

Lucerne University of
Applied Sciences and Arts

**HOCHSCHULE
LUZERN**

Informatik
FH Zentralschweiz

**Blockchain
Lab**



Crypto Valley CONFERENCE

on blockchain technology

20-22 June 2018

Lucerne University of
Applied Sciences and Arts

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IEEE
computer
society

 **IEEE**
Switzerland

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			SMART CONTAINERS

CVA PRESIDENT'S CONFERENCE INTRODUCTION

On behalf of myself and the crypto Valley Association I would like to welcome you to the inaugural Crypto Valley Conference on Blockchain Technology. The first-ever Blockchain conference to be certified by the IEEE, we are here to focus on the nitty gritty issues that will be key to the success of our young industry: research, innovation, and above all, technology.

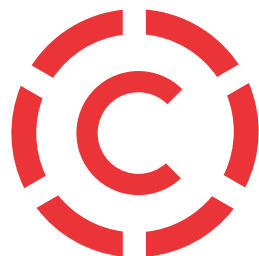
Over three days we will hear from over 30 prominent blockchain thought leaders, present 25 important new academic papers, award CHF 30,000 in prize money, and host 24 exhibitors from all corners of our community. We will explore complex and important crypto economic and finance topics, from token analysis and governance to crypto monetary policy and market microstructures. We will also take deep dives into cutting-edge developments in blockchain technology, from smart contracts and micropayments to identity management, decentralized applications, and the latest in consensus protocols.

With over 30 exciting satellite events, there will also be plenty of opportunity to relax. But our primary focus is academic excellence, driving progress in blockchain through hard work and deep thought. We are very proud to be able to host such a conference here in Crypto Valley. I think it is also fitting. Over the last few years, Crypto Valley and Switzerland have established themselves as one of the world's premiere blockchain hubs. We have become a preferred choice for startups looking to raise capital through token launches, not least because we have a government that supports this technology and a regulator that has been a role model in setting guidelines to both protect investors and support innovation. But there is much more to Crypto Valley than just ICOs. We are home to some of blockchain's most important organisations and companies, with new ones seeming to arrive every day. For a small country, we have developed an impressive ecosystem of blockchain-related expertise. We are home to world-class academic institutions and a highly educated, extremely productive workforce.

Perhaps most importantly, we are a magnet not just for those who want to build exciting new businesses, but also for those who, inspired by the Swiss model, are passionate about using blockchain to build a better world. It is in this spirit, and in the spirit of progress for our young, exciting and very dynamic industry, that we welcome you to our Valley. We wish you a fascinating, fulfilling and above all fruitful time here.

Oliver Bussmann
President, Crypto Valley Association

Crypto Valley



The creation of Crypto Valley was inspired by the enormous advantages of global industry clusters — a friendly regulatory environment, network effects, economies of scale, attracting the world's best talent, building deep pools of capital and a rich ecosystem of resources and know-how for startup companies, nurturing an entrepreneurial culture, infectious energy, and strong trust relationships that make the impossible possible.

Through the broad support of numerous individuals, startups, corporates, service providers, industry associations, educational institutions, governments, and regulators — especially the early pioneers Monetas, Ethereum, Bitcoin Suisse, MME Legal, the Digital Finance Compliance Association, the Bitcoin Association of Switzerland, Lucerne University of Applied Sciences and Arts, the canton and city of Zug, the Greater Zürich Area, Switzerland Global Enterprise, the Swiss Financial Market Supervisory Authority (Finma), and the Swiss Federal Government — Crypto Valley has grown into one of the world's leading ecosystems for crypto, blockchain, and distributed ledger technologies, with dozens of companies in this space now calling Crypto Valley home and thriving in its vibrant community.

In January 2017 the Crypto Valley Association was established as a professional organization to coordinate, accelerate, and scale the further development of Crypto Valley into the world's best ecosystem for crypto technologies and businesses. The founding members included Bitcoin Suisse, Bussmann Advisory, iprotus, Lucerne University of Applied Sciences and Arts, Luxoft, Monetas, and Thomson Reuters.

Lucerne University of
Applied Sciences and Arts

HOCHSCHULE LUZERN

Informatik

FH Zentralschweiz

The most comprehensive range of IT study programs taught at one central location

The Lucerne University of Applied Sciences and Arts is the first Swiss university of applied sciences to have its own School of Information Technology. More than 600 students are enrolled in one of the five bachelor's degree programs and the three master's degree programs at the Zug-Rotkreuz campus. The School of Information Technology is focusing its research on new areas of interest, ranging from artificial intelligence, machine learning and mobile and smart systems all the way to blockchain, smart contracts and visual computing. Numerous partners from the public and private sector benefit from the project skills and professional expertise of the researchers.

Continuing and executive education programs include the Master of Advanced Studies and Certificate of Advanced Studies in four attractive specialist areas. Courses, seminars and conferences lasting one or more days are also available. The Lucerne School of Information Technology also has outstanding links to domestic and foreign universities as well as to partners from all areas of economic, administrative, cultural and social life. Thanks to its range of programs, the School of Information Technology offers added value for business, society and culture.



Founded in August 2013, Bitcoin Suisse is a pioneer and global market leader in crypto-financial services. Bitcoin Suisse provides its global institutional and private client base with the following services: brokerage services, ICO services and other related offerings such as storage solutions, blockchain analysis and a payment gateway system.

More than 50 employees in Switzerland and Denmark service private and institutional clients and develop inhouse technology. Bitcoin Suisse is a licensed financial intermediary incorporated in Switzerland, operating under Swiss law and according to AML (Anti-Money-Laundering) regulations.

Bitcoin Suisse has played an important role in some of the most successful and influential projects in the crypto space, such as Ethereum.

Learn more about Bitcoin Suisse on: www.bitcoinsuisse.ch



Melon provides individuals and institutions with the right tools to set up, manage and invest in investment funds of digital assets. Whereas setting up a fund used to be associated with high costs and, operational and administrative overhead, Melon enables you to set up a fund in digital assets in a matter of minutes and at a fraction of the costs.

It can provide significant savings in time and operations by replacing the majority of the tasks traditionally performed by the fund administrator with smart contracts. The rules of setting up and running a fund are encoded into the contracts and enforced by the blockchain.

When setting up a fund, the manager first chooses the parameters: Fee structure, trading exchanges and KYC/AML requirements among others. Once selected, the fund will be deployed on the blockchain according to these rules and from that moment on, the manager can only behave as specified. This ensures transparent investment strategies, which brings assurance to investors.

