GRCon17 Conference Program

	Monday		Tuesday		Wednesday			Thursday		Friday
	Tech Conf Day 0	Tutorials Day 0	Tech Conf Day 1	Tutorials Day 1	Tech Conf Day 2	Tutorials Day 2-1	Tutorials Day 2-2	Tech Conf Day 3	Workshop Day 0	Dev Summit
8:00:00 AM	Conference Check-In		Conference Check-In		Conference Check-In			Conference Check-In		Conference Check-In
8:30:00 AM	Conference Opening Ben Hilburn		Day Opening Ben Hilburn		Day Opening Ben Hilburn			Day Opening Ben Hilburn		Day Opening Ben Hilburn
8:45:00 AM	Keynote: Continuing Education for Engineering Professionals Faye Chou Kurpanek		GNU Radio Technical Development Update Johnathan Corgan		Keynote: Opening That Which is Closed Bruce Perens			Keynote: Keeping the World Safe for Kids Like Me Phil Karn		Lightning Talks / DARPA Workshop for RF Datasets: Creation, Storage, and Distribution / HAM Radio Exam Session
9:30:00 AM	GNU Radio Project Update Ben Hilburn		SigMF: The Signal Metadata Format Ben Hilburn		The Future of Radio: Learning Efficient Signal Processing Systems Tim O'Shea			The DARPA Bay Area SDR Hackfest Tom Rondeau		
10:00:00 AM	Ettus Research Future Directions Manuel Uhm		The Many Dimensions of SDR Hardware: Plotting a Course for the Hardware Behind the Software John Orlando		Misunderstandings and Mistruths in SDR Robin Getz			A Case Study in Optimizing GNU Radio's ATSC Flowgraphs simpleXecutive		
10:30:00 AM	AM Break		AM Break		AM Break			AM Break		
10:45:00 AM	Radio Exploitation 101: Characterizing, Contextualizing, and Applying Wireless Attack Methods Matt Knight, Marc Newlin		OpenFirst - The SDR LTE Platform for First Responders Paul Sutton		Hacking the Wireless World 4.0 Balint Seeber			Building a Moderately Complex Modem with Spare Parts Dan CaJacob		
11:15:00 AM	Using SDR? Creating SDR devices? Lets talk Drivers/APIs! Josh Blum		Applications and Extensions of GNU Radio at APL Jarriel Cook		Implementation of a Radio Testing Framework Using GNU Radio Nathan Harter			You have turned on the future! Updates from Ettus Research Martin Braun		
11:45:00 AM	GRCon17 Hacking Challenge Kick-Off Michelle Thompson		Using Packages Maitland Bottoms		A GNURadio-Based Full-Duplex Radio System Adam Parower			Does the Radio Even Matter? Travis Collins, Robin Getz		
12:15:00 PM	Lunch		Lunch Expo & Poster Session		Lunch Expo & Poster Session			Lunch Expo & Poster Session		Lunch
1:00:00 PM	SDR on GPU's:Practical OpenCL Blocks and Their Performance Michael Piscopo	Tutorial: GNU Radio and the GNU General Public License (GPL) Ben Hilburn (Del Mar)						A Full Duplex OFDM Implementation with USRP Boards Sergio Jimenez	Workshop for the DARPA Bay Area SDR Hackfest	Developers' Summit & Topic Workshops: > Education > FedGov > GR Foundation > GRCon18 > GR Technical Planning > Cybersecurity > Embedded & GRCon Hacking Challenge Conclusion / Ettus Research RFNoC Tutorial Session 2
1:30:00 PM	Real-time Direction Finding Using Two Antennas on an Android Phone Todd Moon		Optimizing Your Flowgraphs for Hardware simpleXecutive		Implementation of Open Source Adaptive Digital Predistortion Technology for High Power Amplifiers Borisav Jovanovic			OpenCPI & GNU Radio Integration for Heterogeneous Processing David Pocratsk		
2:00:00 PM	Real-Time Channelization Using RFNoC Infrastructure Phillip Vallance	Tutorial: Intro to GNU Radio for Complete Beginners Johnathan Corgan	Low-Effort REDHAWK-GNURadio Integration Thomas Goodwin	Tutorial: Intro to GNU Radio for Complete Beginners Johnathan Corgan	Development of GNU Radio Blocks for Spectrum Sensing Based on the Analysis of the Autocorrelation of Samples Hector Reyes	Tutorial: Synchronization Andy Walls	Ettus Research RFNoC Tutorial Session 1	Finding an Active Shooter Using GNU Radio Ben McCall		
2:30:00 PM	RSSI-Based Supervised Learning for Uncooperative Direction-Finding Tathagata Mukherjee		gr-doa: GNU Radio Direction Finding Travis Collins		GPS Beamforming with Low-cost RTL-SDRs Wil Myrick			Large Scale FM Signal Strength Map Estimation For Passive Approximate Localization Tathagata Mukherjee		
3:00:00 PM	PM Break		PM Break Expo Session		PM Break Expo Session			PM Break		
3:20:00 PM	Time Difference of Arrival Localization Testbed: Development, Calibration, and Automation Hayden Flinner	Tutorial: Installing GNU Radio and Creating Your Own OOT Modules with PyBOMBS Martin Braun						SDR Implementation of Physical Layer Security through Artificial Noise Kevin Ryland	Workshop for the DARPA Bay Area SDR Hackfest	
3:50:00 PM	Wireless USRP Backhaul Network: Geolocate a GPS Jammer in Near Real-Time Alexis Bose		RFNoC Neural Network Library using Vivado HLS EJ Kreinar	Tutorial: Basic Digital Communications with GNU Radio Johnathan Corgan	REDHAWK+RF-NoC Integration Patrick Wolfram	Tutorial: Basic Digital Communications with GNU Radio Johnathan Corgan	Ettus Research RFNoC Tutorial Session 1	An Experiment Study for Time Synchronization Utilizing USRP and GNU Radio Won Jae Yoo		
4:15:00 PM	A Case for Distributing Intelligence Throughout the Signal Chain – Enabling Practical Wireless System Solutions Shyam Nambiar		Flexible Band Sensing and Channelization Nathan West		Moment-Based Automatic Modulation Classification: FSKs and Pre-Matched-Filter QAMs Darek Kawamoto			Implementation and Performance Evaluation of IEEE 802.15.4 LECIM DSSS PHY at 2.4 GHz Felix Wunsch		
4:45:00 PM	Panel Session GNU Radio Townhall		When bigger doesn't mean better: XTRX, the miniature SDR Alexander Chemeris, Sergey Kostanbaev	Tutorial: Understanding Complex Numbers Michael Ossmann	Design and Implementation of a Cognitive Overlay System based on FBMC Felix Wunsch	Tutorial: Techniques for Debugging Your GNU Radio Application Marcus Müller		Panel Session: Open Source from the Federal Government's Perspective		
5:40:00 PM			Symbol Clock Recovery and Improved Symbol Synchronization Blocks Andy Walls		Efficient Band Occupancy and Modulation Parameter Detection Peter Mathys					
6:00:00 PM	Social Event: Drinks Reception on the Beach Sponsored by The Hume Center at Virginia Tech				Social Event: Dinner, Drinks, and Sternwheeler Cruise on Mission Bay					
7:30:00 PM										
9:30:00 PM										