

EKMOA Webzine

Europe-Korea Marine and Ocean Engineers Association

Decemeber 2017

EKMOA Europe-Korea Marine and Ocean Engineers Association

ANNUAL EVENTS OF EKMOA

NO	Events	Date
1	Newcastle University LR Visit	20-21 April
2	Univ. of Strathclyde LR Visit	25-26 May
3	EKC 2017 - Conference - EKMOA and SNAK MOU	26-29 July
4	Network and training programme for EU-Korea marine and ocean experts	30 July to 2 August
5	EKMOA and KOSORI Meeting	6 August
6	CNU Visit LR GTC and UoS Event	25 August
7	EKMOA-KOSHIPA MOU Signing & Meeting with Korea Marine and Offshore Industry Delegates	2 September
8	Meeting with new dual-degree students in University of Strathclyde	4 October
9	Steering Committee Meeting of UK-Korea Dual Degree	6 November
10	UK-Korea Programme meeting with University of Strathclyde	8 November
11	UK-Korea Programme meeting with Newcastle	9 November

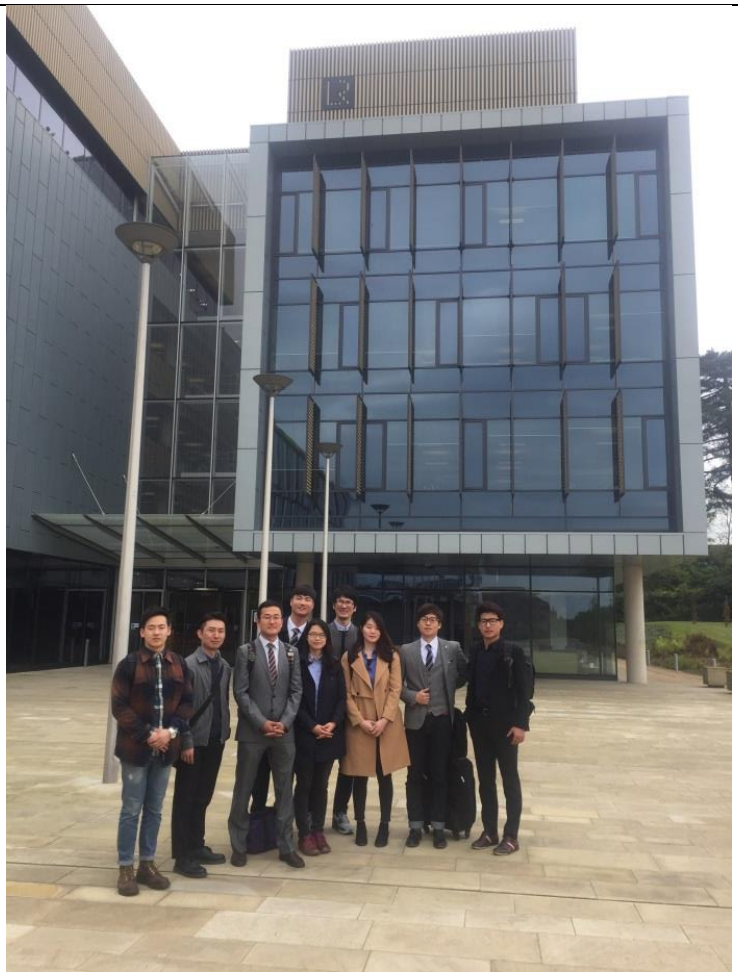
1 Newcastle University LR Visit

When	20-21 April, 2017
Where	Lloyd's Register Global Technology Center (20th April, 2017) & Lloyd's Register London (21st April, 2017)
Attendee	Lloyd's Register: Yongwon Lee, Thomas Nam, Jae-Kyun Kim, Sai Wong, Ivy Fang

Number	Name	GTC	London	Company	University	Newcastle Mail
1	Seokyong Seo	O	O	HHI	Newcastle	
2	Youngsu Kim	O	O	HHI	Newcastle	
3	Jongsang Park	O	O	-	Newcastle	
4	Junghee Lee	O	O	-	Newcastle	
5	Kyuho Park	O	O	-	Newcastle	
6	Minsoo Kim	O	O	-	Newcastle	
7	Jihyeon Kim	O	O	-	Newcastle	
8	Jaehak Kim	O	O	-	Newcastle	
9	Seongho Kim	O	O	-	Newcastle	
10	Seungwoo Na	X	O	KNOC	Newcastle	
11	Yonghoon Lee	X	O	HHI	Newcastle	

Timetable	**DAY 1** *When: Thu. 20th April 2017* *Where: 4.03 LYNC, 4th floor, LR GTC, Southampton* Meeting agenda: • 14.00 to 14.10: Dr Sai Wong, Welcome & LR GTC H&S • 14.10 to 14.40: Ms Ivy Fang, Introduction of Strategic Research Group • 14:40 to 15.10: Dr Thomas Nam, Regulatory Compliance for Marine & Offshore • 15.10 to 15.40: Dr Yongwon Lee, Research and Capability Development in Marine & Offshore • 15.40 to 16.00: Coffee and Tea • 16.00 to 17.00: Dr Yongwon Lee & Dr Thomas Nam, Korea-UK Degree Programme & LR GTC tour • 17.30 to 19.30: Dinner Please arrive at LR GTC at 13.45 on 20th April 2017 at the following address and ask LR GTC reception to contact me. Lloyd's Register Global Technology Centre (LR GTC) Burgess Road, Southampton Boldrewood Innovation Campus, Southampton, SO16 7QF, UK **DAY 2** *When: Fri. 21st April 2017* *Where: TBC, LR London Office, London* Meeting agenda: • 10.00 to 10.10: Mr Jae-Kyun Kim, Welcome & LR H&S • 10.10 to 11.00: LR Old Building Tour • 11:00 to 12.00: Mr Jae-kyun Kim, Classification and Floating Offshore Installations Please arrive at LR GTC at 09.45 on 21st 2017 at the following address and ask LR reception to contact Mr Jae-kyun Kim. Lloyd's Register, 71 Fenchurch Street, London, EC3M 4BS

Photos	GTC, Southampton  





LR London







2 Univ. of Strathclyde LR Visit

When	25-26 May, 2017
Where	Lloyd's Register Global Technology Center (25th May, 2017) & Lloyd's Register London (26th May, 2017)
Attendee	Lloyd's Register: Yongwon Lee, Thomas Nam, Jae-Kyun Kim, Sai Wong, Reddy Devalapalli Visitors:

S/N	Student	Uni. / Company	E-mail address
1	Hyunsoo Kim	University of Strathclyde	
2	Deokyoung Kim	University of Strathclyde	
3	Wonjun Chung	University of Strathclyde	
4	Yurim Lee	University of Strathclyde	
5	Jeongmoon Park	University of Strathclyde	
6	Sujeong Kim	University of Strathclyde	
7	Youngkyu Jo	University of Strathclyde	
8	Heesu Kim	University of Strathclyde	
9	Maro Jeon	University of Strathclyde	
10	So Young Hyun	Mitie	