Investors who simply wish to outsource the investment decisions to experts will have access to the entire array of Melon funds through a ranking list with historical performances and other basic fund information.

Melon is intended as an autonomous system, designed specifically for the purposes of crypto asset management. Both the Melon frontend (IPFS) and backend (Ethereum) are hosted and executed on decentralised platforms.



swisscom

Blockchain

Swisscom Blockchain is the answer to the market demand in blockchain solutions and the point of contact for all related topics and requests. It is led by experienced consultants and technology experts in the blockchain area with a “Big-4” background and is supported by Swisscom’s infrastructure and development know-how. This combination enables a unique value proposition for corporate clients. Swisscom Blockchain’s experts make sure your solution is seamlessly integrated into your system and build and run secure decentralized services including exchanges and smart contracts for launching successful initial coin offerings (ICO). Swisscom Blockchain stands for high quality blockchain advisory and delivery, and supports clients through the entire project journey.



Founded in 2016, aeternity is an open-source, blockchain-based distributed computing platform that builds on decentralized cryptographic P2P technology. Designed to deliver unmatched productivity, transparent governance, and global scalability, aeternity offers blockchain technology with a consensus mechanism that is as efficient and cost-effective as possible.

aeternity’s unique state channel design enables the off-chain verification of data and smart contracts, allowing for all transactions to be independent of each other, thereby increasing transaction speed and scalability while also ensuring increased privacy.

aeternity’s underlying value token is the AE token, which can be transferred between members and is used to compensate participant nodes for any number of computations performed. All AE token users are allowed to participate in the governance of the aeternity blockchain through a voting process, weighted by the number of tokens each user holds.



ARAGON

What is Aragon? Your window to the decentralized era. Aragon is a project that aims to disintermediate the creation and maintenance of organizational structures by using blockchain technology. We want to empower people across the world to easily and securely manage their organizations. Aragon organizations can be upgraded seamlessly using our aragonOS architecture. By making it possible for everyone in the world to organize, we are enabling a borderless, permissionless and more efficient creation of value. Aragon Network will be the first community governed decentralized organization whose goal is to act as a digital jurisdiction, an online decentralized court system that isn’t bound by traditional artificial barriers such as national jurisdictions or the borders of a single country. Thus, Aragon is a fight for freedom. Aragon empowers freedom by creating liberating tools that leverage decentralized technologies.



Hive Power develops a turnkey solution for the creation and management of local energy communities, called Hives, providing an economic optimization for their participants by lowering their bills and valorizing their assets.

The Hives will enable energy producers and consumers to efficiently integrate renewables into the existing electrical grid, taking advantage of flexible loads, such as heat pumps, boilers and electric vehicles. Inside a Hive, the community members can trade energy with each other at profitable rates in an automated, safe and certifiable manner, where the billing takes place automatically, using third-party stable tokens for the payment.

Both the forecasts for energy usage, as well as the actual production and consumption profiles of each user, are measured by specialized meters, connected to the Ethereum blockchain.

What sets Hive Power apart from its competitors is its efficient energy trading service, perfectly tailored local energy-sharing communities.



Capgemini Schweiz AG is part of Capgemini Group, and has been operating in Switzerland since 1968. Our goal is to deliver a high quality support and integration in management consulting and IT services. We are located in Zurich, Basel, Geneva and Lausanne.

We understand the potential of Blockchain and Distributed Ledger Technology in the ever evolving landscape of Information Technology and have built interesting conversations and outcomes with our clients over the latter half of the decade. Capgemini Schweiz is glad to emerge a Gold Sponsor of the Crypto Valley Blockchain conference 2018. "Beyond the Hype" is a panel that we're truly interested in, having lived with the technology with some of our largest clients from across sectors. What matters, is the value that can be propagated into enterprise-wide or marketplace scale, and this is a threshold that we believe, still requires time to be broken. We look forward to collaborative discussions this June!



Emotiq aims to be the most accessible and friendly blockchain of them all — the Apple to other blockchains' Android and Windows. Emotiq aims to provide a blockchain interface so friendly and natural, even kids can use it. Emotiq smart contracts are written in Ring, a plain English programming language that's as easy to read as a newspaper. Emotiq delivers a powerful blockchain engine, uses zero-knowledge proofs for transaction privacy, and scales through sharding. Emotiq keeps its blockchain small and maintainable by applying MimbleWimble for cryptographically secure purging of spent transactions. Emotiq gives you a blockchain engine as powerful as a Formula 1 race car, with an interface so easy to use that you can drive with no training required!



MME Legal | Tax | Compliance is an innovative Swiss enterprise offering comprehensive professional consultancy and litigation services in all legal, tax and compliance matters. MME has offices in Zurich and Zug, both situated in the most important economic zone of Switzerland, the Greater Zurich Area.

MME assists, supports and represents companies and individuals in all business and business-related private matters. Our strength is our focus on a direct partner/client-relationship. MME professionals assist clients personally, comprehensively, candidly and determinedly – in Switzerland and abroad. MME's expert advisors have established and maintain a broad global network of sophisticated specialists, and we deal with our clients' challenges worldwide.

With regard to blockchain and fintech projects, MME has set up a team of technology, banking, corporate law, distribution, tax and AML experts jointly providing solutions and expertise. Whether projects are developing, procuring, or investing in these areas, MME understands the opportunities and challenges the business can face. New technologies, such as blockchain (distributed ledger Technology | „DLT“), are part of our daily business. This assures that our legal expertise is combined with a thorough technical understanding of the technology underlying our client's business models.



Microsoft is the world's leading manufacturer of standard software, services and solutions. We help people and companies from all industries and of all sizes to fully realize their potential. Security, reliability, innovation and integration, as well as openness and interoperability, are the main focus when developing all Microsoft products and business solutions. Though our own platform as well as our ecosystems of partners and start-ups we democratize access to advanced technology ranging from leading business productivity solutions, artificial intelligence, blockchain as well as augmented & virtual reality to quantum computing. Microsoft's mission is to empower every person and every organization on the planet to achieve more.

We build agile platforms and services, so others can innovate, build their own technology, and create new solutions that make things happen. This platform approach has always been the cornerstone of Microsoft's strategy to deliver technology in ways that help our customers succeed with the help of our partners.



