



WORKSHOP

AN INTRODUCTION TO THE VACUUM INSULATED GLAZING TECHNOLOGY

SUMMARY

This workshop is a 4 hr workshop that focuses on the basics of the Vacuum Insulated Glazing (VIG) technology. We will discuss energy use in buildings and the role of conventional gas-filled insulated glazing applications. Followed by a discussion of the thermal and mechanical performance of the VIG. Finally, as a group we will work through a design optimisation and look at the potential future application of the VIG technology.

KEY POINTS

- Potential impact of the use of insulating windows
- Breakdown of the Vacuum Insulated Glazing technology (VIG)
- Discussion and outline of thermal performance
- Discussion and outline of the mechanical strength
- Optimisation of the VIG design and applications

TIMETABLE 25TH OF JUNE

- 9.00 Seating of participants, introduction of speaker
- 9.10 What is building energy use and what are insulated windows
- 9.50 Short break for questions (tea/coffee)
- 10.00 The vacuum insulated glazing (VIG) and other technologies
- 10.40 Long break for questions (tea/coffee/snacks)
- 11.10 A discussion of the VIG thermal and mechanical performance
- 11.50 Short break for questions (tea/coffee)
- 12.00 A discussion of potential applications and future potential
- 12.40 Closing remarks and final questions from participants
- 13.00 End of the workshop

Duration: 4 hours



ORGANISERS



CENK KOCER, UNIVERSITY OF SYDNEY

Dr Cenk Kocer is a senior researcher with over 18 years experience in the area of Vacuum Insulated Glazing (VIG). His research focus is the design, manufacture, and quality/durability of the VIG window system. Using experimental and numerical (such as finite element analysis) methods, he is involved in the detailed study of the thermal and mechanical properties of VIG and other thermally insulating technologies.