

FALL 2010 SHORT COURSE

for



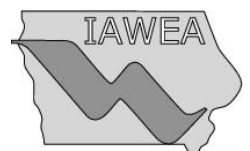
WATER & WASTEWATER OPERATORS

***SEPTEMBER 14-15, 2010
SHERATON WEST DES MOINES HOTEL***



Short Course Sponsored by:

**IOWA SECTION - AMERICAN WATER WORKS ASSOCIATION
IOWA WATER ENVIRONMENT ASSOCIATION (FORMERLY IWPCA)**



AWWA-IAWEA FALL 2010 SHORT COURSE

GENERAL INFORMATION

- ◆ **Qualify for the early registration fee through August 20** if your entire two-page registration form is received by AWWA by then, at least via fax. Fees can be paid later if necessary as long as your forms are in time.
- ◆ See the back of this flyer for a map to the Short Course, and information on how to book your sleeping room. **To qualify for the special conference rooming rate, place your room reservation by August 20.**
- ◆ To get the conference rate for your sleeping room, mention your AWWA-IAWEA affiliation. **You may also want to sign up for the hotel's Starwood Preferred Guest program to earn Starpoints towards future stays at Starwood properties. For additional information, visit http://www.starwoodhotels.com/preferredguest/account/member_benefits/index.html.
- ◆ If you have **special dietary needs**, please contact us *no later than August 20, 2010*.
- ◆ Additional meeting space has been reserved to allow for as much classroom style seating with tables as possible. Still, because of high enrollment, you may not have a table to write on. **Please bring a clipboard, paper and pen.**
- ◆ Please turn in your **Evaluation Questionnaire** before you leave. Your feedback is really appreciated!
- ◆ If you're looking for Short Course co-sponsor, the Iowa Water Pollution Control Association or IWPCA, please know that as of the 2010 annual conference it is now known as the **Iowa Water Environment Association, or IAWEA**.
- ◆ If you're looking for information about the **Water For People Shotgun Event**, please know it is now being held only on the Tuesday evening of SPRING Short Courses. Information will be included with the Spring 2011 Short Course materials.

HOW TO CLAIM CEUS:

- ◆ You must use your **4-digit IDNR Operator ID #** to claim CEUs. For privacy purposes, please do **NOT** include any portion of your Social Security Number.
- ◆ You **must Check-in** when you first arrive, and **pick up an IDNR CEU Reporting Form**.
- ◆ You **must Sign-In** during every program hour you attend for credit, and you **must select a CEU category** for each one, *even if* only one CEU category is available.
- ◆ At the end of your last day of attendance, on the IDNR CEU Reporting Form you will **claim the exact number of hours you attended** in Water Distribution (WD), Water Treatment (WT), and/or Wastewater (WW). **Turn in this form before you leave**, keeping the pink copy for your records.
- ◆ **Your attendance will be verified** via the CEU Sign-In Sheets and your IDNR CEU Reporting Form, along with registration records.
- ◆ If you are **NOT** a certified operator (or in process of becoming one) with the Iowa DNR, please do **NOT** submit an IDNR CEU Reporting Form. **However, those needing **Professional Development Hours** (either instead of or in addition to CEUs) may sign in on the CEU Sign-In Sheets for each program hour attended. PDH instructions available upon request.
- ◆ For **questions**, call AWWA at 515-283-2169 or send an email to info@awwa-ia.org.
- ◆ Look up your **CEU status** on the IDNR website at <http://programs.iowadnr.gov/opcertweb/>. If your hours for this Short Course are not recorded on the website by six weeks afterwards, please call the IDNR Operator Certification Program at 515-725-0284 or 515-725-0463.



