

SUEID 2019


Swiss-U.S. Energy Innovation Days

Austin + San Antonio, Texas

October 6-9, 2019

PROGRAM AND SPEAKERS

VERSION AS OF AUGUST 24, 2019

 Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation



Swiss Federal Office of Energy SFOE

swissnex
san francisco 

 **SECO**
State Energy Conservation Office

SUNDAY, OCTOBER 6, 2019: AUSTIN

Location: Hotel Hyatt House Austin/Downtown, 901 Neches Street, Austin, TX

Time	Topic	Duration	Abstract
during the day	 Individual arrival of delegates and check-in		
18:00	 Welcome Reception SUEID 2019	120 min	The Welcome Reception provides an excellent opportunity to network, and get to know your fellow delegates. The Welcome Reception is open to all registered participants. Drinks and snacks will be served during the event.
20:00	End for the day		




MONDAY, OCTOBER 7, 2019: AUSTIN


08:30 – 16:30



Location: [University of Texas at Austin, Rowling Hall UTA, 300 W MARTIN LUTHER KING BLVD, AUSTIN, TX](#)



The urban challenge - Energy and climate footprints all over.

Moderation: tbd

Time	Topic	Duration	Abstract, remarks
08:00	 Bus transfer Bus transfer from Hyatt House Austin/Downtown to Rowling Hall UTA	30 min	The bus will leave at 08:00 a.m. from the Hotel Hyatt House Austin/Downtown . If you stay in another hotel, please make sure to be on time for boarding the bus (consider morning traffic).
08:30	 Networking Coffee	30 min	
09:00	Official Opening of the SUEID 2019 Benoit Revaz, Director Swiss Federal Office of Energy	5 min	
09:05	Welcome note Gioia Deucher, Director swissnex San Francisco	5 min	
09:10	Welcome note Dub Taylor, Director seco	5 min	
09:15	Keynote Kirk Watson, Texas State Senate (tbc)	15 min	
09:30	Panel: Balancing footprints and security of supply - The power of policy and innovation Moderator: Richard Stubbee Krish Sankaran, Radical Innovations Group AB Warren Lasher, Electric Reliability Council of Texas (ERCOT) Patrick Duemmler, Avenir Suisse	30 min	
10:00	 Networking Coffee	20 min	
10:20	Reimagining the California Dream; Advanced Community Energy systems development in California and beyond John Sarter, Sarter Construction & Design, Inc.	5 min	
10:25	New Guideline for Energy Efficiency in Historic Buildings	5 min	

	Janice K. Means, College of Architecture and Design, Lawrence Technological University		
10:30	One target for all. The 2000-Watt Society model for the City of Minneapolis René Sigg, Intep	5 min	
10:35	Improving America's Building Energy Codes Maria Ellingson, Energy Efficient Codes Coalition (EECC) at the Alliance to Save Energy	5 min	
10:40	Endogenous energy efficiency improvement of large-scale retrofit in the Swiss residential building stock Sergey Arzoyan, EPFL	5 min	
10:45	Lighthouse Project: Photovoltaic facade on an retrofit Building in Zurich Karl Viridén, Viridén + Partner AG	5 min	
10:50	Vacuum Insulating Glass and the Net Zero Energy Envelope Nick Bagatelos, Bagatelos Glass	5 min	
10:55	From spaceships to buildings: how sorbent technology removes CO2 and reduces energy consumption Marwa Zaatari, enVerid Systems	5 min	
11:00	Smart city, transportation, electrification (title tbc) Karl Popham, Austin Energy	5 min	
11:05	 Questions & discussion with speakers Moderator: tbd	15 min	
11:20	Austin Energy: Green Building Kurt Stogdill, Austin Energy	5 min	
11:25	Clean Energy at Houston Advanced Research Center (HARC) Gavin Dillingham, HARC	5 min	
11:30	Scaling up benefits of an "Ecoblock" in Oakland Melanie Gaillet-Tournier, EPFL	5 min	
11:35	Towards Sustainable Infrastructure Using A Bottom-up Approach Ellie Fini, Ira A. Fulton Schools of Engineering at Arizona State University	5 min	
11:40	Energy Valve – Ensuring Optimum Heat Transfer Efficiency Tom Daenzer, BELIMO Aircontrols (USA)	5 min	
11:45	Phase Change Dispersions; a new class of heat and cold transfer fluid	5 min	

