

UNIVERSITÄT HOHENHEIM

INSTITUT FÜR AGRARTECHNIK
Agrartechnik in den Tropen und Subtropen



International DAAD-Alumni Summer School

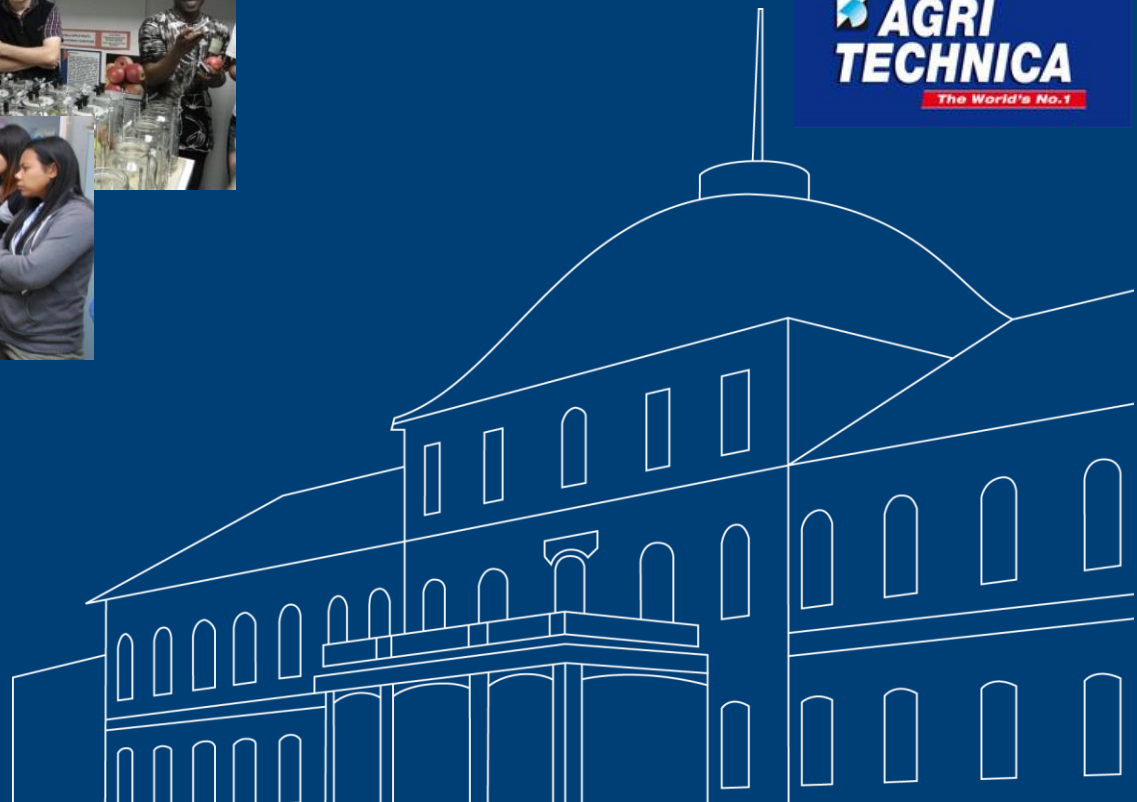
**Sustainable provision of rural renewable energy
with focus on financially viable solutions in developing countries**

