



November 1999

# ANNUNCIATOR

SARNIA  SECTION

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## Coming Events

- ▷ Dinner Meeting  
MONDAY, November 29th, 1999  
Sarnia Golf & Curling Club

*Sign Up Now!*

### ANNOUNCEMENT

Vendors are invited to display their products at the Dinner Meetings. 2 tables are available. Contact Program Committee Jim Dinkel or Andy Tucker. Cost \$50 per table.

The Sarnia Section has a domain on the internet. Next time you're on the net give us a look at:  
[www.isasarnia.com](http://www.isasarnia.com)

## President's Address

*Congratulations are in order to our section. Our section report received the gold award for small sections. This award also came with a cash bonus for the section. It was an honour for me to accept the award in Philadelphia at the Honours and Awards Banquet (tuxedo and all); the culmination of the ISA President's Fall Meeting. This proved to be added honour when we learned that the Edmonton Section had also won the gold award. This is quite an achievement for the Canadian districts.*

*This is one of the highest awards for a section and it reflects on its membership.*

*This could not be achieved without your participation and dedication to excellence.*

*I look forward to your continued interest, dedication and participation and with a concerted effort we will achieve this honour again. Looking forward to presenting the section award at our next dinner meeting. Hoping to see you there.*

Thank you,  
Mike Murray



## Still Available!

The 1999 Sarnia ISA Directory is still available.

Call (519) 332-2300 for details.



The Comprehensive Guide For the Measurement and Control Market

- Products
- Specifications
- Manufacturers
- Sales
- Representatives
- Services
- Telephone Handbook

SARNIA SECTION  
ISA Directory of 1999





# Upcoming Meetings

## Executive Meetings...

- ▶ February 28, 2000
- ▶ April 24, 2000
- ▶ June 26, 2000
- ▶ August 28, 2000

## Dinner Meetings...

- ▶ November 29, 1999
- ▶ January 31, 2000
- ▶ March 27, 2000
- ▶ May 29, 2000

*Plan to Attend!*

# DINNER MEETING NOTICE



## MONDAY

### November 29, 1999



**SARNIA GOLF & CURLING CLUB**  
500 Errol Road West, Sarnia • Phone: (519) 336-2201

Cocktails 6:00 p.m. Dinner 7:00 p.m.

*All Guests are Welcome!*

## Guest Speaker...

*STEVE HODGKINSON, Director of Business Development  
TransAlta Energy Corporation*

*TOPIC: Steve will discuss the development of the Sarnia Regional  
Cogeneration Project*

**M ▶ E ▶ N ▶ U**

Taco Salad, Assorted Mexican Platter  
Lime Sherbert

*\* For special dietary needs contact Hilda White at the Sarnia Golf and Curling Club 48 hours prior to meeting date.*

**NOTE:** Kindly book before deadline indication.

*Please phone in or E-Mail your reservation by Thursday, November 25th, 1999 to Sandi Cooke - Tidball Phone: (519) 481-3211 • E-Mail: cookets@novachem.com*

**MEMBERS \$10 ▶ GUESTS \$15**

*NOTE: ALL Members and guest are requested to reserve in advance. Please oblige... we need your support to plan your evening!*



# Perspective On...

**STEVE HODGKINSON, Guest Speaker**

**S. E. (Steve) Hodgkinson, Director, Business Development**  
**TRANSALTA ENERGY CORPORATION**

Steve has a Bachelor of Applied Science Degree in Civil Engineering from the University of Toronto. He joined TransAlta Utilities in Calgary, in 1981 as Senior Engineer, Right-of-Way Planning. In 1983 he was appointed Manager, Right-of-Way Planning and Regulatory Applications and in 1986, Manager, Property Administration. In these roles he was responsible for obtaining regulatory approvals for transmission lines and substations.

In 1990, Steve moved to the unregulated side of the business as Director, Business Development for TransAlta Energy Corporation. Since that time he has been involved in development, construction and operation of cogeneration projects in Windsor, Mississauga and

Ottawa as well as numerous other development activities including cogeneration development and work with Ontario municipal utilities.

Steve is responsible for business development activities in Ontario and Eastern Canada. This role includes negotiation of detailed contractual arrangements, environmental and other regulatory approvals to further project development, and ongoing management of existing contractual arrangements.

Steve moved back to Ontario in 1995 to establish a business office and now lives in Oakville with his wife and two children.



# HISTORY TEST... Flow Control

## Questions:

- 1 The first form of flow measurement was used in the ancient world by the:  
A. Egyptians B. Romans C. Artesians
- 2 The steam pump was invented by:  
A. Herbert Henry Dow B. Benjamin Franklin C. Thomas Savery
- 3 Robert Boyle found that the volume occupied by the same sample of any gas at constant temperature is inversely proportional to the pressure. This statement is known as Boyle's Law. Boyle discovered this in:  
A. 1662 B. 1789 C. 1804
- 4 The invention of the turbine flowmeter can be credited to:  
A. Leonardo da Vinci B. Samuel Clegg C. Reinhard Woltman
- 5 The inventor of the Venturi flowmeter was:  
A. Clemens Herschel B. Giovanni Battista Venturi C. Walter Kent
- 6 The Reynolds' Number, a dimensionless quantity that characterizes laminar and turbulent flow by relating kinetic (or inertial) forces to viscous forces within a fluid, was introduced to the world in what year:  
A. 1789 B. 1883 C. 1914
- 7 Which flowmeter came first:  
A. Nutating Disk B. Vortex C. Paddlewheel
- 8 The flow of water through a magnetic field generates a voltage across the flow. This principle behind the magmeter was discovered by:  
A. Nikola Tesla B. Thomas Alve Edison C. Michael Faraday
- 9 Whose innovative mind may have foreseen the possibilities of vortex measurement:  
A. Leonardo da Vinci B. Blaise Pascal C. W.G. Bird
- 10 The first Coriolis flowmeter was demonstrated in:  
A. 1933 B. 1953 C. 1977

## INSTRUMENTS VERONICS Inc.

*"Veronics Instruments Inc. is pleased to announce the acquisition of the O'Brien Corporation product line in the Ontario and Quebec markets.*

10 B. Although a model was demonstrated in 1953, it wasn't until the late 1970's that commercially available devices began making inroads.

9 A. Some of Leonardo da Vinci's drawings suggest that he may have been familiar with vortices. A vortex flowmeter uses a bluff body to create vortices at a proportional frequency that can be used for flow rate measurement. W.G. Bird obtained a patent for such a device in 1959.

8 C. While Michael Faraday (1791-1867) was aware of the principle, it wasn't until 1930 that E.J. Williams managed to measure the voltage across a pipe as a scientific curiosity.

7 C. The paddlewheel in 1790. The nutating disk in 1850 and initial work was done on the vortex in 1950.

6 B. Osborne Reynolds published his paper on the Reynolds' Number in 1883.

5 A. Clemens Herschel, a nineteenth-century Harvard grad, invented the Venturi flowmeter and named it after Giovanni Battista Venturi. In 1894, Walter Kent got rights to the product, which did very well for his company Kent Meters now ABB.

4 C. Reinhard Woltmans described a spoke-vane for measuring river flow in 1790. It was the forerunner to the turbine meter in which a rotating propeller is used to deduce volumetric flow.

3 A. 1662

2 C. Thomas Savery developed the steam pump in Britain in 1698.

1 A. The Egyptians are said to have used wells for open channel flow measurement about 3000 years ago.

## Answers:

