE SESSIONS

## TUESDAY MARCH 26

9:30 a.m., Room 210 C

### MICRO BUBBLE DIFFUSION TREATMENT TECHNOLOGY



Updating old wastewater lagoons to meet current NPDES effluent limits can be a daunting task for any municipality or industrial plant. Many times, the cost of going to an entirely mechanical or activated sludge plant is not practical or feasible.

Micro Bubble Diffusion (MBD) has been used with various types of industries and installed in many locations and using numerous designs to accommodate customer needs since 1995. These applications mainly deal with wastewater for small communities in their attempts to upgrade or achieve optimization of their wastewater treatment processes for both mechanical plants and municipal waste lagoons.

While networking with engineers and private companies, efforts have been successful in helping small communities save time and money with the application of the MBD technology.

The city of Ackley, Iowa has been using the MBD since August 2001, replacing their original blower system and removing 30 inches of sludge from the cell one (1) lagoon.

MBD has also proven very successful with animal waste lagoons. A special adapted MBD application has been used for removing BTEX (Benzene, Toluene, Ethyl benzene, and Xylenes), which are contaminants from underground storage tanks at former gas stations where leakage of fuel into the groundwater has contaminated the water and soil. The technology is effective, energy-efficient and environment-friendly to clean up contaminants, which has great potential in groundwater remediation

Special applications include a 6.5 million poultry processing plant, and an industrial application with bottling operations. Applications in California include wineries, breweries and food processing plants. Each situation and solution is unique.

Attend this session to learn about Micro Bubble Diffusion and the benefits that have been achieved in their use.

**Presenter:** JOHN JACOBS, WTR Solutions, LLC  
Earlham, Iowa

*Moderator: Jeff Lamfers, Kansas Rural Water Association*

**Wastewater operators who attend will receive 5 hours of credit towards certification renewal.**

9:30 a.m., Room 210B

### BOARD/COUNCIL LEADERSHIP – LEADING MORE EFFECTIVELY!



Board and council members often find themselves feeling stuck and frustrated, dreading the next conflict-riddled board meeting and seeing no way to effectively govern their system. This dynamic team of presenters will provide some cutting edge tools designed to give board members confidence and help them develop their governance skills. Financial/budget difficulties, personnel issues, construction or renovation project complications, territorial disputes with neighboring utility systems. These are the types of problems that require an innovative approach to leadership and decision-making.

This training will help boards and councils look at obstacles as opportunity and show them how to navigate a path to successful conflict resolution and strong, effective governance. Here are a few of the topics that John Hawley and Elizabeth Dietzmann, Esq. will cover:

- How do you keep discussions on topic in board/council meetings and public hearings when voices are raised and tempers are high?
- How can you be the best leader under stress – when there are conflicts with customers, and fellow board/council members or employees?
- Can you really develop a culture of collaboration and consensus when everyone disagrees?
- How do you walk the tightrope between transparency as a public body and the need for confidentiality?

This program was modified from that printed in the conference booklet because of a scheduling conflict. John Hawley and Elizabeth Dietzmann will present this training. John Hawley is a proud member of the armed forces who is moving his expertise as a human behavior specialist from the Navy into corporate America. He is a master facilitator. Elizabeth Dietzmann has been consulting with small and not-so-small utility systems faced with legal and governance problems ranging from territorial encroachment to board conflict to funding dilemmas.

Together Elizabeth and John bring a fresh and innovative and FUN approach to team-building and board management. Come prepared to learn and laugh!

**Presenters:** JOHN HAWLEY, JWH Enterprise, LLC,  
Virginia Beach, Virginia

ELIZABETH DIETZMANN, ESQ., Virginia Beach Virginia

*Moderator: Art Boyd, Ellsworth RWD 1 (Post Rock)*

**No operator credit is awarded for this session.**



# PRECONFERENCE SESSIONS

## TUESDAY MARCH 26

9:30 a.m., Room 202

### RWD OFFICE FORUM —

The administration of a rural water district requires office staff to be knowledgeable and responsible for answering external customer calls related to urgent water-related matters such as billing, district policies, service outages or a water quality concern. This RWD Forum is intended to better equip RWD managers and office staff with resources so they can be as prepared as possible to deal with customers, agencies and others.



9:35 a.m. - 11:00 a.m.: **Keeping All Things Legal**

Attorney Todd Luckman leads this first section of the Forum with summaries of these topics: Customer Bankruptcies; Tax Exemptions; Office Embezzlement/Theft; Rate and Rate Disputes; Billing Errors and Late Fees; Investment of Idle Funds; Customers With Multiple Connections.

**Presenter:** TODD LUCKMAN, Stumbo Hanson, LLP,  
Topeka, Kansas

11:00 a.m. - 12:00 p.m.: **Policies And Procedures**

Human Resource consultant Tim Huston will discuss these topics: Employee Handbooks and the Ten Most Common Handbook Mistakes; Harassment Cases – Dos and Don'ts; Employment Classification (We're Still Doing It Wrong!).

**Presenter:** TIM HUSTON, Human Resource Solutions,  
LLC Overland Park, Kansas

1:00 p.m. - 4:00 p.m.: **Payroll Matters**

Accountant Mike Peroo will discuss these topics: Employee vs Contractor; Planning Suggestions for Future Expenses; Accounting Reports for the Board; and, Indicators That a Rate Change May be Needed. Mike has found that open discussion is a very good learning tool so plenty of time will be reserved for questions.

**Presenter:** MIKE PEROO, Mike Peroo, CPA, Olathe,  
Kansas

*Facilitators: Kristen Smith, Coffey RWD 3  
Brenda Adkins, Jackson RWD 3  
Karen Stromgren, Osage RWD 7*

**No operator credit is awarded for this session.**

9:30 a.m., Room 203

### EXCUSE ME, DO YOU KNOW THE WAY TO GREAT RATES?

Rate setting covers a lot of territory. Most of this territory needs to be traversed by the utility's board or council, and some staff. Are the rates fair? Are they adequate? Sure, you hate asking others how to get through this territory, but you must:



- How do we get "Yes" from the ratepayers? Or, more accurately: How do we get, "Well, okay, I'll go along" from them?
- Are the rates we are thinking about adopting adequate (sustainable)? Fairly structured? Easy to explain and understand?
- Do we need "system development fees," or will a simple flat connection fee do? Or, what about no connection fee at all? And, how do we calculate these things?
- Rate study, rate analysis, rate calculation – what do we really need?
- Oh, yeah, and what are the basic steps and math to setting fair and adequate rates?

This session will be led by the Kansas RATES Program rate analyst, Carl Brown. It will cover all this territory and then some.

Bring your questions, your troublesome situations, your solutions if you have them, and we'll send everyone off with some useful rate setting directions.

**Presenter:** CARL BROWN, GettingGreatRates.com  
Jefferson City, Missouri

*Moderator: David Steffen, City of Cunningham*

**No Operator credit is awarded for this session.**

**The IIMC Education Department has reviewed and approved this City Clerks' Forum for one CMC Experience point or one MMC Professional and Social Contributions point.**

# OPENING SESSION WEDNESDAY MARCH 27

**7:30 a.m.** Registration Opens, connecting lobby, Century II; complimentary coffee, juice, rolls and more at the entrance to Concert Hall. Exhibits open at 10 a.m.

