



**BATON ROUGE  
SECTION**

**May  
Newsletter 2007**

## **PRESENTATION**

### **Ethics in Engineering**

**Speaker: Dr. Aramando Carripio**

**May 16, 2007**

**Cash Bar: 5:30pm  
Dinner and Presentation: 6:30pm**

**Location:  
Drusilla Seafood Restaurant  
Baton Rouge, LA**

**Pricing with RSVP: \$20/person  
Tickets at Door: \$25/person**

**RSVP: [isareservations@hotmail.com](mailto:isareservations@hotmail.com)**

## President's Message

Welcome readers!! As I write today, I am excited about a lot of things coming up in the next few weeks. When you read this newsletter, it shall be the day to celebrate the efforts of some of the brightest students from Baton Rouge in our field of instrumentation and automation. It will also be celebrations of the board members who have helped me make this section continue doing what we did best and also add some value by doing new things.

With your help and support, this section has continued to grow strongly. The membership is on the rise, enthusiasm is on the rise and we have many volunteers who are willingly and dedicatedly working towards making this section grow stronger than ever.

Last week we did 3 presentations to the students at BRCC to charter a student section. It went well and we should expect them to charter a section soon. Also, ITI student section is participating in the International Students Competition in Houston this October. I received great accolades for them from a lot of ISA International members.

We shall have a 8 PDH seminar on Safety Systems on the 22<sup>nd</sup> of June at Baton Rouge Area Foundation in downtown Baton Rouge. We have speakers from Exxon-Mobil, Jacobs Engineering, Siemens, Triconex and Exida Corporation to make this a comprehensive session on Safety Systems. We have limited seats and I would encourage one and all to send in your RSVP to [isareservations@hotmail.com](mailto:isareservations@hotmail.com) as early as possible.

Also, we are in the planning stages for next year's activities. If anybody is interested in doing something new for our section, plan some new activity or re-start some activity, you are welcome to approach us and we will be more than happy to assist you in that venture.

As always, we are looking forward to having more enthusiastic people join this society and take the maximum benefits from it. ISA has been growing and it's the biggest network of automation professionals worldwide. The prudence is in being a part of this huge automation community, give a bit and obtain a whole lot. The yearly membership is \$85, which includes 12 issues of Intech magazine and a lot of discounts on the ISA products.

We have started looking for presenters at our technical meeting next year. Please contact me at [murtaza.gandhi@jacobs.com](mailto:murtaza.gandhi@jacobs.com) for any further info.

If you would like to send an article or advertisement, please email Crystal Barzare at [crystal.barzare@jacobs.com](mailto:crystal.barzare@jacobs.com).

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**Dr. Armando Benito Corripio**

Ph.D., Louisiana State University, 1970

<http://www.che.lsu.edu/faculty/emeritus/corripio/index.htm>

**Research Interests**

Dr. Corripio's main research interests are in the application of computers for designing, controlling, and operating chemical processes. These interests fall into the broad areas of automatic process control theory, computer integrated manufacturing (CIM) and computer-aided process design (CAPD). In automatic process control theory, Dr. Corripio works in the development and tuning of computer control algorithms, process identification, auto-tuning, and adaptive control, and on the application of these techniques to multivariable process control problems. In CIM his interests include the application of real-time optimization techniques, artificial neural networks, and optimal scheduling and control of batch processes. His computer-aided process design projects include computer programs for equipment sizing and costing, and the integration of these functions with flowsheet simulation programs.

**Publications**

- **Principles and Practice of Automatic Process Control**, 2nd edition, by Carlos A. Smith and Armando B. Corripio, Wiley, New York (1997).
- **Tuning Industrial Control Systems**, 2nd edition, by Armando B. Corripio, ISA, Research Triangle Park, NC (2000)
- **Design and Applications of Process Control Systems**, by Armando B. Corripio, ISA, Research Triangle Park, NC (1998).
- *A Computer Control Algorithm for Feedback Composition Control Using Off-Line Analysis*, by Lois B. Jansen and Armando B. Corripio, **Computers & Chemical Engineering**, **17**(10), 1031-1040 (1993).
- *Pumps and Motors Cost*, by Armando B. Corripio and Lawrence B. Evans, **Encyclopedia of Chemical Processing and Design**, **46**, Marcel Dekker, New York, 28-35 (1994).
- *Implementation of a Dynamically-Compensated PID Control Algorithm*, by Samuel M. Peebles, Stephen R. Hunter, and Armando B. Corripio, **Computers & Chemical Engineering**, **18**(10), 995-1000 (1994).
- *An Algorithm for Supervisory Multivariable Constrained Optimization of Industrial Processes*, by W.E. (Gene) Daniel, Armando B. Corripio, Robert W. Fontaine, and Mario J. Schellen, **Chemical Engineering Communications**, **130**, 203-223 (1994).
- *Transient Temperature Model for Reaction Injection Molding*, by Samuel M. Peebles and Armando B. Corripio, **AIChE Journal**, **41**(5), 1273-1280 (1995).
- *Storage Tank and Heat Exchanger Costs*, by Armando B. Corripio, Lawrence B. Evans, and Katherine S. Chrien, **Encyclopedia of Chemical Processing and Design**, **55**, Marcel Dekker, New York, 4-9 (1996).
- *Tower Costs*, by Antonio Mulet, Armando B. Corripio and Lawrence B. Evans, **Encyclopedia of Chemical Processing and Design**, **58**, Marcel Dekker, New York, 229-237 (1997).