Timetable	**DAY 1** *When: Thu. 25th May 2017* *Where: 4.07 LYNC, 4th floor, LR GTC, Southampton* Meeting agenda: • 14.00 to 14.10: Dr Sai Wong, Welcome & LR GTC H&S • 14.10 to 14.40: Dr Reddy Devalapalli, Introduction of Strategic Research Group • 14:40 to 15.10: Dr Thomas Nam, Regulatory Compliance for Marine & Offshore • 15.10 to 15.40: Dr Yongwon Lee, Research and Capability Development in Marine & Offshore • 15.40 to 16.00: Coffee and Tea • 16.00 to 17.00: Dr Yongwon Lee, Dr Thomas Nam & Mr Sang-Hyun Han, Korea-UK Degree Programme & LR GTC tour • 17.30 to 19.30: Dinner Please arrive at LR GTC at 13.45 on 25th May 2017 at the following address and ask LR GTC reception to contact me. Lloyd's Register Global Technology Centre (LR GTC) Burgess Road, Southampton Boldrewood Innovation Campus, Southampton, SO16 7QF, UK **DAY 2** *When: Fri. 26th May 2017* *Where: TBC, LR London Office, London* Meeting agenda: • 10.00 to 10.10: Mr Jae-Kyun Kim, Welcome & LR H&S • 10.10 to 11.00: LR Old Building Tour

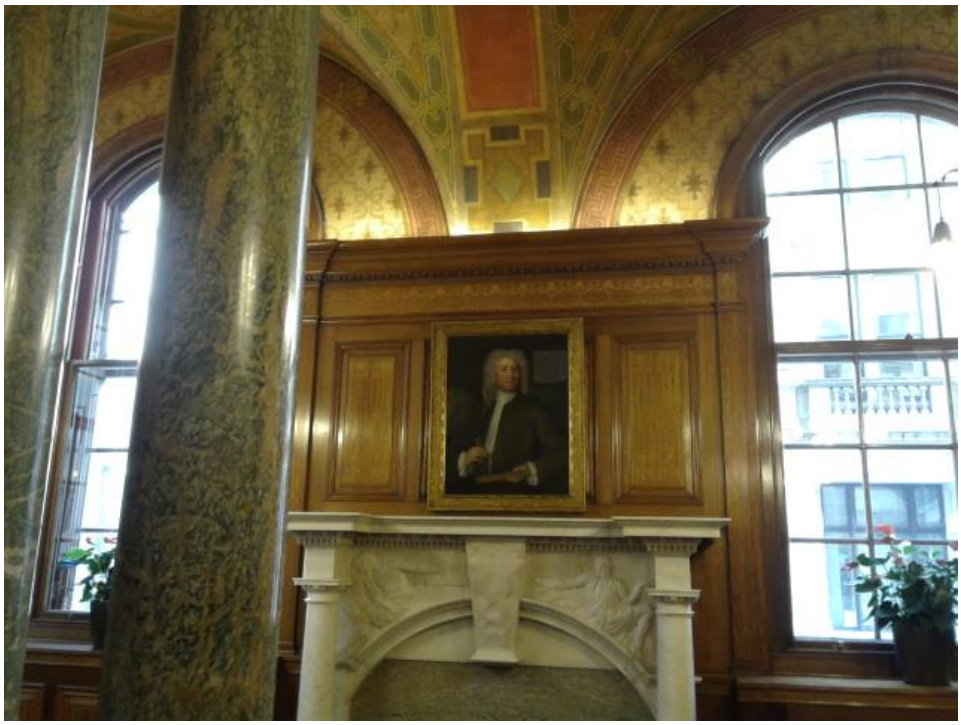
	• 11:00 to 12.00: Mr Jae-Kyun Kim, Classification and Floating Offshore Installations Please arrive at LR London Office at 09.45 on 26th 2017 at the following address and ask LR reception to contact Mr Jae-kyun Kim. Lloyd's Register, 71 Fenchurch Street, London, EC3M 4BS
Photos	GTC, Southampton 

