



**MPE**  
Quality, Reliability, Performance

# Company Bulletin

for EMC, EMP & TEMPEST Protection

## Issue 14



Paul Currie of MPE speaking at EMSEC 2017 in Seoul, Korea



Paul Currie of MPE, fourth from left in the front row, with the members of the KIEES Committee

## HEMP expertise from MPE in demand

The SC77C Committee of the International Electrotechnical Commission (IEC) is concerned with standardisation in the field of EMC to protect civilian equipment, systems and installations from threats by man-made, high-power transient phenomena, including the electromagnetic fields produced by nuclear detonations at high altitude. As such it is the global steering group for HEMP protection.

September 2017 saw the latest SC77 Committee meeting take place in Kashiwa City, Japan. The meeting was hosted by the Japanese National Committee at the Kashiwa-no-ha Conference Centre to coincide with the TC77 plenary session. MPE design engineer John Lindsay participated as a technical expert representing the BSI and UK interests.

During the four-day meeting which ran from 26th to 29th September, recent EMP and HEMP market activity was high on the agenda, with a detailed discussion of the current situation on the Korean Peninsula and the wider adoption of HEMP protection within the UK and Europe.

The Committee also gave an update on the proposed changes to Mil-Std-188-125, the network security objective to be introduced within the UK by May 2018, and NATO's AECTP 250 – Leaflet 257 on high-power magnetics, which refers to certain IEC documents developed by the SC77C Committee.

With the IEC community now numbering 170 member countries, the next meeting of the SC77 is planned to coincide with the eagerly awaited AMEREM 2018 Conference, to be held at the University of California at Santa Barbara (UCSB), California, in August 2018.

Furthermore, during October the annual EMSEC Workshop took place in Seoul, Korea. Hosted by the Korean Institute of Electromagnetic Engineering and Science (KIEES), this year's single-day event at the K-Hotel in Seoul was the largest yet.

Paul Currie of MPE was one of only two non-Korean nationals invited to speak at the Workshop by the event organiser, Mr Tae-Heon Jang of the Korean Test Laboratory (KTL).

Again, given the current situation within the Korean Peninsula, developments in HEMP protection are very high on the Korean Government's agenda and, speaking to an audience of well in excess of one hundred, Paul delivered a presentation entitled "Global Trends within EMP/HEMP Filter Solutions".

During the forty-minute presentation, as well as describing the investments in HEMP protection made by other nations, Paul also provided an update on the work being conducted by the IEC SC77 Committee and a non-ITAR update on the proposed change to Mil-Std-188-125. Of particular interest to the audience, Paul also spoke in detail about common HEMP protection concerns and the reasons for widespread "infant mortality" failures being experienced internationally in HEMP protection installations.