AWWA-IAWEA Fall Short Course Program

September 14-15, 2010 ~ Sheraton West Des Moines Hotel ~ West Des Moines, Iowa

TUESDAY ~ September 14, 2010

Registration, Coffee & Rolls ~ 8:00-9:00 am

Prog	Time	CEUs	Category(ies)	Combined Track
---	9:00-9:15	---	---	<u>Welcome</u> - Jim Oppelt, Eric Evans
10	9:15-10:15	0.1	WD, WT, WW	<u>Confined Space Entry</u> - Mary Ann Kinkade, Iowa Association of Municipal Utilities
---	10:15-10:45	---	---	~ NETWORKING BREAK (All Tracks) ~
11	10:45-11:45	0.1	WD, WT, WW	<u>Iowa DNR Update</u> - Chuck Corell, Iowa Department of Natural Resources
---	11:45-12:45	---	---	~ LUNCH (All Tracks) ~
Prog	Time	CEUs	Category(ies)	Water Distribution
12	12:45-1:45	0.1	WD	<u>Water Meter Basics</u> - Dan Sinclair, Dakota Supply Group
13	1:45-2:45	0.1	WD	<u>Case Study: Shenandoah's Water Meter Changeout Program</u> - Kirk Kemper, City of Shenandoah
---	2:45-3:00	---	---	~ BREAK (All Tracks) ~
14	3:00-4:00	0.1	WD	<u>Water Meter Changeout Program - Large Systems</u> - Dave Blumer, City of Ames
Prog	Time	CEUs	Category(ies)	Water Treatment
15	12:45-1:45	0.1	WD, WT	<u>Ammonia in Source Water: Implications for Chlorine</u> - Darin Schriever, DeWild Grant Reckert & Associates
16	1:45-2:45	0.1	WT	<u>Wellhead Protection</u> - Jon Martens, Atlantic Municipal Utilities
---	2:45-3:00	---	---	~ BREAK (All Tracks) ~
17	3:00-4:00	0.1	WT	<u>Water Supply Well Maintenance</u> - Gale McIntosh, Northway Well and Pump Co.
Prog	Time	CEUs	Category(ies)	Wastewater Joint Session
18	12:45-1:45	0.1	WW	<u>E. coli: Background, Sampling and Analysis</u> - John L. Kempf, University of Iowa Hygienic Laboratory
19	1:45-2:45	0.1	WW	<u>Bypasses and SSOs</u> - Peter Green, US Environmental Protection Agency
---	2:45-3:00	---	---	~ BREAK (All Tracks) ~
20	3:00-4:00	0.1	WW	<u>TMDL Update and Cedar River Case Study</u> - Tom Atkinson and Jeff Berckes, Iowa Department of Natural Resources

