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ARVN Presents the
ARRL and TAPR
2009 Digital Communications Conference
 6 DVD Set



TAPR President Emeritus Dr. David Toth VE3GYQ (SK)

The [ARRL web site](#) reports that Dr. David Toth VE3GYQ -- President Emeritus of Tucson Amateur Packet Radio (TAPR) -- passed away Friday, February 26 after a long battle with cancer. Dave was instrumental in bringing ARVN to produce videos of the TAPR DCC.

Dave appeared briefly at the 2009 DCC. You can see him [here in the welcome session](#) of the 2008 DCC. Our condolences to his family and to his friends in TAPR and Amateur Radio.

The **2009 DCC** was a [three-day conference](#) held in late September near Chicago (same location as the 2008 DCC). It featured seventeen presentations from hams on the leading edge of digital communication and experimentation, including **equipment design and construction, Software Designed Radio, AMSAT / ARISSat, packet and D-STAR networking, advanced APRS, and Digital ATV**, all available on six DVDs from ARVN.

The six DVDs are organized around common topics. Each DVD has several presentations ([details below](#)), and most presentations run about 45 minutes (good for club meeting programs, if your club leans a bit technical).

You can buy individual DVDs covering the area you're interested in for \$15 each (+ \$3 shipping), or the whole set for \$75 (but still just \$3 shipping). The DVDs are produced in NTSC standard definition video.

2009 DCC
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also available:

- [2008 DCC](#)
- [TAPR/SDR](#) at the 2009 Dayton Hamvention

The DCC is best experienced "live and in person." There's lot of interaction during breaks, before and after the talks, in the demo room, and at meals - and *you* get to be the one asking questions. I encourage you to go if you can. The DVDs give you the talks, but not the complete context. I want to thank the ARRL and TAPR, and each presenter, for giving me the opportunity to capture and present the DCC on video - Gary KN4AQ.

Watch the Preview here. Order [below](#):

Here are the details:

6 DVD Set (get'em all)

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DVD 1 Projects

- **Larry Wolfgang WR1B: Surface Mount Construction.** Larry tackles his first surface mount construction project, with tips and techniques to help make *your* first one a success. 38 min.
- **David Bern W2LNX: A PS/2 Keyer.** Why replace your

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computer keyboard and mouse with a CW keyer?

Because you can! 41 min

- **John Hansen W2FS: VSC-X using ZigBee.** John's Virtual Serial Cable lets you program your mobile rig from your shack computer without wires, using the ZigBee radio modules. 31 min
- **Rob Frohne KL7NA, Mark Priddy KE7UFF: Matched Filter and Maximum A Posteriori Detector for Amateur Radio Digital Modes.** Barbie and I agree: math is hard. But Rob's probability equations lead to a filter that turns weak RTTY gibbrish into clear copy. And nobody can pronounce "A Posteriori." 48 min

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DVD 2 Space

- **Steve Bible N7HPR: ARISSat.** Steve explains how SuitSat became ARISSat, and reviews the equipment that AMSAT will be sending to the ISS to be tossed out the door. 34 min
- **Bill Brown WB8ELK: GPS Enabled Multi-Mode Transmitter for Balloons.** Bill designed this QRP transmitter for transatlantic balloon flights so they can call home, and experimented with a variety of digital modes to find the one that provided the most reliable weak-signal performance. 39 min
- **Saturday Banquet: Bill Brown WB8ELK.** Bill also sends balloons and rockets with ham radio payloads into space, and he entertained and informed the group at the banquet with stories, pictures and video of his exploits. 1hour 18min

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DVD 3 Digital Communications

- **John Ronan EI7IG: Experiments with Delay and Disruption Tolerant Networking in AX.25 and DStar Networks.** John's packet system keeps trying long after you've shut down and pulled out. 26 Min
- **Paul Wiedemeier KE5LKY: Comparing 2-Meter Packet Radio Data Unicasts and Multicasts.** Paul experiments with sending packet files to multiple stations at once. 43 Min
- **Tom Azlin N4ZPT: Digital Communications at the Marine Corps Marathon.** How DC area hams employed D-STAR's Digital Data mode to go beyond Packet for this huge event. 28 min (Note: this operation is featured in ARVN's [Digital Voice for Amateur Radio](#) documentary).
- **Bob Bruninga WB4APR: Universal Ham Radio Text Messaging.** You knew that hams did it first, long ago, right? Why aren't we

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doing it now? 59 min

DVD 4 Software Defined Radio

- **Scotty Cowling WA2DFI: HPSDR Update.** Scotty reports on the progress and plans for TAPR/HPSDR's ever expanding lineup of equipment. 49 min
- **Brennan Price N4QX: SDR Agenda Items at WRC-12.** We love Software Defined and Cognitive Radio, but some of the world's governments are suspicious. The ARRL/IARU prepare for this encounter at WRC 2012. 45 min
- **John Ackermann N8UR, Tom Holmes N8ZM, Scotty Cowling WA2DFI: Sunday Seminar - HPSDR Quickstart.** This year's *Sunday Seminar* was split in two. In this half, John, Tom and Scotty bring the HPSDR board set to life, showing you the steps to program them and set up PowerSDR. 1 Hour

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DVD 5 Digital Amateur Television

- **Ken Konechy W6HHC and Robbie Robinson KB6CJZ: Planning a Digital ATV Station.** Broadcast Television went all-digital last year because they had to. Amateur Television can go digital, too, more easily and inexpensively than you might think. A DCC first - this seminar was presented remotely from California via NetMeeting and Skype. 38 min
- **Art Towslee WA8RMC: Digital ATV - The New Ham Frontier.** Ohio's ATCO group has been operating a digital ATV system for a couple of years now. Art describes how they did it. 41 min

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DVD 6 FPGA Design

Jim Moawad from Arrow Electronics demonstrates how to program a CPU into an FPGA. This program features Altera products (like the FPGA's used in the HPSDR transmitters and receivers). This is the other half of the *Sunday Seminar*. 1 hour and 45 minutes

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Video Production Credits

ARVN thanks these volunteers (and many others) who helped us produce these DVDs:



Debbie Fligor N9DN on Camera



Michael Petz KA9HNT on Camera



Mark Thompson WB9QZB, Event
Coordinator



Kermit Carlson W9XA, Media Production
Coordinator

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