University of Hohenheim 04. - 15. November 2013

SCIENCES EXCHANGE



**AGRI
TECHNICA**
The World's No.1

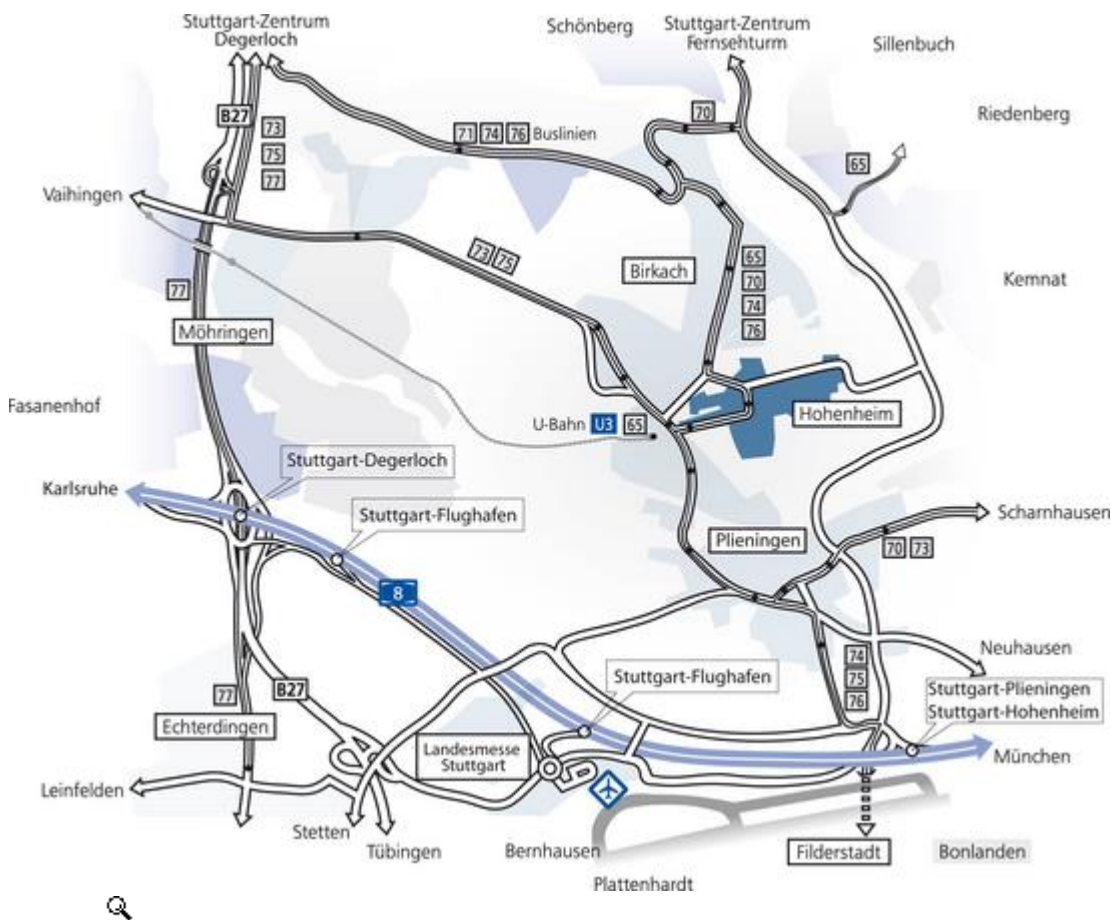


DAAD

Deutscher Akademischer Austausch Dienst
German Academic Exchange Service

Location

The UniversitätHohenheim is located to the south of the city of Stuttgart, directly next to the airport and the new trade fair centre. The university is ca. 10 minutes away from the Stuttgart city centre and can be reached within 30 minutes by means of public transport.



