Technology Transfer

- Increasing transmit power
- Antenna size integration
- Challenge Remaining: user would require additional effort on platform

Low-cost radio capable of operation over a large range of frequency bands now in use for public safety applications.

Vendor/Research Program

- Contributes to (Currently 52 technical reports)
- Project Web Site (incl. all deliverables):
  http://www.ece.vt.edu/swe/chamrad/
  VT Transceiver Board using Motorola-Provided RFIC
  4 RX paths, 3 TX paths
  6.25 kHz – 10 MHz BW
  100-2500 MHz tuning

Law Enforcement Impact

- Interoperability with multi-mode networks
- Interoperability with multi-mode networks

Key Deliverables

- Technical Reports
- Public demo at 2008 Wireless @ Virginia Tech Annual Symp.
- Public demo at 2008 Wireless
- Technical Reports
- Microphone Reports

SAFETY APPLICATIONS:

- Project End Date: September 30, 2008
  S.W. Ellingson (ellingson@vt.edu)
  VT Transceiver Board using Motorola-Provided RFIC
  Challenge: RFICs
  Using RF Integrated Circuit Technology

- Portable battery-powered prototype demonstrated Summer 2008. (Field evaluation by users would require additional effort on platform)

- Challenges Remaining:
  - Antenna size & integration
  - Increasing transmit power
  - Technology transfer