We are VR Motion Communications, and we are building the Virtual Reality Platform that the world has been waiting for. It will fill in the missing piece that has prevented VR from becoming a mainstream media.

Our platform leverages existing technologies such as VR technology, A.I. Technology, Blockchain technology, linked devices and cutting edge video compression technology, and it allows VR users to really communicate with each other for the first time ever.

This game-changing VR platform is the next step in the evolution of human communication between distant physical locations. It will change the way business people and loved-ones communicate long-distance, and it will also change online chatting, online dating, entertainment industries, and more!

We came to Switzerland to give you all a glimpse of our revolutionary platform and invite you to join our Token Pre-Sale. Visit our booth and register for our seminar happening on Saturday June 23rd, which follows the main conference to find out more!



Luxoft (NYSE:LXFT) is a global IT service provider of innovative technology solutions for multinational companies. Its offerings encompass consulting, custom software development services, and digital solution engineering.

Luxoft enables companies to compete by leveraging its multi-industry expertise in the financial services, automotive, communications, and healthcare & life sciences sectors. Luxoft is passionate about developing and innovating new technologies to its customers. Blockchain and other Distributed Ledger Technologies are key offerings demonstrating business value. Luxoft is a co-founder of the Crypto Valley Association, has partnerships with Chain, R3, Evernym, IBM and AWS, and supports Ethereum, Hyperledger, Corda, Ripple, Chain, IOTA and Sovrin. Luxoft has more 12,900 with its headquarters office in Zug, Switzerland.



VR ALL ART is an unique platform, a new marketplace for artists, galleries, museums and the general public to exhibit, explore and acquire art in the virtual and augmented realities. VR ALL ART sets the foundation for an unprecedented evolution of art exhibitions, art spaces and art trading. It is an unlimited world in a new reality – a metaverse of galleries and museum spaces with no borders and no physical boundaries. It enables everyone to explore artworks and discover artists from all over the world wherever they are, at any time. It also gives new power to artists to exhibit, as they are no longer constrained to the physical limits of real-world space and time.

To fuel and empower this transformation we are introducing a new cryptocurrency AllArt coin and an underlying blockchain economy to handle the arts & culture space. Within the VR ALL ART ecosystem, it is used for art trading, exhibition fees, curation rewards, art dividends, art profits and many other use cases associated with the art space. Trading physical, real-world art and purely digital artworks on a blockchain based marketplace allows art to become a liquid asset and enables a completely new type of art investments.



Merkleon – is a rapidly growing Austrian IT Company that has been providing innovative turnkey solutions for E-commerce and Crypto Business since 2009. Merkleon Software allows Customers to launch own online Auctions and multifunctional Marketplaces, E-bidding Platforms and P2P Crypto Currency Exchanges. The technological base of the products can be converted to a closed Ecosystem, which can include all the products and operate as an All-in-One Platform. Each product can be complemented with the Merkleon Crypto Payment Gateway that supports 10+ crypto currencies. Merkleon is a dedicated Team of professionals that provides the Customers with modern and competitive solutions, high-quality Post Sales Services and Technical Support.



ShapeShift enables users to buy Bitcoin, Ether, Litecoin and other major blockchain-based tokens, with no account required. No emails or passwords. No lengthy sign up process. No counterparty risk. No friction. ShapeShift is the fastest and safest way for the world to buy and sell digital assets. See more at: www.shapeshift.io



Ripple provides one frictionless experience to send money globally using the power of blockchain. By joining Ripple's growing, global network, financial institutions can process their customers' payments anywhere in the world instantly, reliably and cost-effectively. Banks and payment providers can use the digital asset XRP to further reduce their costs and access new markets. With offices in San Francisco, New York, London, Sydney, India, Singapore and Luxembourg, Ripple has more than 100 customers around the world.



ioVentures is positioned at the precipice of innovation and capitalization. Our resolve in fostering the ingenious extends from our own determination to step outside of the norm and fuel those that dare to find relevance at the forefront of the most revolutionary technology.

We stand united in a choice to be outstanding.
We stand united in an effort to make a difference.
We stand united with you, the innovators of tomorrow.



The Dash Embassy D-A-CH has set itself the goal to educate people in the German speaking world about cryptocurrencies in general and Dash (Digital Cash) in particular. Part of the free learning opportunity that we're providing as an organization that is financed by the Dash DAO (Decentralized Autonomous Organization) are workshops, webinars, brochures and a consulting service for merchants and consumers that want to use Dash. We want to shine a light into the world of cryptocurrencies that many people perceive as opaque. We also want to provide information about legal questions like income taxes or technical questions like how to securely store your cryptocurrencies.



Ask.fm 2.0 is the first incentivized, decentralized Q&A social network with its own internal cryptocurrency, where users can be rewarded for quality content. It brings together professionals, opinion leaders and people seeking for better quality content, providing value for both questioners and answerers. Current ASKfm is the largest teen Q&A social network in the world with 215 million registered members in 168 countries and it is translated into 49 languages. It's an established product that already has a large and diverse user database.



Ambrosus is a complete enterprise solution that combines Blockchain and Internet of Things technology to measure and record information about every corner of your supply chains. Our universally verifiable, community-driven ecosystem for supply chains is powered by Amber (AMB), a native blockchain token which turns products into digital assets, recording their history from birth to consumption and storing it on the AMB-Net.



Block Stocks Swiss AG offers a highly automated all-in-one Security Token Sale platform for Startups and Small and Medium Enterprises (SMEs) - one of the most profitable investments in the financial history.

This fundraising platform is powered by the Block Stocks Tokens offering unique revenue streams for the Token Holders, who will own the share of each Startup or SME that will ever raise capital on the Block Stocks Platform.



Comprised of over 800 blockchain experts, entrepreneurs, computer scientists, designers, engineers, consultants, educators, and business leaders with delivery experience across six continents, ConsenSys is the world's largest blockchain venture production studio. Its vision is to use blockchain technology to create a world in which distributed applications and the Ethereum world computer support a new class of frictionless, global commerce with inclusion for all. ConsenSys is based in NYC, with offices in Paris, Dubai, London, Dublin, San Francisco, Toronto, Sydney, Manila, Zurich, and other major cities around the globe.



