

# "The Evolving Quality of Telephonic Speech"



## Date & Time:

December 11, 2013  
6:00pm - 7:30 pm

## Location:

Beacon Place Conference Center  
6055 Rockside Woods Blvd.  
Independence, OH 44131  
(enter building via main entrance  
at front of building and take  
elevator to conference center on  
lower level)

## Agenda:

- \*Registration Opens @ 5:45
- \*Free Catered meal @ 6:00
- \*Opening Remarks
- \*Presentation

## Who Is Invited?

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

## CPD

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

## Space is limited

To reserve your seat please

RSVP by December 9 at:

[www.clevelandieee.org/rsvp-12-13](http://www.clevelandieee.org/rsvp-12-13)

**ABSTRACT** – We'll examine human speech and its cognition, five components of speech quality, and how each component is impaired by nature and technology. Then, we'll review how speech quality has become better-and-worse as telephony has evolved from analog to digital to IP. Finally, after reviewing Voice-over-IP and discussing Network Integration, we'll describe techniques for providing High-Fidelity VoIP.

**SPEAKER** – Dr. Richard Thompson was a Professor of Telecommunications at the University of Pittsburgh since 1989, after 20 years at AT&T Bell Labs. He chaired Pitt's Telecom Program for 17 years, had a secondary appointment in Pitt's EE Dept., and was affiliated with Pitt's undergrad Photonics Program. He retired to emeritus status in 2012. Rich's primary research interest is *Communications Switching*, especially *Photonic Switching* and *Voice over IP*. He has over 100 publications, including two Artech-House textbooks: *Telephone Switching Systems* and *The Physical Layer of Communications Systems*. Rich has been an IEEE member since the AIEE-IRE merger (in 1963) and has been active in its Computer and Communications Societies internationally and locally (in Pittsburgh and Northern NJ). After moving to Vermilion, OH, he was named vice-chair of the Cleveland 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.