



# RESEARCH LECTURE

## Renewable and Sustainable Energy

### *The Use of Concentrated Solar Radiation in Upgrading Fossil Fuels*

A special lecture on ***The Use of Concentrated Solar Radiation in Upgrading Fossil Fuels*** will be held on **Thursday, 2 September at 10:00 in Room M306, Mechanical Engineering Building, Stellenbosch University.**

Dr Christiaan Sattler from the DLR (Institute of Technical Thermodynamics, Germany) will talk about on the use of concentrated solar radiation in upgrading fossil fuels (solar steam reforming of methane, solar gasification of coal and solar reforming of petcoke as opposed to combustion heat driven pathways), and he will also touch on the carbon-free high temperature water-splitting options driven by concentrated solar heat.

All staff, researchers, students and the public interested in concentrating solar applications should find this presentation especially interesting, as it entails using carbon-free renewable energy to increase the energy content of carbon-rich fossil fuels, resulting in carbon-lean feedstocks with the solar energy stored in chemical bonds.

SEE DIRECTIONS OVERLEAF

## Directions to the Faculty of Engineering:

### **Coming from Cape Town on the N1**

Continue some 30 km from Cape Town; A couple of kilometers beyond the Engen One Stop Service Station take the Stellenbosch off-ramp. You enter Stellenbosch going over a train bridge along Bird Street. After the bridge, cross 3 sets of traffic lights. The 4th set is on Merriman Avenue. Landmark on right is the Caltex service station. Turn left into Merriman. Cross two sets of traffic lights, turn left into Joubert Street, just before the white pedestrian bridge that cross Merriman Ave. Go across the next four-way stop, Banghoek Street, and the Engineering Faculty will be on your right-hand side.

### **Coming from Strand/Somerset West**

You enter Stellenbosch from the South side along Strand Road. First traffic light is still outside town; golf course on your left. Stay in Strand road (R44) and cross over four additional sets of traffic lights. At the 6th set of traffic lights, turn right into Merriman Avenue. Cross three sets of traffic lights, turn left into Joubert Street, just before the white pedestrian bridge that cross Merriman Ave. Go across the next four-way stop, Banghoek Street, and the Engineering Faculty will be on your right-hand side.

### **Coming from the Airport on the N2**

Take Stellenbosch/Baden Powell off-ramp. Continue past Spier Estate on the R310. You enter Stellenbosch from the West. Just follow the road (Adam Tas) over the railway bridge and past the Station. The road merges with Strand Road (R44). You cross one set of traffic lights and turn right at the second set (Merriman Avenue). Now cross three sets of traffic lights, and turn left into Joubert Street, just before the white pedestrian bridge that cross Merriman Ave. Go across the next four-way stop, Banghoek Street, and the Engineering Faculty will be on your right-hand side.

