



hacker  
inside

# PhreakNIC20

BACK TO OUR ROOTZ

### # # # #

## Letter from the Chair

### Fellow PhreakNIC attendees:

Wow! 20 years of PhreakNIC, it is hard to fathom. Personally, I first heard of PhreakNIC in the 1990s when I was attending Atlanta's Dragon\*Con. I went to a few of the "Hacking x01" panels, and was impressed by the extremely energetic and charismatic hackers there who were speaking of the convention they'd created in Nashville. A couple years later, my own life was changed forever when I took a look at (and cracked) the PhreakNIC v3.0 Code. Solving that code, and the ones that followed, led me in directions I never could have guessed. I'm now a published author, and even have a character named after me in a Dan Brown novel, and it's all directly related to the mention of *Kryptos* that I saw in that v3.0 Code long ago. I'll be speaking more about the twists and turns of my own life's journey at one of this year's sessions.

In our 20th year, thanks must be given to all of those who have kept this event alive over the years. jonnyX, Rattle, Dolemite, Wilpig, Skydog, Corydon76, BenTheMeek, NotLarry, Peaches, Andrew McElroy, John Eldredge, \_NSAKEY, Dagmar, NoFault, and more. From the original small group that started PhreakNIC in 1997, and through the convention's multiple homes at the Drury Inn, two different Days Inns, the Ramada Inn, the Millennium Maxwell, and the Clarion Inn, the torch has continued to be passed. Hundreds of us meet each year to share stories, to share knowledge, to indulge our intellectual curiosity, and of course, to party!

This year, I do have to say that making PhreakNIC v20.0 has been a real challenge for all of us on the Nashville 2600 Board. Every single one of us has gone through a major life change this year, from changing jobs to changing homes, and sometimes both! But throughout the personal turbulence, every single Board member managed to maintain their commitment to PhreakNIC, and to carve out a bit of time to keep things moving forward. Special thanks go to BenTheMeek, who despite having to move his entire family of five into a new house with only a few weeks' notice, still managed to pick up the slack for several other PhreakNIC tasks along the way.

Despite the chaos, we have put together a great conference for our 20th year. We've extended the conference from Friday until Sunday morning, with two full tracks of programming, plus workshops (including lockpicking!) and a kids track. Our programming this year is especially diverse, ranging from some TLA folks, to infosec talks, and some interesting non-infosec topics as well, such as "Building a Shipping Container House" and "The Legal Ramifications of Drone-Building". Jason Smith is in town, giving his talk on "Applied Detection and Analysis Using Flow Data", and Dr. Nick Evancich will be doing a deep dive into the workings of Stuxnet. We're also building on the great 5-minute lightning talks that we had last year, which we'll be starting at 7:30 on Saturday evening, and going until we run out!

For those interested in getting into the weeds with some penetration testing, be sure to check out this year's Netkoth (Network King of the Hill) competition. Details about participation will be announced at 9:30 a.m. on Friday, and the awards, including a grand prize of a Raspberry Pi 3 kit, will be announced at closing ceremonies on Sunday.

