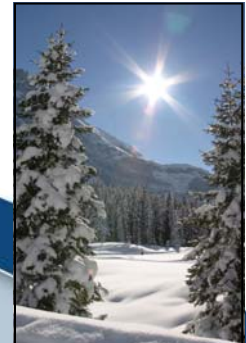




January 2010



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- 4) NAND—NORTHERN ALBERTA NEWS DEVELOPMENTS
- 5) “UP & RUNNING”
- 6) OIL SANDS AUTOMATION 2010 PROGRAM

ISA Edmonton Section  
 PO Box 190 Stn Main  
 Edmonton, AB T5J 2J1

Phone: (780) 960-7349  
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 Email: admin@isaedmonton.ca

For Further Information Check Out Our Website: [www.isaedmonton.ca](http://www.isaedmonton.ca)

## PRESIDENT’S MESSAGE

Greetings and Welcome to 2010 !

I think we can all agree that 2009 is a year that we would not want to see replicated in a very long time. Over the course of 2009, many organizations have undergone significant changes to reflect the downturn of our economy, and will probably come out a lot stronger. Our ISA Edmonton Section has been fortunate in having several new ISA members volunteer to work with us and continue to assist us in the work it takes to run a successful ISA Section. If this is your year for getting involved, we would be pleased to have you join us on the Board !



Coming up this month... we have a Professional Development Seminar entitled " Fundamentals of Temperature and Pressure Calibration" on Tuesday, January 19th. I attended a similar seminar a couple of years ago by the same speakers and it was sold out. If you work in a lab, or if calibration is your main focus on the job, this course will be very helpful. The next event for our membership will be Student's Night on Monday, January 25th and this is one of our most popular technical meetings, although the 'technical' has been toned down to a discussion on what we are all striving for - a Life-Work balance. A nice way to kick off a new year with an inspirational topic, and to share a few laughs as we realize that whatever imbalance life and work may throw at us, we seem to come out ahead of the game, no matter what ! In addition to our presentation, several students from the University of Alberta and NAIT will be recognized at the meeting for their scholastic accomplishments over the year and I welcome you to join us that evening.

Wishing you all the best for a healthy and prosperous New Year !

Sincerely,

**Stephen Kelly**  
 President,  
 ISA Edmonton Section

### Section Events

**Monday: January 25, 2010**

#### *Student Night*

Life, Work, Play—The Right Mix  
 1<sup>st</sup> Floor, Alumni Room, Students Union  
 Building

**RSVP Deadline:**

**Thursday, January 21, 2010.**

**Monday: February 22, 2010**

Canadian School of  
 Hydrocarbon Measurement  
 Woodvale Community League

**RSVP Deadline:**

**Thursday, February 18, 2010.**

The Next Issue of the  
 Contactor is February 2010

The deadline for this issue is  
 February 10, 2010

Please send your inserts  
 print ready to Sandra Clarke:  
 admin@isaedmonton.ca

### **New Members**

Welcome to ISA and the  
 Edmonton Section

Dan Brown  
 Tony Liao  
 Peter McVea



# ISA Edmonton 2010 Exhibit & Conference

Wednesday, **April 14th** – 10:00 am - 6:00 pm  
Thursday, **April 15th** – 10:00 am - 5:00 pm

Edmonton  
**EXPO**  
Centre  
Halls F, G & H



**Over \$10,000  
in Prizes  
To Be Given Away\***

Information and Registration online at  
[www.isaedmontonshow.ca](http://www.isaedmontonshow.ca)



\*Rules for contest including categories and terms of entry available on website.

## ISA Edmonton Section Conference & Exhibition

April 14—15, 2010

Northlands Agricom

This year's event promises to continue to build on our past success so mark these dates on your calendar today!

The committee is also planning a 3-track conference and to date the "Sales Track" scheduled so as not to conflict with the show hours has been finalized, including a Dale Carnegie presenter. Anyone registering for the Sales Track will have their name entered for a draw to win an \$1800 Dale Carnegie course package.

The other tracks are "Safety, Security and Wireless," all hot and challenging topics to professionals in our industry. There are still some openings left in these technical tracks though they are filling fast so if you are interested in being part of the ISA Edmonton 2010 Conference please contact Tristian at 780.237.7109 or Sandra Ph: (780) 960-7349 Email: [admin@isaedmonton.ca](mailto:admin@isaedmonton.ca) so your abstract can be shared with the organizing committee.