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- On-line optimization of a model IV fluid catalytic cracking unit, by Umesh K. Chitnis and Armando B. Corripio, **ISA Transactions**, 37(3), 215-226 (1998). *Operating Regime Decomposition Using Neural Networks*, by Olufemi A. Adebisi and Armando B. Corripio, **Chemical Engineering Communications**, Vol. 189, 2002, pp. 1550-1568.
- *Dynamic Neural Networks Partial Least Squares (DNNPLS) Identification of Multivariable Processes*, by Olufemi A. Adebisi and Armando B. Corripio, **Computers and Chemical Engineering**, Vol. 27/2, 2003, pp. 143-155. *Analysis of the Sorbent Energy Transfer System (SETS) for Power Generation and CO2 Capture*, by J. Yu, A. B. Corripio, D. P. Harrison, and R. J. Copeland, **Advances in Environmental Research**, Vol. 7, 2003, pp. 335-345.

### BATON ROUGE SECTION BOARD MEETING MINUTES May 2, 2007

Attendees: Murtaza Gandhi, Harold Keegan, Bill Bonds, Jay Jones, Stan Brohn, Crystal Barzare, Al Jolissaint & Aparna Subramanian

#### Scholarship Banquet

- Reschedule banquet for May 16 and coordinate menu with Drusilla.  
Banquet Details:

- Price: \$20 for reservations and \$25 for walk-in.
- Candidates to be accompanied by school sponsor and one guest.
- Send reminder post cards & bring digital camera.
- Arrange name tags for everyone.

#### Banquet Agenda:

- Start off with the dinner.
- While eating, president to introduce the speaker Dr. Corripio and start the presentation.
- Once presentation is complete, president will introduce each sponsor from the different school. The sponsors will announce their recipients along with award the \$500 check and certificate. Pictures will be taken when president presents the certificate.
- Elections for next year's board members.
- Announcement for upcoming summer technical presentations.

#### Summer Technical Presentation:

##### 1 Day Seminar/Presentation

- Safety Systems Presentation: June 22, 8am to 3pm.
- Room booked & Stan Brohn to arrange lunch.
- Pricing either per hour \$15 (members), \$20 for (non-members) or pay upfront for different sessions morning and afternoon.

##### Presenters:

- Kurt Miller from Exida to present a 4hr presentation on "Sil Data Collection" along with a demo workshop.
- Max Hohenberger, 1½ hr presentation on "Safety Critical Devices."
- Talk to Matt Henderson from Triconex and Charles Fialkowski from Simens for 1 hr presentation.
- Don Lum from Englobal needs to confirm presentation topic.

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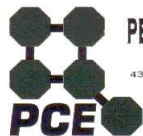
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**Conference Participation:**

Aparna, Bill Bonds, Crystal Barzare (maybe) & Murtaza Gandhi (maybe) to attend June 23<sup>rd</sup> Summer Leaders Meeting.

**BRCC & ITI Student Section:**

Murtaza and Aparna will help chartering BRCC student section through a presentation on ISA to Process Automation I & II students. Forest Broussard will assume duties as President of ISA, ITI student chapter.

**Newsletter:**

Crystal to update the newsletter with new articles, biography of upcoming presenter, and include board meeting minutes.

**Treasurer's Report:**

\$30,446.17 Bank & Cash Accounts  
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**Upcoming Presentation...**

June, 22nd

**Safety Systems Presentation**

Baton Rouge Area Foundation, **Downtown**  
 402 N 4<sup>th</sup> st, BR, LA (Intersection of Laurel St and N 4<sup>th</sup> Street in Downtown BR).

