

On behalf of CIMAC we cordially invite you to the



CIMAC CIRCLE 2009

Life-cycle costs – the impact of fuel and emissions

on **Thursday, 3rd December 2009**
at **Shanghai New International Expo Center, South
Entry, Building W2, Room W2-M9 (upstairs)**

**Free Admission after Registration at CIMAC Central
Secretariat**

Karl Wojik
President

Markus Heseding
Secretary General

Increasingly-stringent political, social, environmental, and economic restrictions are forcing engine manufacturers and suppliers to reduce emissions and total life cycle costs of their products. The engines installed are probably the most complex and vital part and usually an important cost element of a ship, at acquisition and also during operation periods. Factors like fuel consumption and fuel quality, maintenance, overhaul and spare part supply are well known driving forces to reduce life cycle costs.

However, with the introduction of the tightened IMO regulations for NO_x and SO_x control especially in the Emission Control Areas (ECAs), emission reduction strategies will come more and more into focus. What are the technical challenges for the large engine industry? What is the impact of fuel and emissions on life-cycle costs? Will alternative fuels like gas play a more dominant role?

This CIMAC Circle will provide experts' views to these questions. Don't miss it and get your questions answered!

The panel will be held in English with simultaneous translation into Chinese.

The Panel:

1. **Y. Itoh**, Niigata Power Systems Co., Ltd., Japan (chair)
2. **J. Hammett**, Shell Global Solutions (Deutschland) GmbH, Germany
3. **Prof. D. Jin**, Shanghai Marine Diesel Engine Research Institute, China
4. **D. McLennan**, BW Fleet Management, Singapore
5. **M. F. Pedersen**, MAN Diesel, Denmark
6. **M. Troberg**, Wärtsilä Industrial Operations, Italy
7. **A. Wang**, ABB Jiangjin Turbo Systems Company Limited, China

13:30 h

Registration

14:00 h to 16:00 h

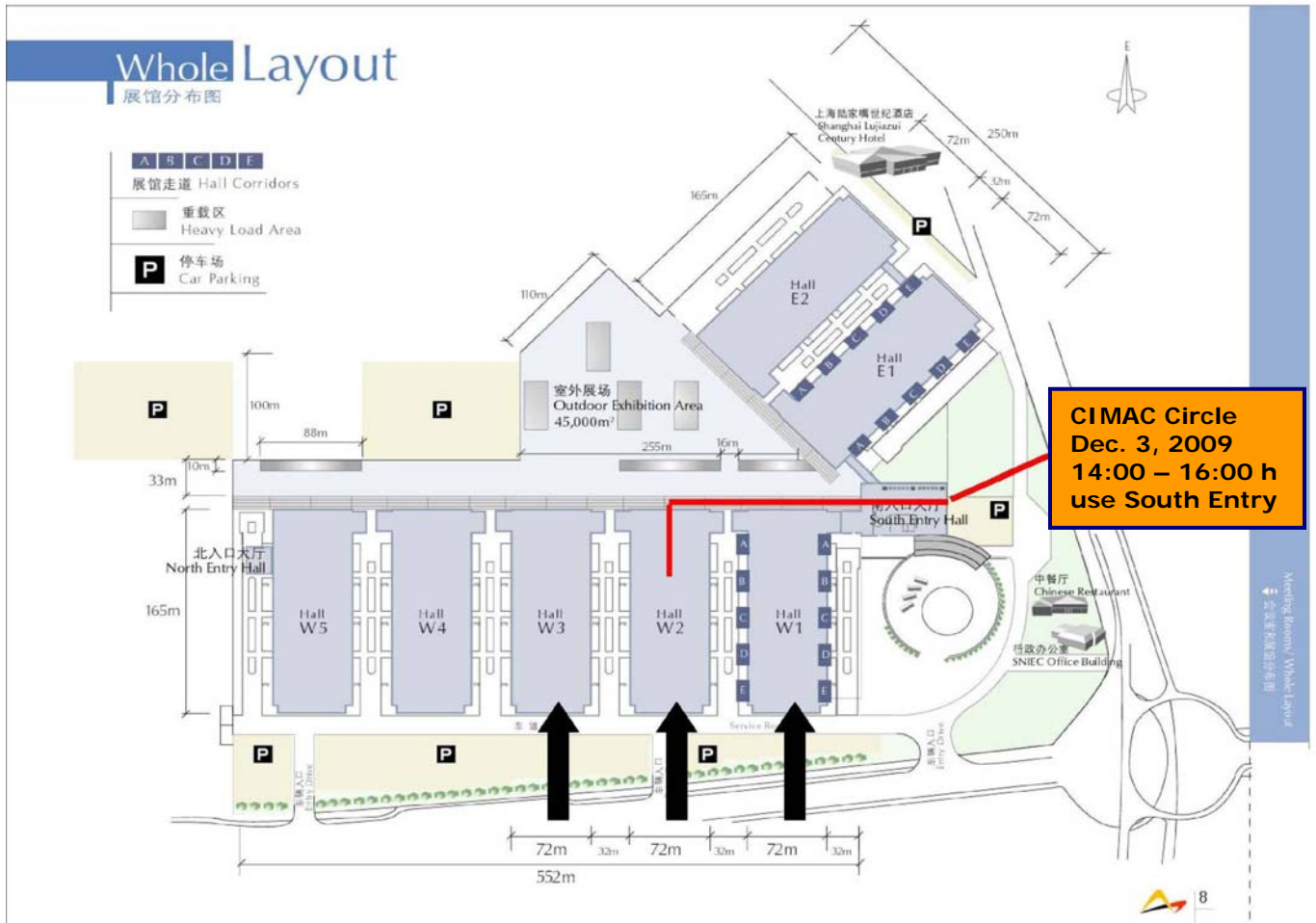
Panel discussion



in cooperation with

CIMAC CIRCLE 2009

will take place in **Room W2-M9 (upstairs)** which is located in **building W2** and can easily be reached via the South Entry



Participation is free of charge, but **online-registration** is required **at the latest by Nov. 13, 2009**, at

http://www.cimac.com/congress_events/Index1-events.htm