

Flashbots @ EthCC 2024 Brussels

SBC Week is here!

Tune into the [MEV SBC 2024](#) livestream today, Tuesday, August 6. And, if you are in town for the event, sign up for the [TEE Party](#) this evening!

TEE-Week

The TEE was brewing all week long in Brussels for EthCC 2024.

Flashbots kicked off the week with Shea Ketsdever taking the stage at EthCC to discuss how trusted execution environments (TEEs) will play an important role in the future of block building. Shea's talk on the [MEV Trilemma](#) introduced Flashbot's latest R&D breakthrough, the TEE Builder; our fast, open-source rbuilder running in a TEE with a second price auction orderflow refund rule!

The TEE continued to flow on Thursday at the [TEE.Salon](#) which brought together experts from across open hardware, academia, and cryptography research. Andrew Miller and Ethan Buchman started the day with introductory presentations on TEEs, how they operate, and their security properties, followed by demos from Xin Sun and Moe Mahhouk. Explore all the videos below!

TEE was served to all attendees on Friday at Modular Summit 3.0 for [Metagame.day](#). Curated by T.I.N.A., Metagame.day connected applications developers and protocol researchers and featured Vitalik's presentation on 'Ethereum as a Platform for Dapps, in 2015 and 2024'.

The final TEE was poured Saturday afternoon at [DarkPool.Design](#) researchathon in collaboration with PropellerHeads and Uniswap Foundation. We spec'd out a TEE UniV4 hook, dove into privacy properties for TEEs, and examined pricing mechanisms for TEE dark pools. Check out the videos below and readouts from [Ken Ng](#) and [Lily Johnson and Filip Rezabek](#).

Flashbots at EthCC

Sunday, July 7

- Sequencing x CAKE Day - Dmarz

Monday, July 8

- Searcher.wtf - Shea Ketsdever

, TEE Builder

Tuesday, July 9

- Optimistic Gathering - Dmarz

, Interop: A Block Builders Perspective

[\[slides\]](#)

- Towards a Brighter Future for Ethereum - Robert Miller

Wednesday, July 10

- EthCC - Shea Ketsdever

, MEV Trilemma

[\[video\]](#)

- Modular DeFi Day - Tesa Ho
- Rollup Day - Rober Miller

, Where Rollups Go From Here

[\[video\]](#) [\[slides\]](#)

- FHE Summit - Jonathan Passerat-Palmbach

, MEV mitigation with (T)FHE

[\[video\]](#)

Thursday, July 11

- TEE.Salon - Andrew Miller

, TEE Stack Potential, Reminder about Tech Debt, Bargaining Bots Concept

[\[video\]](#)

- TEE.Salon - Shea Ketsdever

, TEE Block Building

[\[video\]](#)

- TEE.Salon - Moe Mahhouk

, Intel TDX Demos

[\[video\]](#)

- TEE.Salon - Xinyuan Sun & Ryan MacArthur

, What applications do TEEs enable?

[\[video\]](#)

- Liquidity.Salon - Robert Miller

, MEV & LVR Panel

[\[video\]](#)

Friday, July 12

- Modular Summit 3.0 [Metagame.day](#) - Andrew Miller

, The TEE Stack

[\[video\]](#) [\[slides\]](#)

- Modular Summit 3.0 [Metagame.day](#) - Shea Ketsdever

, MEV in 2025

[\[video\]](#) [\[slides\]](#)

- Modular Summit 3.0 [Metagame.day](#) - Xin Sun

, What apps are unlocked by the TEE Stack?

[\[video\]](#) [\[slides\]](#)

- Modular Summit 3.0 [Metagame.day](#) - Dmarz

, Modularitee - Control your (Information) Flow

[\[video\]](#) [\[slides\]](#)

- Modular Summit 3.0 [Metagame.day](#) - Dmarz

, What application innovation can block building / solving / sequencing uniquely enable?

[\[Video\]](#)

- Modular Summit 3.0 [Metagame.day](#) - Andrew Miller

, Open TEE: 1st Step towards the Ideal Chips for Crypto

[\[Video\]](#)

Saturday, July 13

- DarkPool.design Researchathon, Tesa Ho, Christoph Schlegel, Dmarz
- PBS Salon - hosted by the PBS Foundation

Flashbots' Events

Liquidity.Salon

Hosted by Flashbots, PropellerHeads, and Uniswap Foundation

- Markus Schmitt

@PropellerHeads

, Making Onchain Liquidity Great Again

[\[video\]](#)

- Ken Ng

@Uniswap

Foundation, UniV4 Hooks

- Robert Miller, Max Resnick, Karthik, Ed, and Markus Schmitt

, MEV & LVR Panel

[\[video\]](#)

- Stephane Goselin, Vishwa, Kevin Wang, Rishabh Khurana, Arjun Bhuptani

, Txn Supply Chain Composability Panel

- Tarun Chitra, Anna Rose, Andrew Miller, Henry de Valence, Christopher Goes, Davie

, Information Flow Control Panel

[\[video\]](#)

TEE.Salon

- Davie

@Poetic

Technologies, Supply chain security, TEEs and smart contracts

[\[resources\]](#)

- Andrew Miller

@Flashbots

, TEE Stack Potential, Reminder about Tech Debt, Bargaining Bots Concept

[\[video\]](#)

- Ethan Buchman

@Informal

Systems, Quartz: A privacy Preserving TEE Sidecar for CosmWASM

[\[video\]](#)

- Sylvain Bellemare

@IC3

, qtee Moving Towards Open Source & Verifiable Secure-through-Physics TEE Chips

[\[video\]](#)

- Tracy Livengood

@Pluto

, Web Proofs: Add internet data to onchain apps

[\[video\]](#)

- Michael Gao

@Fabric

Cryptography, Designing Open Processors for the Next Generation of Cryptography

[\[video\]](#)

- Shea Ketsdever

@Flashbots

, TEE Block Building

[\[video\]](#) [\[slides\]](#)

- Moe Mahhouk

@Flashbots

, Intel TDX Demos

[\[video\]](#)

- Xin Sun @Flashbots

& Ryan MacArthur

, What applications do TEEs enable?