**Speakers to Include:**

- Max Hohenberger, ExxonMobil
- Danny Dupont, Jacobs Engineering
- Curt Miller, Exida Corporation
- Gene Cammack, Siemens
- Glenn Raney, Triconex

**MORNING AND AFTERNOON SESSIONS AVAILABLE WITH A VARIETY OF TOPICS TO BE PRESENTED. PDH'S WILL BE AWARDED. DETAILS TO BE FORWARDED IN THE NEXT COUPLE WEEKS.**

**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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**10 May 2007, InTech e-News**

**Rats do serve purpose**

A new biosensor based on a rat's sniffing ability can detect explosives, landmines, and deadly agents such as sarin gas.

To create the biosensor, Danny Dhanasekaran and colleagues at the Temple University School of Medicine genetically engineered a yeast strain with mammalian (rat) olfactory signaling machinery and genetically linked it to the expression of green fluorescent protein.

Into these yeast cells, they cloned individual rat olfactory receptors. When the olfactory receptor "smells" the odor of DNT, an ingredient in the explosive TNT, the biosensor turns fluorescent green.

"We suspected that harnessing the potential of the olfactory system, which can detect innumerable chemical agents with unparalleled sensitivity and selectivity, would be of immense value in the detection of environmental toxins and chemical warfare agents even at sublethal levels," said Dhanasekaran, associate professor of Biochemistry at Temple's Fels Institute for Cancer Research and Molecular Biology. The research team is now perfecting the biosensor. They are working to increase its response time, and they are working on the potential therapeutic applications beyond chemical agent detection.

Biosensors, which consist of natural ingredients, are preferable to man-made sensors, which can be expensive, cumbersome, and inflexible. Dhanasekaran said the biosensor could go into a handheld device or a remote device that can stay at a location and monitored remotely.

For related information, go to [www.isa.org/sensors](http://www.isa.org/sensors).

**10 May 2007, InTech e-News**

**Ford: Way Forward is dark**

Ford Motor said it plans to darken the lights at its Cleveland casting plant in 2009, as part of its wider Way Forward restructuring campaign.

*The Wall Street Journal* reported Ford is trying to bring its operations more in line with its falling market share, climbing costs, and changes in driver tastes.

Ford will defer production from its Cleveland Engine Plant No. 1 to an existing plant in Lima, Ohio, starting in two weeks for about a year. That plant employs 530 hourly workers and will eventually begin building more-powerful engines for new products once the hiatus ends.

In addition, this week, Democratic presidential hopeful Sen. Barack Obama said auto-makers are out of excuses for opposing more stringent fuel-economy standards. Speaking at the Detroit Economic Club, Obama said "expensive to do is no longer an excuse for failure to do."



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May 2007

Page 7

## Testing Windows for ISA Certification Electronic Exams

Beginning January 1, 2007, ISA electronic certification exams will be available during three testing windows. Each exam testing window will have a deadline for applications to be considered for testing in that window. Eligible candidates will only be able to test during the testing windows.

The candidate eligibility window is 9 months. Once your application is approved, testing must be completed within two exam testing windows. Your first exam testing date must be scheduled during the first available window after your application is approved. All rescheduling and retesting must be completed within the two consecutive exam testing windows within your 9 month eligibility period.

You may reschedule your exam once, and the rescheduled date must be during your first exam testing window. If you must retest, you must allow 30 days between your initial exam date and your retest date. If you are not able to schedule a retest in the same window you took the initial exam, you can retest in the next available window. A total of two retests are allowed within your two eligible exam testing windows with each retest scheduled at least 30 days apart.

If you do not successfully complete the exam within the two exam testing windows within your 9 month eligibility period, you must reapply submitting another application and fee.

In order to schedule an exam, you will need to send your completed application by the specified application deadline for the exam testing window.

The application deadlines and testing windows are as follows:

Exam Testing Window	Exam Application Postmark Deadline
Window 1: March 1 – April 30, 2007	Tuesday, January 16, 2007
Window 2: July 1 – August 31, 2007	Tuesday, May 15, 2007
Window 3: November 1 – December 31, 2007	Monday, September 17, 2007

## Student Section News

There are no “work days” or other gatherings scheduled at this time.

**READ-OUT** is the newsletter of ISA Baton Rouge Section and is published 9 times a year. Business card ads by sponsors are \$150 per year, double ads are \$275. If you are interested in an ad, have an announcement, comment, question or suggestion; please contact us. **Deadline for ads, articles, etc. is noon on the last Friday of the month! Please provide the information to the editor by email to [crystal.barzare@jacobs.com](mailto:crystal.barzare@jacobs.com)**