



Joint webinar
of HEXAG and
HTS



"3-D printed metal heat exchangers - a revolution in heat exchange, reaction and thermal management?"

Drummond Hislop and Andy Jones, HiETA Technologies

Metal Additive Manufacturing (AM), or 3-D printing as it is often termed, enables great freedom of 3-D design with complex voided geometries that could not previously be built, or only at unacceptably high cost. Initially for thick-walled components, it can now build very thin walls. Heat exchangers, whose basic technology has not advanced since diffusion bonding emerged in the 1980s, are ripe for change. HiETA Technologies pioneered and is now a global leader in using AM for compact heat exchangers, reducing their size and weight by up to 80% in some cases. In this forum we outline the history of AM and provide examples from HiETA's customers in defence, aerospace, Formula 1 and the energy sector, and summarise prospects for the future.

Drummond Hislop, a development economist with an engineering background, is a founding and R & D director of HiETA. With a career in technology assessment and choice, focusing on small scale energy systems in Africa and Asia, in 1985 he founded a company to develop Stirling engines. A search for solutions to the problems of heat exchange in the Stirling led to an early sighting of AM at Liverpool University in 1999-2000, and, in 2011-12, to the formation of HiETA.

Andy Jones is Head of Innovation at HiETA, specialising in developing novel AM thermal management solutions. Andy has over 14 years of experience in consultancy, manufacturing and product design.

Thursday 17th December at 12:30 (one hour)

Free Webinar Registration Link:

https://zoom.us/webinar/register/WN_dfbDkaWbQWCA4yAi5QAs_Q

Future HTS events

- ❖ 21st January 2021, webinar forum - Victor Castaneda, the HTS Award Winner for 2019, will speak on "Development of flat flame burners for industrial heat transfer applications"