IEEE is the world's largest technical professional organization for the advancement of technology, with more than 400'000 members. IEEE Switzerland section consists of approximately 3'000 members, an IEEE executive committee, 14 chapters and 3 affinity groups (Young Professionals, Women in Engineering and Life Members). Also, it has 3 student branches at EPF Lausanne, ETH Zürich and USI Lugano. The section is devoted to running professional and technical events, competitions for students in Switzerland, as well as providing technical co-sponsorship to conferences. More details can be found at our website: <https://www.ieee.ch/swiss-section/>.

For example, in 2017 IEEE Switzerland section has organized a total of 38 technical events, including workshops, contests and training seminars. Please visit our booth at the Crypto Valley Conference on Blockchain Technology, on 20-22 June in Zug, Switzerland to learn more about IEEE, join local activities or attend events organized in Switzerland.




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Canton of Zug



Crypto Valley

CONFERENCE
PRE-EVENT
LUCERNE UNIVERSITY OF
APPLIED SCIENCES AND ARTS
WEDNESDAY JUNE 20TH

INTRO COURSES

REGISTRATION AND RECEPTION	16:00
TUTORIAL 1 BLOCKCHAIN 101 Dr. Sebastian Bürgel - Validity Labs	16:30
TUTORIAL 2 SMART CONTRACTS Dr. Hubert Ritzdorf - Chainsecurity	17:10
TUTORIAL 3 BLOCKCHAIN USE CASES Ashley Lannquist - Blockchain @ Berkeley	17:50
TALENT MEETS BUSINESS IN THE CRYPTO VALLEY, ZUG	19:00

DEEP DIVE

REGISTRATION AND RECEPTION	
WORKSHOP 1 ZERO KNOWLEDGE PROOF Prof. Dr. Alessandro Chiesa - UC Berkeley	
WORKSHOP 2 PAYMENT CHANNELS & SCALABILITY Dr. Arthur Gervais - Imperial College	
WORKSHOP 3 BLOCKCHAIN IN THE ENERGY SECTOR Gianluca Corbellini - HIVE Power	
TALENT MEETS BUSINESS IN THE CRYPTO VALLEY, ZUG	

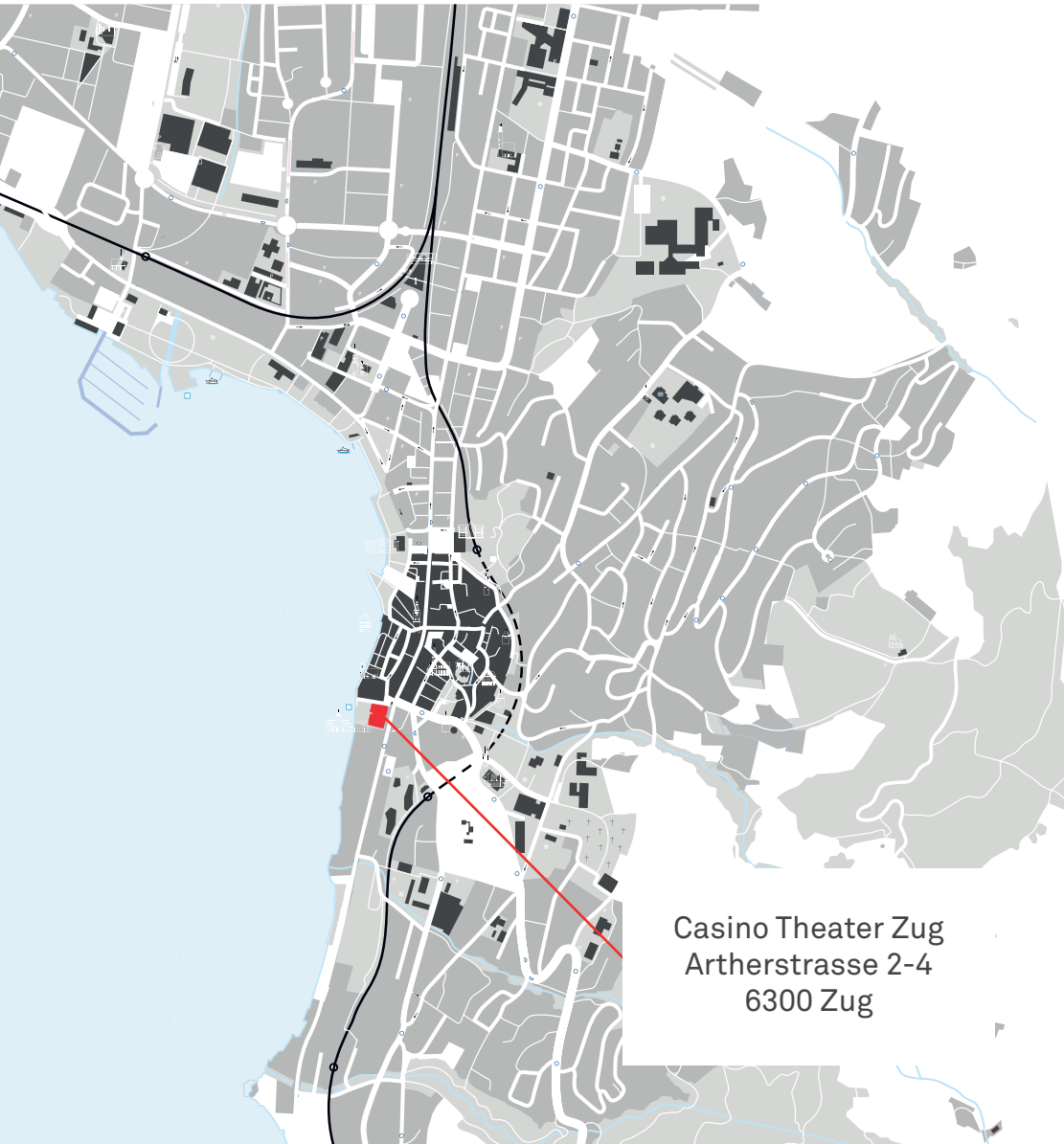
Hochschule Luzern
SUURSTOFFI 12
6343 ROTKREUZ





Crypto Valley

CONFERENCE

THURSDAY JUNE 21ST

Casino Theater Zug
Artherstrasse 2-4
6300 Zug

BUSINESS TRACK
AUDITORIUM

REGISTRATION AND RECEPTION

07:30

OPENING CEREMONY

08:30

Elliott Gotkine - Conference Moderator
Oliver Bussmann - President Crypto Valley Association
Johann Schneider-Ammann - Swiss Federal Councillor
Dr. Matthias Michel - Dept. of Economic Affairs Zug
Dolfi Müller - City Mayor of Zug

