



**BATON ROUGE  
SECTION**

**June  
Newsletter 2007**

**SUMMER TECHNICAL  
PRESENTATION**

**Safety Systems**

**June 22, 2007**

**Time: 8am-4:30 am**

**Location:  
Baton Rouge Area Foundation  
Baton Rouge, LA**



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## President's Message

Welcome readers!! This is my last message as a president of ISA Baton Rouge Section. I would like you all to know that it has been a pleasure serving you all. The kind of zeal and enthusiasm I see in all the members and the encouragement I get from the ISA board members makes this effort all worthwhile.

The presentation for this month is unique in a lot of ways. First, the topics and the location of the presentation are new. Also, we have received a lot of new entries in our attendee list this month. It has all of us excited to come up with new ways of trying to educate the Instrumentation Systems and Automation community in the fields pertaining to the interests of most of the people.

For next month, Aparna and her team will continue with the same effort of serving you all. I wish her and all the board members good luck for the next year. I am sure our community will keep training and adding fresh faces in the industry and in ISA. The experienced members of the community are playing a greater role not only in doing their own work but also training the future members of this community. I wish you all lots of luck in all your ventures.

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.

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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**Summer Technical Presentation**  
**Safety Systems**  
**June 22, 2007**

**Presenters**

- Max Hohenberger, ExxonMobil  
Topic: "Critical Devices" 8am-9:20am
- Glenn Raney, Invensys Consulting  
Topic: "Fault Tree Analysis" 9:30am-10:50am
- Lunch Break (Lunch Provided)  
Voodoo BBQ & Grill 10:50am-11:30am
- Gene Cammack, Siemens  
Topic: "Safety Fieldbus for Process Industries" 11:30am-12:40pm
- Danny Dupont, Jacobs Engineering  
Topic: "Development of SIL Targets" 12:50pm-2:10pm
- Curt Miller, Exida Corporation  
Topic: "SIL Solver Verification" 2:20pm-4:30pm

**Location & Price**

Baton Rouge Area Foundation

With RSVP

- 1st Session, 8am-11:30am (3 PDH)  
\$40 Members, \$50 Non Members
- 2nd Session, 10:50am-4:30pm (5 PDH)  
\$60 Members, \$70 Non Members
- Entire Day Presentation (8 PDH)  
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RSVP by email to [isareservations@hotmail.com](mailto:isareservations@hotmail.com) by June 15th, 2007.

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## BATON ROUGE SECTION BOARD MEETING MINUTES June 13, 2007

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

### Summer Technical Presentation:

- Safety Systems Presentation: June 22, 8am to 4:30pm at Baton Rouge Area Foundation.
- Registration to begin at 7:30am and total of 8 PDH's to be offered.
- Board members will be able to attend presentation free of charge. Board will help with registration and day of events.
- Stan Brohn to arrange lunch from Voodoo BBQ and confirm projector/screen setup.
- Drinks will be provided by Baton Rouge Area Foundation free of charge.
- Brent Haydell will take care of participant name tags and pick up presenter gifts.
- Murtaza and Stan to review room arrangements on June 15.
- Max Hohenberger, Glenn Raney, Gene Cammack, Danny Dupont, Curt Miller to present.

### Conference Participation:

Aparna Subramanian, Bill Bonds, & Murtaza Gandhi (maybe) to attend June 23<sup>rd</sup> Summer Leaders Meeting in Scottsdale, AZ.

### Newsletter:

Crystal Barzare to update the newsletter with new articles and include board meeting minutes. Email newsletter to Al Jolissaint to post on local ISA website.

### Treasurer's Report:

Bank One Securities Corporation: \$30,686.24  
Bank One Checking: \$11,097.35 Net Worth: \$41,783.59

### Planning for new ISA Year:

- Room booked at Jacobs for next year's board meeting.
- Board plans to have July meeting.
- Update local area directory with manufacturer/distributor cross-reference for products.
- Fee for monthly meeting meals will increase from \$12 to \$15 for members and from \$15 to \$20 with no reservation.
- Fee for scholarship banquet meal will increase from \$25 to \$30.

## 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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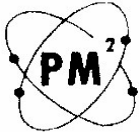
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## Annual Scholarship Banquet, May 2007

The May meeting was held on May 16, 2007 at Drusilla Seafood Restaurant. Dr. Armando Benito Corripio, a retired professor from LSU, gave a presentation on ethics. Also, the following candidates from each of the local area educational institutions were selected and awarded a \$500 scholarship. A great time was had by all!