	Ludger Fischer, Lucerne University of Applied Sciences and Arts - Engineering and Architecture		
11:50	Case study thermal grids CH and USA – How knowledge transfere leads to more effective projects Matthias Sulzer, Empa	10 min	
12:00	 Questions & discussion with speakers Moderator: tbd	20 min	
12:20	 Networking Lunch	70 min	
13:30	Site visit University of Texas at Austin UTA Introduction to site visit: Jim Walker, UTA Office of Sustainability	100 min	
15:10	Short Break	20 min	
15:30	Environmental impacts and energy use of built environments Rahman Azari, College of Architecture - Illinois Institute of Technology	5 min	
15:35	OffGridBox Kathryn Chelminski, The Graduate Institute Geneva	5 min	
15:40	Social behavior oriented information in the program SwissEnergy Patrick Kutschera, Swiss Federal Office of Energy	5 min	
15:45	Technology Alone Will Not Do It: Changing Human's Behavior Towards a More Sustainable Travel Behavior Markus Hackenfort, Zurich University of Applied Sciences, School of Applied Psychology	5 min	
15:50	Pecan Street Suzanne Russo, Pecan Street	5 min	
15:55	The concept of decentralized energy systems applying CHP / P2G Kurt Luescher, Implementation Force AG	5 min	
16:00	Using Internet-Connected Devices to Monitor the Health of the Power Grid Alan Meier, Lawrence Berkeley National Laboratory	5 min	
16:05	Renewable Lighting - Street Lighting, Parking, and Park Lighting Martin Brown, Colite	5 min	
16:10	How patterns of language use about energy issues develop across institutions, media, and society	5 min	


	Peter Stuecheli-Herlach, Zurich University of Applied Sciences, School of Applied Linguistics		
16:15	 Questions & discussion with speakers Moderator: tbd	15 min	
16:30	End of session and short break	10 min	
16:40	 Bus transfer to Impact Hub Monroe, 411 W. Monroe Street	30 min	




MONDAY, OCTOBER 7, 2019: STARTUP PITCH EVENING

17:10 – 20:45

Location: Impact Hub Monroe, [411 W. Monroe Street, Austin, TX](#)

Moderation: Richard Amato, UT Austin, Austin Technology Incubator

Time	Topic	Duration	Abstract
17:10	 Networking drinks	30 min	
17:40	Welcome and introduction Mitch Jacobson, T Austin, Austin Technology Incubator	5 min	
17:45	Swiss Pitch Philippe Bieri, Gilytics	5 min	
17:50	Swiss Pitch Fabian Krek, Adaptricity (tbc)	5 min	
17:55	Swiss Pitch Govinda Upadhyay, LEDsafari	5 min	
18:00	Swiss Pitch Alberto Mian, ExerGo Sàrl	5 min	
18:05	Swiss Pitch Justin Owen, Pexapark Ltd	5 min	
18:10	US Pitch Jackie Finn, VIA	5 min	
18:15	Further Pitches from Austin Startups (tbc)	45 min	

19:00	 Questions & discussion with speakers Moderator: Richard Amato	15 min	
19:15	 Networking Dinner	90 min	
20:45	 Bus transfer back to Hotel Hyatt House Austin/Downtown	30 min	
21:15	End for the day		



TUESDAY, OCTOBER 8, 2019: SAN ANTONIO



08:30 – 16:30




Location: [Southwest Research Institute, 6220 Culebra Rd, San Antonio, TX](#)





The beauty of decentralization: Shared responsibilities, shared profits.

Moderation: tbd

Time	Topic	Duration	Abstract
07:30	 Bus transfer from Hyatt House Austin/Downtown to Southwest Research Institute SwRI in San Antonio	90 min	The bus will leave at 07:30 a.m. from the Hotel Hyatt House Austin/Downtown . If you stay in another hotel, please make sure to be on time for boarding the bus (consider morning traffic). Important note: For access to the SwRI each attendee needs to register beforehand with full name, Citizenship, Company name and address.
09:00	 Networking Coffee	30 min	
09:30	Welcome and introduction Adam Hamilton, Southwest Research Institute (tbc)	10 min	
09:40	EPIcenter: propelling energy innovation and thought for our global future Kimberly Britton, EPIcenter	5 min	
09:45	Southwest Research Institute topic & speaker tbd	5 min	

09:50	Influencing the Bulk Power System Reserve by Dispatching Power Distribution Networks using Local Energy Storage Mario Paolone, EPFL	5 min	
09:55	Smart Cities and Smart Utilities, a collision worth watching Dale Pennington, Utiliworks Consulting	5 min	
10:00	The Coming Age of a Smart Grid and Smart Buildings Thomas Lawrence, Mechanical Engineering Program Lead, University of Georgia	5 min	
10:05	Energy Hub – Decentralized Energy Production and Storage Adrian Altenburger, Lucerne University of Applied Sciences and Arts - Engineering and Architecture	5 min	
10:10	Evaluating the impact of urban planning design patterns on transportation and building energy consumption Marco Miotti, MIT Institute for Data, Systems, and Society	5 min	
10:15	 Questions & discussion with speakers Moderator: tbd	20 min	
10:35	 Networking Coffee	25 min	
11:00	Site visit Southwest Research Institute	90 min	SwRI's extensive machinery program supports international clients with all aspects of turbomachinery design, development, testing, and failure analysis for the energy and aerospace markets. For the U.S. Department of Energy, staff members have spent several years exploring supercritical carbon dioxide and its potential as a more efficient thermal medium than the steam traditionally used in power plants. Research in this area has proven so successful that SwRI and its partners are now constructing a 10 MWe pilot power plant on SwRI's campus (currently under construction). To help address the challenge of reliable battery storage for industry, SwRI constructed the Energy Storage and Technology Center (ESTC). Since 2010, staff members have run more than 40,000 vehicle batteries through a variety of tests, including aging, vibration and shock, overcharge, extreme temperature, and more to help assure electric and hybrid vehicle manufacturers and consumers of the safety and dependability of the batteries powering their vehicles. These testing capabilities are also frequently applied to batteries used by the power industry. Since 2018, SwRI has also

			collaborated with the city of San Antonio's power utility, CPS Energy, on a utility-scale solar and battery storage project (nearing completion). Surrounding the ESTC is a 5-megawatt solar farm that will be operated by CPS Energy.
12:30	 Bus transfer from Southwest Research Institute to University of Texas at San Antonio Downtown Campus	30 min	
13:00	 Networking Lunch	60 min	
14:00	Welcome back and introduction Moderator (tbd)	5 min	
14:05	Developing a National Energy System Model Robert Leland, National Renewable Energy Laboratory	5 min	
14:10	IoT and good practices for water and energy savings on Municipal waterworks Bruno Storni, SUPSI and Swiss Engineering	5 min	
14:15	Innovations in the US Corporate Renewable Energy Landscape Christoph Grobbel, south pole	5 min	
14:20	CPS Energy Chris Eugster, CPS Energy	5 min	
14:25	Solar Forecasting with the UTSA SkyImager Walter Richardson, UTSA	5 min	
14:30	Title tbc Ted Weidenbach, Landis + Gyr	5 min	
14:35	Harvesting and Storing Solar Energy in Large Scales by Solar Chemistry Dunwei Wang, Department of Chemistry, Boston College	5 min	
14:40	Digital Energy Infrastructures: Planning & Operations Antonios Papaemmanouil, Lucerne University of Applied Sciences and Arts - Engineering and Architecture	5 min	
14:45	 Questions & discussion with speakers Moderator: tbc	15 min	

15:00	 Networking Coffee	30 min	
15:30	Welcome back and introduction to new session The Power Game: Politics, people, regulations and money Moderator (tbd)	5 min	
15:35	New Energy Nexus Kate Frucher, New Energy Nexus (formerly known as California Clean Energy Fund)	5 min	
15:40	New legal risks facing fossil fuel production Benjamin Franta, Stanford University	5 min	
15:45	Limiting plastic waste disaster: turning unrecyclable plastic to energy and chemicals Jean-Bernard Michel, Race for Water Foundation	5 min	
15:50	Trends for Swiss Investment in the US Energy Market Stewart Tipson, Swiss Business Hub	5 min	
15:55	Crowd Energy – a human powered paradigm shift Kirstin Stadelmann, international institute of management in technology - University of Fribourg	5 min	
16:00	First Climate Action & Adaption Plan City of San Antonio Doug Melnick, City of San Antonio Office of Sustainability	5 min	
16:05	 Questions & discussion with speakers Moderator: tbd	15 min	
16:20	Mini Break	10 min	
16:30	Site visit District cooling plant	115 min	
18:30	 Networking Dinner at the Boiler House, San Antonio	90 min	
20:00	 Bus transfer back to Hotel Hyatt House Austin/Downtown	90 min	
21:30	End for the day		






WEDNESDAY, OCTOBER 9, 2019: AUSTIN

9h15 – 13h30

Location: [Hotel Hyatt House Austin/Downtown, 901 Neches Street, Austin, TX](#) & [Whisper Valley](#)

Old guard – New guard & Whisper Valley

Moderation: tbd

Time	Topic	Duration	Abstract
before 09:00	 Check-Out Hotel		Please check-out in time.
09:15	Welcome and introduction Moderator (tbd)	5 min	
09:20	Panel: Old guard - New guard Varun Rai, University of Texas Christina Wuerthner, enersis Teddy Guenin, RhoAI xx (tbd)	40 min	
10:00	 Bus transfer from Hyatt House Downtown to Whisper Valley	30 min	
10:30	Introduction to Whisper Valley Axel Lerche, EcoSmart Solution LLC	30 min	
11:00	Tour Whisper Valley	60 min	
12:00	 Farewell Networking Lunch & Official Closing	90 min	
13:30	 Individual departure to Airport		<i>Whisper Valley is only 10 minutes from Austin-Bergstrom International Airport. For those of you who want to experience some more: Join our stunning optional site visit in the afternoon!</i>
13:30	 Bus transfer from Whisper Valley back to Austin to optional site-visit	30 min	

14:00	Optional Site-visit Seaholm EcoDistrict and the award winning Austin Central Library	120 min	
16:00	End of the SUEID 2019		