



**BATON ROUGE
SECTION**

November Newsletter 2008

New Rotary Control Valve Technology

**November 20, 2008
Time: 11:30 am—12:30 pm**

**Location:
Ralph & Kacoos**

**6110 Bluebonnet Blvd
Baton Rouge, LA 70809**

PAY ONLINE

<http://www.isa.org/~bator/meeting.html>



President's Message

November 2008 Newsletter
President's Message

Fellow ISA Baton Rouge Section Members & Guests:

For those of you that were present at the Annual Shrimp boil, thank you for your participation – the turn out was great and the cook team did a great job on the shrimp. For those of you that missed it, we hope to see you next year.

As we move into the Holiday Season, our minds filled with everything that must be done, it is sometimes difficult to remember to focus on what is really important. Don't lose sight of the fact that while work and career are important objectives, brotherhood, family and remembering the 'life spirit' inside each of us are equally important (probably more so for 'life spirit' part).

I hope and pray that your Thanksgiving Season is filled with of joy and happiness with and for all of those that are most important to you.

Our monthly meeting for November 20th is – Rotary Control Valve Technology. Presented by Masoneilan & Desselle Maggard. Brannon Gant, VP of Sales will lead the presentation. There will be a hands on demo available. Bring your process application questions relating to control valve performance to ensure that this session is meaningful and beneficial.

Hoping you have a Blessed Holiday Season!

Brent Haydell
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GMA Manager – Global Accounts
Shell & ExxonMobil North America
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Upcoming ISA Events...

TRIED OF WRITING CHECKS, PLEASE VISIT OUR NEW PAY ONLINE OPTION. Click on each event and get redirected to PAYPAL
<http://www.isa.org/~bator/meeting.html>

ATTENTION MEMBERS!

Please see our new website
<http://www.isa.org/~bator/index.html>

2008-2009 ISA Baton Rouge Calendar

November 20th
New Rotary Control Valve Technology - Ralph & Kacoo's on Bluebonnet

December 18th
Wireless SCADA by Stan Prutz, QDS Systems - Holiday Inn, Gonzales

January 15th
Asset Management - Ralph & Kacoo's on Bluebonnet

February 19th
Concepts of FDT/DTM protocol - Holiday Inn, Gonzales

March 19th
Meeting of FDT/DTM committee
Venue to be determined

April 16th
ISA BR/NO Expo 2009 - Lamar Dixon Expo Center

May 21st
Annual Section Banquet and Awards Dinner
Ralph & Kacoo's on Bluebonnet

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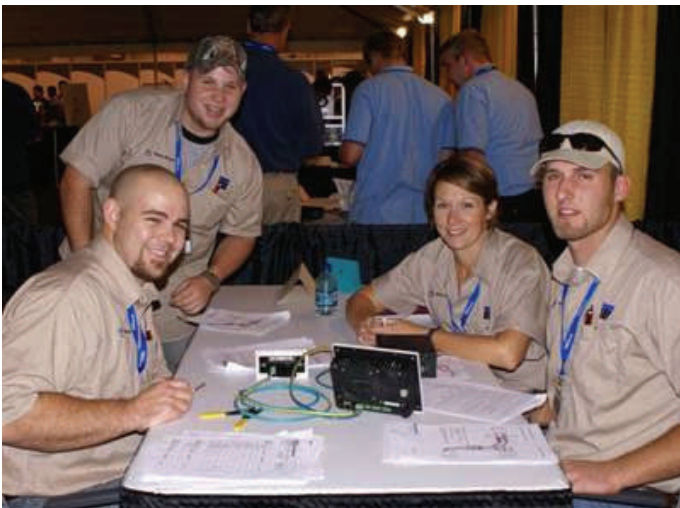
ROSEMOUNT

ITI, ISA STUDENT SECTION DOES IT AGAIN!!!!

ITI Technical College instrumentation students attended a conference hosted by The International Society for Automation on October 8, 2008. ISA is a non-profit organization that helps members and automation professionals solve technical problems while also helping to enhance their leadership and career capabilities. Students from all over the world competed in an event where they had to solve technical problems in a timed fashion. **ITI's student team placed 3rd out of twelve international teams in the competition.** Winners also included first place winner British Columbia Institute of Technology, Burnaby, Canada and second place winner Lambton College, Sarnia, Ontario, Canada.

Mark Hughes remembers last year's ISA International Student Competition when his students had no past experience and placed sixth out of twelve teams. But, this year was different for ITI Technical College Student Section in Baton Rouge, LA. Hughes' team had one competition under their belt so they benefited from training provided by last year's team. Some that competed were four year institutions such as Pennsylvania College of Technology Williamsport, Pennsylvania, Southern Poly State University Marietta, Georgia, and St. Petersburg State University of Aerospace Instrumentation, Russia.

The point of the competition is to give students from around the world real-world problems in the field of process control and instrumentation while also giving students opportunities to network and meet other students interested in the fields of automation and engineering. Winning the gold was not everything to Hughes though. "I hope my team members gain personal positive experiences regarding teamwork, camaraderie, and a sense of accomplishment," said the team's advisor. ITI Instrumentation students that competed were Jeffery Ducote- Baker, Jeffrey Wilks- Denham Springs, Melinda Moore-St. Amant, Josh Huckeba-Denham Springs, and Matt Ramagos-White Castle.