AWWA-IAWEA Fall Short Course Program

September 14-15, 2010 ~ Sheraton West Des Moines Hotel ~ West Des Moines, Iowa

WEDNESDAY ~ September 15, 2010

Registration, Coffee & Rolls ~ 7:30-8:30 am

Prog	Time	CEUs	Category(ies)	Water Distribution
50	8:30-9:30	0.1	WD	Distribution Systems 101 - Ed Slattery, P.E., Stanley Consultants, Inc.
---	9:30-10:00	---	---	~ NETWORKING BREAK (All Tracks) ~
51	10:00-11:00	0.1	WD	Hydraulic Surges in Water Systems - Eric Musselman, Mellen & Associates, Inc.
52	11:00-12:00	0.1	WD	Backflow - Scott Cunningham, City of Ames
---	12:00-1:00	---	---	~ LUNCH (All Tracks) ~
53	1:00-2:00	0.1	WD	Leak Detection - Dale Carter and Bryant Stump, Des Moines Water Works
54	2:00-3:00	0.1	WD	Winter Maintenance - Joel Mohr, Iowa American Water Company
Prog	Time	CEUs	Category(ies)	Water Treatment
55	8:30-9:30	0.1	WD, WT	Basic Chemistry - John North, Iowa Association of Water Agencies
---	9:30-10:00	---	---	~ NETWORKING BREAK (All Tracks) ~
56	10:00-11:00	0.1	WT	Iron, Manganese, and Arsenic Removal - Mark Sears, Siemens Water Technologies
57	11:00-12:00	0.1	WT	Water Treatment Plant Discharge Issues - Dale Watson, FOX Engineering Associates, Inc.
---	12:00-1:00	---	---	~ LUNCH (All Tracks) ~
58	1:00-2:00	0.1	WD, WT	Evaluation of Constant Speed vs. Variable Speed Pumps - Paul Kaeding, Barr Engineering; Lance Aldrich, FOX Engineering Associates, Inc.
59	2:00-3:00	0.1	WD, WT	SCADA for Small Systems - John Whitacre, Jetco, Inc.
Prog	Time	CEUs	Category(ies)	Wastewater - Large Systems
60	8:30-9:30	0.1	WW	Leading Your Council Through Sound Capital Planning - Derick Anderson, P.E., McClure Engineering Company
---	9:30-10:00	---	---	~ NETWORKING BREAK (All Tracks) ~
61	10:00-11:00	0.1	WW	Fort Dodge WWTP Planning & Project Summary - Mike Starkey, P.E., McClure Engineering Company
62	11:00-12:00	0.1	WW	Antidegradation Update - Adam Schnieders, Iowa Department of Natural Resources
---	12:00-1:00	---	---	~ LUNCH (All Tracks) ~
63	1:00-2:00	0.1	WW	High Rate Anaerobic Treatment with the SGBR - Tim Ellis, Iowa State University; Keith Hobson, FOX Engineering Associates, Inc.
64	2:00-3:00	0.1	WW	Upgrades at the Des Moines Wastewater Treatment Facility, Past-Present-Future - James Buck, City of Des Moines / WRF
Prog	Time	CEUs	Category(ies)	Wastewater - Small Systems
65	8:30-9:30	0.1	WW	Fundamentals: A. Current B. Voltage C. Resistance D. Power - Roger Zieg, Lewellyn Technology
---	9:30-10:00	---	---	~ NETWORKING BREAK (All Tracks) ~
66	10:00-11:00	0.1	WW	Troubleshooting: A. Choosing the right meter B. Meter settings C. Half-split the problem - Roger Zieg, Lewellyn Technology
67	11:00-12:00	0.1	WW	Generators: Update on New Emission Standards and Maintenance - Steve Steenhoek and Shane Johnson, Ziegler
---	12:00-1:00	---	---	~ LUNCH (All Tracks) ~
68	1:00-2:00	0.1	WW	Small Community Inflow & Infiltration Systems - Michael Washburn, McClure Engineering Company
69	2:00-3:00	0.1	WW	Pump Station Options / Introduction to Self Cleaning Wet Wells - Steve Van Dyke, FOX Engineering Associates, Inc.

◆ PROGRAM REGISTRATION ~ Return with the Registration Form

YOUR NAME: _____

◆ ***This Program Registration Form MUST be submitted with the Registration Form or you are not yet registered. To qualify for the early registration rate, we must have received BOTH forms by August 20, 2010.***

Please indicate below every program you plan to attend, so we can try to assure adequate seating is available. (You may change your mind later, but we need your help now with your selection. ◆ Also, seating may be limited, and seating is on a first-come-first-seated basis.) **NOTE: There are many concurrent sessions. ◆ Please check the times to avoid signing up for multiple programs scheduled for the same time period!**

TUESDAY ~ September 14, 2010

Combined Track (These are the only morning programs)

- 9:15-10:15.... Confined Space Entry (WD / WT / WW)
- 10:45-11:45.. Iowa DNR Update (WD / WT / WW)

Water Distribution

- 12:45-1:45.... Water Meter Basics
- 1:45-2:45..... Case Study: Shenandoah's Water Meter Changeout Program
- 3:00-4:00..... Water Meter Changeout Program – Large Systems

Water Treatment

- 12:45-1:45.... Ammonia in Source Water: Implications for Chlorine
- 1:45-2:45..... Wellhead Protection
- 3:00-4:00..... Water Supply Well Maintenance

Wastewater Joint Session

- 12:45-1:45.... *E. coli*: Background, Sampling and Analysis
- 1:45-2:45..... Bypasses and SSOs
- 3:00-4:00..... TMDL Update and Cedar River Case Study



WEDNESDAY ~ September 15, 2010

Water Distribution

- 8:30-9:30 Distribution Systems 101
- 10:00-11:00 . Hydraulic Surges in Water Systems
- 11:00-12:00 . Backflow
- 1:00-2:00 Leak Detection
- 2:00-3:00..... Winter Maintenance

