

# “CIRCUIT CARD TESTING IN MANUFACTURING”



## Date & Time:

April 18, 2016  
3:00 to 5:00PM

## Location:

Avon Lake Public Library  
32649 Electric Blvd  
Avon Lake, OH 44012

## Agenda:

Door Opens @ 3:00 PM  
Presentation @ 3:30 PM  
Light refreshments will be served.

## Who Is Invited?

Anyone interested in this topic, although priority will be given to pre-registered IEEE Cleveland Section members

## CPD

One (1) CPD Hours Available  
Bring your flyer for credit

## Space is limited

To reserve your seat please  
RSVP by April 15 at:  
<http://goo.gl/Cv5OQy>

## Presenter: Sol Black

**Abstract:** In this one hour presentation, Mr. Black, explains the various techniques to test electronic circuit cards in a manufacturing environment. He covers disciplines such as Product-Testing-Product, Functional Testing, and Boundary Scan (JTAG IEEE 1149.X), but concentrates on In Circuit Testing as this is the fastest way to test products as well as the method having the highest fault coverage.

This is a fast moving and entertaining discussion which combines humor with a lot of technology. It is not an academic speech but a real hands-on description of what is done in the industry. There are short entertaining explanatory skits such as “Two guys in a bar in Boston” and “A little girl with a red marker.”

Although students will find this talk especially informative, practicing Engineers will also learn a considerable amount from it.

**Biography:** Mr. Black is a retired Senior Test Engineer from Western Electric/AT&T/Lucent Technologies. He was responsible for Design For Testability and Test Development at Lucent. He has also consulted in the field, spent time at Celestica Technologies, and is still working in the field, part-time, at LSI/ADL Technologies. He resides in a suburb of Columbus, Ohio. He is Membership Chair of the Columbus Section and past Chair, Vice Chair, and Secretary. He had also served many years as Communications Society Chair of the Columbus Section.



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This is to certify that \_\_\_\_\_ attended this seminar. Certified by \_\_\_\_\_.  
Certificates of attendance and other evidence of CPD activity should be retained by the attendee for auditing purposes.