KEYNOTE

09:00

Stefan Thomas - CTO Ripple

BREAK

09:45

PANEL DISCUSSION 1
BLOCKCHAIN & LEGAL

10:15

Joshua Klayman - Morrison Foerster
Nigel Brahams - Collyer Bristow LLP
Rachel Paris - The Blockchain Boutique
Daniel Resas - Schnitker Möllmann Partners
Prof. Ursula Sury - HSLU
Moderator: Dr. Luka Müller - MME

BLOCKCHAIN IN SWITZERLAND

10:50

Daniel Haudenschild, Swisscom Blockchain

PANEL DISCUSSION 2
FUTURE OF TOKEN ECONOMY

11:25

Dr. Thomas Moser - Swiss National Bank
Mona El Isa - Melonport | Nikola Stojanow - Aeternity
Marc Holitscher - CTO Microsoft Switzerland
David Wachsman - Wachsmann PR | Luis Cuende - Aragon
Moderator: Elliott Gotkine

LUNCH

12:00

BLOCK 1
IOT & SHARED DATA

13:30

Dr. Florian Herzog - CTO Deon Digital
Dominic Williams - CTO DFINITY
Anoop Nannra - Head of Blockchain @ Cisco
Dr. Dominic Woerner - Bosch IoT Lab
Dr. Leif-Nissen Lundbæk - CTO XAIN

BREAK

16:00

BLOCK 2
FINTECH & VALUE EXCHANGE

16:30

Prof. Dr. Tomaso Aste - Scientific Director UCL
Richard Olsen - CEO Lykke
William Mougayar - Token Summit
Angel Versetti - CEO Ambrosus

CONFERENCE DINNER

19:00

CASINO
ZUG

10:15

ACADEMIA TRACK
HALL

OPENING

Dr. Maria-Alexandra Paun, Chair IEEE Switzerland

10:30

BURNING ZEROCOINS FOR FUN AND FOR PROFIT:
A CRYPTOGRAPHIC DENIAL-OF-SPENDING ATTACK
ON THE ZEROCOIN PROTOCOL

Tim Ruffing, Sri Aravinda Krishnan Thyagarajan,
Viktoria Ronge, Dominique Schröder

10:45

BLOCKCHAIN BASED PROTOCOL FOR
ECONOMICAL COMMUNICATION IN INDUSTRY 4.0

Aleksandr Kapitonov, Ivan Berman,
Sergey Lonshakov, Aleksandr Krupenkin

11:00

DEVELOPING A SMART CONTAINER FOR A
BLOCKCHAIN-BASED SUPPLY CHAIN APPLICATION

Johannes Hinckeldey, Jochen Kreutzfeldt

11:15

TOWARDS MORE RELIABLE BITCOIN TIMESTAMPS

Pawel Szlachowski (SUTD)

11:30

AN ANALYSIS OF NON-STANDARD BITCOIN TRANSACTIONS

Stefano Bistarelli, Ivan Mercanti, Francesco Santini

11:45

INPUTS REDUCTION FOR MORE SPACE IN BITCOIN BLOCKS

Michal Zima

12:00

LUNCH

13:30

REVOKING RECORDS IN AN IMMUTABLE LEDGER

Konstantinos Karasavvas

14:00

PERFORMANCE CHARACTERIZATION OF HYPERLEDGER FABRIC

Arati Baliga, Nitesh Solanki, Shubham Verekar,
Pandurang Kamat, Siddhartha Chatterjee

14:30

A SCALE-OUT BLOCKCHAIN FOR VALUE
TRANSFER WITH SPONTANEOUS SHARDING

Zhijie Ren, Kelong Cong, Taico V. Aerts,
Bart. A. P. de Jonge, Alejandro F. Morais, Zekeriya Erkin

15:00

IDMOB: IOT DATA MARKETPLACE ON BLOCKCHAIN

Kazım Rifat Özyilmaz, Mehmet Doğan, Arda Yurdakul

15:30

SELECTIVE BLOCKCHAIN TRANSACTION
PRUNING AND STATE DERIVABILITY

Emanuel Palm, Olov Schelén, Ulf Bodin

16:00

DATA MINING FOR DETECTING BITCOIN PONZI SCHEMES

Massimo Bartoletti, Barbara Pes, Sergio Serusi

16:30

STAKE-BLEEDING ATTACKS ON PROOF-OF-STAKE BLOCKCHAINS

Peter Gaži, Aggelos Kiayias, Alexander Russell

17:00

TRANSACTION PROPAGATION ON PERMISSIONLESS
BLOCKCHAINS: INCENTIVE AND ROUTING MECHANISMS

Oguzhan Ersoy, Zhijie Ren, Zekeriya Erkin,
Reginald L. Lagendijk

17:30

DO YOU NEED BLOCKCHAIN?

Karl Wüst, Dr. Arthur Gervais

18:00

SMART CONTRACTS USING BLOCKLY

Tim Weingaertner, Jasmin Ettlin, Rahul Rao,
Patrick Suter, Philipp Dublanc



Crypto Valley
CONFERENCE
FRIDAY JUNE 22ND



Casino Theater Zug
Artherstrasse 2-4
6300 Zug

BUSINESS TRACK
AUDITORIUM

REGISTRATION AND RECEPTION	07:30
KEYNOTE Prof. Dr. Emin Gün Sirer - Cornell University	08:30
REGULAR SPEAKER Niklas Nikolajsen - Bitcoin Suisse AG	09:15
BREAK	09:30
PANEL DISCUSSION 3 BLOCKCHAIN BEYOND THE HYPE Nicolas Brand - Lakestar Vitimir Jevremovic - VR All Art Niklas Nikolajsen - Bitcoin Suisse AG Joel Reymont - CEO Emotiq Gareth Grobler - Merkleon Patrick Nicolet - CTO Capgemini Moderator: Elliott Gotkine	10:00
BLOCK 3 SMART CONTRACT SECURITY Loi Luu - CEO Kyber Network Reto Trinkler - Chairman Melonport Prof. Dr. William Buchanan - Napier University	10:30 11:00 11:30
LUNCH	12:00
BLOCK 4 IDENTITY MANAGEMENT Daniel Gasteiger - CEO Procvivis Vasily Suvorov - CTO Luxoft Jason Law - CTO Evernym	13:30 14:00 14:30
BREAK	15:00
BLOCK 5 SCALABILITY & MICROPAYMENTS Dr. Arthur Gervais - CEO Liquidity Dr. Christian Cachin - IBM Research Abdul Haseeb - Microsoft Yanislav Malahov - Founder Æternity	15:30 16:00 16:30 17:00
PITCH TOP 2 STARTUPS FROM BLOCKCHAIN CHALLENGE	17:35
CLOSING OF CONFERENCE Oliver Bussmann - President Crypto Valley Association	17:50
NETWORKING & DRINKS	18:00

