



# SOLTRAIN

*Specialised course for professionals on Solar Heat for Industrial Applications*

*22 – 24 November 2017*

*Conference Centre at the Faculty of Theology, Stellenbosch, South Africa.*



## **Background Information:**

This second “specialized SOLTRAIN course” on solar heat for industrial application is focused on the analyses of industrial processes, which are suitable for solar integration. Based on Test cases the participants learn how to optimize industrial processes for the integration of solar heat.

Precondition for the participation in this course is either the participation on SOLTRAIN II courses and the installation of demonstration systems in the earlier project phases or the proof of another comparable solar thermal expertise.



Supported by the IEA SHC Solar Academy



# AGENDA

Wednesday, 22 Nov	Day 1
08:30	Registration
09:00	Welcome, remarks and goals of the training course Karin Kritzinger, Stellenbosch University
09:15	The IEA Solar Academy Dr Thembakazi Mali, SANEDI
09:30	Introduction of participants and expectations
10:00	Solar heat worldwide – Solar heat worldwide and the achievements concerning SHIP plants Werner Weiss, AEE INTEC
10:30	Coffee break
11:00	Process heat – systems concepts and built examples Werner Weiss, AEE INTEC
11:30	Status of large scale solar thermal installations in South Africa Angelo Buckley, Stellenbosch University
12:30	Lunch
13:30	Performance of an energy audit Christoph Brunner
14:30	Presentation of <i>Test Case</i> – Development of flow sheet by training participants Christoph Brunner
15:30	Coffee break
16:00	Presentation of flow sheet Christoph Brunner
17:15	Feedback round Day 1
17:30	End

Thursday, 23 Nov	Day 2
08:30	Opening Day 2 – Revision of Day 1
08:45	<i>Test Case</i> – Calculation of thermal energy demand of processes Christoph Brunner <i>Test Case</i> – Presentation of thermal energy demand
10:30	Coffee break
11:00	Process optimization measures; Best available technologies
12:30	Lunch
13:30	<i>Test Case</i> – Identifying and discussing process optimization measures
14:00	Heat transfer, heat exchanger types
15:30	Coffee break
16:00	Heat recovery methodology – Pinch analysis
17:00	Feedback round Day 2
17:15	End
Friday, 24 Nov	Day 3
08:30	Opening Day 3 – Revision of Day 2
08:45	<i>Test Case</i> – Identifying heat recovery options and savings <i>Test Case</i> – Sankey Diagram
10:00	<i>Test Case</i> – Presentation of heat recovery options
10:30	Coffee break
11:00	Renewable energy sources (Biogas, Biomass, etc.) Christoph Brunner
12:30	Lunch
13:30	PV water heating systems – first experiences in South Africa and Austria Angelo Buckley, Stellenbosch University Werner Weiss, AEE INTEC
14:00	Funding schemes for large-scale demonstration systems Werner Weiss, AEE INTEC
15:00	End



## REGISTRATION FORM

Title: \_\_\_\_\_ Initials: \_\_\_\_\_ First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

ID nr.: \_\_\_\_\_

Company: \_\_\_\_\_ Position in organisation: \_\_\_\_\_

Entity responsible for payment: \_\_\_\_\_

Phone: \_\_\_\_\_ Mobile: \_\_\_\_\_

Email: \_\_\_\_\_

Dietary requirements: \_\_\_\_\_

**Please indicate the following:**

1. Previous SOLTRAIN courses attended: \_\_\_\_\_  
\_\_\_\_\_
2. Other experience and training in the area of Solar Thermal Energy: \_\_\_\_\_  
\_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

The completed Registration Form should be emailed / faxed to  
Ms Sandy Heydenrycht at email [crses@sun.ac.za](mailto:crses@sun.ac.za) or fax no. 021 883 8513.

**Registrations close on 30 October 2017 or when maximum capacity is reached.**

Your attendance at this specialised course is free of charge. However, if you decide not to attend and you do not cancel before 30 October 2017 you will be invoiced for R500 to cover some of our costs.

Please tick this box to indicate that you accept this.