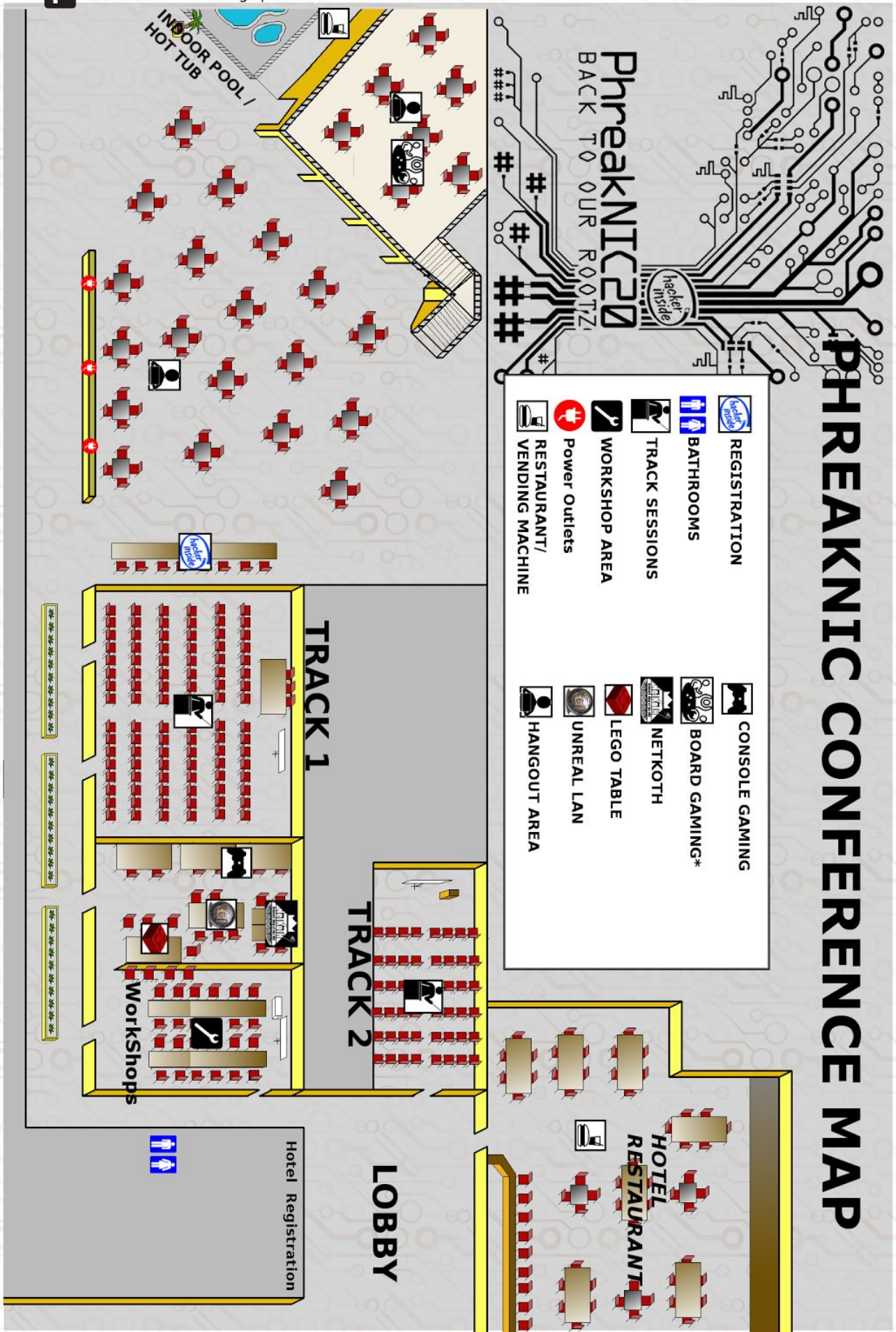
Best wishes to all for a fun conference,

Elonka :)

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Elonka Dunin  
Chairperson, Board of Directors  
Nashville 2600 Organization, a Tennessee 501(c)(3) Nonprofit Corporation  
elonka@nashville2600.org

**P** Additional 150 Parking spaces on this side of hotel

5 OTHER RESTAURANTS IN WALKING DISTANCE



# PHREAKNIC CONFERENCE MAP

MAIN ENTRANCE

## Activities

While you are at PhreakNIC you will have various speakers and sessions to choose from as well as a variety of other activities to occupy your time. Here are some of the more organized ones but definitely not a complete list.

### FOOD!

There is a full service restaurant attached to the hotel that is open 11am to midnight! (Breakfast is provided for guests if the hotel) Want something else? KFC, Sandwich Factory, Cracker Barrel, and Steak and Shake are all within easy walking distance of the hotel!

### Lego Corner

Have you ever just wanted to play with Lego bricks but didn't have enough to build what you wanted? CHALLENGE ACCEPTED! Make sure you tweet out the pictures of your creations and tag #PhreakNIC!



### Unreal Tournament LAN Party

For the fifth year in a row the Unreal Tournament headless LAN party returns. machines without hard drives boot from a Linux server to run Unreal Tournament. They run 24 hours a day during PhreakNIC and usually have a steady crowd ready to pick up a frag.



### Console Game Corner

Take a turn on some of the classics on our emulation machines! Race with a lead foot on Need for Speed: Hot Pursuit!! Or as always Frag away with the Quake Raspberry PI Gaming Rig from the Makers256 of Huntsville!



### Board Games from NAGA: NASHVILLE AREA GAMER ASSOCIATION

Feel free to stop and play a game or two. There will be a round of Settlers of Catan every night after the talks wrap up. Come learn what all the fuss is about and make a few friends in the process.



### NETKOTH: Network King of the Hill

Network King of the Hill is a casual way that you can stop in and learn what happens when someone is attempting to penetrate your network by doing it yourself to ours. Don't fear the command line! We are here to help.



### LockSport Nook

Wikipedia: "Lock picking has been around for as long as locks have, and recreational lock picking has been as well. King Louis XVI of France (1754-1793) was a keen designer, picker and manipulator of locks, and physicist Richard Feynman picked locks for fun in the 1940s while employed on the Manhattan Project. Notes from the MIT Roof and Tunnel Hacking community were made widely available in 1991 as The MIT Guide to Lock Picking." Elliot of Mr. Robot fame states: "The lock pick. Every hacker's favorite sport. The perfect system to crack, mostly because unlike virtual systems, when you break it, you can feel it. You can see it. You can hear it."

Try it for yourself! We have transparent locks this year! It is both easier and harder than it looks....



**FRIDAY'S SCHEDULE**

<b>Friday</b>	<b>Track 1 - Stones River</b>	<b>Track 2 - Oakland</b>	<b>Workshops / Activities</b>
<b>9:30 am</b>	<b>Welcome to PhreakNIC / The state of Nashville2600 - Elonka Dunin</b>		
<b>10:00 am</b>	<b>Nothing but NETKOTH / PhreakNIC's PXE LAN and History - _NSAKEY &amp; BenTheMeek</b>		
<b>11:00 am</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
<b>12:00 pm</b>	<b>Drone building and the legal ramifications - Ron Foster</b>	<b>Death March and Back Again: A Grinder's Tale - James Powell</b>	
<b>1:00 pm</b>	<b>Applied Detection and Analysis Using Flow Data: Tools of the Trade - Jason Smith</b>	<b>Diceware: how not to become a statistic - poiupoiu</b>	<b>Getting started with Python - Shapr</b>
<b>2:00 pm,</b>	<b>An FBI view into network security and where the failures are - Scott Augenbaum and Victor Rodriguez</b>	<b>Fun and hacking on the Amazon Echo - James Church</b>	<b>NMAP Workshop - Brimstone</b>
<b>3:00 pm</b>	<b>Protecting SCADA, PLCs and automation controls - Steve Mallard</b>	<b>FFmpeg (I didn't know it could do that!) - poiupoiu</b>	<b>Getting started with PowerShell - Mick Pletcher</b>
<b>4:00 pm</b>	<b>I2P and the Dark Web - John Liu</b>	<b>Building a Shipping Container House - Mick Pletcher</b>	
<b>5:00 pm</b>	<b>Dinner</b>	<b>Dinner</b>	<b>Dinner</b>
<b>6:30 pm</b>	<b>Lateral Movement: How attackers quietly traverse your Network - Xavier Ashe</b>		
<b>7:30 pm</b>	<b>Hacking 101</b>		
<b>9:30 pm</b>			<b>Board games with the Board (Atrium)</b>

