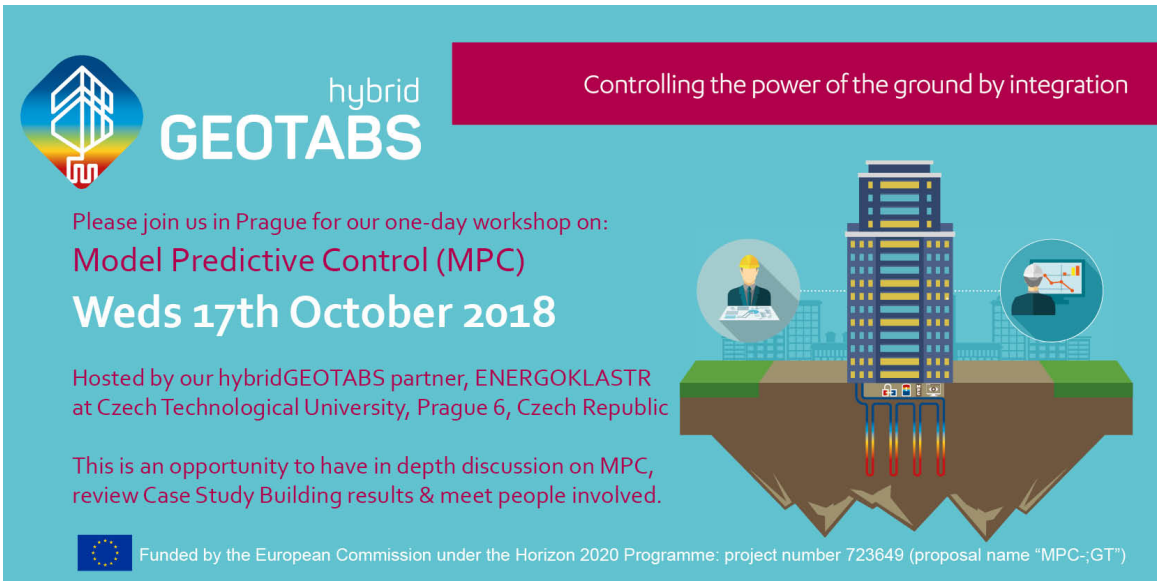
hybrid GEOTABS
Controlling the power of the ground by integration

Press Release (dated 26th September 2018)

hybridGEOTABS Prague MPC Workshop and Case Study Building Visit on Weds 17 October 2018



The hybridGEOTABS Consortium is inviting those interested in Model Predictive Control (MPC) in renewable heating and cooling systems to:

hybridGEOTABS Prague MPC Workshop and Case Study Visit
on Weds 17 October 2018 (0830-1800 CEST)
at
Czech Technological University, 1580/3 Jugoslávských partyzánů, Prague 6, Prague 16000, CZ

Hosted by Energoklastr, the free MPC workshop will address both specialists in HVAC and Control, wanting to know more about the practical and theoretical aspects of Model Predictive Control (MPC) - development, modelling, implementation, operation - as well as architects, building and HVAC designers wanting to know what MPC can do for them!

The first part of the workshop includes a more general introduction to MPC and to two GEOTABS^{hybrid} demonstration buildings using MPC. In the second part of the workshop, they shall go more in depth on the theoretical and practical aspects of MPC development and implementation.

Both parts can also be followed via web-conferencing, which can be confirmed on registration.

The day is concluded with a guided tour of the demonstration school building in Libeznice, designed by Czech Architects Projektil http://www.projektil.cz

For more information, view the schedule and register here:
https://www.eventbrite.co.uk/e/hybridgeotabs-mpc-prague-workshop-and-webinar-registration-48310649453?utm_term=eventurl_text

What is GEOTABS?

hybridGEOTABS is an active group of developers, engineers & academics with a common interest in optimising coupled geothermal heat pumps (GEO-HP) and thermally activated building systems (TABS), alongside secondary heating & cooling systems.

GEOTABS is an acronym for a GEOthermal heat pump combined with a Thermally Activated Building System (TABS). GEOTABS systems combine the use of geothermal energy, which is an almost limitless and ubiquitous energy source, with radiant heating and cooling systems that can provide highly comfortable conditioning of the indoor space. TABS use pipes, embedded in concrete floors, ceilings and walls, through which warm/cold water is pumped to heat/cool a building's thermal mass.

hybridGEOTABS refers to the integration of GEOTABS with secondary heating and cooling systems and other renewables, offering huge potential to meet heating and cooling needs in office buildings, care homes, schools and multi-family buildings throughout Europe in a sustainable way.

By use of Model Predictive Control (MPC), a new control-integrated building design procedure and a readily applicable commercial system solution in GEOTABS hybrid, the overall efficiency of heating and cooling will be significantly improved in comparison to current best practice GEOTABS systems and its competitiveness will be strengthened.

This innovative suite of clean technologies, offers huge potential to meet heating and cooling needs in Europe and avoid climate-damaging greenhouse gas emissions.

The group is underpinned by a research project funded under the EU Horizon 2020 programme, led by the University of Ghent and involving industry and architects.

Contacts for PRESS:

Liz Ellston (Climate Futures,UK) t: +44(0)7957 325254
liz@climatefutures.co.uk

Karolina Tomesova (Energoklastr,CZ) t: +420 775 402 676
Karolina.Tomesova@cvut.cz

hybridGEOTABS, BE
hybridgeotabs@ugent.be

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ResearchGate
https://www.researchgate.net/project/hybridGEOTABS-Controlling-the-power-of-the-ground-by-integration

funded by the European Commission under the Horizon 2020 programme project number 723649 (proposal name "MPC-:GT")