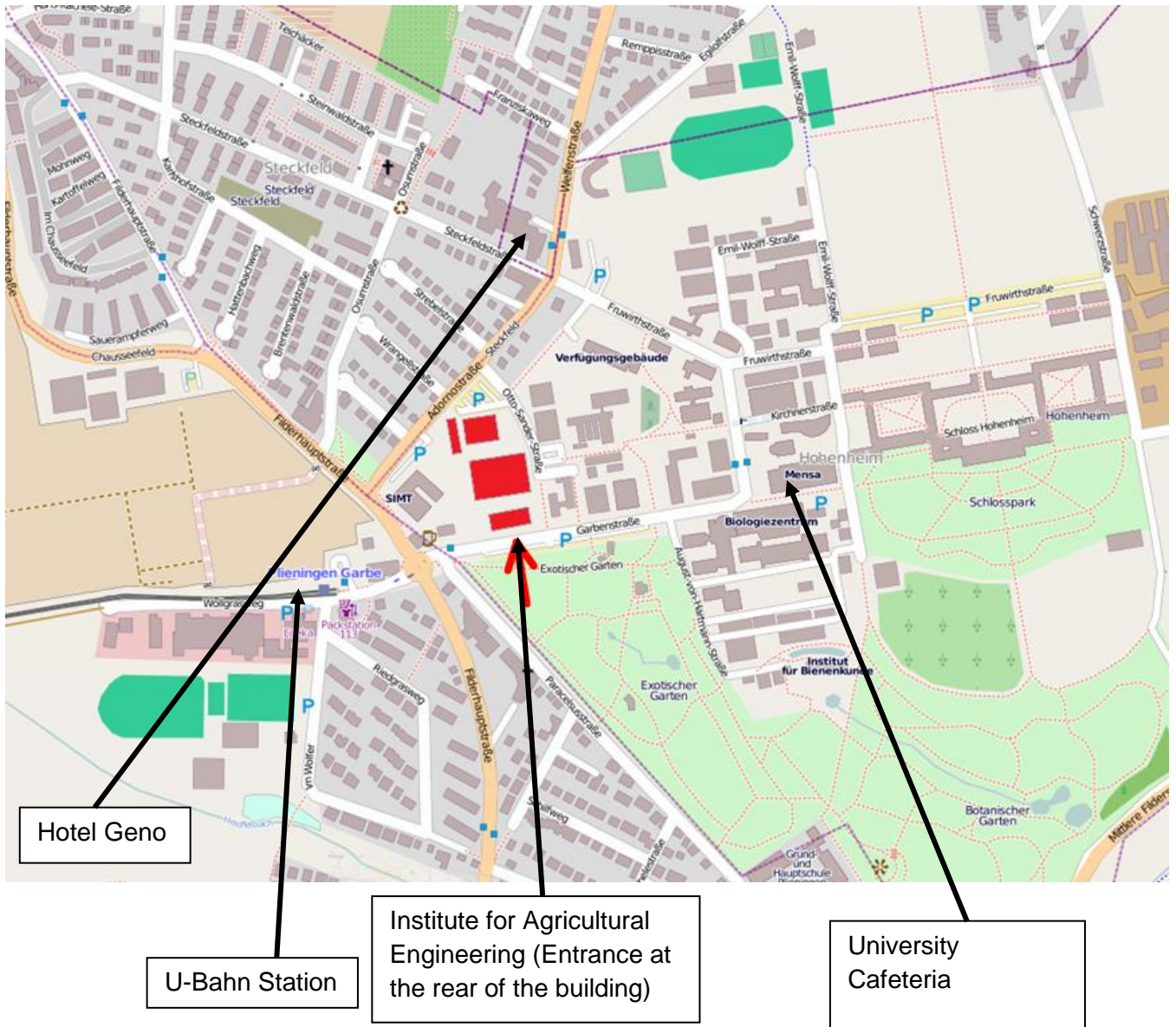
How to get there

Public transport from the main railway station in Stuttgart: Light rail U7 (underground station) Direction Ostfildern to Ruhbank (TV tower), then change to city bus no. 70 direction Plieningen as far as UniversitätHohenheim.

Or alternatively: U5 or U6 (underground station) direction Leinfelden or Möhringen to Möhringen railway station, then change to the U3 direction Plieningen to PlieningenGarbe (last station).

Taxi from Stuttgart main railway station: Costs ca. 20-25 Euros. Duration: ca. 25 min.

Campus Plan – University of Hohenheim



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Date	Su 03/11/2011	Mo 04/11/2011	Tu 05/11/2011	We 06/11/2011	Th 07/11/2011	Fr 08/11/2011	Sa 09/11/2011	Su 10/11/2011	Mo 11/11/2011	Tu 12/11/2011	We 13/11/2011	Th 14/11/2011	Fr 15/11/2011
Topic		Welcoming	Biogas	Solar Thermal	Biomass	Solar PV	Energy Villages	Social Business	DAAD		Agritechnica		
8:30		Registration	Workshop: Biogas Technology - Basics K. Pütz	Visit at ITW - University of Stuttgart	4 Presentations about postharvest processing techniques and farming in Uganda, China, Thailand and India	Stuttgart- Freiburg Trip	VISIT TO: Black Forest Community that Exports Electricity	Presentation and Discussion with Social Business Experts (Freiburg)	Freiburg- Hannover Trip				
9:00		Welcome Breakfast		Workshop: Solar thermal energy.	Coffe break								
9:30		Opening Session Prof. Joachim Müller	Coffe break	Visit to the labs and solar simulators	Workshop: Plant Oil - Basics								
10:00		Presentation of Summerschool Program and Goal	Biogas activities in Latin America, Serbia and Indonesia	3 PV applications in Egypt, Jordan and India for Rural electrification, heating and cooling systems	Visit to Laboratory: Oil pressing Stove testing								
10:30		Round of introductions											
11:00			Visit of Biogas Test Plants and Biogas Laboratory										
11:30													
12:00		Energypedia Presentation											
12:30		Lunch	Lunch	Lunch	Lunch	Lunch	The solar housing estate	Lunch					
13:00													
13:30													
14:00		Social Business Workshop	Biogas as Social Business in Dev. Countries	Workshop: Solar Drying Dr. Esper / Dr. Nagle			Energie Plus@ houses	Discussion and Presentation of Final Concepts					
14:30	Arrival	Managers without Borders	Energy Supply Concepts: Organization / Groups form	Solar Drying in Thailand and Philippines	Energy Supply Concepts: calculations framework and business conditions		Dreisam River - Hydropower and renaturation						
15:00				Visit to solar dryers prototypes									
15:30													
16:00		Institute for agricultural engineering Seminar: Sensor based robotic systems	Coffe break	Coffe break									
16:30		Get together with Colleagues of the institute for agricultural engineering	Definition of standards and Goals	Energy Supply Concepts: Develop of case Scenarios	Discussion and Presentation of Results								
17:00			Wrap-up	Wrap-up	Wrap-up								
17:30													
18:00													
18:30			Voluntary Presentations Round	Get together Stuttgart center	(Stuttgart-Hohenheim)								
19:00	Stuttgart												
19:30													