[\[video\]](#)

- Hang Yin

@Phala

, TEE in Decentralized AI

[\[video\]](#)

- Zheng Leong

@Automata

, A complete Web3-based DCAP attestation framework

[\[video\]](#)

Modular Summit 3.0 - [Metagame.day](#)

[Metagame.day](#) curated by [T.I.N.A.](#) for Day 2 Main Stage of [Modular Summit 3.0](#), brought to you by [Celestia](#) and [Maven 11](#).

Chapter I. Application.wtf

- Felipe Argento

@Cartesi

, User Journey of an App Developer in Designing an App Rollup

[\[Slides\]](#) [\[Video\]](#)

- Ethan Buchman

@Informal

Systems / Cycles, Defund the Dealers: the Past, Present, and Future of Liquidity

[\[Slides\]](#) | [\[Video\]](#)

- Ken Ng

@Uniswap

Foundation, Yisi Liu

@Mask

, Matt Katz

@Caldera

, Makoto

@ENS

, Ansgar

@EF

, Vitalik

@EF

, T.I.N.A.

@Flashbots

, Panel | Protocol Researchers Meets Applications with Users

[\[Video\]](#)

- Vitalik

@EF

, Ken Ng

@Uniswap

Foundation, Ethan Buchman

@Informal

Systems, Dev Ojha

@Osmosis

, T.I.N.A.

@Flashbots

, Fireside Chat | How is App-chain Thesis Different Between Ethereum & Cosmos Ecosystem

[\[Video\]](#)

Chapter II. Protocol.wtf

- Vitalik

@EF

, Ethereum as a Platform for Dapps, in 2015 and 2024

[\[Slides\]](#) | [\[Video\]](#)

- Jonah

@Blockchain

Capital, Protocol MEV Capture

- [\[Slides | Video\]](#)
- Emmanuel Awosika

@2077Collective

, Layer 2s as Extensions of Ethereum

[\[Slides | Video\]](#)

- Tarun Chitra

@Gauntlet

, How to Reason about Contagion Risk within the Modular Stack

[\[Slide | Video\]](#)

- Fiskante

@Zeeprime

, Justin Drake

@EF

, James Prestwich

, Ben Fisch

@Espresso

, Jacob Arluck

@Celestia

, Panel | Fat Applications, Protocols, Middleware, or... Operators?

[\[Video\]](#)

Chapter III. Defying the Endgame

- Yuki

@Sorella

Labs, State of MEV 2024

[\[Slides | Video\]](#)

- Matt Cutler

@Blocknative

, Gas Matters: New Sources of Base Fee Volatility

[\[Slides | Video\]](#)

- John Adler

@Celestia

, It's All R3sourc3 Pricing

[\[Slides | Video\]](#)

- Evan Forbes

@Celestia

, Based Rollups are Based, Fork Choice Rules Rule

[\[Slides\]](#) [\[Video\]](#)

- Shea Ketsdever

@Flashbots

, MEV in 2025

[\[Slides\]](#) [\[Video\]](#)

- Dmarz

@Flashbots

, Josh Bowen

@Astria

, Markus

@Propellerheads

, Dan Elitzer

@Nascent

, Hart Lambur

@UMA

@Across

, Panel | What application innovation can block building / solving / sequencing uniquely enable?

[\[Video\]](#)

Chapter IV. The Game Changer Today

- Ethan Buchman

@Informal

Systems, How to Win Friends and TEE-fluence People

[\[Slides\]](#) [\[Video\]](#)

- Andrew Miller

@Flashbots

& Cycles, The TEE Stack

[\[Slides\]](#) [\[Video\]](#)

- Dmarz

@Flashbots

, ModulariTEE: Control Your Information Flow

[\[Slides\]](#) [\[Video\]](#)

- Sxysun

@Flashbots

, Unlocking A New Dimension of Application Design with TEE Stack

[\[Slides\]](#) [\[Video\]](#)

- Michael Gao

@Fabric

Cryptography, Andrew Miller

@Flashbots

, Tarun Chitra

@Gauntlet

, Panel | Open TEE: 1st Step towards the Ideal Chips for Crypto

[\[Video\]](#)

Chapter V. The Metagame

- Ethan Buchman

@Informal

Systems, Mustafa Al-Bassam

@Celestia

, Andrew Miller

@Flashbots

, Tarun Chitra

@Gauntlet

, Panel | The Metagame

[\[Video\]](#)

DarkPool.Salon

Hosted by Flashbots, PropellerHeads, and Uniswap Foundation

- Markus Schmitt

@PropellerHeads

, Making Onchain Liquidity Great Again

- Tesa Ho, Christoph Schlegel, Dmarz

, Dark Pools in Traditional Finance Panel

[\[video\]](#)

- Ken Ng @Uniswap

Foundation

, Spec'ing a UniV4 Dark Pool Hook in a TEE