All authors will be contacted within 2 weeks of submittal of their abstract.

### Scholarships for ISA Student Members

Please Join Us In Congratulating The Following Students Receiving Scholarships Funded By The Edmonton ISA Section

- ISA-Edmonton Section Book Prize: Cara Baergen
- ISA- Edmonton Section Scholarship: Weilin Chen
- ISA- R T McKenzie Memorial Scholarship: Jan U. M. Garcia
- ISA- Millennium Scholarship: Felicia M. Yapari
- ISA Dr. Reg K. Wood Scholarship: Orest Shardt

### Unemployed ISA Members

Due to current economic conditions, ISA offers up to one year of grace period for members who are unemployed at the time of renewal of their membership.

If you need more information, please contact the Membership Director, Rod Corbett, at [rod.corbett@hotmail.com](mailto:rod.corbett@hotmail.com) or (780) 997-6514

Update your membership information:

[www.isa.org](http://www.isa.org)>MyISA>MyRecord

or

ISA Edmonton Section at

Ph: (780) 960-7349

E-mail: [admin@isaedmonton.ca](mailto:admin@isaedmonton.ca)



## Industrial Automation Networks Inc.

**Are you starting, revising or recently been asked to upgrade to a digital communications system such as Foundation Fieldbus?**

If you need help with Front End Design including assistance with Specification development Industrial Automation Networks is here to help. We can help you get your project off to the start it needs to guarantee success at the other end when commissioning so call today to learn more.

Phone: 888 978 6463 (888 9RU-MINE)

Web: <http://www.industrialautomationnetworks.com>

**Making Industrial Networks Easy™**



## UPCOMING COURSES AT SPARTAN CONTROLS – EDMONTON

### **Course 7017: DeltaV Implementation II**

*This 4-1/2 day course is for process control engineers responsible for configuring the DeltaV system. Advanced topics will be covered including display scripting, function blocks, and configuration tips.*

**Date:** Feb 8-12, 2010

**Price:** \$ 3,770.00

### **Course 7018: Delta V Hardware & Troubleshooting**

*This 4-day course covers the hardware components that make up the DeltaV system. With a combination of lecture and workshops, the student will assemble the system, power up the Controller, I/O subsystem and workstation. The student will learn how to use the diagnostic tools available to verify any fault conditions that are hardware related. Students will also be introduced to configuration tools and the operator interface.*

**Date:** Feb 16-19, 2010

**Price:** \$ 3480.00

### **Course 2033: Advanced Vibration Analysis/Category III Complaint**

*This 4 day course complies with Category III Vibration Analyst per ISO standard 18436-2: Vibration condition monitoring and diagnostics.*

*This course expands on the subjects covered in the Intermediate Vibration course (Category II), especially in the areas of fault analysis and corrective actions. The class details advanced analysis techniques. The dual channel machinery health analyzer features are introduced including the use of AMST<sup>TM</sup> Suite: Machinery Health Manager Software to set up the advanced analyzer features and the powerful downloadable programs for data collection. The transient machinery health analyzer capabilities are covered such as long-term time waveform. The class covers advanced resonance detection using a variety of testing methods, including triggered data collection.*

**Date:** Feb 22-25, 2010

**Price:** \$ 2,830.00

### **Course 7009: DeltaV Implementation 1**

*This 4.5 day course covers a complete DeltaV system implementation.*

**Date:** Feb 22-26, 2010

**Price:** \$ 3,770.00

Courses qualify as professional development credit for APEGGA or ASET. For more course information or to register on-line, please visit our website at [www.spartancontrols.com](http://www.spartancontrols.com).

#### **Registration Contacts:**

Debbie Toonen  
Phone: (780) 440-5666  
Email: [toonen.debbie@spartancontrols.com](mailto:toonen.debbie@spartancontrols.com)

Pamela McLachlan  
Phone: (780) 440-5659  
Email: [mclachlan.pamela@spartancontrols.com](mailto:mclachlan.pamela@spartancontrols.com)

## **Oil Sands Automation 2010**

March 9 -10, 2010

Oil Sands Interpretive Centre, Fort McMurray

The organising committee now has the program close to completion and registrations are now being accepted.