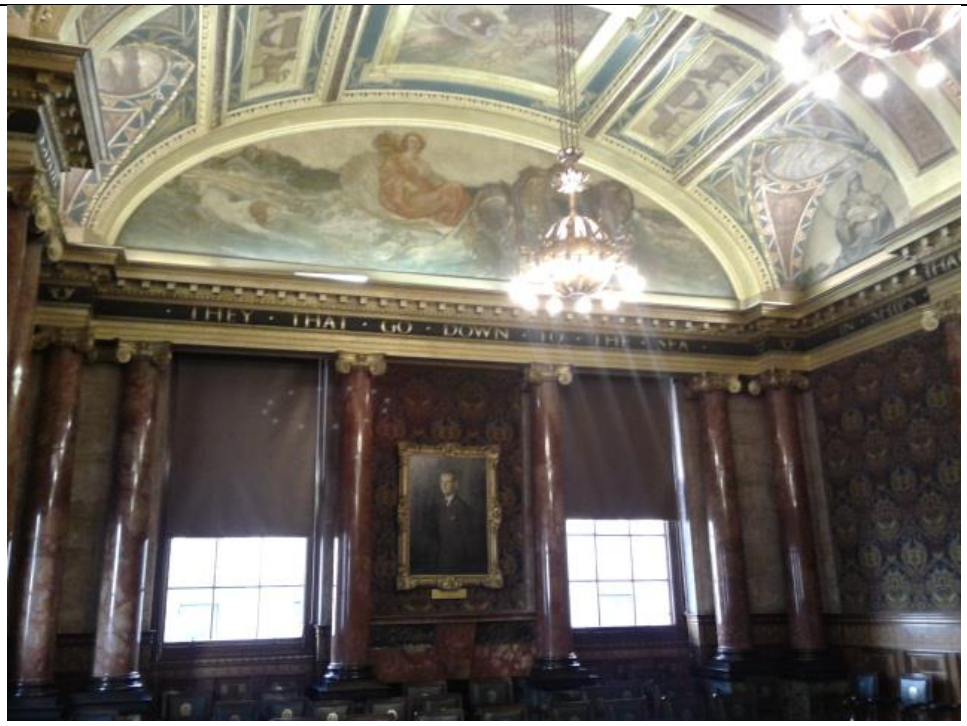

Regulatory Compliance - Regulations / Standards / Codes

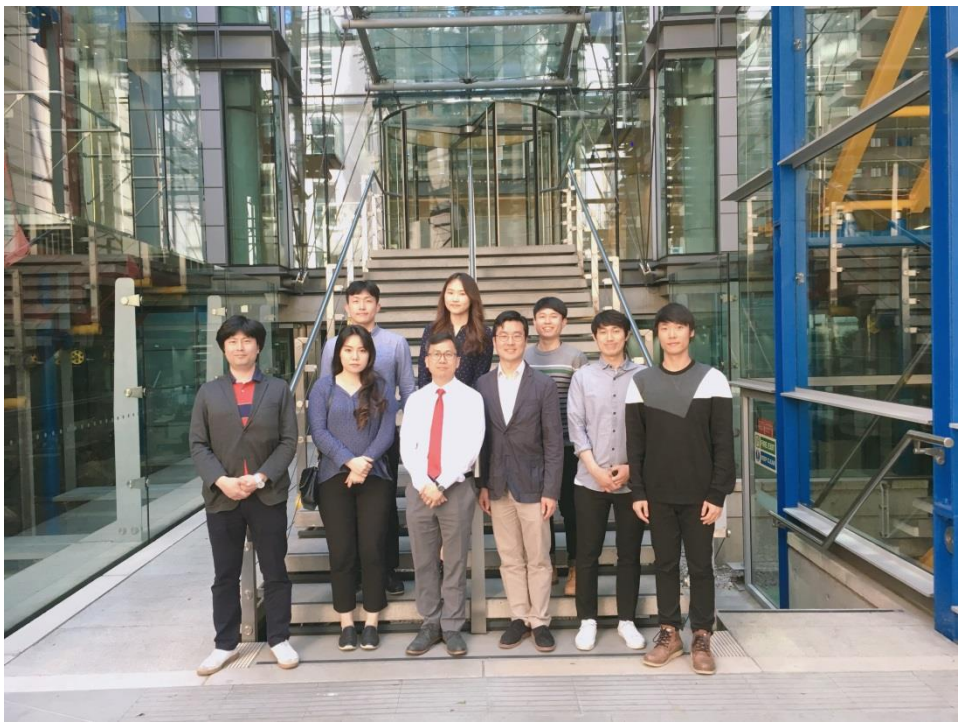


LR London

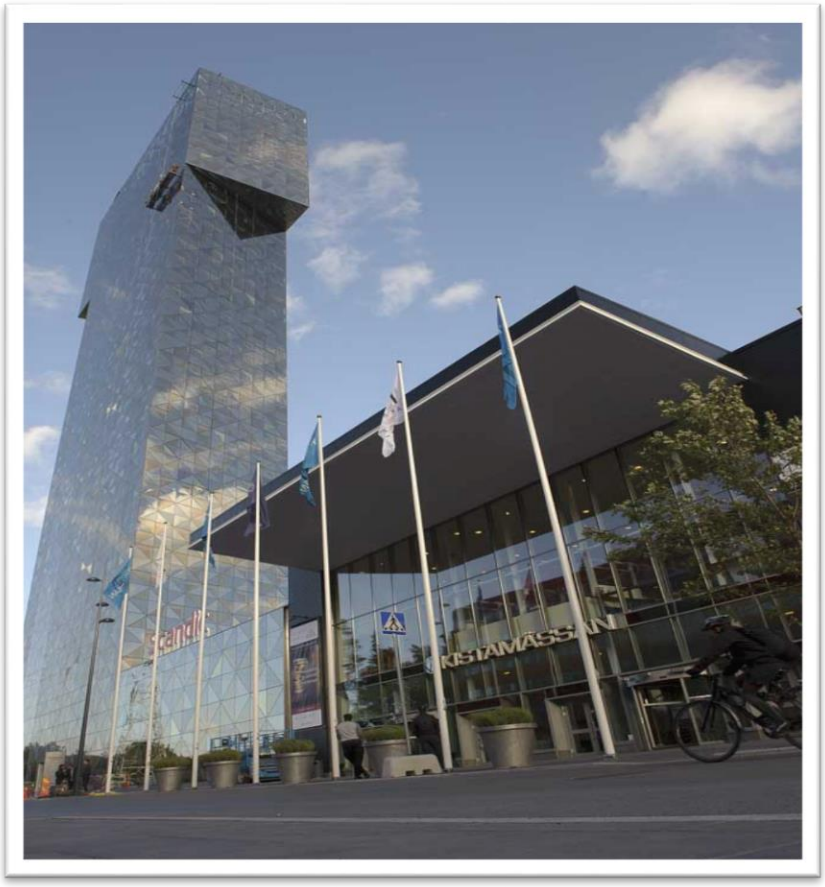








3	**EKC 2017** - **Conference** - **EKMOA and SNAK MOU**

When	26-29 July 2017
Where	KISTAMÄSSAN, KISTA, STOCKHOLM 
Attendee	Marine and ocean engineers from Europe: approx. 40 Marine and ocean engineers from Korea: approx. 20

Programme & Timetable	Massive growth in global GDP brings big opportunities to the marine industry and world trade continues to rise in line with economic expansion. The volume of seaborne trade could be double within 20 years. Oil and natural gas is expected to account for 60 per cent of global demand for energy in 20 years. Advances in technology will be the keys to meet the growing demand for energy from more diverse sources. Moreover, the offshore renewable energy area such as offshore wind energy, wave energy, tidal energy, etc. is recently growing rapidly. This indicates growing challenges and opportunities to produce offshore oil and gas, and offshore renewable energy. Growth in the world economy also results in concern for environmental impact due to marine activities. Group Marine & Ocean concerns for ocean, marine technology, marine environment, green shipping, ocean/offshore technology, geo-technology, offshore renewable energy, safety, and reliability. The Group M&O organises the following sessions in EKC 2017 Stockholm. • M&O Session 1: Maritime Safety and Environment (Room E8, 10.50 to 12.40, Thu. 27 July) • M&O Session 2: Advanced Ship Technology (Room E8, 13.30 to 15.20, Thu. 27 July) • M&O Session 3: Ocean and Offshore I (Room E8, 16.30 to 18.20, Thu. 27 July) • M&O Session 4: Ocean and Offshore II (Room E8, 10.30 to 12.40, Fri. 28 July) • M&O Session 5: Potential and Exploration of the Arctic (Room E5, 16.30 to 18.10, Fri. 28 July) • Poster Presentation Session I: Posters MO-01 ~ MO-06 (Hall 1, 15.30 to 16.15, Thu. 27 July)

- Poster Presentation Session II: Posters MO-07 ~ MO-13 (Hall 1, 15.30 to 16.15, Fri. 28 July)

- SNAK/EKMOA MOU Signing Ceremony (Room E8, 19.00 to 19.15, Thu. 27 July)
- EKMOA Annual General Meeting (Room E8, 19.15 to 20.30, Thu. 27 July)
- Networking (from 19.00, Thu. 27 July)

Find more information of Marine and Ocean Group sessions from:

- S&T programme timetable: www.ekc2017.org/page/programme/schedule
- M&O invited speakers: www.ekc2017.org/page/programme/invitedspeaker/5
- M&O talk sessions: www.ekc2017.org/page/programme/talksession/5
- M&O poster sessions: www.ekc2017.org/page/programme/postersession/5

The sessions aim to review current state-of-the-art technology as well as discuss on future development and technology industrialisation with scientists, engineers, and policy decision makers from Korea and Europe. The Group M&O also provides opportunities for participants to find collaboration partners working in the fields.