## OPENING SESSION

### 8:30 a.m., Concert Hall, Century II

- Welcome: Paul Froelich, President, KRWA
- Invocation: Allan Soetaert, Treasurer, KRWA
- Musical Revue: Butler Headliners – “From Page to Stage”

## KEYNOTE SPEAKER

### THE MAYBERRY DEPUTY PLANTING GOOD IDEAS – HARVESTING RESULTS

David Browning, “The Mayberry Deputy” will entertain and challenge the audience in the Opening Session at the 2019 KRWA Conference & Exhibition. As an impersonator, improvisational master and speaker, Browning uses costuming, gestures, facial expressions, and audience participation to bring out the flavor of The Deputy and to provide an atmosphere of good, clean fun. This is The Deputy’s third appearance at a KRWA conference.

“The Mayberry Deputy” character began in 1988 when a friend of Browning hired The Dillards, known to watchers of The Andy Griffith Show as the “Darling Boys”, to play bluegrass music in Bristol, Tennessee. Browning, who started out in community theatre, put together a “Barney Fife” type act based on a sense of recall which made that first performance a hit. Soon after, Browning was asked by The Andy Griffith Show Rerun Watchers Club to perform at a Mayberry Reunion held at Opryland in Nashville.

We will be entertained and enlightened by “The Mayberry Deputy” because it reminds us of a time gone by. “We live in a world where people are searching for their own Mayberry,” Browning says. “I value this character for what it gives people today....a laugh, a lift and memories.”

**Water and wastewater operators will receive 1.5 hours of certification credit for attendance; must be there at 8:30 a.m.**

**Special Note:** A drawing will be held for two \$250 VISA cards at the close of the Opening Session. Turn your ticket in when you enter the Concert Hall for the Opening Session.



# SPOUSE PROGRAM

## SPOUSES ARE GOING TO “PAINT THE TOWN”!

The 2019 Spouse Program is a “party with a purpose”.

Join in this fun-filled spouse program beginning at 1:45 p.m. on Wednesday, March 27 at Century II Convention Center. This program will be held in Convention Hall. There is no extra charge to attend but those planning to attend need to let KRWA know on the registration form so that a sufficient number of chairs, canvas and paint – and food and drinks – will be available. Someone wanted chocolate-covered strawberries? Okay, KRWA will have them. Remember, this program costs KRWA money – and KRWA wants there to be adequate seating, materials and food and drinks so if you plan to attend, register – and if you register, plan to attend.

“Paint the Town” will be an unforgettable afternoon of fun, friends, and fine art ... Where you enjoy the food and drink and KRWA provides the canvas!

In a few fun hours you can create your own work of art by just following the instructions of the teacher. All materials will be provided.

This is sure to be an afternoon of fun – and everyone produces a painting close to the original.

No painting experience? None is needed – promise! Whether you have never painted before or are an experienced artist, this party is for you. There’ll be step-by-step instruction by an excellent teacher who somehow helps turn dots, lines, shapes into a full-blown masterpiece.

Again, there’s no extra charge for spouses to attend – but you must indicate your intentions to attend on the registration form so that adequate seating and materials – and food and drink, are available.





# CONCURRENT SESSIONS

## WEDNESDAY, MARCH 27, 10:45 A.M.

### Hyatt Ballroom D

Moderator: Galen Penner  
Marion RWD 4

Op. Credit: W

#### CHLORINATION AND RESIDUAL TESTING FOR SMALL SYSTEMS

The most important job of an operator is delivering safe drinking water. A simple method to ensure safe water is chlorine disinfection. This presentation by KDHE will focus on the challenges that public water supplies face when chlorinating, re-chlorinating and maintaining the minimum chlorine residual required by the Safe Drinking Water Act. This session reviews chlorinating raw water and the challenges of re-chlorinating purchased finished water, measuring chlorine residual and techniques to maintain residuals.

**Daryn Martin**  
Kansas Dept. of Health & Env.  
Wichita, Kansas

### Hyatt Ballroom E

Moderator: Matt Higgins  
City of Elkhart

Op. Credit: WW

#### WASTEWATER UTILITY INSPECTIONS: WHAT TO EXPECT

Ever wonder what KDHE looks for in wastewater inspections? We're going to try and answer your questions. Here are some of the topics to be covered. How often are wastewater treatment facilities inspected? Who are these KDHE people who show up? What are the goals of the inspections? What information does the inspector want to know about the treatment plant/lagoon? How about the collection system and lift stations? What actions should an operator never do?

**Darrell Shippy**  
Kansas Dept. of Health & Env.  
Hays, Kansas

### 209 A

Moderator: Andy Prebble  
City of Sterling

Op. Credit: W, WW

#### A RIGOROUS APPROACH TO PROTECT FROM LIGHTNING STRIKES

This session will present a complete overview of the aspects that must be considered in the design and implementation of a comprehensive and holistic Lightning Protection System (LPS), addressing external LPS principles, surge protection measures and equipotential bonding, and the requirements of the grounding system, according to the NFPA780 and IEC 62305 standards. An example for the LPS design and implementation for a wastewater treatment plant, serving Jacksonville Beach, Florida, will be presented.

**Mark Hendricks, Steven Weber**  
Axiom Instrumentation Services  
Mission, Kansas

### 209 B

Moderator: Adrienne Feeney  
Dickinson RWD 1

Op. Credit: None, Clerk IIMC

#### HEALTH BENEFIT PLANS FOR KRWA MEMBERS

The National Rural Water Association in partnership with Mike Keith Insurance and Elliott Insurance are pleased to provide information on Healthy Benefits for KRWA members. NRWA Healthy Benefits is a unique benefit program for water districts, municipality members and associate members. This program was designed to provide comprehensive and affordable health care options to meet the compliance demands of ACA. Learn how to help employees have access to quality health insurance.

**Teresa Zeller**  
Elliott Insurance Group  
Louisburg, Kansas

### 210 A

Moderator: Denise Vogt  
Butler RWD 3

Op. Credit: None, Clerk IIMC

#### GUARDING AGAINST THE MONSTERS OF THE DARK WEB

Cybersecurity is increasingly important in the workplace. Attend this session to learn about some simple safety tips as well as emerging NEW technologies that can be employed to minimize risk in today's highly connected Cyber World. The technology star of 2019 is the new generation of WPA3/AX routers. The presenter's years of experience and education with both hardware and programming, as well as his daily work with water districts and cities, make him the go-to-guy for practical advice.

**Merle Windler**  
Thoroughbred Systems, Inc.  
Topeka, Kansas

### 210 B

Moderator: Chad Buckley  
City of Lyons

Op. Credit: W, WW

#### WATER AND WASTEWATER FUNDING PROGRAMS BY KDHE

The Kansas Department of Health and Environment administers both the Kansas Public Water Supply Program and the Clean Water State Revolving Fund for wastewater systems. These programs provide loans to help water and wastewater systems meet compliance requirements with drinking water and wastewater regulations. Attend this session to learn about the programs, and how the KDHE loan programs can also mesh with other funding such as from Dept. of Commerce and USDA.

**William Carr**  
Kansas Dept. Health & Env.  
Topeka, Kansas

### 210 C

Moderator: Sharon Condit  
Ellsworth RWD No. 1

Op. Credit: None; Clerk IIMC

#### DEVELOPING AN EMPLOYEE HANDBOOK

Boards/councils and employees benefit when employee handbooks spell out responsibilities and expectations. Attend this session to learn about the what, how and whys of human resources policies, how to evaluate current policies to determine potential risks and what steps can be taken to minimize the risks. Learn how to apply state and federal laws and regulations to correct policy deficiencies and reduce risk to your city or RWD. Know what's lawful and what's not.

