

HERCULES

project workshop

Hosted by: Helmholtz-Zentrum Berlin

Agenda and directions

Venue

Monday, 10 Oct - WISTA Centre, Rudower Chaussee 17, 12489 Berlin

Tuesday, 11 Oct - HZB building 13.10, Kekuléstr. 7, 12489 Berlin

Agenda

Monday, 10 October 2016 – Joint Foresight & HERCULES Workshop

09:00	Welcome
	Overview Talks (Bunsensaal, WISTA Centre)
09:15	Global Energy Challenge, Neal Armstrong , <i>University of Arizona, USA</i>
09:45	Solar Fuels, Roel van de Krol , <i>HZB, DE</i>
10:15	Photovoltaics, Christoph Brabec , <i>Universität Erlangen, FAU, DE</i>
10:45	Coffee Break
11:15	Energy Storage, Peter Wasserscheid , <i>Universität Erlangen, FAU, DE</i>
11:45	Efficient Use of Energy, Emil List-Kratochvil , <i>Humboldt Universität zu Berlin, DE</i>
12:15	Welcome Address, Anke Kaysser-Pyzalla , <i>HZB, DE</i>
12:30	Lunch
	Photovoltaics Session (Bunsensaal, WISTA Centre)
13:30	David Cahen , <i>Weizmann Institute of Science, IL</i>
14:00	Norbert Koch , <i>Humboldt Universität zu Berlin, DE</i>
14:30	Wim Sinke , <i>University of Amsterdam, NL</i>
15:00	Eva Unger , <i>University of Lund, SE</i>
15:30	Ideas, Suggestions and Requirements concerning beam, instrumentation and sample environment
15:45	Coffee Break
	From Research to Products Session (Bunsensaal, WISTA Centre)
16:15	Martin Hermle , <i>Fraunhofer ISE, DE</i>
16:45	Armin Froitzheim , <i>SolarWorld Industries Thüringen GmbH, DE</i>
17:15	Stefan Koller , <i>VARTA Micro Innovation, AT</i>
17:45	Antonio Facchetti , <i>Polyera, USA</i>
18:15	Rutger Schlatmann , <i>PVcomB, DE</i>
18:45	Ideas, Suggestions and Requirements concerning beam, instrumentation and sample environment
19:00	End of the Day

Tuesday, 10 October 2016 – HERCULES Workshop

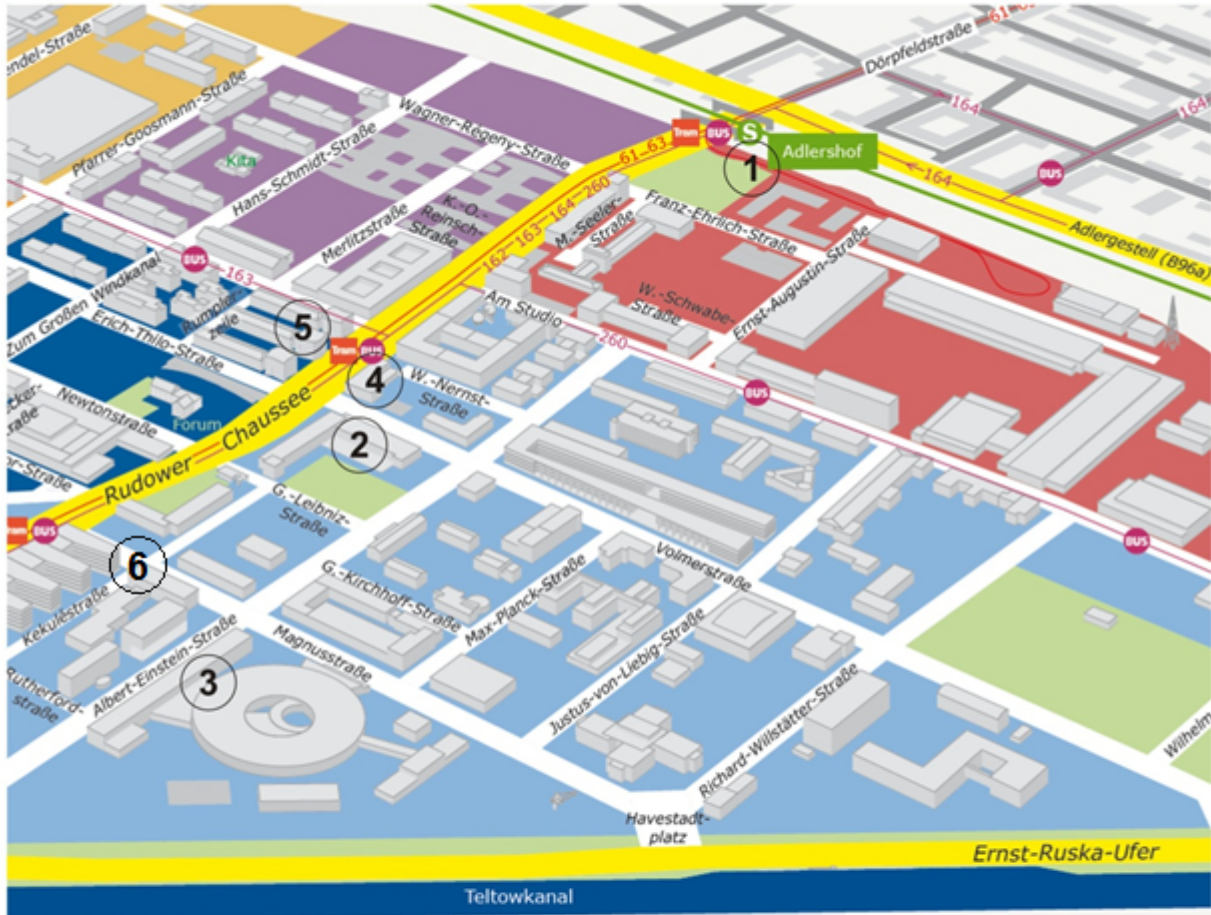
9:00	Welcome Delfina Munoz, INES · Lars Korte & Bernd Rech, Helmholtz-Zentrum Berlin
	High Temperature/Diffused Junction Cells; Heterojunction Cells (HZB Building 13.10 - Lecture Room "Kino")
9:15	Low cost IBC cell processes for industrial application Valentin Mihailetschi , ISC Konstanz, Germany
9:45	Production of Bifacial Silicon Heterojunction Technology that Improves System LCOE Bo Li , Sunpreme, China
10:15	Coffee break
10:40	Towards 25% efficient silicon IBC solar cells with POLO junctions Agnes Merkle , ISFH, Hamelin, Germany
11:10	Cost effective n-type CZ silicon production Yu Hu , NorSun, Norway
11:40	Lunch break + poster session
	Heterojunction Cells and Modules (HZB Building 13.10 - Lecture Room "Kino")
13:15	Crystalline silicon heterojunction solar cell exceeding 26% conversion efficiency Kunta Yoshikawa , Kaneka, Japan
13:45	Silicon Heterojunction Research on Pilot Line Level Samuel Harrison , INES, France
14:15	Silicon Heterojunction Metallization and Modules Approaches Antonin Faes , CSEM, Switzerland
14:45	Coffee break
	Upscaling, Modules & Systems (HZB Building 13.10 - Lecture Room "Kino")
15:15	Results from MeyerBurger's cell & module pilot lines Heiko Mehlich , MeyerBurger
15:40	Back Junction Back Contact Module integration Andreas Halm , ISC Konstanz, Germany
16:05	Metal Wrap through Silicon Heterojunction Solar Cells - A Simple Technology Integrating High Performance Cell and Module Technologies Jan Kroon , ECN, Netherlands
16:30	Modeling of Single-axis tracking, applications to HET and IBC modules Julien Dupuis , EDF, France
16:55	Break
	Future Concepts (HZB Building 13.10 - Lecture Room "Kino")
17:00	Perovskite/Silicon Tandem Cells Daniel Kirk , Oxford PV, United Kingdom
17:25	Strategies for ultimate current generation in silicon heterojunction solar cells Andrea Tomasi , EPFL, Switzerland
17:50	General Discussion & Summary
18:00	End of the Workshop
	Visit of the BESSY II Experimental Hall

Workshop venue

The HERCULES workshop takes place in different buildings on the science campus Berlin Adlershof.

- Monday 10 Oct** - **WISTA Centre**, Rudower Chaussee 17, 12489 Berlin
Tuesday, 11 Oct - **Helmholtz-Zentrum Berlin, building 13.8, lecture room "Kino"**, Kekuléstr. 7, 12489 Berlin

Helmholtz-Zentrum Berlin Wilhelm-Conrad-Röntgen Campus Adlershof



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|---|---|-----------------|
| 1 | Train Station Adlershof | Hotels: |
| 2 | WISTA Centre: Registration 10th of October | 4 Dorint |
| 3 | HZB, BESSY II: Foresight Workshop, 11 October | 5 Airport Hotel |
| 6 | HZB, Building 13.10: HERCULES Workshop, 11 October | |

Directions to campus Berlin Adlershof

Arrival by plane at Tegel Airport (TXL): Take the bus TXL to Hauptbahnhof, then follow the directions “arrival by train” below. Travel time ~1h30 min. Ticket for zones AB required.

Arrival by plane at Schönefeld Airport (SXF): Walk to the S-Bahn station Schönefeld (~10 min), then take S9 direction Pankow. Get off at S Adlershof and walk (~10min) or use Tram 60/63 direction Adlershof, Karl-Ziegler-Str. Get off at Walther-Nernst-Str. (1 stop) to get to WISTA Centre on Monday, or at Magnusstr. (2 stops) to get to BESSY II etc. on Tuesday.

Travel time ~ 30min, ticket for zones BC required.

Note: There are some ticket vending machines for the S-Bahn already in the airport terminal. During peak times, you can try to buy a ticket (Zones BC to Adlershof, or ABC to the city center) already there, since there can be long queues at the vending machines in the S-Bahn station.

Arrival by Train: After arriving at Berlin Hauptbahnhof (main station) take S-Bahn (local train) S5/S7/S75 direction Strausberg Nord / Ahrensfelde / ..., get off at S Ostkreuz, go up the stairs to the upper level and take S9 direction Schönefeld or S8/S85 direction Grünau. Get off at S Adlershof and follow the directions above. Travel time ~ 1h, ticket for zones AB required.

See http://www.helmholtz-berlin.de/zentrum/kontakt/standort/wegbeschreibung-ah/index_en.html for detailed instructions.