Marine & Ocean Group, EKC 2017 S&T Programme Committee

Europe-Korea Marine and Ocean Engineers Association (EKMOA)

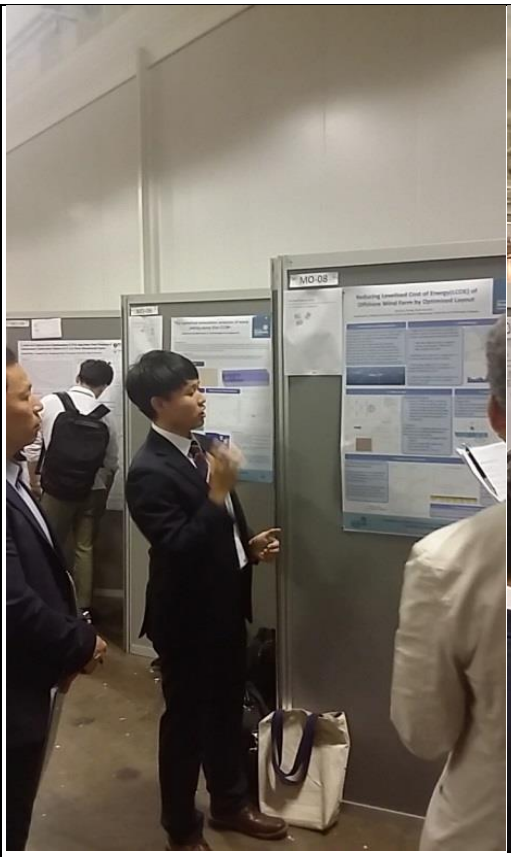
Photos	Talk sessions  

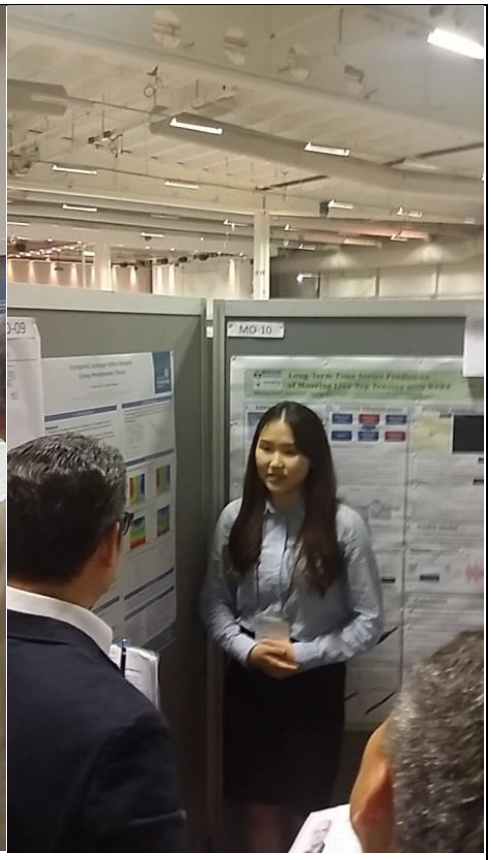

조선해양플랜트 글로벌핵심연구센터
Global Core Research Center for Ships and Offshore Plants
GCRC
SOP

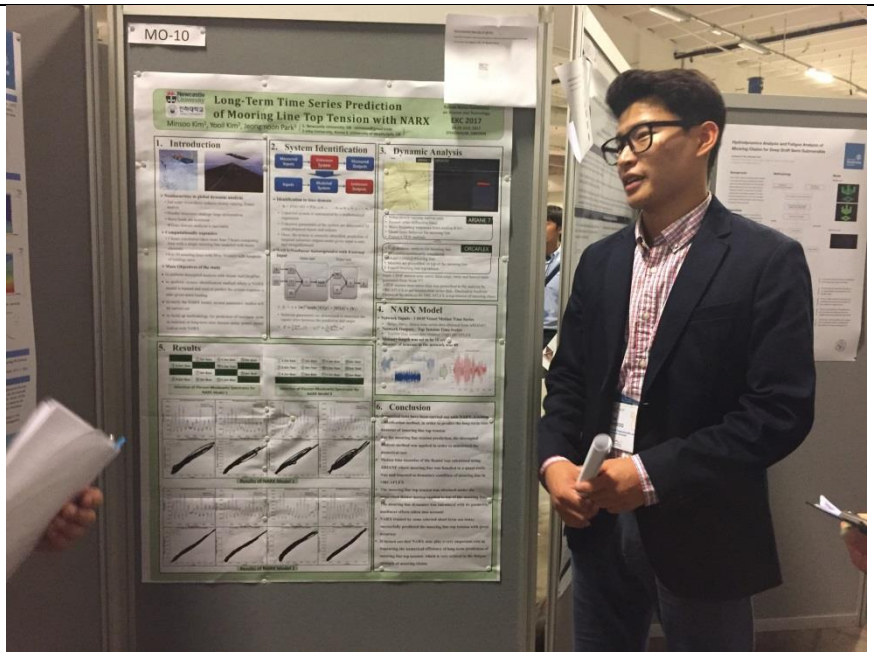

Near future research priority and need is de-carbonising of shipping:
Does this justify stronger and closer collaboration between Korea and Europe?
EKC 2017