Water Treatment

- 8:30-9:30 Basic Chemistry
- 10:00-11:00 . Iron, Manganese, and Arsenic Removal
- 11:00-12:00 . Water Treatment Plant Discharge Issues
- 1:00-2:00 Evaluation of Constant Speed vs. Variable Speed Pumps
- 2:00-3:00 SCADA for Small Systems

Wastewater – Large Systems

- 8:30-9:30 Leading Your Council Through Sound Capital Planning
- 10:00-11:00 . Fort Dodge WWTP Planning & Project Summary
- 11:00-12:00 . Antidegradation Update
- 1:00-2:00 High Rate Anaerobic Treatment w/the SGBR
- 2:00-3:00 Upgrades at the Des Moines Wastewater Treatment Facility, Past-Present-Future

Wastewater – Small Systems

- 8:30-9:30 Fundamentals: A. Current B. Voltage C. Resistance D. Power
- 10:00-11:00 . Troubleshooting: A. Choosing the right meter B. Meter settings C. Half-split the problem
- 11:00-12:00 . Generators: Update on New Emission Standards and Maintenance
- 1:00-2:00 Small Community Inflow & Infiltration Systems
- 2:00-3:00 Pump Station Options / Introduction to Self Cleaning Wet Wells

The CEUs available for each program are found on the program listing page for each day, and on the “Personal CEU Record” page. You may wish to use the “Personal CEU Record” page to track for yourself the programs you Signed-Up for when you registered, and to keep a running total of the program hours you actually Sign-In for on-site, in each applicable CEU category. You will need that information to complete the new IDNR CEU Reporting Form before leaving the Short Course. For any questions, call AWWA at 515-283-2169.

◆ REGISTRATION FORM ~ Return WITH the Program Registration Form
Fall Short Course for Water and Wastewater Operators ~ September 14-15, 2010
Sheraton West Des Moines Hotel ~ West Des Moines, Iowa

4-Digit IDNR Operator ID # for CEUs (Do NOT put your SS#) *: _____ Please send PDH Instructions *

Name (please print or type): _____

Company: _____ Position: _____

Address: _____
 (ADDRESS: Business or Home) Street City State Zip

PHONE: (_____) _____ FAX: (_____) _____
 PHONE: Business or Home FAX: Business or Home

Fees include lunch, breaks, handouts & CEUs*

(Entire 2-page registration must be faxed in by August 20 for the early rate. Fee can be paid later. Indicate choice below.)

	<u>Fees if Registration Rec'd By August 20</u>	<u>Fees if Registration Rec'd After August 20</u>
<input type="checkbox"/> Registration Fee (Full Course, Both Days)	\$180.00	\$205.00
<input type="checkbox"/> One-Day Program → <input type="checkbox"/> Tuesday <input type="checkbox"/> Wednesday	\$120.00	\$145.00

- ⇒ I am including the PROGRAM REGISTRATION form indicating the programs I will attend.
 ◆ (We **must** have received BOTH your Program Registration Form AND this Registration Form page by August 20 for you to qualify for the early registration rate. Indicate your payment plans below.)
- Enclosed is a check payable to American Water Works Association, IA Section for \$ _____
- A check in the amount of \$ _____ will be mailed. (Please include copy of this page with payment.)
- Charge \$ _____ to → Visa MasterCard #: _____
- Print name on the card: _____ Exp. Date: _____ CVC: _____
- Authorized Signature: _____
- Other payment comments: _____

*** REGISTRATION REMINDERS ***

- * BOTH this Registration Form page AND the Program Registration page (on the reverse side) are required.
- * Qualify for the early registration rate by returning both pages by August 20. Payment may follow if necessary.

SEND FORMS & PAYMENT TO:

NEW ADDRESS > Iowa Section – AWWA
 100 Court Avenue, Ste 203 ~ Des Moines, IA 50309
 (515) 283-2169 ~ FAX: (515) 284-7301

◆ **Cancellation deadline is August 20, 2010.** Cancellations by August 20, 2010 can receive a full refund. Cancellations after August 20 will be subject to a cancellation fee of \$90 for both days, or \$50 for one day, even if registration payment was not yet received. ~ Substitutions will be accepted at any time.

August 20, 2010: Register by this date for preferred pricing.
Rooming reservation deadline. ~ See the outside back cover for details.
 Cancellations after this date are subject to cancellation fee. See above.

