Programm SiliconFOREST 2025

Stand Januar 2025

Sonntag, 23.2.2025

	ab 16:00			Abholung vom Bahnhof Altglashütten/Falkau (bitte anmelden)
	18:00			Abendessen und „Welcome Reception“ **:-)**

Montag, 24.2.2025 (Vormittag)

	8:15 – 9:00			Frühstück
Solarzellen-technologie	9:00 – 9:25	Sebastian Smits	*TU Delft*	Localized passivating contacts for high-efficiency silicon heterojunction solar cells
	9:25 – 9:50	Udo Römer	*ISFH, Hameln*	Highly efficient IBC solar cells using selective laser ablation
	9:50 – 10:15	Kerem Artuk	*EPFL, Neuchatel*	Addressing the challenges in perovskite-silicon-based triple junction solar cells with enhanced optoelectronic design
	10:15 – 10:35			Kaffeepause
Pero-Si Tandemsolarzellen	10:35 – 11:00	Francisco Peña-Camargo	*HZB, Berlin*	Solution processed monolithic two-terminal perovskite/silicon tandems
	11:00 – 11:25	Tom Burgard	*Uni Konstanz*	Lead Iodide by APCVD for silicon-perovskite tandem solar cells
	11:25 – 11:50	Matthew Leyden	*HZB, Berlin*	Perovskite-silicon tandem solar cell by co-evaporation of organo-lead-halide perovskite

Programm SiliconFOREST 2025

Stand Januar 2025

Montag, 24.2.2025 (Nachmittag)

	12:00 – 13:00			Mittagessen
Metallisierung	14:00 – 14:25	Sebastian Junge	*ISFH, Hameln*	Silver-free silicon solar cells with poly-Si-on-oxide contacts
	14:25 – 14:50	Justus Carstens	*isc, Konstanz*	Results on CuTOPCon
	14:50 – 15:40			Spezialkaffeepause
Modultechnologie	15:40 – 16:20	Derya Güldali, Leonhard Bock, Daniel Joseph	*ISE, Freiburg*	Let's join forces: How to interconnect your highly efficient solar cells
	16:20 – 16:45	Raphael Shanmugam	*isc, Konstanz*	Flexible module roboter in the module process development
	16:45 – 17:10	Malte Brinkmann	*ISFH, Hameln*	Ultrasonic tinning of aluminium for silver- and lead-free cell interconnection
	18:00 – 19:00			Abendessen
	20:00 – 20:45	Uli Paetzold	*KIT, Karlsruhe*	Scalable Fabrication Techniques and In-situ Process Control for Perovskite-based Tandem Photovoltaics

Programm SiliconFOREST 2025

Stand Januar 2025

Dienstag, 25.2.2025

	8:15 – 9:00			Frühstück
Material und Defekte	9:00 – 9:25	Fabian Thome	*ISE, Freiburg*	Understanding Temporary Recovery: The Key to Modelling LeTID in Gallium-Doped Silicon
	9:25 – 9:50	Daniel Beck	*ISFH, Hameln*	Extraction of recombination parameters from injection dependent lifetime curves using the elasticity
	9:50 – 10:15	Joshua Kamphues	*Uni Konstanz*	Impact of LeTID in industrial P- and Sb-containing n-type Cz-Si with melt recharging
	10:15 – 10:30			Kaffeepause
Charakterisierung und Simulation	10:30 – 10:55	David Hinken	*ISFH, Hameln*	LED-based multi-spectra approach for spectral responsivity measurements
	10:55 – 11:30	Julian Behrendt	*ISE, Freiburg*	From Optical Images to Finger Resistance: Machine Learning for Quality Inspection of Printed Structures
	11:30 – 11:55	Chencheng Xu	*ISFH, Hameln*	New optical model for polycrystalline semiconductors
	12:00 – 13:00			Mittagessen
	14:00 – 17:30			Wanderung
	18:00 – 19:00			Abendessen

Programm SiliconFOREST 2025

Stand Januar 2025

Mittwoch, 26.2.2025

	8:15 – 9:30			Frühstück und Taschen packen
Kanten-passivierung	9:30 – 9:55	Alexander Göbel	*ISE, Freiburg*	Edge Recombination in cut solar cells: Characterization and countermeasure
	9:55 – 10:20	David Bäurle	*Uni Konstanz*	Approaches to reduce the impact of edge recombination in Si lifetime samples with emitter
	10:20 – 10:50			Kaffeepause
Silizium Bottomzellen	10:50 – 11:15	Julien Hurni	*EPFL, Schweiz*	Optimization of TOPCon-based Bottom Cells for High Open-Circuit Voltage (>2V) Perovskite/Silicon Tandems
	11:15 – 11:40	Mario Hanser	*ISE, Freiburg*	Integration of TOPCon bottom cells into perovskite/silicon tandem devices
	12:00 – 13:00			Mittagessen
				Abreise