**Kristina Dietrick**  
HR Partners, LLC  
Topeka, Kansas

### 203

Moderator: Katie Goff  
Kansas Water Office

Op. Credit: None

#### UPDATING RWD INFRASTRUCTURE USING NEW KWO PWS PORTAL

The Kansas Water Office Public Water Supply Portal was developed by Data Access and Support Center (DASC), in collaboration with the Kansas Water Office (KWO) and the Kansas Rural Water Association (KRWA), to allow for the update of the Kansas Public Water Supply contact database and associated GIS infrastructure data. This session will discuss this collaborative project and demonstrate how RWDs can review and submit changes to their boundaries, and other infrastructure locations, using the KWO PWS Portal.

**Eileen Battles, Brent Miller**  
Data Access Support Center  
Lawrence, Kansas

# CONCURRENT SESSIONS

## WEDNESDAY, MARCH 27, 1:30 P.M.

### Hyatt Ballroom D

Moderator: Randall Harris  
Chisholm Creek Water Auth.

Op. Credit: W

#### PREPARING FOR A KDHE SANITARY SURVEY FOR A WATER SYSTEM

The purpose of a sanitary survey is to assess the capability of a water system to supply safe drinking water. Regardless of source, EPA requires Community PWSs to be inspected every three years. Learn about the eight components of a sanitary survey including inspecting the PWS's source, treatment, distribution system, storage, pumps, monitoring and reporting, management, operations and operator compliance. This session will help during your water system's next survey.

**Marsha Fleming**

Kansas Dept. of Health & Env.  
Salina, Kansas

### Hyatt Ballroom E

Moderator: Calvin Burke  
City of Liberal

Op. Credit: WW

#### RARE EARTH TECHNOLOGY FOR PHOSPHORUS REMOVAL

With environmental regulations continuing to restrict the discharge of phosphorus from wastewater facilities, traditional methods of phosphorus removal are proving inadequate. A new coagulant used for phosphorus removal, cerium chloride, has been studied in several municipal and industrial wastewater treatment facilities that must meet a phosphorus discharge limit of 0.5 mg/L or lower. This presentation will demonstrate the high phosphorus removal capabilities of cerium chloride.

**Jason Hock**

Neo Chemicals and Oxides  
Greenwood Village, Colorado

### 209 A

Moderator: Mike Schultz  
City of Brewster

Op. Credit: None

#### USDA RURAL DEVELOPMENT FUNDING FOR UTILITIES

USDA Rural Development programs help rural communities extend and improve water and wastewater treatment facilities. Rural water district and municipal officials who anticipate infrastructure improvements in the near future are encouraged to attend this session. USDA Rural Development operates more than fifty financial assistance programs for a variety of rural applications. Learn how USDA Rural Development can assist your design team and your community.

**Dan Fischer**

USDA Rural Development  
Topeka, Kansas

### 209 B

Moderator: Bruce Spare  
Saline RWD 8

Op. Credit: W

#### SANITIZING WATER MAINS AND DECHLORINATION

All new and re-introduced water lines must be cleaned, disinfected, flushed and must pass tests for chlorine concentration and coliform absence before being put into use. This session will discuss the procedures for disinfection in accordance with the 2014 AWWA standard. It includes a summary of the changes of the new standard compared to the 2005 standard regarding revised testing procedures and flushing mains prior to placement into service and the importance of construction practices can impact and have success on disinfection.

**Chris Miller**

Miller & Associates  
Kearney, Nebraska

### 210 A

Moderator: Todd Simmons  
City of Hillsboro

Op. Credit: W

#### TTHM CONTROL AND SURFACE WATER OPTIMIZATION

Drinking water contaminants forming in consecutive systems have been identified as one of EPA Region 7's top scientific research priorities for fiscal years 2018 and 2019. EPA Region 7 has partnered with the KDHE to perform a study on the formation of trihalomethanes in Kansas community water systems. Trihalomethanes form when chlorine or other disinfectants react with naturally occurring organic and inorganic mater in water. Attend to learn more about the ongoing study and results.

**David Pratt**

US Environmental Protection Agency  
Lenexa, Kansas

### 210 B

Moderator: Janet Brown  
City of Hill City

Op. Credit: None, Clerk IIMC

#### THE KANSAS OPEN MEETINGS AND OPEN RECORDS ACTS

Transparency in government is a key feature of any free society, and U.S. law encourages government agencies to make their records available to the public whenever possible. Some exceptions apply, such as in certain situations involving individual privacy and security. Meetings and hearings held by government agencies are also generally open to the public with some exceptions. Attend this session to know what The Kansas Open Meetings and Open Records Acts require.

**Kelly Rundell**

Attorney at Law  
Wichita, Kansas

### 210 C

Moderator: Rick Kramer  
City of Atwood

Op. Credit: None

#### UNDERSTANDING AMI REPORTING AND ANALYTICS

While there is a lot of talk about the value of AMI data, most utilities are only brushing the surface of this capability and missing much of the value to the utility. Often utilities don't know this capability is there or how to capitalize on it. While focusing on the reports to keep the system running and maintain the meter-to-cash process, much of the value added business intelligence reports have been ignored. Learn about the value added reports utilities should consider.

**Don Rankin**

UtiliWorks Consulting, LLC  
Topeka, Kansas

### 203

Moderator: Fred Jones  
City of Garden City

Op. Credit: None, Clerk IIMC

#### CREATING YOUR LEGACY WITH STANDARD OPERATING PROCEDURES

Maybe you're ready to retire or hire new help. If so, you are likely to need an organized way to distribute your knowledge to others. Having your knowledge base replicated in an easy-to-understand format can ensure that when you retire, your knowledge base can stay behind, and can ensure that when you train new hires, your onboarding can be consistent and easy. This session will outline what content you might include, best practices for organizing this content, and available solutions that can help you deploy it.

**Jen Sharp**

JenSharp.com  
Ottawa, Kansas



# CONCURRENT SESSIONS

## WEDNESDAY, MARCH 27, 2:45 P.M.

### Hyatt Ballroom D

Moderator: Corey Heck  
City of Colwich

Op. Credit: W, WW

#### SAFETY OF GAS CHLORINE – MYTHS AND REALITIES

If you have ever taken a prescription medicine, driven a car or drank tap water, you likely have been exposed to chlorine. Chlorine, element No. 17 on the Periodic Table of Elements, has multiple applications. This introductory course will instruct you on how to understand the relative safety of chlorine gas, as well as how to use safe working procedures. Facts will be presented to offset common myths surrounding chlorine gas safety. This chlorine safety course will also review the chemical properties of chlorine.

#### Keith Thompson

Chlorinators Incorporated  
Stuart, Florida

### Hyatt Ballroom E

Moderator: Laura Munro  
City of Bonner Springs

Op. Credit: WW

#### WASTEWATER LAGOONS – DESIGN CONCEPTS OVER TIME

This presentation will cover the history of lagoon design. Presenters will review meeting permit requirements, including effluent limits. Engineers designed the first lagoons to provide 120+ days of detention and expected nature to do the rest. In reality, lagoons are a complex ecosystem that's effective at breaking down organic matter and other pollutants. Prevailing winds, inlet and outlet positions, aspect ratios, slope protection material, and many other factors need to be considered.

#### Alan Luttrell; Richard Ammell

EBH Engineering  
Great Bend, Kansas

### 209 A

Moderator: Katie Tietzort  
Division of Water Resources

Op. Credit: W; Clerk IIMC

#### OVERPUMP PENALTIES AND WATER USE REPORTING

KDA/DWR made significant changes to their regulations related to fines for overpumping water rights. Additional effort was also made to advance programming in order to produce a more complete list of violators in order to discover individual files that were being overpumped within groups of overlapping files, common for public water suppliers. The end result is that more systems are being subjected to fines for overpumping. In 2018, DWR also implemented new fees for paper water use reporting.

