

PVinMotion 2024 Program

From 6th to 8th of March in Neuchatel, Switzerland

Wednesday 6th of March				
	Session	Affiliation	Speaker	title
Session am1 : 09h00-10h30	Session 1 : VIPV worldwide (chair: Antonin Faes)	Chairs	Antonin Faes, Nicolas Wyrsh, Lenneke Slooff, Martin Heinrich	Opening
		Lightyear	Urs Muntwyler	40 Years of Solar Cars
		DoE	Bonna Newmann	A VIPV Roadtrip
		Mizuho R&T	Scott McCalmont	Challenges and Opportunities for VIPV: A Perspective from the U.S. Department of Energy
			Keiichi Komoto	VIPV in Japan
Session am2 : 11h00-12h20	Session 2 : Yield modeling (chair: Kenji Araki)	TNO	Anna Carr	Solar Moves: Part 1, Modelling the impact of VIPV
		Uni Lisboa	Leonardo Ferreira	Citizen-science experimental campaign to assess the potential of solar cars
		Mizuho R&T	Keiichi Komoto	Possible contribution to reduction of CO2 emission by PV-Powered Passenger Vehicle in Japan
		AIST	Hidenori Mizuno	A Case Study of PV-Integrated EVs Applied in a Merchandise Delivery Service in Japan: Part 2 - Challenges in Actual Operation
		IES-UPM	Rubén Núñez Júdez	On the validation of a modelling tool for Vehicle Integrated PhotoVoltaics: reflected irradiance in urban environments
Session pm 1 : 13h30-14h50	Session 3 : Dynamic shading (chair: Rubén Núñez Júdez)	Uni Miyazaki	Kenji Araki	Testing and rating of VIPV: Scientific background
		IES-UPM	Luis Javier San José Gallego	Image Processing-based Methodology for Dynamic Shading Analysis & VIPV Performance Estimation
		LIST	Christian Braun	Assessment of local albedo impacts on the solar potential for VIPV applications: A simplified high-resolution GIS approach using 3D City Models in complex urban environments.
		Uni Ljubljana	Marko Jankovec	Solar Irradiance and PV Module Monitoring in Dynamic Environments
		PKNU	Jimin Hong	An Innovative 360 VR Camera-Based System for Advanced Parking Space Analysis of Solar Electric Vehicles
Session pm 2 : 15h15-16h15	Session 4 - Poster session		More than 13 posters to be presented (see below)	
Visits : 16h30-18h30	Visit CSEM/EPFL facilities			
Social Event : 19h00	Conference Diner at Café des Amis (Quai Robert-Comtesse 4, 2000 Neuchâtel)			

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Thursday 7th of March				
	Session	Affiliation	Speaker	title
Session am1 : 09h00-10h35	Session 5 : Cell & Module Technologies for VIPV (chair: Martin Heinrich)	XPX Corporation	Hiroki Sugimoto	Light-Weight and Smart VIPV Modules via Thin-Film Technology
		Fraunhofer-ISE	Marc Andre Schüller	Towards Fiber-Reinforced Front Sheets for Lightweight PV Modules in VIPV
		CSEM	Bénédicte Bonnet-Eymard	Tuning PV modules for vehicles
		Fraunhofer-ISE	Luis Eduardo Alanis	Thermal Effect of VIPV Modules in Refrigerated Trucks
		KU-Leuven	Bin Luo	Interconnection and Encapsulation Strategies for Reliability Improvement of Lightweight Photovoltaic Modules Towards Vehicleintegrated Applications
		Infinite Mobility	Moez Jomâa	Potential of Solar PV in Powering Cargo Bikes by Infinite Mobility
Session am2 : 11h00-12h20	Session 6 : VIPV Performance and Energy Yield measurements (chair: Ned Ekins-Daukes)	IES-UPM	F. Martín	Relative angular response characterization in VIPV for energy rating
		IES-UPM	Ricardo Moruno	Effect of diffuse irradiance on curved modules.
		CEA-INES	Bertrand Chambion	Experimental study of irradiance and temperature uniformity on passenger car roof
		Uni Miyazaki	Yasuyuki Ota	Outdoor evaluation of total cross tied Si module under driving conditions
Session pm 1 : 13h30-14h50	Session 7 : Industrial Session (chair: Bonna Newman)	Jülich	Evgenii Sovetkin	Light distribution on vehicles' bodies
		AGC	Loic Tous	VIPV production from the point of view of a glass roof manufacturer
		Toyota	Lenneke Slooff	Challenges of Perovskite solar cells (PSC) Technology for Mobility
		Simoldes	Julien Robin	PhotoVoltaic Automotive Body (PVAB) Project Outcome of 3 years of VIPV R&D industrial project
		Lightyear	Philippe Nivelle	Towards the development of a glass-free, cost-effective, reliable and impact compliant vehicle-integrated PV module packaging
Session pm 2 : 15h15-16h15	Session 8 - Panel discussion	OPES	Robert Händel	How to build a competitive VIPV production facility in Europe
		Moderator: Prof. Christophe Ballif	Panel including the top ranked professors and industrial speakers Is solar mobility only a dream or the real future?	
Visits 16h15 & Social Event	Visit SolarStratos in Payerne + Aperitif			

