

# TRUFFLECON

# PORTLAND 2018

PROGRAM

# Conference Overview

	Oct 5	Oct 6	Oct 7
8:30	Workshops @ Portland Community College		
9:00		Keynote Presentations @ Hilton	
9:30			Breakout Sessions @ Hilton
10:00			
10:30			
11:00			
11:30			
12:00	Lunch		Closing Remarks
12:30			
1:00	Workshops @ Portland Community College	Lunch	
1:30		Breakout Sessions @ Hilton	
2:00			
2:30			
3:00			
3:30			
4:00			
4:30			
5:00			
5:30		Truffle Announcement	
6:00			
6:30			
7:00	Welcome Reception @ World Forestry Center		
7:30			
8:00			
8:30			
9:00			
9:30			

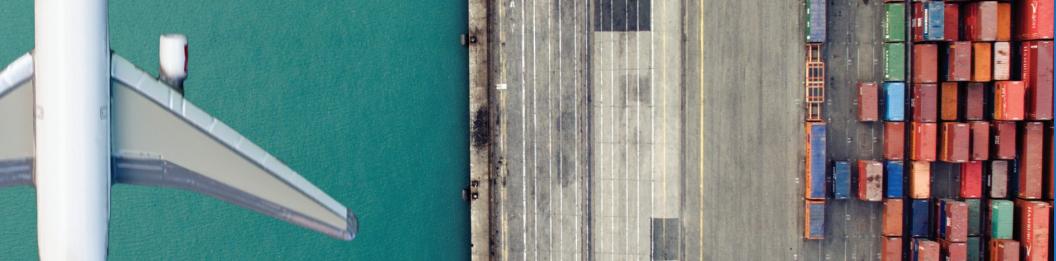
## WiFi & Sli.do

**WiFi Network**  
TruffleCon

**Join the conversation, provide feedback and view the agenda with the TruffleCon Sli.do.**

**Password**  
sweettools

**Go to [sli.do.com](https://sli.do) and use the hashtag:**  
**#TruffleCon2018**



## Why use blockchain on Azure?



### Simplify development

Cut development time and experiment easily with modular, preconfigured networks and infrastructure.



### Get up and running quickly

Iterate and validate blockchain scenarios quickly using built-in connections to Azure and familiar tools like Truffle, GitHub, and VS Code.



### Innovate with confidence

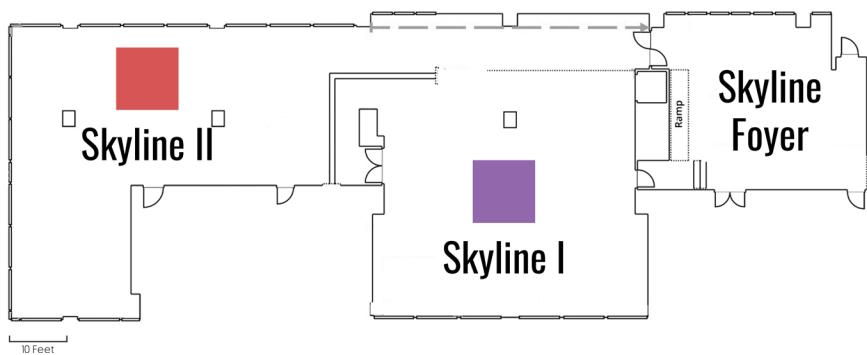
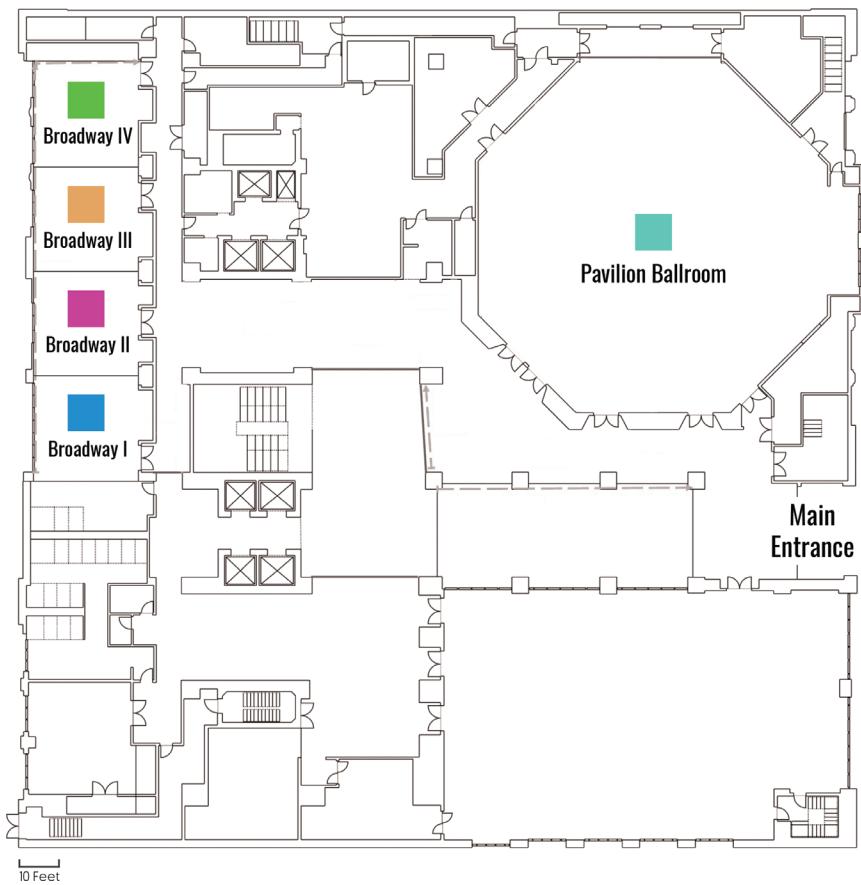
Keep your data secure and scale when you need to—on an open, trusted, globally available cloud platform.

