

# Megger 2011 Relay and Protection Seminars

Use the Megger Relay and Protection Seminars to help improve your business skills, share insights and address many of the challenges seen in the industry today!

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[www.megger.com/us](http://www.megger.com/us)

# LEARN FROM MEGGER RELAY IND

The Megger 2011 Relay and Protection Seminar is a FREE one-day event dedicated to furthering the knowledge of anyone involved in the discipline of relay testing.

Seminars will be across the country offering a FREE one-day seminar that includes a balance of formal paper presentations, informal discussions and hands-on testing to ensure a forum to share ideas and experiences with others.



## Reasons to attend:

- It's the best FREE one-day seminar value in the industry
- Learn new relay test techniques and applications
- Learn about the latest relay technology and other developments that affect your every day relay testing activities



## Who should attend:

- Protection Relay Test Technicians
- Protective Relay Test Engineers
- Consulting Engineers
- Power System Maintenance Managers and Supervisors
- Quality Assurance Engineers

## What do our customer say?

"Megger has great relay testing workshops. It gives me a chance to learn more about performing certain relay test routines as part of our overall commission and maintenance program."

*Utility Technician, from a large city utility*

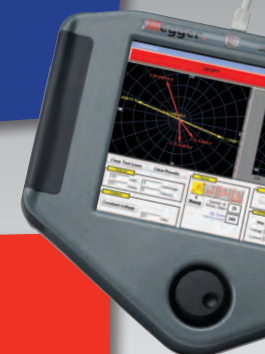
"I really like the idea of a one day event because as a field person you are limited when you can be away from your work. Megger understands this. They have the right mix of paper presentations, hands-on and enough time to meet with my colleagues."

*Electrical Engineer, from a major industrial*

"I have been attending Megger one-day events in California and Virginia. I can say that the quality and the quantity of the material presented was a real value."

*Owner, testing company*

To register for any of our events simply go to  
[www.regonline.com/megger2011relayandprotection](http://www.regonline.com/megger2011relayandprotection)  
Or call us today at 214-330-3245. Seating is limited, contact us now!



# INDUSTRY EXPERTS

## Topics to be covered in the Megger 2011 Relay Seminars:

- Simulation Testing?
- Why is there a need for Dynamic Testing and Simulation?
- COMTRADE Discussion
- State Sequencing Testing
- Constant Source Impedance
- AVTS Megger Relay Software – Will it work with COMTRADE? And how do you use it?
- Transformer testing – Single Phase vs Three Phase – What are the differences and benefits?
- Question and Answer session

## Megger 2011 Relay and Protection Seminars are coming to a city close to you!

- San Antonio, TX – July 12th
- El Paso, TX – July 14th
- Los Angeles, CA – July 19th
- Long Beach, CA – July 21st
- Washington, D.C. – August 2nd
- Philadelphia, PA – August 4th
- San Francisco, CA – August 9th
- Portland, OR – August 11th
- Tampa, FL – August 16th
- Charlotte, NC – August 18th
- Dallas, TX – August 23rd
- Houston, TX – August 25th
- Chicago, IL – September 20th
- Kansas City, MO – September 22nd
- Denver, CO – September 27th
- Phoenix, AZ – September 29th

