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SOLTRAIN

Training Course for Experts & Professionals

Agenda - Training Course 1

21 and 22 January, 2010

Centre for Renewable and Sustainable Energy Studies (CRSES)
Stellenbosch University, South Africa



Background Information:

In total three technical training courses for professionals will be carried out in the Cape Town area in the course of the project "SOLTRAIN". The content of the technical training courses will be the theoretical and practical background to be able to design, build and to install and solar thermal systems. These training courses will be carried out by "AEE - Institute for Sustainable Technologies" from Austria in cooperation with CRSES at Stellenbosch University.

A comprehensive training manual will be made available for each of these courses.

The aim of these training courses is to increase the knowledge on solar thermal systems and applications of professionals and other technical staff, which are already working in the field of solar thermal. **The course is offered free of charge, but with the condition that all three courses must be attended and you pass the knowledge on.**

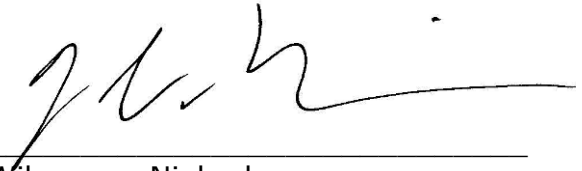
The course will take place at Skilpadvlei, about 8km outside Stellenbosch, see map below. Please confirm your attendance **before 15 January** with Ms Jos Liebenberg at fax 021 808 4277 or crses@sun.ac.za.

We are looking forward to meet you there.

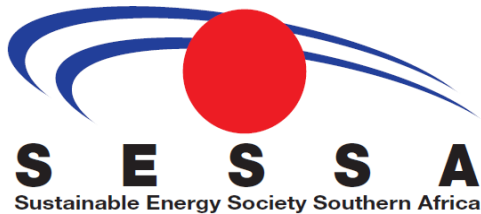
Kind regards,



Dieter Holm
Soltrain Coordinator Southern Africa
SESSA Organiser for Gauteng
Stellenbosch



Wikus van Niekerk
Director: Centre for Renewable and
Sustainable Energy Studies,





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Thursday, 21 January	
08:30 h	Welcome Prof. Wikus van Niekerk, CRSES
08:40 h	Introduction of participants and expectations
09:00 h	The framework, duration and the content of the project Prof. Wikus van Niekerk, CRSES
09:30 h	Solar Heat Worldwide – an overview on the worldwide developments Werner Weiss, AEE INTEC
10:00 h	Coffee break
10:30 h	Overview on applications for solar thermal systems Werner Weiss, AEE INTEC
11:00 h	Preconditions for solar energy utilization and the solar resource Werner Weiss, AEE INTEC
12:00 h	Lunch
13:30 h	Solar thermal system designs (pumped and thermosyphon systems) Werner Weiss, AEE INTEC
15:00 h	Coffee break
15:30 h	Solar thermal system designs (to be continued)
17:00 h	End
Friday, 22 January	
08:30 h	Flat plate collectors: performance criteria for collectors (collector efficiency curve), materials used for the production (glass qualities, insulation materials, absorber materials and geometry, collector boxes, coatings) Werner Weiss, AEE INTEC
10:30 h	Coffee break
11:00 h	Other types of collectors (CPC, ETC, medium temperature collectors) Design and applications Werner Weiss, AEE INTEC
12:00 h	Lunch
13:30 h	Hot water storage tanks (type of storage tanks, stratification) Werner Weiss, AEE INTEC
15:00 h	Coffee break
15:30 h	Other components of a solar thermal system (piping, expansion vessels, electronic control,) Werner Weiss, AEE INTEC
17:00 h	End

Skilpadvlei is situated just 8 kms from Stellenbosch on the M12 (Polkadraai Road)