#### Elizabeth Fitch

Division of Water Resources  
Stafford, Kansas

### 209 B

Moderator: Paul Froelich  
City of Enterprise, KRWA

Op. Credit: W, WW, Clerk IIMC

#### UNMANNED AIRCRAFT TECHNOLOGIES FOR PUBLIC WORKS PROJECTS

The potential benefits of employing sUAS/Drones while promising is not without its challenges. Reliable sUAS operation in any application depend on properly trained personnel with the proper equipment for conducting a task. This session will focus on the enabling technology requirements of projects that require payloads for sensing, precision navigation, and extending flying time. The presentation will look at new solutions that endeavor to overcome limitations in the context of some public works tasks.

#### Dr. Saeed M. Khan

Kansas State University  
Salina, Kansas

### 210 A

Moderator: Nick Reams  
Ks Dept. of Health & Env.

Op. Credit: WW, Clerk IIMC

#### KDHE/BOW UPDATE ON EPA E-DMR REPORTING

In late 2015, the US Environmental Protection Agency (EPA) implemented the Clean Water Act National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule. The E-Reporting rule requires electronic reporting of NPDES information rather than the paper-based reporting system. Based on these new electronic requirements, sections within agency staff who work with NPDES permits will be transitioning to a new software. Learn what this means for NPDES permitted facilities.

#### Ann D'Alfonso

Kansas Dept. of Health & Env.  
Topeka, Kansas

### 210 B

Moderator: Earl Crosswhite  
City of Ness City

Op. Credit: None

#### THE COMMUNITY DEVELOPMENT BLOCK GRANT PROGRAM

The Community Development Block Grant (CDBG) program is a flexible program that provides communities with resources to address a wide range of unique community development needs. Learn more about the CDBG program and how it can meet your community development needs. This grant funding can be used for water, sewer, streets, electrical, gas, fire stations, fire trucks, community centers and a host of miscellaneous activities. Funding is also available for rehabilitation of housing units.

#### Debbie Beck

Kansas Department of Commerce  
Topeka, Kansas

### 210 C

Moderator: Allen Dinkel  
City of Junction City

Op. Credit: None, Clerk IIMC

#### DEALING WITH CHALLENGING EMPLOYEES

At some time or another, you may have dealt with a coworker or employee who pushed your buttons or really tested your patience. Attend this session to help understand how important it is to manage yourself and find out what is at the root of many performance problems. Maybe what is considered insubordination is only due to unclear communications? See what kinds of problems negative employees can create in the work environment. Learn how to effectively deal with difficult employees.

#### Kristina Dietrick

HR Partners  
Topeka, Kansas

### 203

Moderator: Ian Martell  
City of Eureka

Op. Credit; None, Clerk IIMC

#### R&R AND CIP – IT'S NOT THAT DIFFICULT TO DO!

Equipment repair and replacement and capital improvements are going to happen. Will your system be ready; will they be easy to do; will they be planned and will ratepayers be on-board? R&R costs usually account for about 15 percent of water and sewer utility operating costs. CIP can take another 50 percent. Planning and executing these things is not rocket science. It's logic and spreadsheets. Attend this session to obtain the tools (for free) to lead you through the planning processes.

#### Carl Brown

GettingGreatRates.com  
Jefferson City, Missouri

**Tuesday, 4:00 p.m. - 6:30 p.m.**  
**Wednesday, 10 a.m. - 6:30 p.m.**  
**Thursday, 7:30 a.m. - 12 noon**

A wide-angle, high-angle photograph of a large, crowded exhibition hall. The hall is filled with numerous booths, displays, and people. In the foreground, a large banner reads "SHOP AND COMPARE!". The background shows a large stage area with a banner that reads "2019 KRWBA 52nd Annual Conference and Exhibition RESULTS". The hall is brightly lit with yellow and blue vertical banners. The floor is green carpeted. The overall atmosphere is busy and professional.

The final Exhibitor Director plan will be included in the raffle packet.

Check out the great prizes! **WaterPac Raffle** booths #100-104

Door prizes donated by exhibitors will be announced or drawn for during the Thursday noon luncheon.

**“Thank You”** to all exhibitors and sponsors who help make this conference the largest in the Midwest and the best in the world!

**2014 WaterPac Raffle Booths**

Booths are numbered 1 through 365. The plan includes an Entrance, Restrooms, Soft Drinks, and a Hospitality Area. The plan also includes a list of exhibitors and their booth numbers.

**Exhibitors and Booth Numbers:**

- Booths 1-10: 1, 2, 3, 4, 5, 6, 7, 8
- Booths 11-20: 9, 10, 11, 12, 13, 14, 15, 16, 17, 18
- Booths 21-30: 19, 20, 21, 22, 23, 24, 25, 26, 27, 28
- Booths 31-40: 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41
- Booths 41-50: 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54
- Booths 51-60: 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67
- Booths 61-70: 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80
- Booths 71-80: 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94
- Booths 81-90: 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119
- Booths 91-100: 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136
- Booths 101-110: 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153
- Booths 111-120: 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173
- Booths 121-130: 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193
- Booths 131-140: 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213
- Booths 141-150: 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233
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- Booths 161-170: 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273
- Booths 171-180: 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293
- Booths 181-190: 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313
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- Booths 201-210: 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353
- Booths 211-220: 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365

Door prizes donated by exhibitors will be announced or drawn for at the Thursday noon luncheon.

**“Thank You”** to all exhibitors and sponsors who help make this conference the largest and best in the Midwest and among the best in the U.S.



# CONCURRENT SESSIONS

## WEDNESDAY, MARCH 27, 4:00 P.M.

### Hyatt Ballroom D

Moderator: Aaron Kirchart  
City of Garden Plain

Op. Credit: W, WW

#### WATER STORAGE TANK COSTS AND LONG-TERM MAINTENANCE

This session covers types of water storage tanks, their life cycle costs, and proactive vs. reactive approaches to maintenance. We will explain the long-term maintenance approaches and how they can result in lower life-cycle maintenance costs vs. traditional approaches to tank maintenance. AWWA M42 Manual on "Steel Water Storage Tanks" states: "A good, comprehensive preventive maintenance program can extend the life of an existing tank indefinitely: 'Many thousands of dollars can be saved and complaints can be eliminated if a planned approach to maintenance is adopted.'"

#### Rich Kemmis

Maguire Iron  
Sioux Falls, South Dakota

### Hyatt Ballroom E

Moderator: Jon Voss  
City of Stockton

Op. Credit: WW

#### TROUBLESHOOTING O&M ISSUES IN WASTEWATER LAGOONS

Even well-designed lagoons sometimes turn sour. This session will cover warning signs to look for, probable causes and potential solutions. Common problems that will be addressed include: pond turnover, offensive odors, sludge buildup, algae blooms, exceeding permit limits, and dike erosion. Emphasis will be given on designing for wetlands disposal since this can be a low-cost and low-headache solution for many systems, especially in western Kansas.

#### Alan Luttrell; Richard Ammell

EBH Engineering  
Great Bend, Kansas

### 209 A

Moderator: Mike Todd  
City of Scott City

Op. Credit: W, WW

#### LOW VOLTAGE DRIVES FOR WATER & WASTEWATER SYSTEMS

Although Variable Frequency Drives (VFDs) are common, the value they provide and how to properly select and use them are often not fully understood. We will demystify VFDs, providing a better understanding as to where and why you would use them. Attendees will learn about safety considerations, identify applications that can benefit from VFDs, recognize what needs to be considered to appropriately size and select VFDs, and be aware of proper installation considerations for a successful solution.