Yellow: Presentation sessions
Green: Participative sessions
Orange: Excursions

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Monday 04.11.2013

08:30	Registration
09:00	Welcome Breakfast
09:30	Welcome Address Prof. Dr. Joachim Müller. Agricultural Engineering in the Tropics and Subtropics
10:00	Presentation of Summerschool Program and Goals Introduction of participants
12:00	Energypedia Presentation Fungai Cecilia Sandamu energypedia - connecting knowledge
12:30	Lunch
14:00	Social Business Workshop Managers without Borders
16:00	Seminar Institute for Agricultural Engineering: Sensor based robotic systems
17:30	Get together with Colleagues of the Institute of Agricultural Engineering

Tuesday 05.11.2013

08:30	Biogas Technology -Basics Katrin Pütz (Agricultural Engineering in the Tropics and Subtropics)
10:00	Coffee Break
10:30	How to sustainable finance and maintain biogas plants working in the field in order to achieve a critic mass for a healthy market development M. Pino (Chile)
10:50	Biogas as an alternative energy from processing of livestock waste E. Susanti (Indonesia)
11:10	Biogas technology in Vojvodina – potentials, opportunities and barriers D. Datkov (Serbia)
11:30	Visit of Biogas Test Plants and Biogas Laboratory
12:30	Lunch
14:00	Biogas as Social Business in Dev. Countries
15:00	Energy Supply Concepts: Organization / Groups form
16:00	Coffee Break
16:30	Definition of standards and goals
17:30	Wrap-up
18:00	Voluntary Presentations Round

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Wednesday 06.11.2013

08:30	Visit: Institute of Thermodynamics and Thermal Engineering - University of Stuttgart Workshop in Solar thermal energy and Visit to the labs and Solar Simulators P. Kofler (University of Stuttgart)
11:30	Economic viability of solar PV applications Dr. Odeh (Jordan)
11:45	Tanweer el Heiz- a solar rural electrification project L. Kenawy (Egypt)
12:00	Rural electrification strategies and challenges M. Tebusabwa (Uganda)
12:15	Battery less refrigerator and solar PV based heating system D. Boruah (India)
12:30	Lunch
14:00	Solar tunnel dryer: Development and technology transfer examples Dr. Esper(Innotech)
14:30	Parabolic solar greenhouse dryer: Development and technology transfer examples Prof. Dr. Janjay (Thailand)
15:00	Solar bubble dryer for grain crops Dr. Nagle (Agricultural Engineering in the Tropics and Subtropics)
15:15	Polycarbonate materials for solar drying Dr. Ralf Busch
15:30	Solar Dryers prototypes at university of Hohenheim Dr. Nagle(Agricultural Engineering in the Tropics and Subtropics)
16:00	Coffee Break
16:30	Energy Supply Concepts: Develop of case Scenarios
17:30	Wrap-up
18:00	Get together – Stuttgart Center

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Thursday 07.11.2013

08:30	Postharvest processing techniques of maize residues K. Intani (Thailand)
08:50	Sustainable farm model for small farmers in Kerala P. Kanatt (India)
09:10	Status of new energy crop planting in China Prof. Dr. He(China)
09:30	Studies of some physical-mechanical and chemical property in organic waste to use for biogas production in Cuba Dr. Martinez (Cuba)
09:50	Solar drying in the Philippines Dr. Martinez (Philippines)
10:10	Coffee Break
10:30	Plant Oil – Basics S. Romali(Agricultural Engineering in the Tropics and Subtropics)
12:00	Workshop oil pressing and stove testing
12:30	Lunch
14:00	Energy Supply Concepts: calculations frameworkand business conditions
16:00	Coffee Break
16:30	Discussion and Presentation of Results
17:30	Wrap-up