CASINO
ZUG

ACADEMIA TRACK
HALL

09:45	OPENING Maxim Tsaryk, CEO ASK.fm
10:00	INTRADAY YIELD CURVES FOR HIGH-FREQUENCY TRADING AND SETTLEMENT Anton Golub, Lidan Grossmass, Ser-Huang Poon
10:40	CRYPTOMARKET DISCOUNTS Nicola Borri, Kirill Shakhnov
11:20	HOW INVESTIBLE IS BITCOIN? Sean Foley, Anne Haubo Dyhrberg
12:00	LUNCH
13:05	MARKET MICROSTRUCTURE AND ORDER BOOK DYNAMICS IN CRYPTOCURRENCY EXCHANGES Mate Puljiz, Stjepan Begusic, Zvonko Kostanjcar
13:45	PRICE EFFICIENCY IN BLOCKCHAIN-BASED MARKETS Nikolaus Hautsch, Christoph Scheuch, Stefan Voigt
14:35	INITIAL COIN OFFERING AND PLATFORM BUILDING Jiasun Li, William Mann
15:15	AN EQUILIBRIUM MODEL OF THE MARKET FOR BITCOIN MINING Julien Prat, Benjamin Walter
15:55	A MARKET-BASED APPROACH TO CENTRAL BANK DIGITAL CURRENCIES Tarik Roukny, Christoph Aymanns
16:30	CLOSING ACADEMIA TRACK
18:00	NETWORKING & DRINKS



Crypto Valley

CONFERENCE

SATELLITE EVENTS

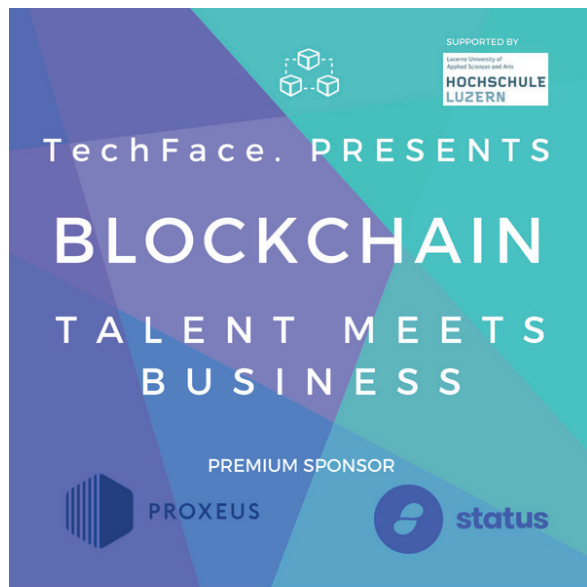
- | | |
|--|---|
| A GG6 TOWER & SKYLounge
General-Guisan-Strasse 6
6300 Zug | I ZYTTURM ALTSTADT
Kolinplatz 10
6300 Zug |
| B PARK HOTEL
Industriestrasse 14
6302 Zug | J SCHIFFSANLEGESTELLE
Landsgemeindeplatz
6300 Zug |
| C CITY GARDEN HOTEL
Metallstrasse 20
6302 Zug | K THEATER CASINO ENTRANCE
Meeting Point for Scooter Tour
and Stand-up Paddling |
| D RATHAUS ZUG
Fischmarkt
6300 Zug | L HOUSE OF WINES
Baarerstrasse 69
6300 Zug |
| E HOTEL OCHSEN
Kolinplatz 11
6300 Zug | M HUWYLERTURM
Kirchenstrasse
6300 Zug |
| F BURGBACHSAAL
Dorfstrasse 12
6300 Zug | N Crypto Valley Lab
Dammstrasse 16
6300 Zug |
| G SEEBAD SEELIKEN
Artherstrasse 2
6300 Zug | |
| H WHAT.DIGITAL
Sihlquai 125
8005 Zürich | |

The satellite events are a variety of side activities in locations in and around Zug. For conference participants they are free of charge, however you need to register. Details see following pages. Enjoy.



17:00 - 22:30

TechFace.



LOCATION
GG6 TOWER
General-Guisan-Strasse 6
6300 Zug

A

Do you want to work in the up and coming tech industry? Are you curious to know what job opportunities exist in Crypto Valley? Do you want to be part of the Blockchain ecosystem? Join us for an exciting Talent Matching Event on 20th of June 2018 during the Crypto Valley Conference in Zug!

We will invite startups and companies from the Crypto Valley looking for new talent in the tech area to introduce themselves and what they offer for employees.

WEDNESDAY JUNE 20TH

18:00 - 21:00

OPEN HOUSE



We invite you to visit our office for a networking event combined with a presentation of our lessons from some of the recent ICOs we have helped launched.

LOCATION
WHAT.DIGITAL
Sihlquai 125
8005 Zürich

H

These practical examples will show you how to gain traction in a crowded crowdsale marketplace and demonstrate some costly mistakes that most ICOs make.



19:00 - 22:00

REGEN NETWORK PRESENTS:
Blockchain for the Planet



The session will be split into two parts. The first hour of the event will be a panel of speakers discussing how blockchain technology can be used in service to ecosystem health and explore a few of the exciting projects in the space that could dramatically improve our approach to reversing climate change. The second hour will be a deeper

dive into the vision and approach of Regen Network and how the Regen Ledger and Ecological State Protocols are building a shared infrastructure upon which a broad array of environmental efforts can be built. These sessions will each be followed by a Q&A. Drinks and Snacks will be served.

LOCATION
HOTEL OCHSEN
Kolinplatz 11
6300 Zug



Ecological State Protocols

Ecological State Protocols built on top of Regen Ledger monitor on-the-ground conditions and generate trusted attestations about the health of ecosystems. The core set of Ecological State Protocols will be developed by working groups of scientists, ecologists, farmers, and community members, and will be open sourced.