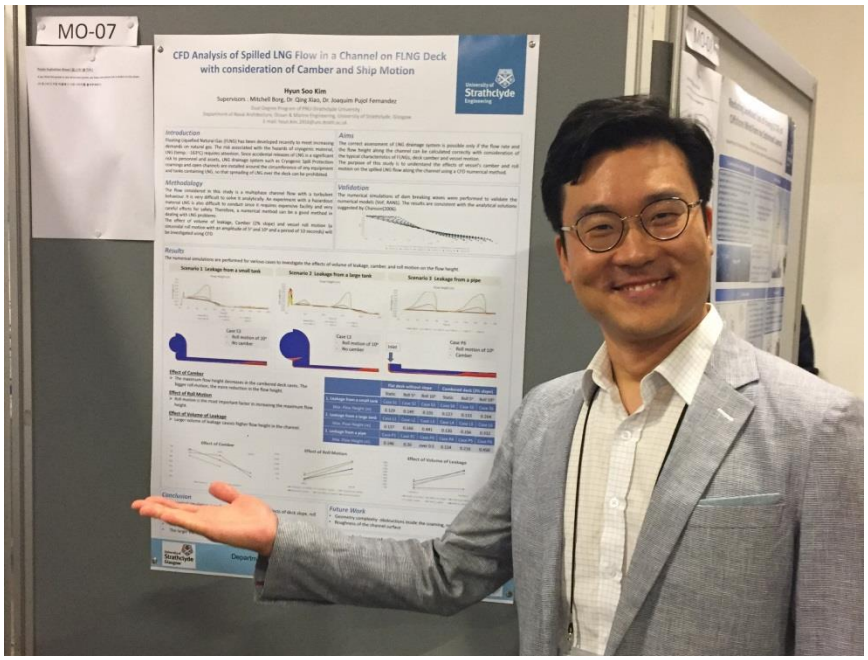


Poster sessions

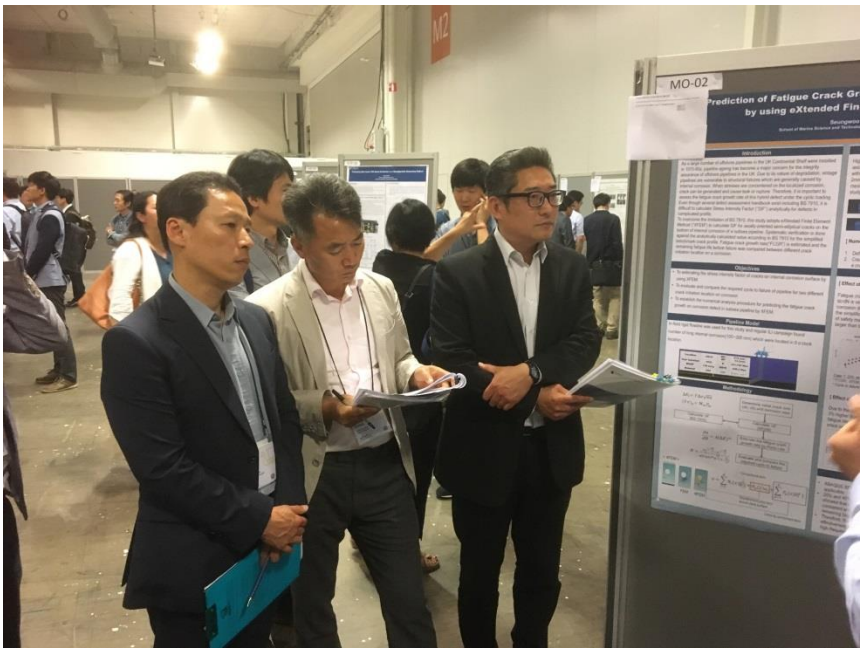

MO-08


MO-10


MO-10
Long-Term Time Series Prediction of Mooring Line Top Tension with NARX
1. Introduction
2. System Identification
3. Dynamic Analysis
4. NARX Model
5. Results
6. Conclusion


MO-07
CFD Analysis of Spilled LNG Flow in a Channel on FLNG Deck with consideration of Camber and Ship Motion
Hyun Soo Kim
University of Strathclyde Engineering




M2
MO-02

SNAK/EKMOA MOU and EKMOA AGM





EKMOA AGM


협회 소개 (회칙)
협회 목적 (1장 2조 목적)
회원 상호간 친목을 도모하고 정보와 기술 교류를 증대한다.
한국 과학기술계와의 유대를 강화한다.
조선해양분야 과학기술발전과 교류에 기여한다.
기술 영역
Offshore & marine technology
Green shipping
Subsea engineering and installation
Offshore renewable energy
Marine environment
Geo-technology
Safety and reliability
EKMOA
EKC 2017
KISTAMÄSSAN