#### Jeff Bergman

ABB  
Oviedo, Florida

### 209 B

Moderator: Stuart Porter  
Schwab - Eaton, P.A.

Op. Credit: W

#### FIRE HYDRANT OPERATION, MAINTENANCE AND TESTING

Fire hydrants are an integral part of your distribution system. They must be maintained in order to provide years of functionality for your system in order to flush water mains but more importantly provide immediate fire protection. This presentation will discuss all aspects of your fire hydrants. From installation, operation and maintenance, nothing will be left out. A PowerPoint presentation and demonstration hydrant will be used as well as opportunities to share experiences and questions to learn from one another.

#### Andy Kohler

Clow Valve Company  
Des Moines, Iowa

### 210 A

Moderator: Carol Steinlage  
Nemaha RWD 4

Op. Credit: W

#### WELL LOCATION, CONSTRUCTION AND WELLFIELD MANAGEMENT

The session will cover the important topics that affect water quality of existing wells and of new wells. New well site selection, test drilling, aquifer investigation, construction standards, and water quality testing are important for new well location. Wellfield management strategies, geo-bacterial impacts, and increased pumping of existing wells can change the water quality. Nitrate, chloride and other inorganic levels and changes will be discussed. An understanding of these issues is important.

#### Ned Marks

Terrane Resource Company  
Stafford, Kansas

### 210 B

Moderator: Matt Meeks  
City of Maize

Op. Credit: None, Clerk IIMC

#### AN UPDATE ON THE LEAD AND COPPER RULE IMPLEMENTATION

This session will provide a brief overview of the Lead and Copper Rule including Materials Evaluations and Sampling Plan. All Community and Non-Transient, Non-Community systems should have submitted their Materials Evaluation for approval. If your system has not yet submitted your Evaluation, then this session is for you. It will also cover the, "Certificate of Delivery Lead Results Notification for Lead and Copper Monitoring Participants" and an overview of possible revisions to the Lead and Copper Rule.

#### Tara Hammer

Kansas Dept. Health & Env.  
Topeka, Kansas

### 210 C

Moderator: Brad Lewis  
City of Kismet

Op. Credit: W, WW

#### THE ROLE OF THE FBI IN ENSURING A SAFE WATER SYSTEM

The Federal Bureau of Investigation's highest priority is the prevention, detection, and disruption of terrorist activities including physical and cyber threats. Establishing an ongoing dialog and awareness among both public and private sector communities is critical to detecting and preventing terrorist activity. The FBI supports the nation's water systems through collection and mitigation efforts and works to quickly and effectively respond to threats and activities targeting water systems.

#### Dana Kreeger

Federal Bureau of Investigation  
Kansas City, Missouri

### 203

Moderator: Sue Harsh  
Butler RWD 6

Op. Credit: None, Clerk IIMC

#### SKILLS TO HELP TURN YOU INTO A SPREADSHEET NINJA

This presentation is an updated iteration of Jen Sharp's prior presentations on spreadsheet templates developed by KRWA for situations rural water or smaller city offices might encounter. If you have a need to track water loss or usage, financial transactions, operating or capital improvement budgets, or equipment and inventory, this is the session to attend. View demonstrations then download the templates from KRWA's website. This session provides resources that can help harvest results.

#### Jen Sharp

JenSharp.com  
Ottawa, Kansas

# AWARDS & ENTERTAINMENT

**Wednesday evening, March 27**

**5:00 Social in EXPO Hall**

**6:30 Banquet Hall opens**

**Award Presentations, Entertainment**



## *The All Night Strut!*

Swing's the thing in *The All Night Strut!* From touring with the Glenn Miller Orchestra to performing with the Boston Pops, this classy, sassy musical revue has played the world over to record-breaking houses and garnered rave reviews from critics. And it's the show that The Forum Theatre will present for the 2019 KRWA conference.

*The All Night Strut!* moves through the Depression, World War II and the post-war boom in a two-act musical celebration of the 1930s and '40s, filled with jazz, blues, bebop and American songbook standards. Weaving together the work of legendary songwriters such as Hoagy Carmichael, Frank Loesser, Duke Ellington, Johnny Mercer, Cab Calloway and the Gershwins, the story moves through time and place to highlight a thick slice of yesteryear and capture a beloved American era.

It's a great musical treat to end a full day of the KRWA conference. Don't miss *The All Night Strut!* in Little Theatre immediately following the Awards Banquet, Wednesday evening, March 27.

## **MORE QUILTS – GREAT GRAND PRIZES**

KRWA's conference again offers unique quilts as grand door prizes. The habit of KRWA providing quilts as door prizes goes back to 1984. In 2019, KRWA is pleased to provide four large queen-sized quilts and one beautiful sofa quilt. One quilt will be drawn for at the Wednesday evening Awards Banquet and two quilts will be drawn for at the Thursday luncheon. A fourth quilt will be a prize in the WaterPAC raffle. All quilts were pieced by Kathleen Ronnebaum and quilted by Joann Lutcavish of Steinauer, Nebraska.



# SPONSORS



*The following Associates have also contributed as Conference Sponsors to help offset the cost of hospitality, or a portion of the cost of the Meet & Greet and social events (as of 01/01/2019).*

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**\*USABlueBook** – Gurnee, Illinois

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**\* Carnival Sponsors**



# CONCURRENT SESSIONS

## THURSDAY, MARCH 28, 9:30 A.M.

### Hyatt Ballroom D

Moderator: Rich Krause  
City of Russell

Op. Credit: W, WW

#### CHEMICAL FEED PUMPS – RIGHT SIZE; RIGHT DOSAGE

This presentation reviews advantages and disadvantages of the two most popular chemical metering pumps used in the municipal water treatment industry: peristaltic and diaphragm driven pump application procedures. Learn about preventative maintenance procedures and troubleshooting. The presentation will also cover proper setup and installation procedures that will guarantee trouble-free chemical feed. Know the applications to use peristaltic or diaphragm, proper sizing and setup.

**Kris Staff**  
Hawkins, Inc.  
St. Louis, Missouri

### Hyatt Ballroom E

Moderator: John Goetz  
KDHE (retired)

Op. Credit: WW

#### WASTEWATER OPERATOR REFRESHER COURSE – PART I

Those operators planning to take the KDHE wastewater operator certification exam are encouraged to attend this session. This training is not a comprehensive preparation course, but is a review for the operator exam. The information will include operator expectations, sample questions, examination concepts, basic math problems and a review of basic operations. Attendance at this session should be helpful to those taking the certification exam. The exam will be held in Hyatt Ballroom at 1:30 p.m.

**Marsha Fleming; Traci Miles**  
Kansas Dept. of Health & Env.  
Salina, Kansas

### 209 A

Moderator: Allen Markley  
Douglas RWD 2

Op. Credit: W, WW

#### LOAD SECUREMENT IN COMPLIANCE WITH STATE AND FEDERAL LAWS

Load securement on both commercial and non-commercial vehicles is an important safety issue while traveling on Kansas roadways. Improper load securement contributes to collisions state-wide every year. These collisions range from minor damage incidents to serious injury collisions. Loads must be contained on/in the vehicle so that it “prevents the cargo from leaking, spilling, blowing or falling from the motor vehicle”. This class will cover various means to secure cargo in compliance with state and federal laws.