Full information on this exciting event happening in Northern Alberta can be found on the ISA Edmonton Section web site at <http://www.isaedmonton.ca/OilSands/2010ISAOilSandsflyer.pdf>

The registration form is on page 7 so take advantage of the Early Bird registration TODAY!

### **TECHNICAL SECTION AVAILABLE ONLINE**



An updated copy of the **ISA Alberta Directory's Technical Handbook** will soon be available online at [www.isaalbertadirectory.ca](http://www.isaalbertadirectory.ca)

**Please Note:** A Font issue caused some text to display improperly in the Technical Section of the printed 2009/2010 Directory. Please refer to the online pdf for the corrected version.



2010  
Oil Sands  
Automation  
Conference

March 9—10, 2010

**Location:**  
**Oil Sands Discovery  
Centre**  
**515 Mackenzie Blvd**  
**Fort McMurray, Alberta**

**Organizing Committee:**

Dan McGraw — Chairman  
(Syn crude Canada Ltd.)

Dustin Bizon  
(Honeywell Canada)

Al Chan  
(CNRL—Horizon Project)

Aris Espejo  
(Syn crude Canada Ltd)

Trevor Hrycay  
(Suncor Energy)

Garry Nunns  
(Albian Sands)

Ian Verhappen  
(Industrial Automation  
Networks Inc.)

Sandra Clarke —  
Registration  
(ISA Edmonton Section)

**Registration Address**  
ISA Edmonton Section  
P.O. Box 190 Main Post  
Office  
Edmonton, AB T5J 2J1  
E-mail:  
admin@isaedmonton.ca  
Phone (780) 960-7349  
Fax (780) 960-2732  
E-mail:  
admin@isaedmonton.ca

This years ISA Oil Sands Automation Conference has a back to the future feel with a focus on mining and reports on technologies and projects that have long held promise in the Oil Sands. The Conference will start on Tuesday March 9, 2010 at 13:00. Wednesdays event begins with a continental breakfast at 7:30 and presentations at 8:00.

The price for the event remains unchanged from last year but remember we are limited to 150 attendees so register early. There is a special Student Registration rate available, please contact Sandra Clarke or your Student Section Advisor for the student registration form.

We will also be having a banquet Tuesday evening featuring local Fort McMurray cuisine so be sure to register and bring your appetite.

The program will end at 16:30 on Wednesday and the Discovery Centre is near the airport so out of town attendees will be able to travel home after the event.

The complete program with the latest updates, hotel information and links will be on the ISA Edmonton Section website at <http://www.isaedmonton.ca/oilsands>

Please fax to 780 960-2732

**Registration Form**

<b>Registration Name</b>		
<b>ISA Membership #</b>		
<b>Company</b>		
<b>Address</b>		
<b>Phone</b>	<b>Fax</b>	
<b>E-mail</b>		
<b>Banquet Tickets</b>		<input type="checkbox"/> \$ 40.00
<b>Conference Registration</b>	<b>Early Bird</b>	<b>Regular</b>
	<input type="checkbox"/> \$ 175.00	<input type="checkbox"/> \$ 225.00
(ISA member price)	<input type="checkbox"/> \$ 125.00	<input type="checkbox"/> \$ 175.00
<b>Total Enclosed: \$</b>		
<b>Payment Method</b>	<input type="checkbox"/> Visa	<input type="checkbox"/> MasterCard <input type="checkbox"/> Cheque
<b>Card Number</b>	<b>Expiry</b>	
<b>Signature</b>		
<b>Date:</b>	<input type="checkbox"/> Receipt required	
<input type="checkbox"/> I do <b>NOT</b> wish to share my registration information with other participants and realise I will not receive this information in return myself.		
Information on ISA Membership can be found at <a href="http://www.isa.org/Template.cfm?section=Join">http://www.isa.org/Template.cfm?section=Join</a>		



# ISA Edmonton Section January 2010 Technical Meeting

## Life, Work, Play — The “Right” Mix

**Student Night: 1<sup>st</sup> Floor, Alumni Room, Students Union Building, University of Alberta, 8900 – 114 Street**

<http://www.campusmap.ualberta.ca/> (select: students union building)

**Monday, January 25, 2010**

**Networking/Cash Bar: 6:00 PM**

**Beer & Pizza: 6:30 PM**

**Presentation: 7:00 PM**

**Cost: Members and Guest of Members \$20**

**~ Non Members \$30 ~ Student Members - Complimentary~**

### **Biography: John Ross**

John Ross is a retired Instrumentation Technologist and a long time ISA member. John first joined ISA as a student member attending NAIT in the almost pre-historic year of 1968.