September 3, 2010: Registration deadline.
 (Registrations will still be accepted at the door. – Payment at the door by Check only.)

* Your IDNR Operator ID # is required on the IDNR CEU Reporting Form you will fill out at the Short Course in order to receive CEUs, but it is not required in order to register. If you do include your ID # here when registering, it will also be shown on your packet on-site. A listing will also be available on-site for those needing to look up their ID #. If you are in process of becoming an operator but have not yet been assigned an Operator ID #, indicate that in the space provided on your IDNR CEU Reporting Form and you will be contacted after the Short Course. ~ For privacy purposes, please do NOT include any portion of your Social Security number. ~ * Engineers and others who are not certified operators may request the PDH Instruction Sheet for claiming Professional Development Hours, either instead of or in addition to CEUs. PDH Instructions for maintaining engineering licensure through the Iowa Engineering and Land Surveying Examining Board are not the same as CEU Instructions for maintaining operator certification with the Iowa DNR.

AWWA-IAWEA Fall Short Course ~ September 14-15, 2010 ~ West Des Moines, Iowa

You may use this sheet to track for your records the Programs you Signed-Up for when you registered, and to keep a running total of the hours you actually Sign-In for in each CEU category. (This sheet can also track Professional Development Hours. PDH instructions available upon request.) ~ To claim CEUs, check in with the registrars when you first arrive and pick up an IDNR CEU Reporting Form. Fill in the top portion of that form including your IDNR Operator ID # or indicate if yours has not yet been assigned. Do NOT put your SSN. (You'll fill in the CEU part of the form later.) At EVERY Program you attend for credit, Sign-In AND specify the one CEU category you want to claim for that program, even if only one category is available. The CEU categories you claim are permanent and cannot be changed. At the end of your last day of attendance, on the IDNR CEU Reporting Form fill in the grand total number of hours you Signed-In for in each applicable CEU category. Turn in the White & Yellow pages before leaving. Keep the Pink page for your records.

~ TUESDAY ~ SEPTEMBER 14, 2010 ~								
Signed Up?	Combined Track		CEUs Available			CEUs Claimed		
			WD	WT	WW	WD	WT	WW
	9:15-10:15	(10) Confined Space Entry	0.1	0.1	0.1			
	10:45-11:45	(11) Iowa DNR Update	0.1	0.1	0.1			
Signed Up?	Water Distribution		CEUs Available			CEUs Claimed		
			WD	WT	WW	WD	WT	WW
	12:45-1:45	(12) Water Meter Basics	0.1	0	0		n/a	n/a
	1:45-2:45	(13) Case Study: Shenandoah's Water Meter Changeout Program	0.1	0	0		n/a	n/a
	3:00-4:00	(14) Water Meter Changeout Program - Large Systems	0.1	0	0		n/a	n/a
Signed Up?	Water Treatment		CEUs Available			CEUs Claimed		
			WD	WT	WW	WD	WT	WW
	12:45-1:45	(15) Ammonia in Source Water: Implications for Chlorine	0.1	0.1	0			n/a
	1:45-2:45	(16) Wellhead Protection	0	0.1	0	n/a		n/a
	3:00-4:00	(17) Water Supply Well Maintenance	0	0.1	0	n/a		n/a
Signed Up?	Wastewater Joint Session		CEUs Available			CEUs Claimed		
			WD	WT	WW	WD	WT	WW
	12:45-1:45	(18) E. coli: Background, Sampling and Analysis	0	0	0.1	n/a	n/a	
	1:45-2:45	(19) Bypasses and SSOs	0	0	0.1	n/a	n/a	
	3:00-4:00	(20) TMDL Update and Cedar River Case Study	0	0	0.1	n/a	n/a	
TOTALS for Tuesday, September 14, 2010								