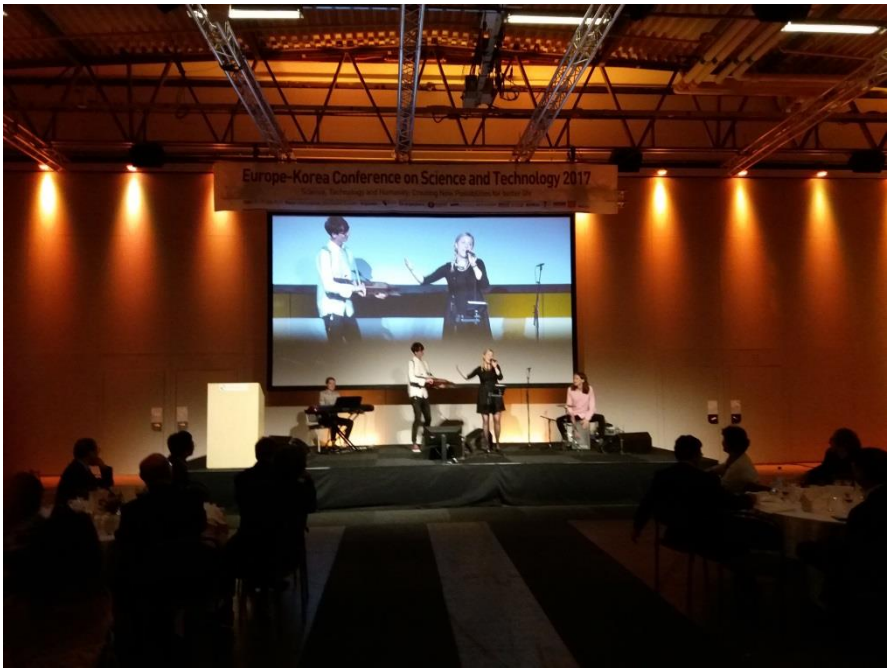
Marine and Ocean Group Networking

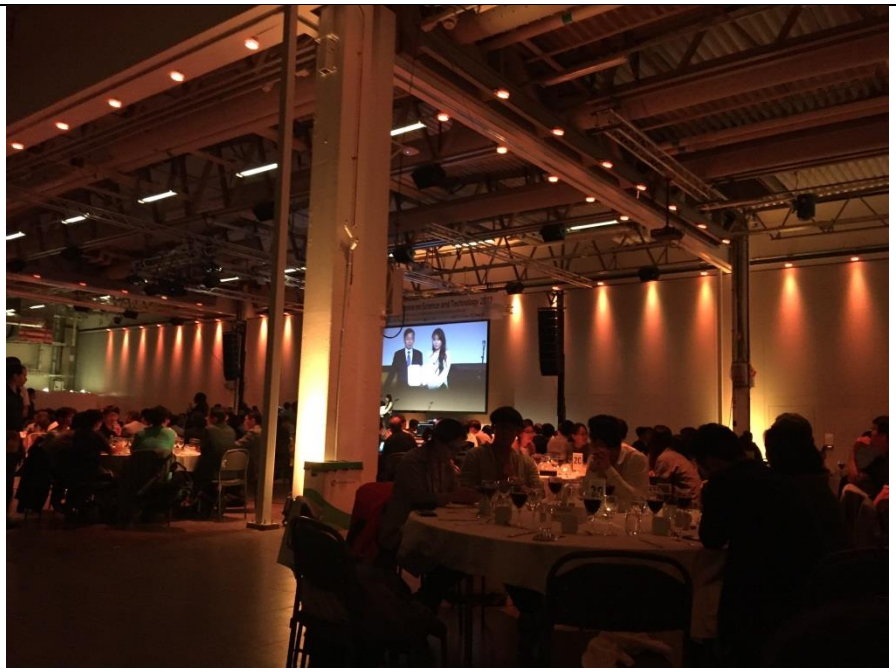






EKC 2017 Banquet





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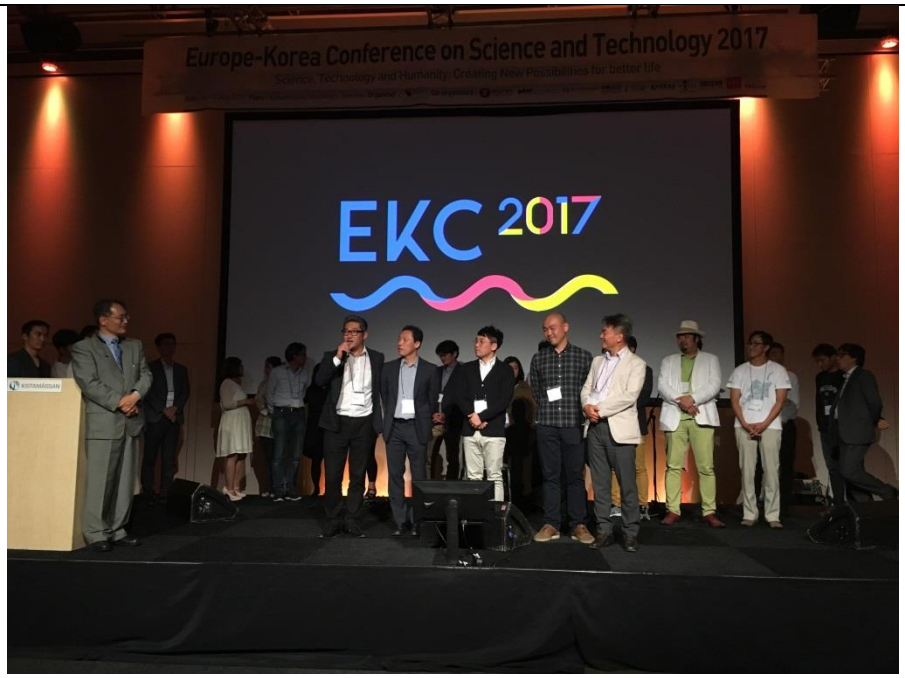
EKC 2017


Europe-Korea Conference on Science and Technology 2017
EKC 2017


Europe-Korea Conference on Science and Technology 2017
EKC 2017

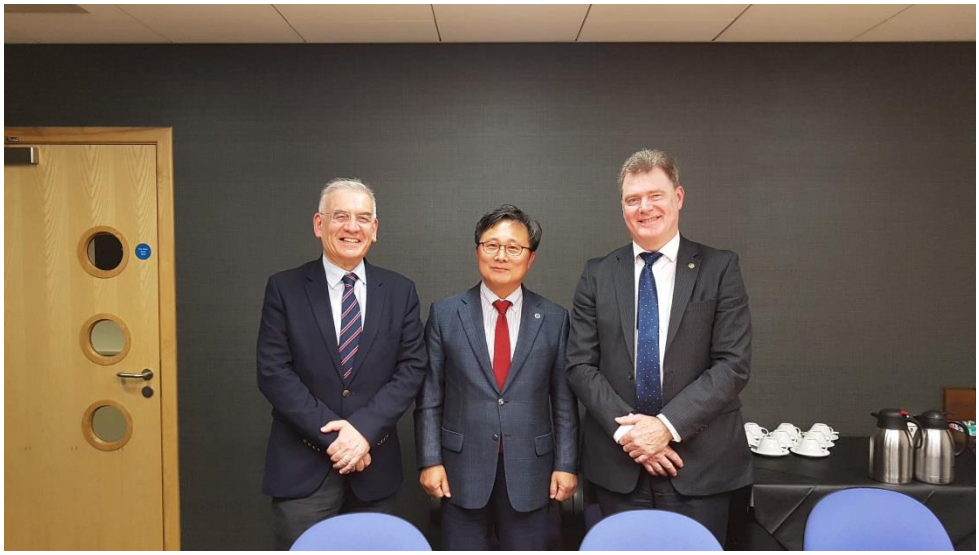
	Europe-Korea Conference on Science and Technology 2017

4 Network and training programme for EU-Korea marine and ocean experts

Date	30 July to 2 August 2017
Venue	University of Glasgow, UK University of Strathclyde, UK University of Aberdeen, UK
Participants	The president and delegates from Pusan National University (PNU), Korean MSc and PhD students in naval architectures, ocean and marine engineering, UK, delegates from Universities of Glasgow, Strathclyde and Aberdeen
Contents	• 30 July 2017 Network meeting & dinner (the president and delegates from PNU and Korean MSc and PhD students in naval architectures, ocean and marine engineering, UK) • 31 July 2017 - Collaboration meeting in University of Glasgow, UK - Collaboration meeting in University of Strathclyde, UK • 2 August 2017 Collaboration meeting in University of Aberdeen, UK
Photos	 Network meeting & dinner (30 July 2017)



Collaboration meeting in University of Glasgow (31 July 2017)





Collaboration meeting in University of Strathclyde (31 July 2017)