**Mathew Mullen, Brent Lies**  
Kansas Highway Patrol  
Salina, Kansas

### 209 B

Moderator: Martha Tasker  
City of Salina

Op. Credit: W, WW

#### ADVANCES IN DRY SCRUBBING TECHNOLOGY FOR CHLORINE GAS

For the past 15 years, dry chemical scrubbers have been considered low maintenance alternatives in controlling the escape of hazardous gasses, such as a leak from a 150-pound (Cl<sub>2</sub>) storage cylinder. A new dry-scrubbing media scrubber has been developed for use against chlorine that shows an improved performance both in terms of removal efficiency and removal capacity. Information on this new dry-scrubbing scrubber system versus other scrubber designs will be presented.

**Chris Muller**  
Purafil, Inc  
Doraville, Georgia

### 210 A

Moderator: Roger Koch  
City of Axtell

Op. Credit: W, WW

#### WHAT CAN KANSAS 811 DO TO HELP YOU STAY ABOVE WATER?

David Butler and Jessica Lewis are ITIC Administrators who work for One Call Concepts, the company that has operated the one-call operation in Kansas through a contract with Kansas 811 for more than three decades. This session will provide live demonstrations of the FREE software available to Locators (Locator Ticket Management and Ticket Check) and Excavators (Excavator Ticket Management and ITIC). The presentation will also include a discussion of the NEW Kansas 811 App. The benefits of each product will be detailed.

**David Butler, Jessica Lewis**  
One Call Concepts  
Wichita, Kansas

### 210 B

Moderator: Greg Metz  
City of Narka

Op. Credit: W

#### COMPLIANCE WITH DISINFECTION BYPRODUCTS (DBPs)

Many suppliers are struggling with the DBPs requirements especially trihalomethanes, (THMs) and haloacetic acids (HAAs). This presentation will discuss the maximum contaminant level (MCLs) requirements, the causes of high THMs and HAAs, monitoring schedules (reduced and increased), and public notice. Specific examples of the challenges, mistakes, and ironies of these requirements will be reviewed for both surface and well water and purchasing systems.

**Pat McCool**  
Kansas Rural Water Association  
Wichita, Kansas

### 210 C

Moderator: Eric Purk  
City of Valley Center

Op. Credit: WW, Clerk IIMC

#### STORM SEWER – STORM WATER MANAGEMENT PROGRAM

The Federal Water Pollution Control Act (also referred to as the Clean Water Act) requires point source dischargers of pollutants to obtain federal NPDES permits which regulate such discharges. The purpose of an NPDES general permit for municipal separate storm sewer systems (MS4s) is to ensure compliance with state and federal regulations. Present MS4 NPDES permits for Kansas municipalities expire in 2019 and must be reissued. The new permits need to incorporate some changes mandated by the EPA Remand Rule.

**Rance Walker**  
Kansas Dept. of Health & Env.  
Topeka, Kansas

### 203

Moderator: Jan Steen  
Kansas PRIDE

Op. Credit: W, Clerk IIMC

#### RECORDKEEPING FOR WATER SYSTEMS

Is your shop office or city hall or RWD office buried in piles of folders and paper? Are you confused about what paperwork needs to be kept and for how long? Does notice of a KDHE inspection create an atmosphere of panic for the office or operator? Attend this session to learn about the water records that are required to be kept on file, the retention time, and an easy way to keep them organized. This presentation will also include a review of documents that must be reported to KDHE.

**Monica Wurtz**  
Kansas Rural Water Association  
Aurora, Kansas

# CONCURRENT SESSIONS

## THURSDAY, MARCH 28, 10:45 A.M.

### Hyatt Ballroom D

Moderator: Paul Strathman  
Nemaha RWD 3

Op. Credit: W; WW

#### PROPER INSTALLATION OF GASKETED JOINT PVC

This presentation will cover all aspects of proper installation of gasketed joint PVC pipe. The goal should be to achieve the full life-cycle and performance of your water or sewer pipeline project. Topics that will be covered include inspection, effects of UV on PVC, trench construction, joint assembly, installation of fittings and valves and various ways to restrain PVC pipe. This session offers a review of receiving, unloading, handling, and storage. Assembly and installation practices will be explained.

**Brian Lang**

North American Pipe Corporation  
St. Louis, Missouri

### Hyatt Ballroom E

Moderator: Carl Chalfant  
City of Washington/KRWA

Op. Credit: WW

#### WASTEWATER OPERATOR REFRESHER COURSE – PART II

This session is Part II of that which started at 9:30 a.m. Wastewater operators who plan to take the KDHE wastewater operator certification exam will find this session helpful. This session is not a comprehensive preparation course, but is a review for the examination. The information will consist of operator expectations, sample questions, examination concepts, basic math problems and a review of basic operations. Attendance at this session will be helpful to those taking the certification test at 1:30.

**Marsha Fleming; Traci Miles**

Kansas Dept. of Health & Env.  
Salina, Kansas

### 209 A

Moderator: Jason Solomon  
Kansas Rural Water Assn.

Op. Credit: W, Clerk IIMC

#### FROM PERMITTING TO INSTALLATION – REVIEWING ASPECTS OF A PROJECT

This session presents a case study from pre-design, which includes creative solutions from conception to completion of a project. Attendee take-aways include setting expectations, solutions for innovative funding, preparing an engineering report for successful grant submission, managing owner expectations, and economic and scalable design solutions. The aspects of this case study are applicable to water and wastewater system projects, regardless of size.

**Danny Coltrane**

Midwest Engineering Group, LLC  
Chanute, Kansas

### 209 B

Moderator: Brownie Wilson  
Kansas Geological Survey

Op. Credit: W

#### THE EVOLUTION AND FUNCTION OF ACOUSTIC LEAK DETECTION DEVICES

The evolution of acoustic leak detection devices has undergone a transformation from simple listening sticks to correlating loggers that integrate with maps. This session will not only focus on new technologies that have been developed to make leak detection pinpointing and surveying better, but also how ground mics, correlators, and loggers have each evolved to make acoustic leak detection simpler. Attend and leave with an understanding how these devices work as well as the pros and cons of each type of device.

**Brent Briley**

Subsurface Solutions  
Gretna, Nebraska

### 210 A

Moderator: Tim Himelick  
City of Milford

Op. Credit: Clerk IIMC

#### RETIREMENT OPTIONS FOR RWDs AND MUNICIPALITIES

What used to be a luxury is now becoming a necessity. But many rural water districts and some municipalities in Kansas still do not currently offer employees an employer-sponsored retirement plan. This includes KPERS, the State of Kansas Pension plan. This presentation will walk those attending through the options rural water districts and municipalities that are KPERS eligible have — whether or not they offer KPERS — in helping employees save for a sound retirement, regardless of the size of the entity.

**Len Lehmann**

KPERS 457  
Topeka, Kansas

### 210 B

Moderator: Larry Allard  
Pottawatomie RWD 1

Op. Credit: W

#### WATER LOSS REDUCTION THROUGH PRESSURE MANAGEMENT

Many public water systems struggle to deal with high levels of water loss otherwise known as non-revenue water (NRW). Although not all NRW is leakage, inefficient management of distribution system pressures is known to cause substantial avoidable leakage and burst pipes; it also brings with it other adverse consequences such as reduced infrastructure life. This session discusses principal leak reduction measures, financial impacts and advantages of pressure management, metering stations and other equipment.