~ WEDNESDAY ~ SEPTEMBER 15, 2010 ~								
Signed Up?	Water Distribution		CEUs Available			CEUs Claimed		
			WD	WT	WW	WD	WT	WW
	8:30-9:30	(50) Distribution Systems 101	0.1	0	0		n/a	n/a
	10:00-11:00	(51) Hydraulic Surges in Water Systems	0.1	0	0		n/a	n/a
	11:00-12:00	(52) Backflow	0.1	0	0		n/a	n/a
	1:00-2:00	(53) Leak Detection	0.1	0	0		n/a	n/a
	2:00-3:00	(54) Winter Maintenance	0.1	0	0		n/a	n/a
Signed Up?	Water Treatment		CEUs Available			CEUs Claimed		
			WD	WT	WW	WD	WT	WW
	8:30-9:30	(55) Basic Chemistry	0.1	0.1	0			n/a
	10:00-11:00	(56) Iron, Manganese, and Arsenic Removal	0	0.1	0	n/a		n/a
	11:00-12:00	(57) Water Treatment Plant Discharge Issues	0	0.1	0	n/a		n/a
	1:00-2:00	(58) Evaluation of Constant Speed vs. Variable Speed Pumps	0.1	0.1	0			n/a
	2:00-3:00	(59) SCADA for Small Systems	0.1	0.1	0			n/a
Signed Up?	Wastewater - Large Systems		CEUs Available			CEUs Claimed		
			WD	WT	WW	WD	WT	WW
	8:30-9:30	(60) Leading Your Council Through Sound Capital Planning	0	0	0.1	n/a	n/a	
	10:00-11:00	(61) Fort Dodge WWTP Planning & Project Summary	0	0	0.1	n/a	n/a	
	11:00-12:00	(62) Antidegradation Update	0	0	0.1	n/a	n/a	
	1:00-2:00	(63) High Rate Anaerobic Treatment with the SGBR	0	0	0.1	n/a	n/a	
	2:00-3:00	(64) Upgrades at Des Moines Wastewater Treatment Plant, Past-Present-Future	0	0	0.1	n/a	n/a	
Signed Up?	Wastewater - Small Systems		CEUs Available			CEUs Claimed		
			WD	WT	WW	WD	WT	WW
	8:30-9:30	(65) Fundamentals: A. Current B. Voltage C. Resistance D. Power	0	0	0.1	n/a	n/a	
	10:00-11:00	(66) Troubleshooting: A. Choosing right meter B. Meter settings C. Half-split problem	0	0	0.1	n/a	n/a	
	11:00-12:00	(67) Generators: Update on the New Emission Standards and Maintenance	0	0	0.1	n/a	n/a	
	1:00-2:00	(68) Small Community Inflow & Infiltration Systems	0	0	0.1	n/a	n/a	
	2:00-3:00	(69) Pump Station Options / Introduction of Self Cleaning Wet Wells	0	0	0.1	n/a	n/a	
TOTALS for Wednesday, September 15, 2010								

On the IDNR CEU Reporting Form write in your grand total of hours for each applicable CEU category.

GRAND TOTALS			
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AMERICAN WATER WORKS ASSOCIATION
IOWA SECTION – STATE OFFICE
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Des Moines, IA 50309

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FALL 2010 SHORT COURSE FOR WATER & WASTEWATER OPERATORS SEPTEMBER 14-15, 2010 ~ WEST DES MOINES, IOWA

AWWA - IAWEA Short Course

Sheraton West Des Moines Hotel

1-888-627-8043 ♦ 515-223-1800

♦ **SLEEPING ROOMS** for the nights of September 13 and 14 are being held at the Sheraton West Des Moines Hotel in West Des Moines, IA. The special conference rate is **\$95 per night**, plus tax & incidentals, for single or double occupancy. ♦ **Make your own reservations** online by clicking through to the Sheraton Reservations links at www.ia-awwa.org or at www.iawpca.org. Otherwise call toll free at 1-888-627-8043, or locally at 515-223-1800. Indicate your AWWA - IAWEA affiliation to receive the conference group rate. ♦ **RESERVATION DEADLINE IS AUGUST 20, 2010.** Reservations received after that date will be made on a space and rate available basis only.

Sheraton West Des Moines Hotel

University Avenue Exits off of I-35, I-80 & I-235
1800 50th Street, Rte. 10 ~ West Des Moines, IA 50266
Toll free: 1-888-627-8043 ~ Local: 515-223-1800
Reservation Links: www.ia-awwa.org ~ www.iawpca.org