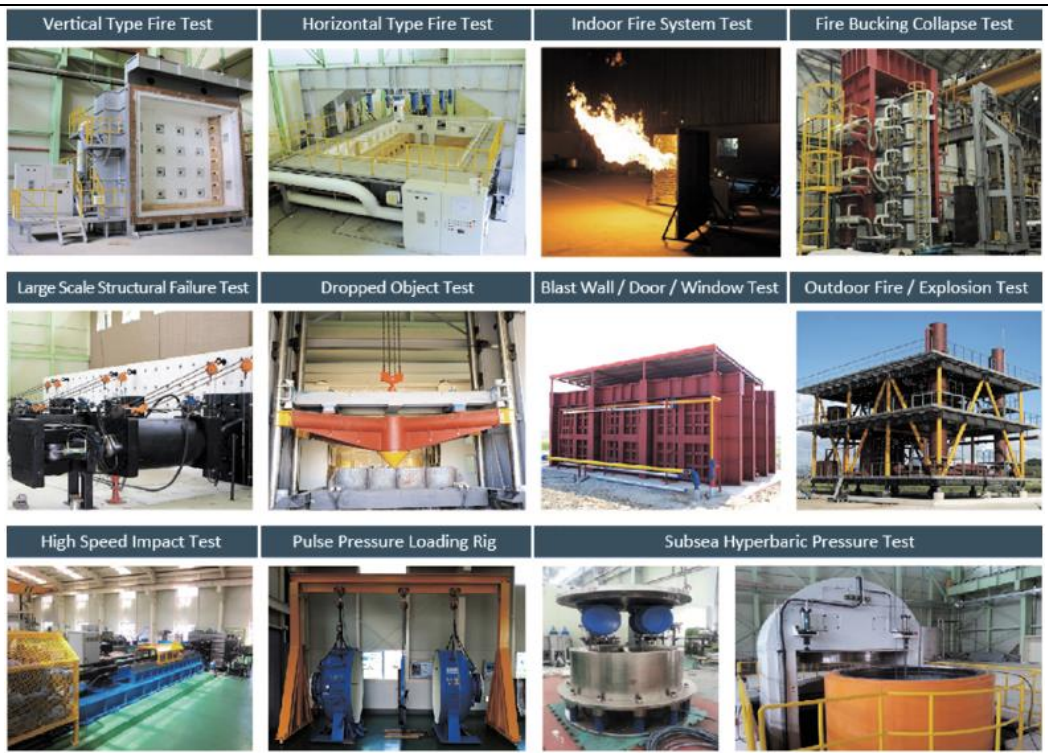




Collaboration meeting in University of Aberdeen (2 August 2017)

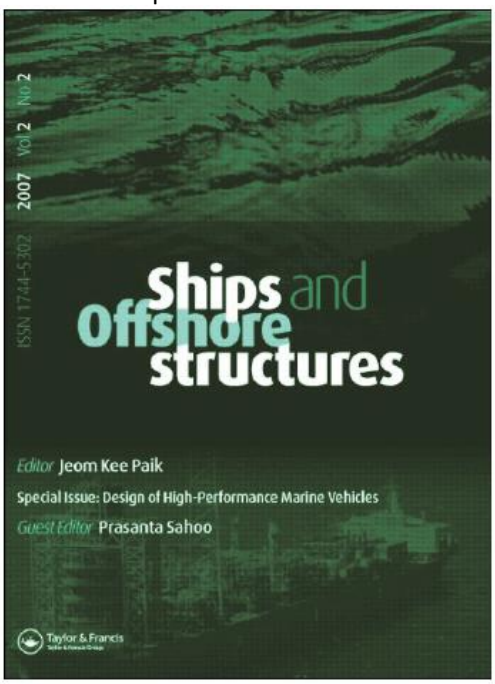
5	EKMOA and KOSORI Meeting	6 August

When	6 August, 2017
Where	BIBIGO, London
Attendee	EKMOA: Dr Yongwon Lee KOSORI: Prof Jeom-Kee Paik • Department of Naval Architecture and Ocean Engineering, Pusan National University • Department of Mechanical Engineering, University College London • President, The Korea Ship and Offshore Research Institute (The Lloyd's Register • Foundation Research Centre of Excellence) • Editor-in-Chief, Journal of Ships and Offshore Structures
Contents	1. Introduction of EKMOA and KSEAUK 2. Introduction of WSOS 2018 Glasgow 3. Introduction of EKC 2018 Marine and Ocean Sessions; and discussion on contribution to the EKC 2018 M&O Group 4. Discussion on collaboration between KOSORI and EKMOA 5. Introduction and discussion on a conference as part of Journal of Ships and Offshore Structures 6. Discussion on Prof Paik's new book: asked Dr Lee to review one chapter of the book
Photos	Test Facilities (KOSORI)



http://www.kosori.org/

Journal of Ships and Offshore Structures



http://www.tandfonline.com/toc/tsos20/current

6 CNU Visit LR GTC and UoS Event

When	25th August 2017
Where	University of Southampton & Lloyd's Register Global Technology Centre Southampton Boldrewood Innovation Campus, Southampton, SO16 7QF, UK
Attendee	University of Southampton: Prof Philip Wilson Lloyd's Register: Dr Yongwon Lee, Dr Reddy Devalapalli, Ms Ivy Fang Visitors (Changwon National University): Prof KOO, BON GUK, _____ Mr PARK, SE HEE, _____ Ms LEE, NA YOUNG, _____ Ms PARK, DA SOL, _____ Mr KONG, BYEONG HO, _____
Timetable	Meeting agenda: *AM: University of Southampton* • 09.10 to 09.20: Prof Philip Wilson, "Welcome & Introduction" • 09.20 to 12.00: Prof Philip Wilson, "Introduction of Fluid Structure Interaction Ship Science" & "Towing Tank Tour" For UoS visit, please communicate with Prof Philip Wilson _____

	Lunch • 12.30 to 14.00: Lunch at LR GTC Canteen *PM: Lloyd's Register Global Technology Centre* • 14.00 to 14.10: Dr Yongwon Lee, "Welcome & Introduction" • 14:10 to 14.25: Dr Reddy Devalapalli, "Introduction of Strategic Research Group Activities" • 14:25 to 14.50: Ms Ivy Fang, "Advanced Materials and Robotics" • 14.50 to 15.40: Dr Yongwon Lee, "What's Classification" & "Research and Capability Development in Marine & Offshore" • 15.40 to 16.00: Coffee and Tea • 16.00 to 17.00: Dr Yongwon Lee, "Discussion & LR GTC Tour" • 17.30 to 20.00: Dinner <u>Please arrive at LR GTC at 9.00 on 25th August 2017</u> at the following address and ask LR GTC reception to contact Dr Yongwon Lee. Lloyd's Register Global Technology Centre (LR GTC) Burgess Road, Southampton Boldrewood Innovation Campus, Southampton, SO16 7QF, UK
Photos	




Introducing Selected Research Project in Advanced Materials
and Robots for the Marine Industry


Lloyd's Register Global Technology Centre



7 EKMOA-KOSHIPA MOU Signing & Meeting with Korea Marine and Offshore Industry Delegates

Date	2 September 2017
Venue	Park Inn Hotel by Radisson London Heathrow
Participants	Total 10 persons: 3 persons (EKMOA, Europe-Korea Marine and Ocean Engineers Association) 2 persons (KOSHIPA, Korea Shipbuilders' Association) 4 persons (2, Hyundai Heavy Industries; 1 , Samsung Heavy Industries; 1 DSME) 1 person (Department for International Trade, British Embassy Seoul)
Contents	• EKMOA-KOSHIPA MOU Signing - EKMOA: Dr Yongwon Lee (The President, LR), Dr Mingyu Kim (Vice president, University of Strathclyde), Dr Thomas Nam (Vice president, LR) - KOSHIPA: Mr Oh-Yoon Kwon (General manager, Policy Planning Team), Mr Sungeun Ha (Team member, Policy Planning Team) • Meeting with KOSHIPA and Offshore industry delegates - Discussion for future Korea-Europe collaboration and business
Photos	 EKMOA-KOSHIPA MOU Signing (2 September 2017)