**Andy Singer**

Singer Valve  
Surrey, British Columbia

### 210 C

Moderator: Steve Euler  
Morris RWD 1

Op. Credit: W

#### OVERVIEW OF THE REVISED TOTAL COLIFORM RULE (RTCR)

The RTCR which went into effect April 2016 applies to all PWSs and establishes a maximum contaminant level for *E. coli*. The rule uses *E. coli* and total coliform positive results to initiate a “find and fix” approach for addressing pathways for pathogens to enter the distribution system. The rule also outlines start-up procedures for seasonally operated PWSs. Learn how to properly collect bacteriological water samples and develop a sampling plan. Chlorine residual monitoring will also be covered.

**Emily Reichert**

Kansas Dept. of Health & Env.  
Topeka, Kansas

### 203

Moderator: Randy Frazer  
City of Mound Ridge

Op. Credit: W, WW

#### HDPE PIPE FOR WATER AND WASTEWATER UTILITIES

HDPE offers a leak-free monolithic pipeline system for cities and utilities. Polyethylene is the pipe of choice in the natural gas distribution, oil patch, landfill and mining industries because it is stout, flexible, cost effective and leak-free. HDPE was developed in Europe in the 1950s where it is the predominant material used in water and wastewater utilities. Main replacement, fusion lessons and HDPE integration will be reviewed. The experiences of two Kansas cities will be featured; attendees will hear local comments.

**Peter Dyke**

Alliance For PE Pipe  
Tulsa, Oklahoma



# THANK YOU EXHIBITORS

A final EXPO Hall Floor Plan with booth designations will be included in each registration packet to be picked up at the conference. Listings of exhibitors and the floor plan will be posted throughout EXPO Hall.

**A-1 Pump & Jet Services, Inc.**  
Emporia, Kansas

**A. Y. McDonald Manufacturing**  
Broken Arrow, Oklahoma

**Advanced Drainage Systems**  
Yukon, Oklahoma

**Alexander Pump & Services**  
St. Marys, Kansas

**Allgeier, Martin and Associates, Inc.**  
Joplin, Missouri

**Alliance Pump & Mechanical Service**  
Independence, Missouri

**AllState Consultants**  
Lee's Summit, Missouri

**American AVK Company**  
Omaha, Nebraska

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Mission, Kansas

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Santa Rosa, California

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Goddard, Kansas

**City of Lyons**  
Lyons, Kansas

**Clarke Well & Equipment**  
Great Bend, Kansas

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Topeka, Kansas

**Comm-Tronix**  
Wichita, Kansas

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Newton, Kansas

**Core & Main**  
McPherson, Kansas

**CUES, Inc.**  
Orlando, Florida

**Cummins Sales and Service**  
Wichita, Kansas

**Cunningham, Inc.**  
Joplin, Missouri

**D C & B Supply Company**  
Pratt, Kansas

**Data Access & Support Center**  
Lawrence, Kansas

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Tulsa, Oklahoma

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Overland Park, Kansas

**DPC Enterprise**  
Wichita, Kansas

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Syracuse, New York

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North Kansas City, Missouri

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Lenexa, Kansas

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Salina, Kansas

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Grimes, Iowa

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Lenexa, Kansas

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Wichita, Kansas

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Kansas City, Missouri

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Manhattan, Kansas

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**Hawkins, Inc.**  
Garnett, Kansas



### **Haynes Equipment Company**

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### **Inland Associates, Inc.**