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04. - 15. November 2013

Friday 08.11.2013

08:30	Excursion to Freiburg
10:30	Visit at FraunhoferInstitute for Solar EnergySystems (ISE)
12:30	Lunch
14:00	Workshop: Pico-PV-Systems and Solar Cooling Visit to the Labs atISE
16:00	Energy SupplyConcepts: Calculationsframeworkandbusiness conditions

Saturday 09.11.2013

08:30	Visit to energy concepts in Freiburg: Black ForestCommunitythatExports Electricity Farm with a woodchipping plant &Windpower The model districtVauban The solar housingestate EnergiePlus@houses Dreisam River –Hydropower andrenaturation
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Sunday 10.11.2013

08:30	Presentation andDiscussion withSocial Business expert N. Wimmer (Microsolar)
12:30	Lunch
14:00	Discussion andPresentation ofFinal Concepts
16:00	Wrap-up
16:30	Visit Freiburg Center

Monday 11.11.2013

08:30	Trip to Göttingen
14:00	Arrival / Check-in Hotel Rennschuh, Göttingen
17:00	DAAD Welcome Event at hotel in Göttingen
18:30	Welcome Dinner at the hotel restaurant

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Tuesday 12.11.2013

08:00	Collective departure by bus to the Agritechnica in Hanover - meeting at 7.45 am
09:00	DAAD Stand 02/C16 Individual visit of the Agritechnica
12:00	Welcome by the DLGPavillion 35, IVL
13:00	guided tour "John Deere" University of Hohenheim
16:30	Departure to Göttingen Meeting Point - 16.15 pm: DAAD Stand 02/C16

Wednesday 13.11.2013

08:00	Collective departure by bus to the Agritechnica in Hanover - meeting at 7.45 am
09:00	Individual visit of the Agritechnica
12:30	Guided Tour - Smart Farming Hall 17, B47
13:30	Guided Tour-Special "Rice" Hall 17, B05
14:00	Individual visit of the Agritechnica
16:30	Departure to Göttingen Meeting Point - 16.15 pm: DAAD Stand 02/C16

Thursday 14.11.2013

08:00	Collective departure by bus to the Agritechnica in Hanover - meeting at 7.45 am
09:00	Individual visit of the Agritechnica
11:00	Forum "Agrartechnik in Entwicklungsländern" (Halle 17, Stand A51)
12:00	Individual visit of the Agritechnica
13:30	Departure to Göttingen Meeting Point - 13.15 pm: DAAD Stand 02/C16
15:30	Guided City Tour in Göttingen
17:00	Farewell Presentation Literaturhaus
18:30	Farewell Dinner Kartoffelhaus

Friday 15.11.2013

08:30	Check-out and individual departure
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Participants List

<i>Family Name</i>	<i>Surname</i>		Country
Mr. Adhikari	Giri Raj		Nepal
Mr. Ahiduzzaman	Mohamed	Dr.	Bangladesh
Mr. Boruah	Dwipen		India
Ms. Chaiwong	Kanyaporn	Dr.	Thailand
Mr. Chala	Bilhate Leta		Ethiopia
Mr. Datkov	Dorde		Serbia
Mr. David	Wahyudi	Dr. agr.	Cameroon
Mr. Dongmeza	Eulogue	Dr.	Cameroon
Mr. He	Xiongkui	Prof.	China
Mr. Intani	Kiatkamjon		Thailand
Mr. Janjai	Serm	Prof.	Thailand
Mr. Kanatt	Philippi Thomas		India
Mr. Karaj	Shkelqim		Albania
Ms. Kenawy	Laila		Egypt
Mr. Kencana	Bayuaji Erlamsyah		Indonesia
Ms. Kunyanga	Catherine	Dr.	Kenia
Mr. Kusnaman	Djeimy	Dr.rer.agr	Cameroon
Mr. Martinez	Romualdo	Dr.	Phillipines
Mr. Martínez Hernández	Carlos	Dr.	Cuba
Mr. Mazimpaka	Ernest	Dr.	Rwanda
Mr. Odeh	Ibrahim	Dr.	Jordan
Mr. Panda	Rabindra	Prof.	India
Ms. Pino Donoso	Mariela Adrea		Chile
Mr. Sendegeya	Al-Mas	Dr.	Uganda
Ms. Susanti	Emmy		Indonesia
Ms. Tebusabwa	Milly Kevin		Uganda