EKMOA-KOSHIPA MOU Signing (2 September 2017)



EKMOA-KOSHIPA MOU Signing (2 September 2017)

8 Meeting with new dual-degree students in University of Strathclyde

Date	4 October 2017
Venue	University of Strathclyde
Participants	Total 10 persons: 2 persons (EKMOA, Europe-Korea Marine and Ocean Engineers Association) 15 persons (new master degree students) 1 person (Staff of University of Strathclyde)
Contents	• Greeting with new Dual-degree students - Introduction of EKMOA by Dr Mingyu Kim (Vice president, University of Strathclyde) and participated by Mr byongug Jeong (Financial Director, University of Strathclyde) - Greeting and providing general advices for oversee studies to new Master degree students
Photos	 EKMOA-KOSHIPA MOU Signing (2 September 2017)

9 Steering Committee Meeting of UK-Korea Dual Degree Programme

When

6th November, 2017

Where

Lloyd's Register Global Technology Center, Southampton, UK

Attendee

Lloyd's Register:

Yongwon Lee and Thomas Nam

Visitors:

S/N	Name	Organisation	E-mail address
1	Bonsung KU	KOSHIPA	
2	Wonyang LEE	KOSHIPA	
3	Ayeong CHOI	KOSHIPA	
4	Youngmin KIM	KIAT	
5	Kwanghyo Jung	Pusan National University	
6	Janghyun Lee	INHA University	
7	Minjung Hwang	INHA University	
8	Jae-whue YI	Hyundai Heavy Industries	

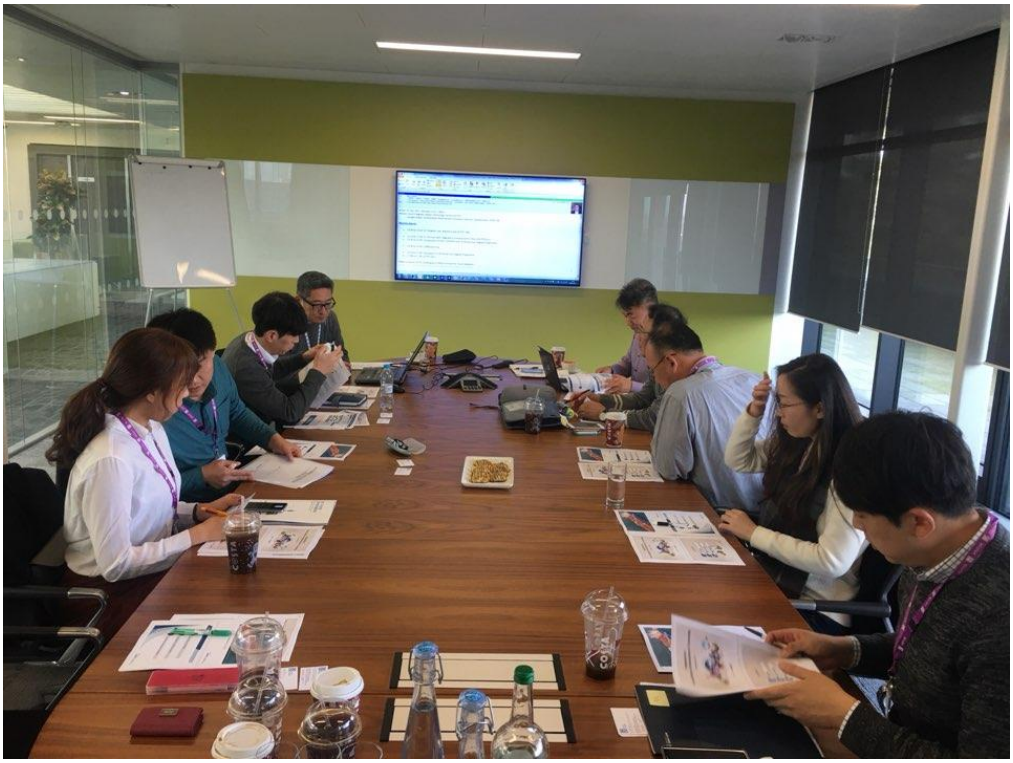
Contents

Meeting Agenda

- 13.00 to 13.10: Dr Yongwon Lee, Welcome and LR GTC H&S
- 13.10 to 13.50: Dr Thomas Nam, Regulatory Compliance for Marine & Offshore
- 13:50 to 14.30: Introduction of KIAT, KOSHIPA and UK-Korea Dual Degree Programme
- 14.30 to 14.50: Coffee and Tea
- 14.50 to 17.00: Discussion on UK-Korea Dual Degree Programme
  - ✓ Collect information about UK/Europe Marine and Offshore industry
  - ✓ Strengthen ties between UK/Europe and Korea
  - ✓ Discuss direction of development about the Programme
- 17.00 to 17.30: LR GTC tour

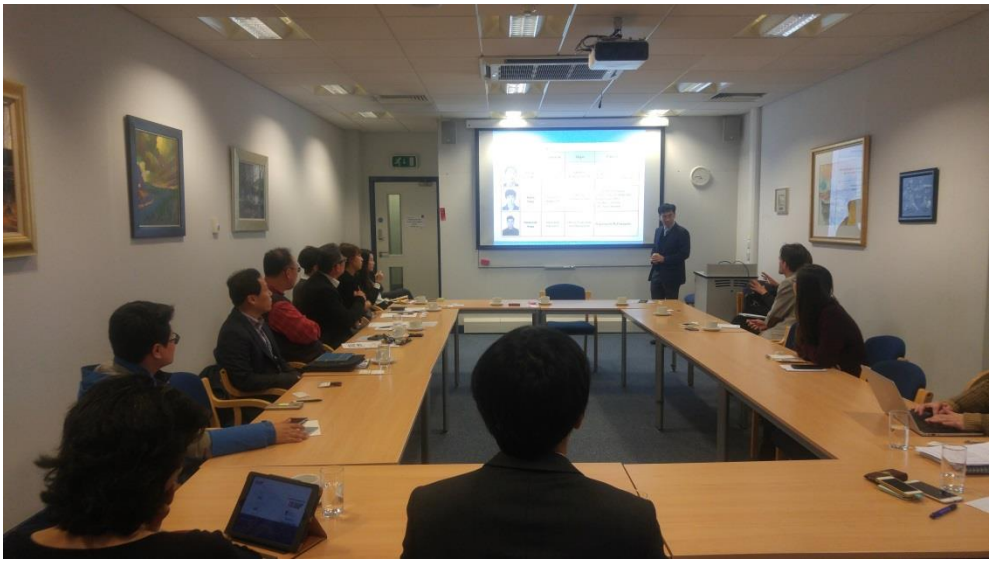
Photos	





10 UK-Korea Programme meeting with University of Strathclyde

Date	8 November 2017
Venue	University of Glasgow, UK
Participants	- Youngmin Kim, