

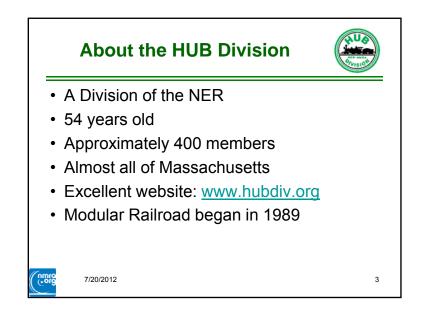
# Signaling a Modular Layout

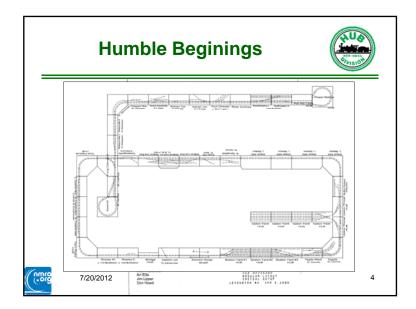
# Dick Johannes & the HUB Division Signal Committee July 2012

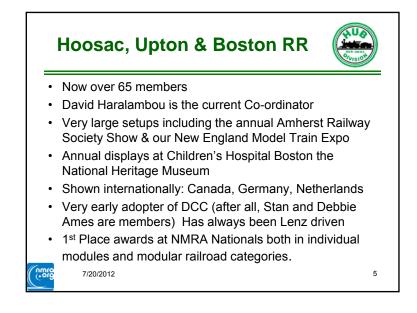


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## You can learn a lot in 8 sq ft



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- 5 bus wiring harness supports 2 mainlines buses, a third track bus, accessory DCC bus and an 18 volt AC accessory bus
- 2 Cat5 buses: XpressNet & signaling
- Replete with high-end craftsman structures and scratchbuilt structures
- · Numerous experiments with scenic techniques
- Remember, the overarching goal is to serve our members
- Why not Signaling next??



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## 

# The Difficult Requirements Modular specification forbids circuitry in-line with the DCC signal Minimal (if any) changes to existing modules if the builder choose not to add signals Cost Railroad can operate even if the signals don't Must be able to shuffle modules in any order at each setup and signaling must work with no wiring changes and minimal setup effort

**Goals & Rationale** 

modular layout

• Sounded like fun!!

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spectators of the layout

Increase the knowledge and curiosity in

• Enhance the viewing experience for

signaling within HUB Division members

Add a new level of operating interest to the

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## Advice we had been given



- Pay attention to modeling details just as you would in any other aspect of model railroading
- Separate the signaling bus from train control
- You won't regret using either C/MRI or Digitrax
- · Largely, we took this advice but made some compromises

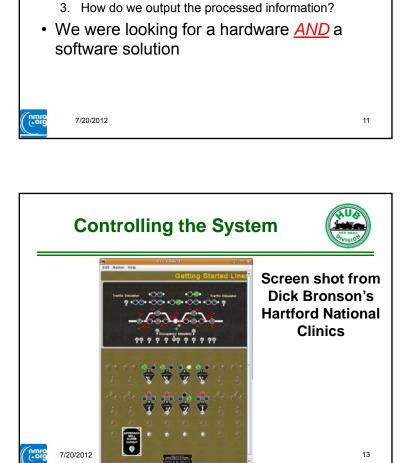
### **Experiment, Experiment, Experiment**



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- We adopted JMRI early
  - -Broad support for multivendor solutions
  - -Already had experience with DecoderPro & WiThrottle
  - -We got to the point where we could build US&S style panel using PanelPro.
    - JMRI website
    - · Dick Bronson's NMRA online clinics 7/20/2012



it into information?

1. What are the inputs and where do they come from?

2. How do we process the incoming data transforming

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## But there was interest in a modern CRT based panel



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- We looked at the Layout Editor
- Through the JMRI Website, we discovered CATS
- Open Source JAVA software layered atop PanelPro
- Written by Rodney Black. Like JMRI, it has an online user forum
- Based upon prototype Digicon system

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