Taylor Birchman, Baton Rouge Community College  
Jennie Najolia, Louisiana State University  
Jason Lee, ITI Technical College  
Jeremy L. Brown, Southern University

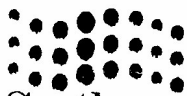


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14 June 2007, InTech e-News

**Transferring power wirelessly**

The joy of using wireless products such as cell phones, household robots, mp3 players, laptop computers, and other portable electronics is they offer complete mobility. The problem, though, is eventually they have to plug into an outlet and charge.

There is now a plan underway to allow these devices to charge themselves without ever being plugged in, freeing us from that ubiquitous power wire. Some of these devices might not even need their bulky batteries to operate.

A team from MIT's Department of Physics, Department of Electrical Engineering and Computer Science, and Institute for Soldier Nanotechnologies has experimentally demonstrated an important step toward accomplishing this vision.

Realizing a theoretical prediction, the team of researchers was able to light a 60W light bulb from a power source 7 ft (more than 2 meters) away; there was no physical connection between the source and the appliance. The MIT team refers to its concept as "WiTricity" (as in wireless electricity).

It all started when MIT Professor Marin Soljacic was standing and staring at his cell phone on the kitchen counter. "It was probably the sixth time that month that I was awakened by my cell phone beeping to let me know that I had forgotten to charge it. It occurred to me that it would be so great if the thing took care of its own charging." To make this possible, one would have to have a way to transmit power wirelessly, so Soljacic started thinking about which physical phenomena could help make this wish a reality. Transmitting power wirelessly is not new. One example is electromagnetic radiation, such as radio waves. While such radiation is excellent for wireless transmission of information, it is not feasible to use it for power transmission. Since radiation spreads in all directions, a vast majority of power would end up wasted. Another approach is to use directed electromagnetic radiation, such as lasers, but this is not very practical and can even be dangerous. It requires an uninterrupted line of sight between the source and the device, as well as a sophisticated tracking mechanism when the device is mobile.

In contrast, WiTricity uses coupled resonant objects. Two resonant objects of the same resonant frequency tend to exchange energy efficiently, while interacting weakly with extraneous off-resonant objects. A child on a swing is a good example of this. A swing is a type of mechanical resonance, so only when the child pumps her legs at the natural frequency of the swing is she able to impart substantial energy.

The MIT team focused on magnetically coupled resonators. The team explored a system of two electromagnetic resonators, coupled mostly through their magnetic fields; they were able to identify the strongly coupled regime in this system, even when the distance between them was several times larger than the sizes of the resonant objects. This way, they enabled efficient power transfer. Magnetic coupling is particularly suitable for everyday applications because most common materials interact only very weakly with magnetic fields, so interactions with extraneous environmental objects suppress even further. "The fact that magnetic fields interact so weakly with biological organisms is also important for safety considerations," said Andre Kurs, a graduate student in physics. The design consists of two copper coils, each a self-resonant system. One of the coils, attached to the power source, is the sending unit. Instead of irradiating the environment with electromagnetic waves, it fills the space around it with a non-radiative magnetic field oscillating at MHz frequencies. The non-radiative field mediates the power exchange with the other coil (the receiving unit), which is specially designed to resonate with the field. The resonant nature of the process ensures the strong interaction between the sending unit and the receiving unit, while the interaction with the rest of the environment is weak.

"The crucial advantage of using the non-radiative field lies in the fact that most of the power not picked up by the receiving coil remains bound to the vicinity of the sending unit, instead of being radiated into the environment and lost," said Robert Moffatt, an MIT undergraduate in physics.

With such a design, power transfer has a limited range, and the range would be shorter for smaller-size receivers. Still, for laptop-sized coils, power levels more than sufficient to run a laptop can transfer over room-sized distances nearly omni-directionally and efficiently, irrespective of the geometry of the surrounding space, even when environmental objects completely obstruct the line-of-sight between the two coils.

"As long as the laptop is in a room equipped with a source of such wireless power, it would charge automatically, without having to be plugged in," said Peter Fisher, a professor at MIT. "In fact, it would not even need a battery to operate inside of such a room." In the long run, this could reduce our society's dependence on batteries, which are currently heavy and expensive.



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June 2007

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At first glance, such a power transfer is reminiscent of relatively commonplace magnetic induction, such as is used in power transformers, which contain coils that transmit power to each other over very short distances. An electric current running in a sending coil induces another current in a receiving coil. The two coils are very close, but they do not touch. However, this behavior changes dramatically when the distance between the coils is increased.

“Here is where the magic of the resonant coupling comes about,” said Aristeidis Karalis, a graduate student in electrical engineering and computer science. “The usual non-resonant magnetic induction would be almost 1 million times less efficient in this particular system.”

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

### 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 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.

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