

## HKIE Electronics Division Activity Report

# Seminar on Electro-Optics Payload



Ir Dr C K Li ( L ), Chairman of Electronic Division presented the souvenir to Mr. Adrian Liew ( R )

On 24 November 2003, the Electronics Division organized a technical seminar in the Hong Kong Polytechnic University, on the state-of-the-art technology of the Electro-Optics Payload system. The event organizer, Ir Alan Mok, started the event with warm welcome to our fellow speaker Mr. Adrian Liew, the Chief of System Engineering of Chartered Electro-Optics Pte Ltd.

Mr Adrian Liew presented us rich information on the high technology Electro-Optics Payload, which is for observation and aiming system in surveillance, target acquisition, weapon aiming and fire control. Details were also discussed and suggested in the applications and engineering design considerations of a stabilized electro-optics payload, including modular design approach ranging from optics design, detectors, readout integrated circuits and focal plane array electronics. This technology is a combination of Electronic engineering of signal processing & image enhancement, and the Physics of optical lens and materials for the detectors.

Members showed great interests in different areas and raised various questions, esp. in the typical application of Electro-Optics under Hong Kong environment. Adrian explained that could be considered case-by-case, and solid example was also addressed for the application of Electro-Optics thermal device for detecting human temperature during the SARS period. Adrian's further comment from technology perspective was that the US, UK, and France are at the forefront on Electro-Optics Payload, and it would not rule out the potential for China in various payload technology applications in the future.