**Don't forget to move your clocks back an hour Saturday night!**

**SATURDAY'S SCHEDULE**

<b>Saturday</b>	<b>Track 1 - Stones River</b>	<b>Track 2 - Oakland</b>	<b>Workshops / Activities</b>
<b>10:00 am</b>	<b>Exploring Man-in-the-Middle Attacks on Software Defined Radars Software defined radios - Blake Yerkes</b>	<b>Agile Development 101 - Elonka Dunin</b>	<b>Kids Track - Linux and console fun</b>
<b>11:00 am</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
<b>12:00 pm</b>	<b>Hacking and Scripting - Robert McCurdy</b>	<b>You are being manipulated! - James Powell</b>	<b>Kids Track - Soldering and LED kits</b>
<b>1:00 pm</b>	<b>Persistence Pays Off – “A Brief History of APTs and their Lifecycle” - Alex Berta</b>	<b>What's the deal with Palo Alto Firewalls, anyway? - Ben White</b>	<b>Kids Track - Makey Makey the Invention Kit for Everyone</b>
<b>2:00 pm,</b>	<b>Maintaining Jedi order after Jar Jar Binks was left in command - Chris Scott</b>	<b>Panel on Video and Audio recording - Steve Esposito and poiupoiu</b>	<b>Kids Track - Writing MadLibs in Python</b>
<b>3:00 pm</b>	<b>A deep dive into the inner workings of Stuxnet - Dr. Nicholas Evancich</b>	<b>Communicating Your Tech Excitement with Improv - Beth Smith</b>	
<b>4:00 pm</b>	<b>Making machine data accessible with Splunk- George Starcher</b>	<b>Continuous Integration and new ways to hack the planet - Tyler Welton</b>	<b>FFmpeg workshop - poiupoiu</b>
<b>5:00 pm</b>	<b>Dinner</b>	<b>Dinner</b>	<b>Dinner</b>
<b>6:30 pm</b>	<b>Winning Management Buy-In to Security - SA Hale &amp; Terry Hale</b>		
<b>7:30 pm</b>	<b>Lightning Talks</b>		
<b>10:00 pm</b>			<b>Board games with the Board (Atrium)</b>

**SUNDAY'S SCHEDULE**

<b>Sunday</b>	<b>Track 1 - Stones River</b>
<b>10:00 am</b>	<b>My “Games to Kryptos” Journey - Elonka Dunin</b>
<b>11:00 am</b>	<b>PhreakNIC Closing Ceremonies</b>

For more information and bios on our speakers please visit:

<http://phreaknic.info/speaker.html>

*Speaker*

*Twitter*

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_NSAKEY	@_NSAKEY
Alex Berta	@Critical24
Amy Flatt	@AmyFlatt1
Ben Hicks	@BenTheMeek
Ben White	
Beth Smith	@bethbrod
Blake Yerkes	
Brimstone	@brimston3
Chris Scott	@Cyb3r_Assassin
Elonka Dunin	@ElonkaDunin
George Starcher	@georgestarcher
ItWasn'tMe	
James Church	@jcchurch
James Powell	@_grayraven_
Jason Smith	@automayt
John Liu	@guard0g
Mick Pletcher	@mick_pletcher
Mog	@mogactually
Nicholas Evancich	
poiupoiu	@poiupoiu
Robert Mccurdy	@operat0r
Ron Foster	@vektek
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Shae Erisson	@Shapr
Steve Esposito	@AustrianAnarchy
Steve Mallard	
Terry Hale	
Tim Heath	
Tyler Welton	@spaceb0xx
Victor Rodriguez	
Xavier Ashe	@xavierashe

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**Special Thanks To:**

**Volunteers:**

Poiupoiu, Teale Sloterdijk, Johnathan Braden, Beth Brodsky, Kelly Nation, Paeshence, Rickya, Dickie, Andrew, operat0r, James Leithead, Casey Chandler, Fred, CajunnX, Computerhigh, Brendan Bryant, Ricky, Dominic Serrano

**Directors:**

Programming: Ben Hicks; Hospitality: Teryl Brake; Volunteers: Isaac Callison; Audio / Visual: POIUPOIU;  
Admissions & Registration: John Eldredge; NETKOTH: \_NSAKEY

**The Board of the Nashville2600**

Board Chair and President: Elonka Dunin;  
Board Members: John Eldredge, Teryl "Peaches" Brake, \_NSAKEY, Ben Hicks, Tilghman Leshner, Dagmar d'Surreal  
Treasurer: NoFault

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**See you next year at PhreakNIC 21!**



**November 3-5 2017**

***Clarion Inn***

***Murfreesboro TN***

***Please take our survey!***

**<http://bit.ly/phreaknic20survey>**

Oh, and Happy Birthday Mog ;)