

# SBE CHAPTER 70 - CLEVELAND/AKRON

## SBE 70 MINUTES

NASA SCaN Testbed Project  
21000 Brookpark Road  
Cleveland, OH 44135

Bus Leaves at 1:00pm  
Tour begins at 1:15pm

January 2015  
Vol. XXIII Number 1

### January 13 Meeting Info

Our next meeting, on Tuesday January 13th at 1 pm, is somewhere new again, and it isn't really even a meeting. As you should have seen in the emails going around in Dec., we have the opportunity to tour the NASA SCaN Testbed Project Center. Ed Miller has been working with NASA on the local frequency coordination issues that came up and made the contact for this one. The Space Communications and Navigation (SCaN) Program is responsible for providing communications and navigation services to space flight missions throughout the solar system. The SCaN Testbed Project will provide NASA, industry, other agencies the opportunity to develop and field communications, navigation, and networking technologies in the laboratory and space environment based on reconfigurable, software defined radio platforms and the STRS Architecture. Several research and technology areas the SCAN Testbed was designed to support include; Software Defined Radios operating at S, L, and Ka-band, On-board data management function and payload networking, Radio Science experiments using the unique capabilities of the SDRs, Precise Navigation and Timing

See more info here -

<http://spaceflight systems.grc.nasa.gov/SOPO/SCO/SCaNTestbed/>

The tour will consist of several areas within the SCaN Testbed project labs and control areas. We have sent in the list of our tour group since all visitors needed to be pre-badged so if you missed the emails, sorry but you cant be added on now. Meet at the pickup parking lot by 1pm on the 13th for the bus to transport the us over to building B333 for the tour. Entry to the parking for the Center is at 21000 Brookpark Road, Cleveland, Ohio 44135

(SEE: NASA Parking Map on Page 2)



### CHAIRMAN'S CHAT

by John Hovanec

Happy New Year to all! Our last newsletter was all the way back in November, since we had no December Meeting. Thanks to our host, David Drees, Normandy High School Instructor for the Broadcast Program, for hosting our No-

vember get together. Also to Frank Foti of the Telos Alliance for the demonstration on a webcasting system he has developed which is particularly suited for High School Sporting Events. It was another fun and informative meeting. I hope to see many of you at the upcoming NASA tour. It will be a bit different in that it is a daytime event without our usual meeting. Our normal format will return with the February meeting.

A few things we need to think or be aware about in 2015 may include 'National EAS II', as the FCC is considering a date to test the National Level Activation of EAS, this time to include or be activated using the CAP or IPAWS topology. We'll no doubt hear more about this in the upcoming months as we move closer to this potential test.

Another technical concern that many of us need to be aware of is the continued 'whittling away' of RF spectrum that we utilize for ENG and wireless microphones, which may also effect STLs. Due to continued demand and subsequent auction of RF spectrum, it appears we may lose a big chunk if not all of the 600Mhz band in the not-so-distant future, after being pushed out of the 698-806Mhz spectrum a few years back. Alternatives suggested include the 902-928 and 944-952 Mhz band, as well as the 1.9,2.4, and 7Ghz bands, and the VHF 169-172Mhz frequencies for wireless microphones. Expect a lot of dissension on shared use of the 944-952Mhz STL band of course, particularly from Radio Broadcasters. Unless something different is agreed upon we may be pushed below 600Mhz, in in effect 470-600mhz, for our existing wireless mics or ENG equipment, or ultimately need to purchase new equipment in

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## (Chairman's Chat - continued from page 1)

one of these 'new' bands... again. This is just a brief summary of what I've gathered and is outlined in the FCC Notice of Proposed Rulemaking, or NPRM Docket 14-166, filed on Sept 30, 2014. I'm not sure of the comments filed to the FCC by or on behalf of broadcasters and wireless manufactures on this NPRM, but hopefully there is a more optimistic resolution. It looks like there is some time until the spectrum is auctioned; hopefully an 'if' component exists more than a 'when'. Our local Frequency Coordinators, Ed Miller and Jim Baird will no doubt be able to shed more light and clarify the situation for us at upcoming SBE Chapter Meetings.

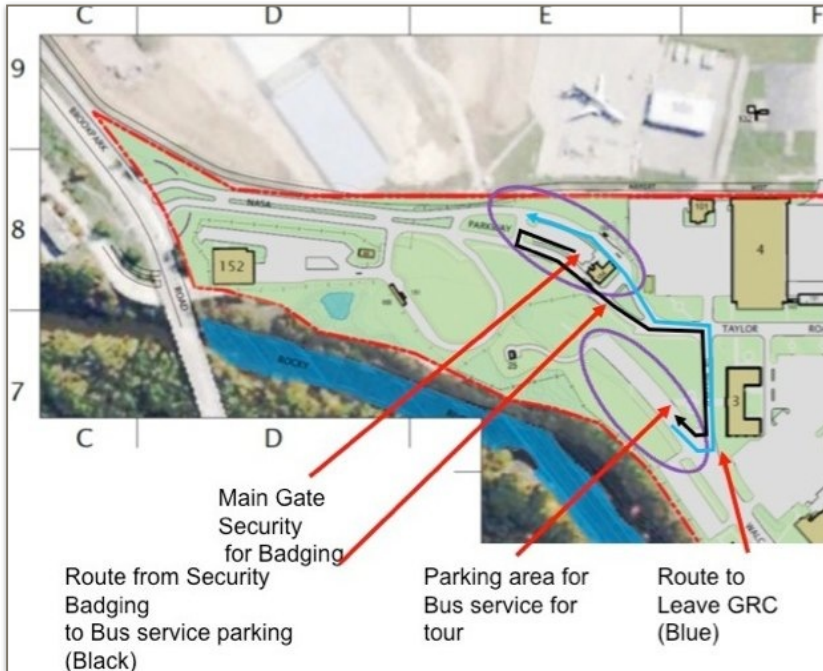
But, to start the year on a high note, here's to a happy and prosperous 2015 to you all! I hope your 'on call' calls are few and far between... unless you are a contractor, of course!

-John Hovanec CSRE/CBNT,DRB,AMD  
SBE Chapter 70 Chairman



### Recruiting the Next Generation

Marty Hadfield (Chapter Chair) and Arthur Willetts  
SBE 16 recruit future engineers at the College  
Broadcasters Convention last October in Seattle.



### NASA Parking Map and Tour Schedule

12:30PM-1PM

Visitors badged at Main Gate Security, Visitors Drive to Parking Lot in Front of B3  
(Go thru Main Gate, take right at first stoplight, the take first right after flagpole) – Black Route

1PM

Bus Service picks up visitors and GRC Personnel in Parking Lot in front of B3

1PM-1:15PM

Bus Service Transport to B333

1:15PM-2PM

Tour of Ground Integration Unit and then Tour of Tele-science Support Center

2PM

Bus Service transport back to B3 Parking Lot

2:15PM

Arrive to B3 Parking Lot and Depart to Drop off visitor badge – Blue Route

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## November at Normandy HS



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## SBE 2015 Certification Exam Schedule



Exam Dates	Location	Application Deadline
February 6-16	Local Chapters	December 31, 2014
April 14	NAB Convention	March 20, 2015
June 5-15	Local Chapters	April 10, 2015
August 7-17	Local Chapters	June 5, 2015
November 6-16	Local Chapters	October 2, 2015

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