



TCF'18™



Twitter:
@TCFfestival

NJ Makers Day Partner

Saturday, March 17, 2018 at The College of New Jersey, Ewing NJ

Focus on Wearable Technologies

3:40pm

Keynote Speaker:

Dr. Nick van Terheyden,
"Healthcare Innovation
Incremental and Exponential"



Dr. Nick is a leader in Digital Healthcare and Innovation and former Chief Medical Officer for Dell. He provides strategic insights and guidance to support healthcare organizations, medical professionals and patients through information-enabled healthcare. He is a highly sought out speaker on the practical and futuristic use of healthcare.

Featured Speaker: George Harris,
"Medical Tricorders -
Taking Science Fiction into Reality"
Co-founder and CTO of Basil Leaf
Technologies, the team winning the
Qualcomm Tricorder XPRIZE



INDOOR VENDOR FAIR & FLEA MARKET
**50+ Talks, Workshops, Tutorials,
Demos and Special Events!**

**Object-Oriented Programming University:
One Day of Short Courses**

**All-Day Robotics Pavilion
Room ED-205**

Maker Demos

Tour the Sarnoff Museum of Tech.



**TCF Saturday Banquet with Door Prizes.
See TCF Web Site to Buy Tickets.**

IEEE Integrated STEM Education Conference (ISEC)**
Saturday, March 10, 2018 – 8:00 am — 5:00 pm
at McDonnell Hall, Princeton University, NJ
Theme: iSTEM: Lead, Engage, Succeed!
Info: <http://ewh.ieee.org/conf/stem/>

2018 P r e v - 0 5 a

**The IT Pro (Friday) and ISEC Conferences require separate registrations.

The 2018 TCF™ is sponsored by The College of New Jersey, its School of Engineering and supported organizations.

**Admission: \$14.00 (advance)
\$20.00 at Door**
Free Parking / Wi-Fi
www.tcf-nj.org

at The College of New Jersey, Ewing, NJ
Saturday, March 17, 2018

9:00 am -- 5:00 pm

Registration/Vendor Fair open at 9 am, Talks start at 10:15 am.



David Soll
on Windows 10;
Also HTML5 + CSS3



Hands-on
Arduino Workshop
for Beginners



Author Barry Burd Speaks on
App Development; Quantum
Computing; Alexa Skills



High School Student
Sam Zeloof Shows How to
Make Semiconductors and
IC Chips at Home



**Ham Cram Session & Exam:
Get an Amateur Radio License in
one day at TCF! Cram begins at 9 am.**

IEEE/ACM IT PROFESSIONAL CONFERENCE

Friday March 16, 2018, 8:30 am — 5:00pm**
and continues as part of TCF's Saturday Talks.
For Conference Info and Fees see
<http://princetonacm.acm.org/tcfpro/>

