

Ordem dos Engenheiros – 16th Climatization days – 20 October, 2016



The 16th Climatization Days of *Ordem dos Engenheiros* (Ode, Portuguese Association of Engineers) was held in Lisbon on 20 October 2016. Two major themes were discussed: “The importance of water in air conditioning systems” and “Hydrogeology and Geothermal Energy”. REHVA was invited to present the Guidebook Nr 20 on GEOTABS that was translated by Ode this year into Portuguese.

The event was opened and chaired by Serafin Graña, the Coordinator of the Climatization Chapter of Ode. The interdisciplinary session on “Hydrogeology and Geothermal Energy” was subject of a high interest among the participants. This great involvement of the attendees was due to the complexity of the topic and the need of interdisciplinary knowledge for the proper application in the heating and cooling systems of buildings.

Elsa Ramalho, a geological engineer, presented an interesting and valuable contribution of hydrogeological knowledge to the development of geothermal energy in Portugal, which will certainly be used as a “roadmap” for projects dealing with this area.

Luis Coelho, a mechanical engineer, presented the “European H2020 TESS2b Project” which consists in thermal energy storage utilization using PCMs in conjunction with solar energy and geothermal energy. The Polytechnic Institute of Setubal is leading this

project in partnership with other ten organizations from eight European countries (universities, companies and associations).

Two case studies from Portugal and Italy were presented, providing details and lessons learned from the experiences. Geologist, Pedro Madureira, presented methodologies, advantages and difficulties encountered during the ongoing work for the implementation of a geothermal energy project in a resort in Algarve (Portugal). The second case study on the Cubo Rosso building was presented by Domenico Mazzetti, a mechanical engineer from CALEFFI Hydronic Solutions. Cubo Rosso integrates solar thermal, photovoltaic and geothermal solutions. The case study session ended with a broad and lively debate among the panel of speakers and participants.

Anita Derjanecz thanked Ode for promoting the knowledge exchange by continuously translating REHVA Guidebooks. She presented new strategic activities of REHVA and the Guidebook No 20 on “Advanced system design and operation of GEOTABS buildings”. This Guidebook was translated to Portuguese and offered to all registered attendees of the event.

The 16th Climatization days was attended by approximately 150 participants. Ode President, Carlos Mineiro Aires and Serafin Graña closed the successful event. ■