

**In This Issue:**

- 1 Tonight's agenda  
Sudoku
- 2 Speaker Profile  
ASCE Structure Profile
- 3 Important Information  
Officer Contacts  
Schedule  
Sudoku Answers

3						4		
			9	5				1
		8				7		2
	2			9		5	7	3
				6				
8	1	5		2			9	
5		3				2		
2				1	7			
		4						7

(Puzzle from Sudoku Collection:  
[www.sudokucollection.com](http://www.sudokucollection.com))

**Introductions:**

- Practitioner Advisors: Dave Karnowski  
Peter Clark
- Honorary Lifetime  
Contact Member: Bob Thorn
- Faculty Advisors: Dr. Melhem  
Dr. Riding

**Officer Reports:**

- President: Adam Emerson
- Vice President: Carl Peterson
- Treasurer: Vincent Studer
- Recording Secretary: Jennifer Sommerfeld
- Corresponding Secretary: Schyler Rohleder
- Newsletter Editor: Mark Stewart
- Historian: Robert Schweiger
- Student Council Rep: Claudia Gonzalez
- Freshman/Sophomore Rep: Logan Nichols
- Activities Chair: Travis Bailey
- Special Projects Chair: Logan Ortiz
- Webmaster: Jaime Quilty
- Steel Bridge Chairs: Chris Rottinghaus  
Andrew Wiederholt
- Concrete Canoe Chairs: Jenny Swabb  
Mohammed  
Almohammedali  
Nathan Pohl  
Katlyn Buckley
- Open House Chairs: Noura Saadi  
Alex Johnson  
Katie Walbridge

**Agenda:**

- Announcements: Adam Emerson
- Introduction of Speaker: Carl Peterson
- Speaker: Ron Altvater



## Speaker Profile

### **Bob Ringer, PE South Central Corrugated Steel Pipe Association**

Bob Ringer graduated from the University of New Mexico. Bob worked for the New Mexico Department of Transportation for 25 years. For the past 14 years Bob had been doing educational presentations on corrugated steel pipe. Bob is the college presenter for the National Corrugated Steel Pipe Association sponsored by the South Central Corrugated Steel Pipe Association.

Topics covered tonight will include an introduction and advanced information on corrugated steel pipe design and installation. Also, engineering principles, construction techniques, storm water detention, environmental issues and special uses.

## ASCE Structure Profile



### **Roman Aqueducts**

The Roman Empire used technology that changed the history of the world. One of their many technologies was the use of aqueducts. These aqueducts were responsible for providing the Roman Empire with water. Water was then used for supplying public baths, latrines, fountains and private households. At the height of the Roman Empire, the empire's population was approximately 1,000,000 people. The aqueducts were capable of delivering up to one cubic meter of water per person.

The aqueducts were designed on the simple idea of gravity. Water was transported from higher elevations to lower elevations. To transport through valleys or lowlands the Romans built aqueducts on bridges with arches, which is the image that most people think of when they hear Roman Aqueducts. However, most of the aqueducts were buried following the natural lay of the land.

# Officer Contacts

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3	5	1	8	7	2	4	6	9
7	4	2	9	5	6	8	3	1
6	9	8	3	4	1	7	5	2
4	2	6	1	9	8	5	7	3
9	3	7	5	6	4	1	2	8
8	1	5	7	2	3	6	9	4
5	7	3	4	8	9	2	1	6
2	8	9	6	1	7	3	4	5
1	6	4	2	3	5	9	8	7

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# Important Information

**FE Review** manuals are available for purchase for \$85 each. Contact Vincent Studer if you are interested in purchasing the manual.

**Students must become national members to receive credit** for ASCE Student Membership. Registration is free and can be done online at <http://www.asce.org/>. Click "login" at the top of the page, then click "click here to create one" and follow the instructions to become a national member.

**Scholarships and Internships**

Kansas Water Environment Association Scholarship  
KS APWA's Steve Webb Memorial Scholarship  
American Council of Engineering Companies

# Schedule

Jan. 24 – **Assembly: Ron Altvater**

Feb. 7 – **Shawn Mellies, Engineer (City of Wichita)**

Feb. 21 – **Kiewit**

April 4-6 - **Regionals**

April 11 – **Todd A. Wimmer (Union Pacific)**

April 13 – **FE Exam**

April 19-20 – **Open House**

**Joint Dinner - TBD**

**Senior Presentations/Officer Elections- TBD**