After graduation he had the good fortune of joining the sales team with Spartan Controls. After 27 years of serving Spartan customers, John retired at the end of 1997.

When working, he actively participated in a potpourri of ISA activities. His first executive involvement was as NAIT Student Section President. After joining Spartan he helped to organize the very first Edmonton ISA Trade Show in the early '70s. This now bi-annual show is ISA Edmonton's largest income source, thanks to the dedication of many members since that first event. So, from little seeds, big trees grow!

John feels fortunate to have a partner Helen who has put up with him for the past 46 years, and has been blessed with 2 children and now 6 grandchildren.

He presently stays busy volunteering with a couple of charitable organizations, and restoring the occasional vintage jukebox. He enjoys downhill skiing, riding his bicycle long distances, canoeing – rafting – and sea kayaking... even though he hasn't learned how to swim yet. John and Helen have also enjoyed many travel vacations together, having visited a potpourri of exotic destinations in our amazing world.

### **Presentation Summary:**

Should life be all work? All play? What is the right mix?

John will spend a brief time telling us about his experiences in answer to these questions. He may even ask a few of his now grey hair friends (who might humor him being in the audience) for their opinions. So, if you already have a crown of 'grey glory' please think about what wisdom you might like to share with the Student Section members in attendance.

Following this 'enlightenment'? John will proceed to tell us something he really knows more about, his most recent cycling adventure. Two summers ago, John spent 7 weeks riding his bicycle from Paris to Istanbul. He peddled 4000 kms across 8 countries... France, Germany, Austria, Slovakia, Hungary, Romania, Bulgaria and Turkey, loosely along the route of the fabled Orient Express Rail Line.

John hopes that his story of this adventure will be of interest to you, but if even if it isn't, come out anyway to enjoy an enjoyable social evening with your ISA friends.

**Space Is Limited And All Attendees Must RSVP.**

**RSVP Deadline: Thursday, January 21, 2009.**

**Ph: (780) 960-7349 Email: admin@isaedmonton.ca**

Please post this on your bulletin board so others may benefit from your membership.

### **2009 Section Events**

#### **January Meeting– Jan. 25**

University of Alberta  
(Student Night-John Ross Work/  
Life Balance)

#### **February Meeting– Feb. 22**

Woodvale Community League  
(Canadian School of Hydrocarbon  
Measurement)

#### **March Meeting– Mar. 29**

Woodvale Community League  
(Wireless (Richard May—Myotis))

#### **Oil Sands Conference–Mar. 9/10**

Fort McMurray

#### **Tuesday April 13 2010.**

Alarm Management - The  
Impact of the ISA-18.2 Standard

#### **ISA Exhibit & Conf–Apr. 14/15**

Edmonton

#### **April Meeting– Apr. 26**

Woodvale Community League  
(Oil Sands Conference Speaker )

#### **May AGM Meeting– May 31**

Woodvale Community League  
(Burner Management Systems)

#### **Family Event– Jun.**

Capitals Ball Game

#### **Annual Golf Tournament– Jul. 10**

Millwood Golf Course



# ISA Edmonton Section February 2010 Technical Meeting

## Ultrasonic Meters for Production Gas: Case Study

Woodvale Community League (Millwoods Golf Course)  
4505-50 Street Edmonton, Alberta

**Monday, February 22, 2010**

**Networking/Cash Bar: 6:00 PM**

**Dinner: 6:30 PM**

**Presentation: 7:00 PM**

**Cost: Members and Guest of Members \$20**

**~ Non Members \$30 ~ Student Members - Complimentary~**

### **Biography: Brad Perin**

Brad started with Hudson Bay Oil & Gas at the Brazeau River Gas Plant in 1981, where he worked in the Instrumentation and Electrical department for 19 years before taking role as Corporate Measurement Coordinator for Gulf Midstream Services in 1999, which has evolved into Keyera Energy today. He is dual ticketed and in his 19 years at the plant apprenticed many Instrument/Electrical techs. He also helped train Gulf Indonesian operations staff sent to Canada to train for 2.5 years prior to the start up of their gas plant.

