

SAFA SYMPOSIUM 2010

Explosion Prevention Focusing on Safety

Draft Programme

24 August 2010 – Awards Dinner, 7pm La Toscana, Montecasino

25 August 2010 – Symposium, 8am Montecasino Ballroom

Time	Title	Speaker	Contents
08:00	REGISTRATION ,TEA & COFFEE		
09.00	Welcome & Introduction	Paul Meanwell	
09.15	Introduction to Hazardous Areas and Explosion Protection	Johannes Auret, Explolabs Pty Ltd.	The paper explains how to establish if an explosion hazard does exist and secondly the process to be followed to eliminate such a hazard
09.45	Dust Hazards	Mike Scott, EXB Electric	An introduction to and protection methods against combustible dust.
10.15	TEA, COFFEE & SNACKS REGISTERING – CPD POINTS		
10.45	Intrinsic Safety	Gary Friend, Extech Safety Systems	Intrinsic Safety is the preferred protection technique for many instrumentation installations. We will look at the origins and principles of IS, including hazardous area zoning and the implications for dusts. We will then examine and compare the use of zener barriers and galvanic isolators. We will look at how loop approvals are done & how cable lengths are calculated. The presentation will end with a brief look at IS for fieldbus & for Ethernet
11.15	Exd	Willem de Beer, SA Explosion Prevention	Flameproof Equipment: -Requirements of flameproof equipment from design criteria -Misconception about flameproof equipment -Marking of flameproof equipment
11.45	Exe & Exn	Johan van Zyl, SASOL	The most widely used forms of explosion protection. Understanding protection concept Exe & Exn, (definition, technique, application, inspection and maintenance)
12:15	LUNCH		

13:15	Inspections & C.O.C's	Mel Wilman, Hazloc Consultants	-To ensure legal compliance, a VALID certificate of compliance MUST be issued by COMPETENT person, after conducting a detailed inspection and completing the required installation tests. -To maintain legal status and not forfeit equipment certification frequent inspections as per standard MUST be conducted, by COMPETENT staff.
13.45	Lightning protection, earthing and hazardous locations	Ian Mckechnie, Innopro	An overview of lightning protection. earthing and hazardous locations.
14:15	TEA, COFFEE		
14:45	Underground Collieries	Frank Lantry, JOYNX	"SANS1489 for Electrical Connectors is setting the standard for the world to follow and creating the safest high voltage couplers for use in hazardous locations."
15:15	Risks of wireless devices in Hazardous Areas	Erik Stomvig, SASOL Synfuels	The trend in industrial technology is moving towards wireless devices, as a result, there is an increase in the number of wireless devices that are installed in hazardous areas. These wireless devices are radio devices that emit electromagnetic radiation that is clearly a potential source of ignition in an explosive atmosphere. The main risk lies in the induction of currents in metallic objects or inadequately EMI-protected electronic circuits. These currents can result in excessively high temperatures and the formation of sparks. These devices are in applications that include; Reading RFID tags, Instrument Asset Management and Condition Monitoring of mechanical equipment, such as rotating equipment. This paper will cover the design of these devices, and the risks that they pose when installed in hazardous areas. The paper will also attempt to give details of the requirements for safe operation of wireless technology in hazardous areas.
15.45	SKILLS DEVELOPMENT AND TRAINING IN HAZARDOUS AREAS	Olof Bekker, Fluor	<ul style="list-style-type: none"> • What, if any skills transfer and capacity building in hazardous areas is taking place? • What practical / theoretical training is taking place? • What is the effect of lack of training/skills transfer?

			<ul style="list-style-type: none">• What does legislation dictate regarding hazardous areas?• What is the way forward?• Conclusion and recommendations
16.15	CLOSING ADDRESS		