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Friday 8th of March				
	Session	Affiliation	Speaker	title
Session am1 : 09h00-10h35	Session 9 : V2X (chair: Nicolas Wyrsh)	Mobility Cooperative	Marco Piffaretti	Self consumption optimization vs. other flexibility uses in the "V2X Suisse" pilot project
		Virtual Vehicle Research	Judy Jalkh	Energy harvesting potential for 3 EVs equipped with PV for the area of Graz in Austria
		EPFL PV-Lab	Noémie Jeannin	Mapping the potential of electric vehicles as flexibility set for solar energy Europe
		Planair	Mathieu Boccard	SunnYparc - Harmonious integration of renewable energies and electric mobility
		Soleva	Curdin Wuethrich	Soleva – A journey to sustainable travel
FreeSuns	John Morello	User feedback about E-mobility, Solar roof and battery storage for an individual house		
Session am2 : 11h00-12h35	Session 10 : V2X & Grid Support (chair: Lenneke Slooff)	SFOE	Luca Castiglioni	The convergence of PV and electric mobility: V2G
		TNO	Omar Usmani	Local grid congestion reduction from Vehicle-Integrated Photovoltaics
		UAS - HES-SO	David Wannier	How could the electrification of the mobility, and V2X in particular, mitigate the electricity shortage?
		tiko Energy Solutions	Aby Chacko	Experience with flexibility in the V2X Suisse project
		Group E	Peter Cuony	A DSO strategy for EV integration
SENE	Marc-H. Schaffner	Buildings as energy hubs : a vision for the canton of Neuchâtel		
Session pm 1 : 13h45-14h45	Session 11 - Panel discussion	Moderator: Andreas Hutter	Panel including the full value chain for V2X and Grid support How to make V2X helping the energy transition ?	
Session pm 2 : 15h15-16h00	Session 12 : Conference Closure	CSEM & EPFL	Prof Christophe Ballif Antonin Faes, Nicolas	Bright Perspective for Solar Energy
		Conference chairs	Wyrsh, Lenneke Slooff, Martin Heinrich	Wrap-up, Closure & Announcement of the next PVinMotion

PVinMotion 2024 Poster Session

Wed 6th at 15h15

	Affiliation	Presenter	Title
List of Posters	CEA-INES	Bertrand Chambion	Influence of electrical architecture losses on VIPV solutions performances for passenger cars
	Uni Miyazaki	Kensuke Nishioka	PV on HAPS (High Altitude Platform Station): PV modeling
	Uni Miyazaki	Kenji Araki	Optimum Clustering of VIPV Strings: Statistical and Probability Approach
		Urs Muntwyler	VIPV Business Plan Task 17
	Uni Lisboa	Miguel Centeno Brito	Assessment of the potential of solar urban buses in different geographies
	PCCL	Nikolina Pervan	Honeycomb structures as backsheets for light weight PV modules
	TNO	Oguzhan Apaydin	Next Steps in Manufacturing High-Yield, Low-Cost, Lightweight VIPV Components
	Lightyear	Philippe Nivelles	Solar-based replacement for car hoods: design principles and optimization
	Uni Miyazaki	Kenji Araki	PV on Heavy Duty Vehicles (HDVs) project in Japan
	EPFL	Pauline Boillat	Fabrication, Characterization and Simulation of Lightweight Composite Sandwich PV Modules Integrated to an Electrical Solar Van
	TNO	Sanne van den Broek	Shading model for VIPV
	HSLU	Roger Buser	E-Ducato with PV
	UNSW	Ned Ekins-Daukes	Pathways to low-cost III-V photovoltaic solar cells

PVinMotion 2024 Social Events

Book the weekend after the conference: <https://www.pvinmotion-conference.com/program/social-event>