Brad was as one of the 5 founding members of IMG (Industry Measurement Group) and is one of the 6 directors of Canadian Institute of Hydrocarbon Measurement and past Chair of the CSHM conference held each spring in Calgary. He lives in Red Deer and in his spare time likes he likes to ski, golf, swim and watch his daughter figure skate, dance, cross country ski and cheer on the Oilers and Rebels

### **Presentation Summary:**

With today's challenges in oil and gas industry, we need to think outside the box when it comes to gas or liquid measurement. This talk deals with multipath ultrasonic gas meters used on Inlet and Test separators. UltraSonic Gas Meters (USM) were typically only being used in custody transfer applications, mainly on larger gas transmission lines or on large flare systems at larger process facilities. Today there are many makes, models and sizes which now go down as small as 2". Today's challenges with work force shrinking, limited resources, varying volumetric flowrates into large inlets, varied analysis, high concentrations of H2S, cost of compression, problems with orifice plates, etc. Keyera has taken a different approach and working with vendors has implemented many USM on inlet and test separators with success and some learning's that I would like to share with you. You will get to see when and where to use a gas USM inside a gas plant and how installation should be done. I will also share volumetric data with you, where we installed a USM gas meter in series with an orifice plate. There will be time for lots of questions during the discussion and at the end.

**Space Is Limited And All Attendees Must RSVP.**

**RSVP Deadline: Thursday, February 18, 2010**

**Ph: (780) 960-7349 Email: admin@isaedmonton.ca**

### **2009 Section Events**

#### **February Meeting- Feb. 22**

Woodvale Community League  
(Canadian School of Hydrocarbon Measurement)

#### **March Meeting- Mar. 29**

Woodvale Community League  
(Wireless (Richard May—Myotis))

#### **Oil Sands Conference-Mar. 9/10**

Fort McMurray

#### **Tuesday April 13 2010.**

Alarm Management - The Impact of the ISA-18.2 Standard

#### **ISA Exhibit & Conf-Apr. 14/15**

Edmonton

#### **April Meeting- Apr. 26**

Woodvale Community League  
(Oil Sands Conference Speaker)

#### **May AGM Meeting- May 31**

Woodvale Community League  
(Burner Management Systems)

#### **Family Event- Jun.**

Capitals Ball Game

#### **Annual Golf Tournament- Jul. 10**

Millwood Golf Course

## **Section Meeting Tabletops**

The Edmonton Section will be having a limited number of tabletop demonstrations available at all Section meetings this year. If you are interested in reserving a spot at a future meeting please contact Sandra at the Section office Ph: (780) 960-7349 Email: admin@isaedmonton.ca .

Please post this on your bulletin board so others may benefit from your membership.

# ISA Oil Sands Automation 2010



**Edmonton  
Section**

Oil Sands Discovery Centre  
Fort McMurray, AB

March 9 -10, 2010

*"In our seventh year and still the only Oil Sands Conference in Oil Sands Country"*

## Conference speakers:

George Cymerman, Syncrude R&D, "Oil Sands Mining: Back to The Future"  
Joy Romero, CNRL, "On the Horizon and Underfoot: Our Good Works"  
Mel Torrie, Autonomous Solutions, Inc. "Robotics Inroads in Mining"  
Arthur Dupuis, Albian Sands, "Bird Deterrent Strategy and the Role for Automation"  
Ruud Bos, Honeywell, "Recent Improvements in Flow Meter Provers"  
John Rhind, Albian Sands, "Finding Stability in the Shifting Sands: a 30 year Perspective"  
Charles Constancon, BMT WBM Canada, "Shovel Based Payload and Machine Health Monitoring"  
Ian Verhappen, Industrial Automation Networks, "Wireless: Inroads and Barriers"  
Shahram Tafazoli, Motion Metrics, "Machine Vision Solutions in Mining"  
Glenn Welch, Pocock Industrial, "Tailings Dewatering, A Process Overview"  
Brent Mitchell, Kemex, "Water Hammer: Cause, Consequence and Control"  
Richard May, Mytosis Wireless, "Telemetry Off-Grid and in the Dark"  
Edwin Bauer, Total E&P, "Joslyn North Mine Project Update"

## Conference Schedule

### Tuesday, March 9, 2010

12:00 - 4:00 PM Conference Sessions, Discovery Center  
6:00 PM Conference Mixer & Banquet at the Sawridge Inn