# Megger<sup>®</sup>

www.megger.com/us  
1-800-723-2861

## Megger 2011 Relay and Protection Seminars AGENDA\*

Time	Presentation Topic
8:00 AM – 8:15 AM	<b>Introductions and Housekeeping <u>Morning Session</u></b>
8:15 AM – 9:15 AM	<b>Simulation Testing</b> <ul style="list-style-type: none"> <li>• Discuss need for dynamic testing and simulation</li> <li>• COMTRADE discussion</li> <li>• State Sequencing discussion</li> </ul>
9:15 AM – 9:30 AM	<b>Break</b>
9:30 AM – 10:30 AM	<b>Constant Source Impedance Testing</b> <ul style="list-style-type: none"> <li>• Introduction to Symmetrical Components</li> <li>• Lecture from WSU</li> <li>• AVTS Module creation</li> </ul>
10:30 AM – 11:00 AM	<b>COMTRADE</b> <ul style="list-style-type: none"> <li>• How to use it in AVTS</li> </ul>
11:00 AM – 11:40 AM	<b>Transformer Testing</b> <ul style="list-style-type: none"> <li>• Single Phase vs. Three Phase Testing</li> </ul>
11:40 AM – 12:00 PM	<b>Q&amp;A Session</b>
12:00 NOON – 12:30 PM	<b>Lunch Break</b>
12:30 PM – 12:45 PM	<b>Introduction and Housekeeping <u>Afternoon Session</u></b>
12:45-1:45	<b>Simulation Testing</b> <ul style="list-style-type: none"> <li>• Discuss need for dynamic testing and simulation</li> <li>• COMTRADE discussion</li> <li>• State Sequencing discussion</li> </ul>
1:45-2:00	<b>Break</b>
2:00 PM – 3:00 PM	<b>Constant Source Impedance Testing</b> <ul style="list-style-type: none"> <li>• Introduction to Symmetrical Components</li> <li>• Lecture from WSU</li> <li>• AVTS Module creation</li> </ul>
3:00 PM – 3:30 PM	<b>COMTRADE</b> <ul style="list-style-type: none"> <li>• How to use it in AVTS</li> </ul>
3:30 PM – 4:10 PM	<b>Transformer Testing</b> <ul style="list-style-type: none"> <li>• Single Phase vs. Three Phase Testing</li> </ul>
4:10 PM – 4:30 PM	<b>Q&amp;A Session</b>

*\*Presentations are subject to change*

**Register now at:**

[www.regonline.com/megger2011relayandprotection](http://www.regonline.com/megger2011relayandprotection)

**Contact Information**

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## Presenters

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### Jason Buneo

Jason Buneo received his B.S and M.S in Electrical Engineering from the University at Buffalo in 2001 and 2005 respectively. In 2005 he joined GE Energy Services as a field service engineer. He specialized in arc flash coordination studies, protective relay testing and calibration, and low/medium voltage switchgear repair. In 2008 he joined Megger as an Applications Engineer specializing in protective relay evaluation and testing. He is also a participating member of the IEEE Power Systems Relay Committee.



### Jammie Lee

Jammie Lee has over 5 years experience in the area of relay protection and control design. He recently joined the Megger organization as a Relay Application Engineer. Previously with Power Grid Engineering and Entergy he worked on various projects focused on ensuring proper operation of electromechanical relays. He was also responsible for various deliverables based on the development of protection and control equipment to assure top quality design. He received his Bachelor of Science in Electrical Engineering from Mississippi State University with a minor in Mathematics.



### Rene Aguilar

Rene received his B.S. in Electrical Engineering from the University of Texas at Austin. He worked on APPDS (Automatic Protection Detection System) used for detecting and coordinating issues between devices in a distributed generated system. In 2006, he joined Megger as an application engineer in the technical support group. He is in charge of developing automatic testing for numerical relays as well as the implementation of IEC 61850 on various Megger products.

Rene has extensive experience in the testing and commissioning of electrical schemes and multi-vendor device applications of IEC 61850. He is a member of IEEE and an active member of the Power System Relay Committee.



### James Ariza

James received his B.S in Electrical Engineering from Universidad del Valle, Cali Columbia. He has extensive experience in testing and commissioning of electrical schemes, performing power system studies and design, and electrical system fieldwork supervision. Between 2000 and 2005 he worked as a field protection engineer and then as a project manager at GERS USA. He has previously worked with EPSA an electric utility in Columbia and Fraunhofer IMBT an R&D technology center in Florida. In 2005, James joined Megger, where he has service as an application engineer. He presently holds the title of senior application engineer and is responsible for account management as it ties to Relay OEMs. He is the instructor of the Megger hands on seminars covering theory and practical applications of IEC 61850. He is a member of IEEE and an active member of the Power System Relay Committee.