REGEN
NETWORK



Urban trees

Even in cities, trees provide cleaner air, cooler temperatures, reduced flood risk, increased biodiversity and reduced stress levels. This protocol assists the protection of urban flora and is a tool to incentivize additional establishment.



Water quality

The quality of the earth's water is a critical determinant in species density and health of an ecosystem. This protocol will determine the quality of surface and groundwater through verifiable sensor input and satellite data.



Carbon Drawdown

The earth's soils are the most important carbon sink for the reduction of atmospheric CO2 levels. This protocol incentivises agricultural practices that mitigate climate change through the generation of carbon-rich top soil.



Endangered species

As of 2017, the IUCN reports over 25,000 threatened species. This protocol tracks and maps habitat for endangered species, predicts their movements and helps direct conservation efforts toward the most critical areas.



Pollinator density

Globally, 35% of food crop production depends on pollinators. To survive, bees need suitable nesting places and sufficient food nearby. Pollinator density can be predicted by mapping land use, nesting suitability and floral resources.



Grassland health

Grasslands cover approximately 3.5 billion ha of the earth's land area, or 70 percent of the global agricultural area. This protocol incentivizes rotational grazing and holistic management practices, restoring degraded grassland.

10:00 - 13:00

MME |||

ROUNDTABLE ON
UTILITY TOKEN

As part of the Crypto Valley Association (CVA) Conference, MME invites interested parties from the blockchain scene to its unique roundtable event: Around a dozen crypto lawyers from all over the world meet in Zug to openly discuss the classification of token. The speakers focus on the «utility token», its functionality stages and the inherent legal relevance. Participants are given the opportunity to interact in real time with legal experts and share their experiences from industry and technology.

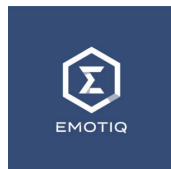
LOCATION
RATHAUS ZUG
Fischmarkt
6300 Zug

THURSDAY' JUNE 21ST

Jacek Czarnecki, MakerDAO (Poland)
 Joshua Ashley Klayman, Morrison & Foerster (USA)
 Daniel Resas, Schnittker Möllmann Partners (Germany)
 Nina Siedler, DWF (Germany)
 Rachel Paris, The Blockchain Boutique (New Zealand)
 Veronique Dalli, Dalli Advocates (Malta)
 Nigel Brahams, Collyer Bristow (Great Britain)
 Luka Müller, MME Legal | Tax | Compliance (Switzerland)
 Thomas Linder, MME Legal | Tax | Compliance (Switzerland)
 Andreas Glarner, MME Legal | Tax | Compliance (Switzerland)



14:00 - 20:30

53RD
SICTIC

INVESTOR DAY

WITH BLOCKCHAIN CHALLENGE

The Swiss ICT Investor Club (SICTIC) in partnership with the Crypto Valley Association invite innovative startups to participate and compete for the CVA Blockchain Awards with a total prize money of CHF 30'000, during the Crypto Valley Conference on Blockchain Technology.

The SICTIC Investor Day with Blockchain Challenge is a matchmaking event where blockchain startups pitch to find experienced investors and supporters. The event language is English. Questions from the audience are also taken in French and German (and translated if necessary). Selected startups compete for the CVA Blockchain Awards with a total prize money of CHF 30'000.

START UPS ON STAGE



SCHEDULE

- 13:00 – Registration, Coffee, and Networking
- 13:30 – Welcome and Introduction
- 13:45 – Keynote: Emotiq, The Next Generation Blockchain
- 14:00 – Blockchain Startups Pitch Round I: Later Stage
 - Adjoint Inc.
 - Alethna
 - Crypto Real Estate Ltd / SwissRealCoin
- 14:45 – Coffee Break
- 15:15 – Blockchain Startups Pitch Round II: Early Stage
 - Staxe
 - SmartCredit.io
 - Forseti
 - Hive Power
 - Gigsters App
- 16:30 – Coffee Break with Matchmaking
- 17:00 – Announcement of Crypto Valley Association Blockchain Challenge Winners
- 17:15 – ICO Spotlight
- 17:45 – Closing words from the organizer
- 18:00 – Networking Apéro
- 19:00 – Crypto Valley Conference Dinner for Academia Track and for Investor Sattelite

SELECTION & PRIZE MONEY

8 start-ups (4 early + 4 later stage) will be selected and invited to pitch at the conference. 20k Award for early-stage startups and 10k CVA Blockchain Award for later stage start-ups. Start-ups from all types of application domains of blockchain technology are welcome to participate.

SELECTION CRITERIA

The startup selection criteria for the competition should be a mix of best business potential, best implementation, best pitch and strongest teams.

AUDIENCE

The audience consists mainly of investors, entrepreneurs and blockchain experts.

JURY

The final pitching session, which will be judged by a panel of leading investors, blockchain experts, researchers, lawyers and entrepreneurs.

LOCATION

BURGBACHSAAL
Dorfstrasse 12
6300 Zug



17:00 - 19:00

THE SPIRIT OF
CRYPTOMOUNTAINROCKS



SAVE THE DATE
21 - 23 MARCH 2019
@DAVOS

THURSDAY' JUNE 21ST

Censorship has become a reality also in the western world. CryptoMountainRocks is an event-platform that supports the free debate about Blockchain and Cryptocurrencies and its impact on humanity.

And CryptoMountainRocks is not a conference! It is a lot of fun: skiing in the morning, talk battles in the afternoon and party in the night.

#CryptoMountainRocks2019 will be from 21 - 23 March in the beautiful Swiss mountains in Davos.

Drop by to meet with the shapers and shakers of #CryptoMountainRocks2019 and taste the flavor of freedom in a glass of wine.

Win a free ticket for #CryptoMountainRocks2019.

