



CIMAC

INTERNATIONAL COUNCIL
ON COMBUSTION ENGINES



OCTOBER 23rd, 2014 | BUSAN, REPUBLIC OF KOREA



INVITATION

5th CIMAC CASCADES 2014 at Busan

Gas engines? – The viable alternative for ECAs



5th CIMAC CASCADES 2014

Invitation



Dear friend of CIMAC,

CIMAC and its Rep. of Korea National Member Association (ROK NMA) are pleased to invite you to:

5th CIMAC CASCADES

Tuesday 23rd October 2014

08:30 h – 18:10 h

Novotel Busan Ambassador, 5th Floor, Grand Ballroom

This CIMAC CASCADES event offers the opportunity for young engineers to meet with leading industry experts to exchange information and network together. The objective is to encourage and inspire students and recently graduated engineers to realize their goals in an engineering career. The core event will be nine short presentations by young engineers to describe their projects, how they tackled them, the difficulties they encountered and the outcome.



J.T. Kim,

President of CIMAC Rep. of Korea National Member Association (NMA)

Presenters



Sun Il, Yoo | Oil & Gas region Korea & Japan, Regional Business Development Manager
Manager DnV GL



Jin Woo, Seong | Technical Sales Turbocharging
ABB Ltd.



Felix Grueninger | Project Manager
AVAT Automation GmbH



Dr. techn. Harald Schlick | Development Engineer
AVL LIST GmbH



Prof. Liping Yang | Professor
Harbin Engineering University



Eun Sung, Baek | Assistant Manager
Hyundai Heavy Industries Co., Ltd. (HHI-EMD)



Prof. Dan Li | Professor
Ji Chai Research Institute



René Sejer Laursen | Mechanical Engineer, M.Sc.
MAN Diesel & Turbo SE (MDT)



Naohiro Hiraoka | Engineering Manager
Mitsubishi Heavy Industries Marine Machinery & Engine Co., Ltd. (MHI-MME)



Kazuhiro Yuki | Engineer
Niigata Power Systems Co., Ltd. (NPS)



Dr. Peter Koch | Senior Development Engineer
Rolls-Royce Power Systems AG (RR)



Jens Pfläging | Project Manager Gas Valve Units
UNI-Geräte GmbH



Marcel Ott | General Manager
Wartsila Switzerland Ltd.

Programme



Oct. 22nd	14:00 – 16:30	Tour around Busan Metropolitan City by Busan City Tour Bus	
	18:30 – 21:00	A welcome reception and dinner at Novotel Busan Ambassador Hotel	
Oct. 23rd	08:30 – 09:00	Registration	
		Opening (by Prof. D.C. Lee, MNMU, Rep. of KOREA)	
	09:00 – 09:10	Welcome address by Mr. Yasuhiro Itoh, Past President CIMAC	
	09:10 – 09:20	Welcome address by Mr. J.T. Kim, Chairman CIMAC NMA, Republic of KOREA (COO, Engine & Machinery Division, Hyundai Heavy Industries Co., Ltd.)	
	09:20 – 09:40	Keynote speech by Prof. K. K. Lee, Korea Maritime and Ocean University, Busan, Rep. of KOREA	
	09:40 – 10:00	Presentation: The Global Trend of LNG as Fuel	Sun Il, Yoo
	10:00 – 10:10	Coffee Break	
	10:10 – 12:10	Session I Session Chair: Prof. Feng Wang, Shanghai Marine Diesel Engine Research Institute	
		The 2 stroke Dual Fuel ME-GI engine, a robust gas combustion solution	René Sejer Laursen
		HHL's Gas Package Solution	Eun Sung, Baek
		Advanced Development of Medium Speed Gas Engine Targeting to Marine	Kazuhiro Yuki
		Safety Shut Off- and Vent Valves for Gas Valve Units	Jens Pfläging
	12:10 – 13:10	Lunch Break	
	13:10 – 15:10	Session II Session Chair: Mr. Yasuhiro Itoh, Niigata Power Systems (Past CIMAC President)	
		Low Emission Performance Study on Marine Propulsion Gas Engine	Prof. Dan Li
		Potentials and challenges of gas and dual-fuel engines for marine application	Dr. techn. Harald Schlick
		Go Green, Go Gas; the answer to all (emission) problems?	Dr. Peter Koch
		Flexibility in Turbocharging	Jin-Woo Seong
	15:10 – 15:30	Networking Break	
	15:30 – 17:30	Session III Session Chair: Ph.D. J.H.Cha, KOREA Marine Equipment Research Institute (KOMERI)	
		Wärtsilä 2-stroke low-pressure Dual Fuel - the technical answer to changing market requirements	Marcel Ott
		Advanced Engine Control System for Large DF Engines in Marine Applications	Felix Grueninger
		Effect of intake inhomogeneity on in-cylinder mixture formation and process in natural gas engine	Prof. Liping Yang
		The development of UE Dual Fuel Engine (UEC-LSGi)	Naohiro Hiraoka
	17:30 – 17:40	Tea Break	
	17:40 – 18:00	CIMAC CASCADES AWARD Judging Panel P.R.CHINA, JAPAN, Rep. of KOREA	
	18:00 – 18:10	Closing remark by Mr. Yasuhiro Itoh, Past President CIMAC	
Oct. 24th	09:00 – 14:00	Site tour around Hyundai Heavy Industries Co. Ltd.	