**For additional TCF'18 info,
directions and advance tickets:
www.tcf-nj.org**

| Saturday | ED-115 | ED-211 | ED-209 | ED-208 | ED-207 | ED-206 | ED-113 | ED-110 | ED-109 | ED-107 | ED-105 | ED-103 | ED & RWH |
|--------------------|---|---|--|--|--|---|---|--|--|--|--|--|---|
| Wearable Tech | Entrepreneurship & Bus. | Social Media & Apps | History & Technology | Education & STEM | Technology & Hardware | Microsoft & Trends | Software/App Dev. | Arduino & Software | OOP University | Amateur Radio | Exhibits | | |
| 10:15am to 11:10am | Future of Medical Device Development <i>B. Acevedo</i> | mTrigger: Biofeedback Reinvented <i>A. Lalime</i> | Wordpress Bootcamp <i>L. Justice</i> | IP Research & Discovery with InnovationQ Plus <i>J. Jesson</i> | Research & Development in AI - An Update <i>A. Schwartz</i> | Getting Started: PCs/Tablets, Internet & Digital Photography <i>H. Hintz</i> | Agricultural Robotics <i>R. Kannan</i> | Introduction to HTML5 <i>D. Soll</i> | Quantum Computing with Q# Language <i>B. Burd</i> | Hands-On Arduino Workshop for Beginners <i>K. Frolio</i> | Introduction to OOP Design Principles <i>M. Redlich</i> | Ham Cram 101 Ham Radio License Exam Preparation Course Ham Cram Session begins at 9:00am and goes to 12:30pm Practice Exam given at 1:30pm Walk-in Real Exam given at 3:40pm | Theremin in Room ED-207 at 11:20am Lockpick Village Workshop on How to Pick Locks, Repeated Hourly in Room ED-204 Poster Presentations Digital Photo Exhibit Vintage Computers Club/Org Tables |
| 11:20am to 12:15pm | Tricorders: Making Science Fiction Reality <i>G. Harris</i> | Self-Publishing in the Digital Age <i>S. Marshall</i> | The Theremin & Technical Joy <i>K. Rosser</i> | Best Websites and Web Dark Secrets for 2018 <i>E. Kaplan</i> | Introduction to the Robotics Pavilion <i>S. Kim</i> | Stock Market Timing Using Neural Networks <i>D. Fishbein</i> | Writing Apps, Part 1: for iPhone <i>B. Burd</i> | (Limited Space: Bring Your Laptop/Load Free Arduino Software before attending: www.arduino.cc/en/Main/Software) | Getting Started with Java <i>M. Redlich</i> | Ham Cram Session begins at 9:00am and goes to 12:30pm Practice Exam given at 1:30pm Walk-in Real Exam given at 3:40pm | Advanced C++ <i>M. Redlich</i> | Ham Cram 101 Ham Radio License Exam Preparation Course Ham Cram Session begins at 9:00am and goes to 12:30pm Practice Exam given at 1:30pm Walk-in Real Exam given at 3:40pm | Theremin in Room ED-207 at 11:20am Lockpick Village Workshop on How to Pick Locks, Repeated Hourly in Room ED-204 Poster Presentations Digital Photo Exhibit Vintage Computers Club/Org Tables |
| 12:25pm to 1:20pm | Q & A on Wearable Tech Development <i>B. Wong</i> | Privacy & Anonymity in the Modern Age <i>C. Hofstetter</i> | The Space Shuttle Computer Systems <i>F. O'Brien</i> | Do It Yourself: Home Automation and Demo <i>N. Cherry</i> | Seeing in Pixels: Practical Neural Networks <i>W. Seto, B. Siebert & S. Maxwell</i> | Introduction to Windows 10 <i>D. Soll</i> | Writing Apps, Part 2: for Android <i>B. Burd</i> | Building a WiFi System with piSense <i>D. Ferguson</i> | Advanced C++ <i>M. Redlich</i> | Ham Cram 101 Ham Radio License Exam Preparation Course Ham Cram Session begins at 9:00am and goes to 12:30pm Practice Exam given at 1:30pm Walk-in Real Exam given at 3:40pm | Advanced C++ <i>M. Redlich</i> | Ham Cram 101 Ham Radio License Exam Preparation Course Ham Cram Session begins at 9:00am and goes to 12:30pm Practice Exam given at 1:30pm Walk-in Real Exam given at 3:40pm | Theremin in Room ED-207 at 11:20am Lockpick Village Workshop on How to Pick Locks, Repeated Hourly in Room ED-204 Poster Presentations Digital Photo Exhibit Vintage Computers Club/Org Tables |
| 1:30pm to 2:25pm | How Safe are Wireless Wearable Devices <i>A. Katz</i> | How to Effectively Present <i>T. Lombardi</i> | Workshop: How to Create Virtual Reality (VR) Apps <i>O. & M. Rivera</i> | Home Chip Fab: How to Make Semiconductors and Integrated Circuit Chips (ICs) at Home <i>S. Zeloof</i> | Connecting and Controlling the IoT <i>E. Williams</i> | Augmented Reality (AR) <i>W. Silverman</i> | Developing Alexa Skills <i>B. Burd</i> | Radio Frequency Beyond Radio <i>J. Allen</i> | Getting Started with C++ <i>M. Redlich</i> | Ham Cram 101 Ham Radio License Exam Preparation Course Ham Cram Session begins at 9:00am and goes to 12:30pm Practice Exam given at 1:30pm Walk-in Real Exam given at 3:40pm | Advanced C++ <i>M. Redlich</i> | Ham Cram 101 Ham Radio License Exam Preparation Course Ham Cram Session begins at 9:00am and goes to 12:30pm Practice Exam given at 1:30pm Walk-in Real Exam given at 3:40pm | Theremin in Room ED-207 at 11:20am Lockpick Village Workshop on How to Pick Locks, Repeated Hourly in Room ED-204 Poster Presentations Digital Photo Exhibit Vintage Computers Club/Org Tables |
| 2:35pm to 3:30pm | Advances in Low-Cost Med. & Environment Sensors <i>J. Jesson</i> | The Hacking Methodology <i>R. Cole</i> | Workshop: How to Create Virtual Reality (VR) Apps <i>O. & M. Rivera</i> | Home Chip Fab: How to Make Semiconductors and Integrated Circuit Chips (ICs) at Home <i>S. Zeloof</i> | Connecting and Controlling the IoT <i>E. Williams</i> | Augmented Reality (AR) <i>W. Silverman</i> | Developing Alexa Skills <i>B. Burd</i> | Radio Frequency Beyond Radio <i>J. Allen</i> | Getting Started with C++ <i>M. Redlich</i> | Ham Cram 101 Ham Radio License Exam Preparation Course Ham Cram Session begins at 9:00am and goes to 12:30pm Practice Exam given at 1:30pm Walk-in Real Exam given at 3:40pm | Advanced C++ <i>M. Redlich</i> | Ham Cram 101 Ham Radio License Exam Preparation Course Ham Cram Session begins at 9:00am and goes to 12:30pm Practice Exam given at 1:30pm Walk-in Real Exam given at 3:40pm | Theremin in Room ED-207 at 11:20am Lockpick Village Workshop on How to Pick Locks, Repeated Hourly in Room ED-204 Poster Presentations Digital Photo Exhibit Vintage Computers Club/Org Tables |
| 3:40pm to 4:35pm | | | | | | | | | | | | | |

Featured Keynote Speaker: Nick van Terheyden M.D., former Chief Medical Officer for Dell, will talk on "Healthcare Innovation Incremental and Exponential" in Room ED-115

The 2018 TCF Computer Festival — Saturday, 17 March 2018

Keynote Speaker (3:40pm): This year's Keynote Speaker, **Dr. Nick van Terheyden**, will explore the potential for wearables, genomics and other innovations that are washing over healthcare. What's the incremental improvement leading to the next innovative jump? How can this technology revolution change the cost profile and democratize access to healthcare?

Featured Tech. Speaker, Barry Burd (Room ED-109) (10:15am): Quantum Computing with Q# Language.
(11:20am): Writing Apps Part 1, for iPhone.
(12:25pm): Writing Apps Part 2, for Android.
(2:35pm): Learn how to develop Alexa Skills.

Object-Oriented Programming University: Offers a one-day introduction to object-oriented programming by Mike Redlich, ACGNJ President, in Room ED-105.
Tour the Sarnoff Museum Collection of Historic Video and Electronic Technology: in Roscoe West Hall, 2nd Floor, at TCNJ. Open from 1pm to 4pm.

Technical Speaker (11:20am):
George Harris, CTO, from the Qualcomm Tricorder XPRIZE winning company, Basil Leaf Technologies.

ALL-DAY ROBOTICS PAVILION in Room ED-205

TCF'18 Saturday Evening Banquet
Dr. Nick van Terheyden,
 Speaks on "Digital Healthcare Strategies"
 in the Brower Student Center,
Room BSC-225E at 6:00pm
 Banquet Admission: \$32
 Tickets available on the TCF website
www.tcf-nj.org (by March 11th).
 Pick up tickets on Sat. at VIP/Speakers desk.
 Door Prizes! Door Prizes! Door Prizes!

Friday - ITPC 2018
13th IEEE/ACM Information Technology Professional Conference at TCF
 8:30am to 5:00pm, Armstrong Hall
 Friday, March 16, 2018
 (Conference registration required.)
Info/Fees: <http://princetonacm.acm.org/tcfpro>
Twitter: @TCFfestival
www.tcf-nj.org