Programm SiliconFOREST 2022

Stand Oktober 2022

Sonntag, 09.10.2022

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

Montag, 10.10.2022 (Vormittag)

	8:15 – 9:00			Frühstück
Wasserstoff & Degradation	9:00 – 9:25	Jan Schmidt	*ISFH, Hameln*	Das große Wissenschaftsquiz (Teil 1)
	9:25 – 9:50	Jochen Simon	*UKN, Konstanz*	Study on the Dissociation of GaH Pairs in crystalline Silicon during illuminated Annealing
	9:50 – 10:05			Kaffeepause
Degradatoin	10:05 – 10:30	Melanie Mehler	*UKN, Konstanz*	Einfluss von Verunreinigungen auf die LeTID-Kinetik
	10:30 – 10:55	Benjamin Hammann	*ISE, Freiburg*	Hydrogen complexes present after different firing profiles and their influence on LeTID degradation
	10:55 – 11:20	Michael Winter	*ISFH, Hameln*	Degradation und Regeneration in Ga-dotierten Cz-Si-Solarzellen
	11:20 – 11:45	August Weber	*TUBA, Freiberg*	Insights into the differences of light- and carrier-induced degradation for LeTID-sensitive PERC solar cells

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Montag, 10.10.2022 (Nachmittag)

	12:00 – 13:00			Mittagessen
Module und Material	14:00 – 14:25	Clara Rittmann	*ISE, Freiburg*	Epitaxially Grown p-Type Silicon Wafers Ready for Cell Efficiencies Exceeding 25 %
	14:25 – 14:50	Nils Klasen	*ISE, Freiburg*	Shading resilience and how shingle solar modules offer a great solution
	14:50 – 15:30			Spezialkaffeepause
Siliziumbasierte Tandemsolarzellen	15:30 – 15:55	Jonas Kern	*TUBA, Freiberg*	Importance of the buffer layer properties for the performance of perovskite/silicon tandem solar cells
	15:55 – 16:20	Philipp Wagner	*HZB, Berlin*	Monolithic two and three-terminal Perovskite/Silicon tandem solar cells: Sub-cell integration and device performance aspects
	16:20 – 16:45	Anna Münzer	*ISE, Freiburg*	Photonic Thin Film Annealing Processes for Solar Cells
	18:00 – 19:00			Abendessen
	20:00 – 20:45	Bernd Stannowski	*HZB, Berlin*	Tandemsolarzellenentwicklung am HZB

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Dienstag, 11.10.2022

	8:15 – 9:00			Frühstück
Charakterisierung & Simulation	9:00 – 9:25	Philip Kunze	*ISE, Freiburg*	Contactless Inline *IV*-Measurement of Solar Cells Using an Empirical Model
	9:25 – 9:50	Malte Brinkmann	*ISFH, Hameln*	Impact of the contacting scheme on I-V measurements of metallization-free silicon HJT solar cells
	9:50 – 10:15	Alexandra Wörnhör	*ISE, Freiburg*	A Self-consistent hybrid model connects empirical and optical models for fast non-destructive inline characterization of thin, porous Silicon Layers
	10:15 – 10:30			Kaffeepause
Oberflächen-passivierung	10:30 – 10:55	Mathias Bories	*ISE, Freiburg*	Plasma-Assisted N_2O Oxidation (PANO) in an industrial direct plasma reactor for tunnel oxide passivating contacts
	10:55 – 11:20	Franz Haug	*EPFL, Lausanne*	Assessing the surface recombination velocity of the SiOx/Si interface
	11:20 – 11:45	Sarah Sanz-Alonso	*UKN, Konstanz*	Einfluss der AlO_x Abscheidetemperatur auf den Passiviermechanismus von AlO_x/SiN_y:H Stapeln
	12:00 – 13:00			Mittagessen
	14:00 – 17:30			Wanderung
	18:00 – 19:00			Abendessen

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Mittwoch, 12.10.2022

	8:15 – 9:15			Frühstück + Koffer packen
Metallisierung	9:15 – 9:40	Katharina Gensowski	*ISE, Freiburg*	Parallel Dispensing for Solar Cell Metallization - Application of Low-Temperature Curing Ag Pastes onto SHJ and CIGS Substrates
	9:40 – 10:05	Raphael Glatthaar	*UKN, Konstanz*	Metallisierung von passivierenden Kontakten mittels Siebdruck
	10:05 – 10:20			Kaffeepause
Passivierende Kontakte	10:20 – 10:45	Michael Rienäcker	*ISFH, Hameln*	Selektivität von Solarzellenkontakten
	10:45 – 11:10	Lasse Nasebandt	*ISFH, Hameln*	Sputtered phosphorus-doped poly-Si on oxide contacts for screen-printed Si solar cells
	11:10 – 11:35	Saman Sharbaf	*ISC, Konstanz*	Laser process for local p^+ poly-Si passivated contacts
	12:00 – 13:00			Mittagessen
				Abreise