

*Welcome to the
IPC Designers Council
April 12th
Chapter Meeting*



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IPC Designers Council
April 12th
Chapter Meeting

Thanks to IXIA for providing today's meeting place



Thanks to **IPC Designers Council** for sponsoring today's meeting

Guest Speaker:

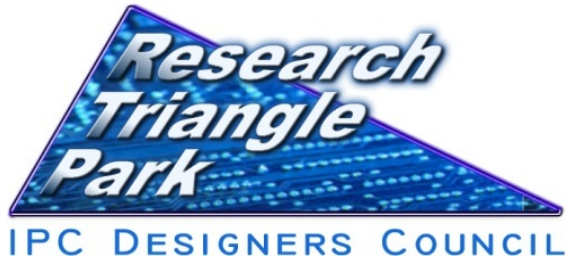
Dr. Bruce Archambeault

IEEE Fellow

IBM Distinguished Engineer Emeritus
Adjunct Professor at Missouri University
B.S.E.E / M.S.E.E / Ph.D.



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IPC Chapter Membership

- Lance Olive (Memberships)
- IPC Corporate requires no membership dues and no longer actively tracks membership.
- Have any questions? Please feel free to contact Lance at:
Lance@BetterBoards.com
919-656-9713 Cell
919-342-0810 Office

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Jobs

Dan Smith covering for
Emily

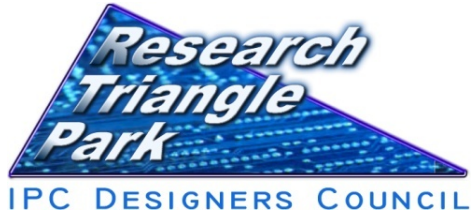


- Send resumes to:

Emily Vikojan-Reece
evlkojan@aerotek.com
919-816-1630 phone
919-816-1640 fax
www.Aerotek.com

Want to be on a mailing list for open positions?

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www.pcbcarolina.com
Check out the new web site

- **Date: November 2nd** (Wednesday)
- Location: NC State McKimmon Center
NC State University
1101 Gorman Street
Raleigh, NC 27606
- **Free to all attendees**
- **Vendor Registration Open**



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Being work by the Technology Committee

Next Meetings
June and September

Place your company here

Some Pretty Cool Stuff
By
Some Pretty Cool People

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Teaching Opportunity by Jay Diepenbrock

Wake Tech ELN 152 – Fabrication Techniques

- **Adjunct Instructor needed for Summer 2016 Session**
- **Logistics**
 - May 17 – July 27
 - Wed. 5:10-9:35 PM
 - Wake Tech Main Campus (US 401 S)
 - BS in EE or related field required
- **Outline**
 - Schematic Symbols
 - How to read a schematic
 - Draw a schematic for a simple circuit
 - Simulate the circuit
 - Lay it out on a PCB
 - Soldering, including a practice board
 - Build the Final Project (digital clock/thermometer) PCB (raw cards avail.)
 - Program the PIC uC (ELN 232 class)
 - Test the project board
 - Document the design
- **Contact** - John Clevenger, 919-866-5328, jjclevenger@waketech.edu



IPC Designers Council **April 12th** **Chapter Meeting**

Today's featured speakers:

Dr. Bruce Archambeault

- **Electromagnetic Band Gap (EGB) Structures as High Frequency Filters**

Common mode filters for Gb/s high speed differential data are very limited in their use because of the likelihood to attenuate the intended differential signal as well as the undesired common mode signal. EBGs are not discrete components, but rather are intentional etched shapes in the nearest ground-reference plane and can be used to attenuate the common mode signal without harming the differential signal.

Bruce is an IEEE Fellow, an IBM Distinguished Engineer Emeritus and an Adjunct Professor at Missouri University of Science and Technology. He received his B.S.E.E degree from the University of New Hampshire in 1977 and his M.S.E.E degree from Northeastern University in 1981. He received his Ph. D. from the University of New Hampshire in 1997. His doctoral research was in the area of computational electromagnetics applied to real-world EMC problems. He has taught numerous seminars on EMC and Signal Integrity across the USA and the world, including the past 12 years at Oxford University.

Dr. Archambeault has authored or co-authored a number of papers in computational electromagnetics, mostly applied to real-world EMC applications. He is a member of the Board of Directors for the IEEE EMC Society and a past Board of Directors member for the Applied Computational Electromagnetics Society (ACES). He currently serves as the chair for the Technical Activities Committee and Vice president for Conferences of the EMC Society. He has served as a past IEEE/EMCS Distinguished Lecturer and Associate Editor for the IEEE Transactions on Electromagnetic Compatibility. He is the author of the book "PCB Design for Real-World EMI Control" and the lead author of the book titled "EMI/EMC Computational Modeling Handbook".

Presentation materials will be posted on our web site after the meeting.