*Olathe, Kansas*

### **Innovative Engineered Equipment**

*Independence, Missouri*

### **J & A Traffic Products**

*Blue Springs, Missouri*

### **Jayhawk Software**

*Iola, Kansas*

### **JCI Industries**

*Lee's Summit, Missouri*

### **Johnson Service Company**

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*Wichita, Kansas*

### **Kansas Department of Commerce**

*Topeka, Kansas*

### **Kansas Department of Labor**

*Topeka, Kansas*

### **Kansas Dept. Health & Environment**

*Topeka, Kansas*

### **Kansas Dept. of Ag. Division of Water Resources**

*Manhattan, KS*

### **Kansas Drug Testing**

*Topeka, Kansas*

### **Kansas Geological Survey**

*Lawrence, Kansas*

### **Kansas Information Consortium, LLC**

*Topeka, Kansas*

### **Kansas Municipal Insurance Trust**

*Derby, Kansas*

### **Kansas PRIDE Program**

*Manhattan, Kansas*

### **Kansas Rural Water Association**

*Seneca, Kansas*

### **Kansas Water Office**

*Topeka, Kansas*

### **Kaw Valley Engineering**

*Junction City, Kansas*

### **Key Equipment**

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### **Metron-Farnier**

*Boulder, Colorado*

### **Micro-Comm**

*Olathe, Kansas*

### **Mid America Meter, Inc.**

*Shawnee, Kansas*

### **Mid America Valve**

*Leawood, Kansas*

### **Mid States Materials**

*Lecompton, Kansas*

### **Mid West Fire Training Associates**

*Burlington, Kansas*

### **Mid-America Equipment**

*Park City, Kansas*

### **Midland GIS Solutions**

*Maryville, Missouri*

### **Midland Manufacturing**

*Fort Worth, Texas*

### **Midwest Engineering Group, LLC**

*Fredonia, Kansas*

### **Midwest Meter**

*Edinburg, Illinois*

### **Miller & Associates, Consulting Engineers, P.C.**

*Kearney, Nebraska*

### **Mueller Company**

*Lenexa, Kansas*

### **Municipal Pipe Services**

*Hastings, Nebraska*

### **Murphy Tractor & Equipment Company**

*Park City, Kansas*

### **N Line Industrial Sales, Inc.**

*Overland Park, Kansas*

### **National Rural Water Association**

*Duncan, Oklahoma*

### **Network Computing Solutions**

*Topeka, Kansas*

### **North American Pipe**

*St. Louis, Missouri*

### **Nowak Construction Company**

*Goddard, Kansas*

### **Nutri-Ject Systems**

*Hudson, Iowa*

### **Olathe Winwater Works Company**

*Olathe, Kansas*

### **Oral Health Kansas**

*Topeka, Kansas*

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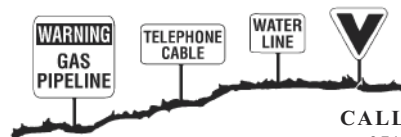
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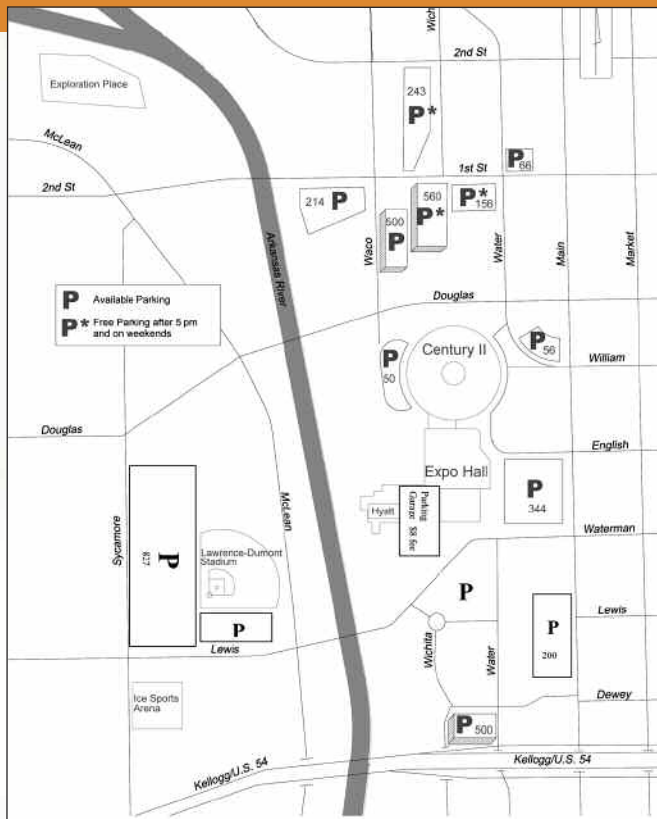
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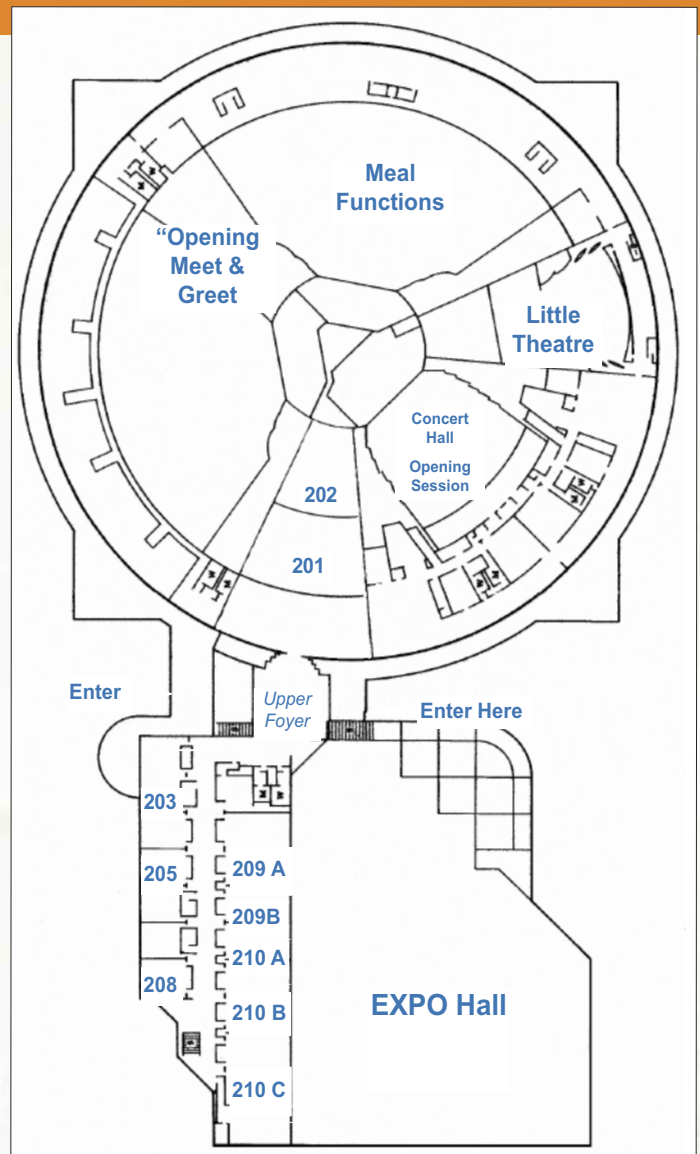
## CENTURY II PARKING




Map of Wichita



## CENTURY II CONVENTION CENTER



Century II Meeting Rooms are on the promenade level.  
Hyatt Ballrooms D and E and Trail Rooms are on the lower level, opposite EXPO Hall.



**Darin Cahoy**  
President

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# REGISTRATION FORM – EVERY PERSON ATTENDING NEEDS TO SUBMIT REGISTRATION

## REGISTRATION FORM

### 52ND ANNUAL CONFERENCE & EXHIBITION

**Tuesday, Wednesday, Thursday, March 26 - 28**

Century II Convention Center, Wichita, Kansas

Register **ONLY ONE PERSON** on this form.

**Note:** You may also register online at [www.krwa.net](http://www.krwa.net)

Please print or type: Check here if you want Operator Credit: ☐

City Clerks check for MMC or CMC Credit: ☐

Name: \_\_\_\_\_

Represents: \_\_\_\_\_

Title: \_\_\_\_\_

Address: \_\_\_\_\_

City, State: \_\_\_\_\_

Zip: \_\_\_\_\_ Phone: (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

Indicate which days you plan to attend:

☐ Tuesday, 3/26 ☐ Wednesday, 3/27 ☐ Thursday, 3/28

If you are attending a preconference session on Tuesday, please indicate which session you plan to attend by checking the session on the reverse side of this form so adequate seating is available. ➡

Registration Fee .....\$170 \$ \_\_\_\_\_

Registration Fee after March 15.....\$195 \$ \_\_\_\_\_

**Note:** Registration fee does not include golf or meal tickets. Tickets to the Tuesday evening Meet & Greet barbecue, games and social are \$15. Spouses also pay registration fee and for any meal tickets. A spouses' program will be held at Century II Wednesday beginning at 1:45 p.m. No additional charge but KRWA needs to know who is planning to attend "Paint the Town" (p. 43)

Tuesday, 3/26, 7 a.m. "Almost 5K Run/Walk" ☐ Yes ☐ No

Golf Tourney, 3/26, 8:30 a.m. (pay KRWA).....\$75 \$ \_\_\_\_\_

Tuesday, 3/26 Luncheon Ticket .....\$10 \$ \_\_\_\_\_

Tuesday evening, Meet & Greet.....\$15 \$ \_\_\_\_\_

Wednesday, 3/27 Luncheon Ticket .....\$10 \$ \_\_\_\_\_

Wednesday, Spouse "Paint The Town!" .....☐ Yes ☐ No

Wednesday Awards Banquet & Show .....\$25 \$ \_\_\_\_\_

Thursday, 3/28 Breakfast (by Chris Cakes) .....\$ 5 \$ \_\_\_\_\_

Thursday, 3/28 Luncheon Ticket .....\$10 \$ \_\_\_\_\_

(Please indicate payment method)

Total:\$ \_\_\_\_\_

Payment Enclosed: ☐ Bill Me: ☐ Credit Card: ☐

## PRECONFERENCE SELECTIONS

KRWA requests that those planning to attend a preconference session on Tuesday to indicate below which session they plan to attend. This will help ensure having adequate handouts and to make other session arrangements for these sessions which are highly attended.

### Check one session only for Tuesday

- ☐ 2019 Engineers' Forum for Water and Wastewater Systems (p. 38)
- ☐ Water Operator Forum – Preparing for Certification Exams (p. 39)
- ☐ Quality Water Distribution – Practical Thoughts and Actions for Operators (p. 39)
- ☐ Microbiological Monitoring of Activated Sludge Processes (p. 40)
- ☐ City Clerks' Forum; Harvesting Results (p. 40)
- ☐ Micro Bubble Diffusion Treatment Technology (p. 41)
- ☐ Board/Council Leadership – Leading More Effectively! (p. 41)
- ☐ RWD Office Forum (p. 42)
- ☐ Excuse Me, Do You Know the Way to Great Rates? (p. 42)

After completing this form on both sides, send it with payment to:

**KRWA, PO Box 226**

**Seneca, KS 66538**

If you wish to register online, go to [www.krwa.net](http://www.krwa.net), "training," and "conference." If you have a question about registration, send an e-mail to the team at [krwa@krwa.net](mailto:krwa@krwa.net). If you prefer, call KRWA at 785.336.3760.



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And, there are **NO YEARLY FEES**, I get FREE tech support and FREE upgrades for five years.

*Now, if they could just teach my computer to serve up a hot cup of coffee in the morning,*

**IT WOULD BE PERFECT!!!!** Let's meet at the conference at the Internet Security Class,

Merle Windler of Thoroughbred is teaching 10:45 Wednesday, March 27th.