5th CIMAC CASCADES 2014

General information



Fees

(details, regular fees and discount for students, VAT, invoicing procedure, etc.)

The fees for the Pre-Programme and CASCADES event will be 210US\$. There are a limited number of places on a first-come, first-serve basis for students to attend the seminar on 23rd Oct, 2014 free of charge, but they will be charged 50US\$ if they wish to join the Pre-Programme on 22nd Oct.

The registration procedure will be handled by CIMAC ROK NMA. You can choose to pay by Bank Transfer or by charging to a credit-card:

For Bank Transfer: You will receive the official confirmation and an invoice by e-mail. Please pay the participation invoice by Bank Transfer in US\$ by 20th Oct.

For Credit Card: You may pay with a credit card on site.

For Site Tour (Hyundai Heavy Industries) on Oct. 24th (Friday): It is free of charge and it includes:

- Transportation (Route : Hotel > Site Tour (Incl. Lunch) > Gimhae International Airport > Hotel)
- Lunch
- Site tour(incl. Busan Bus Tour) is only available for registered seminar participants

Suggestions for Hotel Accommodation

Hotel booking is made via the host organization, KOFCE. Refer to the registration Form. For your reference, in this period it's difficult to make a reservation due to other events in Busan.

KOFCE has prepared 3 kinds of hotel accommodation as follows:

4 star class (same as Venue)

- Novotel Busan Ambassador (240 US\$/day, City Side breakfast included)

3 star class (Near the Venue within 5 min. by foot)

- Marianne Hotel (140 US\$/day breakfast included)

2 star class (Near the Venue within 15 min. by foot)

- KOFCE will arrange as per participation's request. The rate is no more than 100 US\$

Travel Information

Subway: Get off at 'Haeundae station' line 2 and use exit 3

Bus: No.1003, No.139 (Get off at 'Haeundae beach entrance', 2 min. by foot)

From Gimhae International Airport

- Limousine Bus: Cost : Adult KRW 7.000, Kid KRW 4.500
(Operation hours : To hotel 7:00~22:00, To airport 5:18~19:58 / every 20 min.)
- Bus: No. 307 (Get off at 'Haeundae beach entrance', 2 min. by foot)



Contact

KOrea Federation of Combustion Engines(KOFCE)

Mr. Jay, Kim / Miss S.Y.Oh

Office Phone: +82-51-400 - 5045 / - 5050

E-Mail: cc2014@kofce.or.kr

* All names shall be identical with your passport