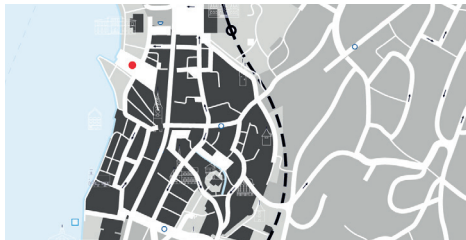
HOUSE OF WINES
Baarerstrasse 69
6300 Zug



19:00

REGULAR CONFERENCE DINNER

The following ticket types are eligible to join the conference dinner on our ships:
Regular Ticket, no Color Speaker Ticket, Purple Media Ticket, Blue



LOCATION
SCHIFFSANLEGESTELLE
Landsgemeindeplatz
6300 Zug



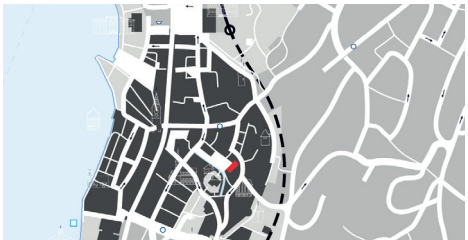
19:00

STUDENT CONFERENCE DINNER

Those with a student ticket (Red Color) are kindly asked
to join the conference dinner at the Burgbachsaal



LOCATION
BURGBACHSAAL
Dorfstrasse 12
6300 Zug



16:00 - 18:00

Exploring a Ledger Centric Economy

Capgemini invites you to an open discussion on what could make or break Blockchain & DLT adoption. Meet experts in our team at exclusive fireside chats on what differentiates digitally native disruption from IT legacies that power some of the world's largest enterprises, and of-course, everything in between as we explore the emergence of a ledger centric economy. All this at a carefully chosen location that has provided an environment of dialogue for centuries. We look forward to having you to Rathaus – Zug!

WTHURSDA' JUNE 21ST

19:00

LOCATION
RATHAUS ZUG
Fischmarkt
6300 Zug



Capgemini 

#LedgerCentricEconomy

Walk customer journeys with Capgemini in the new economy and discover opportunities to release untapped potential.

22:00

CRYPTO VALLEY PARTY



swisscom
Blockchain

LOCATION

GG6 TOWER SKYLOUNGE
General-Guisan-Strasse 6
6300 Zug



As part of the Crypto Valley Conference taking place on the 20th - 22nd of June 2018, Swisscom will be hosting the official afterparty on Thursday, June 21st.

Entrance is free for all Crypto Valley Conference participants with a valid conference pass. Come join us for a drink at the GG6 Skylounge where you can network with fellow conference participants and enjoy the evening views of Zug.



19:00 - 21:30

THURSDAY' JUNE 21ST
FRIDAY JUNE 22ND

OLD TOWN TOUR

As part of the Crypto Valley Conference taking place on the 20th - 22nd of June 2018, the Crypto Valley Association is offering the following free satellite recreational event for all conference pass holders:

A guided tour of the Old Town is the perfect way to learn about the main historical events, the highlights and the disasters during the city's history. Visit the distinctive Zyturm clock tower, the town hall with its Gothic Hall, the Gunpowder Tower, the Late Gothic St. Oswald's Church and the old ossuary. There are many surprises in store for you on this tour, and you will learn why life in the Old Town was once anything but attractive.

LOCATION

ZYTTURM ALTSTADT
Kolinplatz 10
6300 Zug



18:30 - 20:30

STAND UP PADDLING



LOCATION

CASINO ZUG ENTRANCE
Artherstrasse 2-4
6300 Zug

K



As part of the Crypto Valley Conference taking place on the 20th - 22nd of June 2018, the Crypto Valley Association is offering the following free satellite recreational event for all conference pass holders: On this guided tour, you will discover some of Zug's places of interest from the lake – standing on a paddling board. Participants are introduced to the art of stand-up paddling and at the same can enjoy sunset views from the lake. A minimum of 6 participants are required for this tour.

THURSDAY JUNE 21ST
FRIDAY JUNE 22ND

06:00 - 07:30 | 08:30 - 19:00

MORNING SWIM/ CHILL AREA



Enjoy an early morning swim on the Lake of Zug at Seebad Seeliken. The Seebad Seeliken is a popular bathing facility right in the heart of Zug. The Seeliken was founded as a public bathing establishment as early as 1882 - making it the most traditional seaside resort in the canton of Zug. Zug is famous far and wide for its spectacular sunsets, and the Seeliken with its west-facing location offers a perfect view over the wide lower lake basin and into the Alps.

LOCATION

SEEBAD SEELIKEN
Artherstrasse 2
6300 Zug

G

19:00 - 21:30

THURSDAY' JUNE 21ST
FRIDAY JUNE 22ND

ZUGERBERG SCOOTER TOUR



As part of the Crypto Valley Conference taking place on the 20th - 22nd of June 2018, the Crypto Valley Association is offering the following free satellite recreational event for all conference pass holders: Experience Zug's local mountain together, cruising down the valley with a scooter in front of a magnificent panorama. A guide will pick up guests at the Theater Casino Zug Bus Stop and will transport you by bus and cable car to Zugerberg. The 1.5 Hour tour goes from Zugerberg to Hoellgrotten and then back to Zug (Laufriedhofweg), very close to the main station. It's a great drive where you can enjoy the fantastic nature around Zug. From Laufriedhofweg, it is a 15 min walk back to the Casino Zug.

LOCATION

CASINO ZUG ENTRANCE
Artherstrasse 2-4
6300 Zug

K



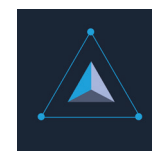
19:00 - 22:30

FRIDAY JUNE 22ND

THE ECONOMY OF ROBOTS

Airalab engineers will show you some possible scenarios of Ethereum and IPFS usage for Smart Cities and Industry 4.0 issues. We will address the topic of how to create values based on autonomous machines.

During the Economy of Robots Workshop, we will present several experiments such as the tokenization of negative externalities of human activity using drones that collect air pollution data.



LOCATION

CITY GARDEN HOTEL
Metallstrasse 20
6302 Zug



12:30 - 13:30

ICO INVESTMENTS: HOW TO AVOID THE BIGGEST TRAPS AND FIND THE RIGHT PROJECTS TO INVEST IN



Blockchain Valley Ventures & Smart Containers Group sharing their experience and insights.

Heinrich Zetlmayer, CEO of Blockchain Valley Ventures has seen hundreds of ICO pass his desk from an investor perspective and developed a sound evaluation process to pick the right ones.



SMART CONTAINERS

LOCATION
RATHAUS ZUG
Fischmarkt
6300 Zug



At the same time Richard Ettl, CEO of Smart Containers, a running ICO had to decide what sets his project apart from others and which arguments are relevant for investors. Witness a discussion between two experts from different sides of the table to get the full picture on how to separate good from bad projects and learn which elements to check before you decide to participate in an ICO.



THANK YOU!