Dear Member

Is it time to Renew your Membership ...

Visit: http://www.isa.org/Content/NavigationMenu/General_Information/Membership2/Membership.htm

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By Dave Polka



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There are hundreds of applications for AC and DC drives. When we look at applications, it is important to consider the load connected to the motor. The load is the determining factor in what type, style, size, and power-producing device the motor should be. The drive is the device that will control the motor. In simple terms, it is best to start with the application (load), work backward to the motor (prime mover), then to the drive (controller), and then to the automated or manual control (speed control or PLC). There are three major categories of mechanical loads: *Constant Torque*, *Constant Horsepower*, and *Variable Torque*. Any drive application will fall into one of these three categories. The drive's primary responsibility is to control the application, protect the motor, and protect itself.

Applications fall constant

Constant torque applications make up the majority of industrial applications. Torque is the turning or twisting force that the motor applies to the shaft. When we look at a graph of the characteristics of a **constant torque application**, we see torque required in this application is 100% and remains constant from zero to base speed (100%). In other words, the rated torque (100%) is required to operate this application, no matter what the speed. In most cases, this application will operate from only zero to base speed. It is also evident that this type of application possesses a variable horsepower characteristic.

In a constant torque application, horsepower is directly proportional to the speed (i.e., at 50% speed, 50% horsepower is required). While the horsepower consumed by the motor varies directly with speed, the torque to power the load remains constant.

In reality, the load may vary from above rated torque (100%) to below rated level and anywhere in between, until the motor attains full speed (in many cases, base speed).

Professional Development Hours: Continuing Education Requirements for Registered Professional Engineers

As of January 1, 1999, the State of Louisiana began requiring Licensed Professional Engineers to participate in a continuing education process as a condition for registration renewal. During each biennial registration renewal period, every engineer registrant, including those registered in two or more disciplines, is required to obtain 30 Professional Development Hours (PDH's) in engineering related activities. The local section can help. *Many of our section meetings qualify towards this requirements.*

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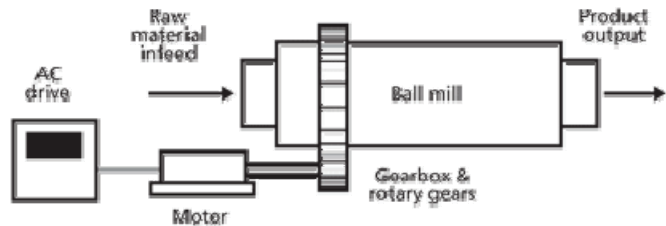
Cont. THE POWER OF TWIST

In many cases, as much as 150% torque is required to break the load away from a standstill. The 150% dashed line indicates a possible overload requirement from a motor and drive, if connected to this type of load.

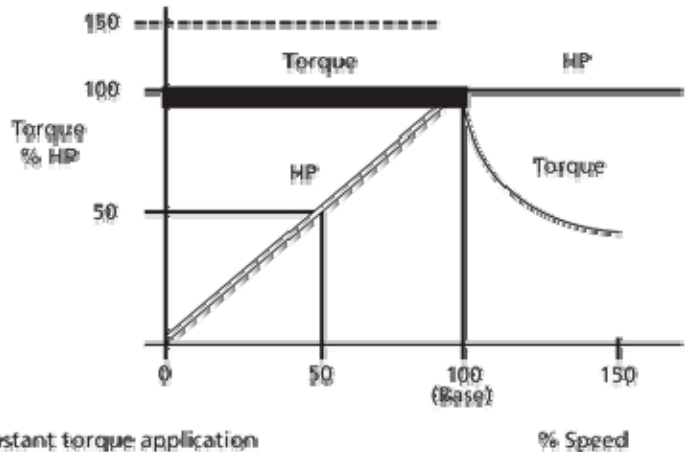
Many applications fall into the constant torque category. The standard belt conveyor is a prime example. A **ball mill in a cement plant** is another example. The image shown here is the ball mill process of grinding aggregate into powder for cement.

The speed of the AC drive controls the degree of grinding. Speeds of less than 120 rpm cause the ball mill cylinder to internally grind the large raw material into smaller particles and eventually into fine granulated powder.

The torque required from the motor can be constant from zero to the maximum speed. Overload torque is necessary only at the beginning to start the mill rotating. The amount of overload depends on the amount of material inside the mill at start-up.



Ball mill in a cement plant



Constant torque application

Dear Past ISA Baton Rouge Section Sponsors,

In the past, we have offered the following:

(we will still offer these items individually for those that want to write multiple checks throughout the year)

Traditional ways to support the section:

Business Card placed in Newsletter and on website	\$150
Shrimp Boil Tickets	\$25/ea
One Day Technical Seminar Ticket	\$120/ea

This year we are offering new ways to support the section through advertising your company and/or products and services:

¼ page advertisement in the Monthly Newsletter	\$100 each occurrence
½ page advertisement in the Monthly Newsletter	\$200 each occurrence
Full page advertisement in the Monthly Newsletter	\$300 each occurrence
Corporate Logo on Section Signage displayed at ALL section events	\$150



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