### Wednesday, March 10, 2010

8:30 AM Continental Breakfast, Discovery Center  
9:00 AM -12:00 PM Conference Sessions, Discovery Center  
12:00 PM - 1:00 PM Lunch catered by Bertini's, Discovery Center  
1:00 - 4:30 PM Conference Sessions, Discovery Center

Registration by FAX, payable by VISA and MasterCard

Registration form and updated conference schedule at the [www.isaedmonton.ca](http://www.isaedmonton.ca) website

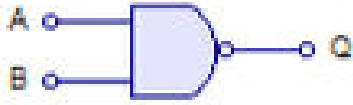
A block of rooms have been reserved under the "2010 Oil Sands Automation Conference" at the Sawridge Inn (780.791.7900)

Conference Registrar: Sandra Clarke, ISA Edmonton Section,

Email: [admin@isaedmonton.ca](mailto:admin@isaedmonton.ca) , Phone: (780)960-7349, FAX: (780)960-2732

**Register by January 31 2010 for the Early Bird Discount.**

**Attendance is limited (by the Fire Marshal) to 150 and the Conference is anticipated to be a sell out**

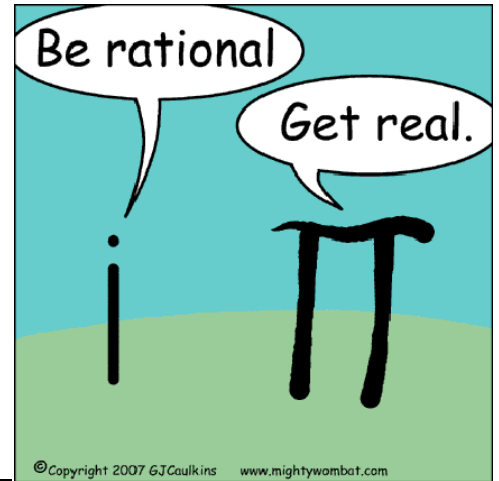


## Northern Alberta News Developments

Very little news over the holidays though I am sure that like our economy things will soon start picking up in Northern Alberta as well so please be sure to send in your materials.

Meanwhile, enjoy the cartoon to the right.—Ian

Please submit your news to Sandra (admin@isaedmonton.ca by the 10<sup>th</sup> of each month for inclusion in the next issue of the Contactor, normally issued



### Up & Running

#### Cash is King!

How many times have we heard that expression and said—oh another trite phrase. However when you are running a business it is a truism.

Without cash how will you be able to pay all your bills?

Employees expect their cheques every pay period, and of course the government expects their share including payroll taxes and GST payments, and of course you have to pay all your suppliers or else you will not have anything to sell.

Many businesses are too successful, in that they have to pay for materials and then ‘finance’ the end customer until the product is delivered. More than one company has failed because they had all their money tied up in the product pipeline.

As a rule of thumb, you should generally have 90 days cash on hand because regrettably there are a number of businesses who deliberately conserve their cash flow at the expense of smaller businesses by not paying invoices for this period of time. Of course, if you threaten to follow through with the clauses of your invoice and charge the interest penalty for accounts more than 30 days due you will be fortunate to get your one and only invoice paid—still likely in 90 days.

One way I have learned from first hand experience is that for some of these bigger companies, if they want you to help them have them pay for the expenses such as air fare and send you the e-ticket. This way you can both win, they get an additional credit for their corporate travel commitment and you are not out the cash while waiting for reimbursement of expenses—typically after the project is over which could easily approach 120 days from purchase.

Ironically, it is the small companies who feel the same pain that pay on time.

Of course, your bank is willing to offer you a line of credit, at least the interest rate is lower than credit cards, but you pay a monthly fee just for the privilege of being able to borrow money if an when you need it.

Fortunately there are a number of tools available to help you manage your cash flow—even if you are not using an accounting package. A spreadsheet will work for what you need here. Look for Cash Flow in your favourite browser, or if you are an Excel user do the same on the Microsoft template site.

If you do go to your banker for that line of credit, they will be asking for a cash flow analysis as a minimum, and likely a business plan showing how and where your company will be getting its business and growth so you may as well do this for yourself to see the highs and lows to predict how much equity or cash reserve you need throughout the year.

Even though many of us pay for items on credit, eventually it is cash that must exchange hands to complete the transaction, which just proves the phrase we started this column with—cash IS king.

Happy New Year! - Ian

If you have a topic or book you would like to have in a future version of this column please contact the editor.