Learn more at [microsoft.com/blockchain](https://microsoft.com/blockchain)



Microsoft Azure

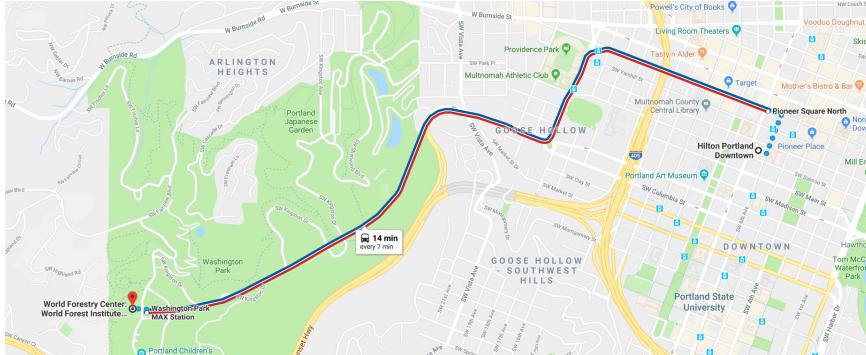
# Hilton Map



# Directions

## Hilton to World Forestry Center

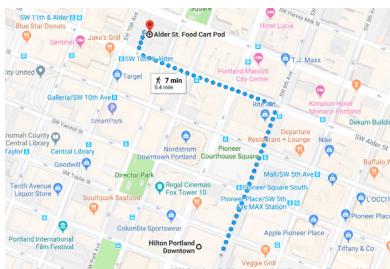
The best way to reach the World Forestry Center is by using the train. The MAX Red Line and MAX Blue Line run from downtown to Washington Park, where the World Forestry Center is.



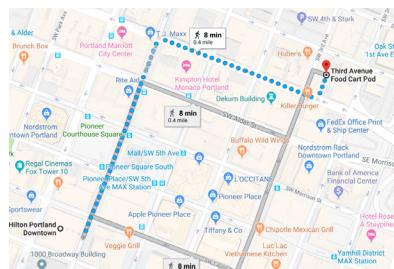
**World Forestry Center** · 4033 SW Canyon Road, Portland, OR 97221

## Hilton to Food Trucks

Portland has a large food cart scene. Every type of cuisine imaginable is available via small trucks, organized in "pods". If you're looking for something different, we encourage you to get out and find lunch at a pod. The following are the most recommended pods.



**Alder St Food Cart Pod**  
639 SW 10th Ave  
Portland, OR 97205



**Third Avenue Food Cart Pod**  
SW 3rd Ave & SW Stark St  
Portland, OR 97204

# **Friday, October 5**

## **Truffle Crash Course for Beginners**

8:30 AM · Ben Burns, Truffle

During this workshop Ben Burns from Truffle University will take you on a whirlwind tour of working with Truffle, Ganache, and Metamask to deploy and test a simple decentralized application (dapp). If you're new to Truffle or Dapp development, this is the workshop for you!

## **Using Drizzle to Build Dapps**

8:30 AM · Josh Quintal + Adrian Li, Truffle

Drizzle, the newest member of the Truffle Suite, is here to help make writing your dapp's front-end a delight. We'll show you how Drizzle works under the hood and can integrate with existing JavaScript frameworks by building a dapp UI, including our own reusable components!

## **I Wrote my First Smart Contract, Now What?**

8:30 AM · Trevor Clarke, Amberdata

How to operate your contract as a business. A detailed look into the full life cycle of a smart contract, from development to production & the required operational aspects. We will do a deep dive into a smart contract, how to debug transactions, monitor revenue, view analytics and events.

## **It's a Trap! Use Forking within Ganache to Check for Traps without The Risk**

8:30 AM · Mike Seese, Truffle

Forking within Ganache CLI allows you safely explore contracts from mainnet on a forked private Ganache blockchain. During this workshop, we'll walk through the steps of exploring what looks like an exploitable contract. Before investing mainnet Ether, we'll use forking to replicate the mainnet state to do a test run.

## **Lunch**

12:00 PM - 1:00 PM

## **Hands-On: Upgrade to v5 with Colony and Truffle**

1:00 PM · Elena Dimitrova, Colony + Nick D'Andrea, Truffle

Unsure of the breaking changes and what they mean for your Truffle v4 project? Join members of the Colony and Truffle teams for this workshop, where we'll present an overview of the process and walk around the room to help out as questions arise. We'll show you a "real live" dapp as an example, but we encourage you to bring your own projects to work on!

## **Testing Ethereum Smart Contracts**

1:00 PM · Michael Lewellen, Cryptocurrency Consulting

When writing Ethereum smart contracts, security is key. In this workshop, we'll show you how to write effective unit tests for your smart contracts in Mocha JS using Truffle. Learning to write these tests will also teach you how to use Web3.js in preparation for developing front-ends in later workshops.

## **Automated Smart Contracts Audit**

1:00 PM · Josselin Feist, Trail of Bits

In this workshop, we will present how to use symbolic execution and fuzzing to help in the design of safer smart contracts and facilitate bug finding. The first part of the workshop will provide to the attendees the basic knowledge to discover bugs in smart contracts through exercises. The second part will focus on how to automatize bug finding using Echidna, a smart contract fuzzer. The attendees will learn how to write code assertions to be checked by the fuzzer and how this approach complements unit-tests. The last part will present Manticore, a symbolic execution engine. The attendees will discover hands-on how formal methods help ensure that the smart contract behaves correctly following its specification.

All the exercises will be performed on open source tools, and the attendees will learn how to integrate these tools into their development process.

## **Smart Contract “Capture The Flag” Workshop**

1:00 PM · Mick Ayzenberg, Security Innovation

This workshop will cover finding, fixing, and exploiting the most common classes of vulnerabilities found in Solidity smart contracts. Participants will be introduced to our interactive Capture the Flag platform. This platform contains several DApps designed with various purposes and functionality, each with one or more vulnerabilities allowing the player to steal testnet Ether and score points on our leaderboard. Throughout the workshop we will be providing learning labs and demonstrations explaining the technical details behind one of the challenges and walking participants through exploiting the contract. Come learn how to exploit (and protect) realistic smart contracts in a fun and safe gamified environment! Previous Solidity experience not required.

## **Welcome Reception**

7:00 PM - 10:00 PM

**World Forestry Center - Discovery Museum**

**4033 SW Canyon Road, Portland, OR 97221**

The World Forestry Center is situated in a beautiful location, right in the heart of Washington Park, and is easy to get to from the Hilton by public transportation. Join us as we celebrate the opening of TruffleCon 2018! All registered attendees are welcome to attend. Welcome Reception sponsored by ConsenSys Diligence, Panvala, and Mythril.

See the Directions section a few pages back for more info on getting to the World Forestry Center.

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*sweet news*

YOU CAN NOW TRY  
TRUFFLE WITH RSK



TRUFFLE



RSK

# Saturday, October 6



**8:30AM** **Cale Teeter**  
Opening Remarks

**8:40AM** **Tim Coulter**  
Keynote

**9:00AM** **Joe Lubin**  
Keynote

**9:30AM** **Tim Coulter & Joe Lubin**  
Fireside Chat

**10:00AM** **The Truffle Team**  
Product Updates from Truffle

**10:20AM** Coffee Break

**10:30AM** **Brandon Arvanaghi**

**10:45AM** **Brian Behlendorf**

**11:15AM** **David Burela**  
How a Microsoft Engineer Uses Truffle on Customer Engagements

**11:45AM** **Elena Dimitrova**  
Wiring Upgradable Contracts

**12:25PM** Lunch

**1:30PM** **Alex Beregszaszi**

**1:30PM** **Brandon Arvanaghi**  
Effective smart contract unit testing through Truffle

**1:30PM** **Eric Weinstein**  
Internet Cats, Virtual Worlds, and the Future of Collecting

**1:30PM** **Josh Quintal + Adrian Li**  
The future of Drizzle and Truffle front-ends

**1:30PM** **James Levy**  
Has Security Been Solved?

**2:05PM** **Mike Seese**  
Just when you thought Ganache couldn't get any sweeter

**2:05PM** **Sally MacFarlane**  
Truffle + Pantheon: Previewing the Newest Eth Client

**2:05PM** **Randall Kanna**  
React + Truffle + IPFS

**2:05PM** **Alex Sherbuck**  
Adoption through Consensus, Corporations & Charities

**2:40PM** **Nick D'Andrea**  
Dissect the Debugger

**2:40PM** **Chris Smith**  
Truffle Test Strategies

**2:40PM** **Matias Seijas**  
Exploring Contract Upgrade Patterns

**2:40PM** **Christian Ruink**  
Web3 Design Principles with Drizzle

**2:40PM** **Destry Saul**  
ECRecover and You: Using Signed Messages for Flexibility and Security



**3:40PM** Snack + Coffee Break

**3:50PM** **Scott Olson & Ben Burns**  
A Day in the Life @ Truffle

**3:50PM** **Scott Street**  
Tailor-Made Smart Contract Interaction

**3:50PM** **Shuvendu Lahiri + Shuo Chen**  
Smart Contract Analysis and Verification for the Azure Blockchain Workbench

**3:50PM** **Brian Wheeler**  
The Web3 Browser War: Making dApps compatible with many different Ethereum wallets.

**3:50PM** **Henry Sraigman + Martin Coll**  
RSK: Smart contracts on Bitcoin

**4:25PM** **Bernhard Mueller + Tom Lindeman**  
Truffle <> Mythril integration 2.0

**4:25PM** **Thomas Bertani**  
Using Oraclize in your smart contract: from zero to hero

**4:25PM** **Roman Storm**  
Access Control List using Merkle Proofs

**4:25PM** **Roderik van der Veer**  
How we use Truffle as a basis to provide exceptional developer experience in the application sphere

**4:25PM** **Joseph Schiarizzi**  
Blockchains are People: Making Fun Things for In-Person Interactions

**5:30PM** **TRUFFLE ANNOUNCEMENT**

CONSENSYS

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# Sunday, October 7

 Skyline I

 Skyline II

**8:30AM** **Angello Pozo**

GraphQL and Ethereum

**8:30AM** **Kevin Weiler**

DevOps for Decentralized Applications

**9:00AM** **Eric Berry**

Incentivizing and Sustaining Open Source

**9:30AM** **John Egan**

Mobile First: Crafting Ethereum Applications for the iOS App Store

**9:30AM** **Alan Krassowski and Scott Bigelow**

Unobvious Ethereum Hacks

**10:00AM** Break

**10:15AM** **Will Villanueva**

The building blocks of the P2P economy

**10:15AM** **Will Scott**

Contract Continuous Deployment and Integrated Truffle Testing

**10:45AM** **Evan Sultanik**

Introducing Etheno: a Tool for Simplifying Formal Methods and Differential Testing

**10:45AM** **Griffin Hotchkiss + Ryan Christoffersen**

Build with Colony: Rapid dApp development

**11:45AM** **Austin Fatheree**

Building Stateless Coins With Merkle Trees

**11:45AM** **Rosco Kalis**

Using Solidity Events for Unit Testing

**12:15PM** **Closing Remarks**



Colony provides a range of tools and libraries which enable developers to build custom DAOs, dApps, Extensions, and Integrations on the Colony Network, or elsewhere.



The contracts that comprise the Colony Network provide a standard framework for the creation, management, and operation of open, decentralised, trustless organizations.



colonyJS provides a simple and predictable interface to interact with the Colony Network directly.



The Purser library is a universal wallet tool for developers that simplifies interaction with Ethereum-based wallets.



Tailor is a library for interacting with Ethereum smart contracts, built by Colony. It acts as a powerful and easy-to-use layer between lower-level libraries such as Web3, and your dApp.



TrufflePig is a development tool that provides a simple HTTP API to find and read from Truffle-generated contract files, for use during local development.



colonyStarter is the easiest way to start building with Colony. It includes a variety of starter projects that demonstrate how to use and integrate different tools with Colony.



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# Notes

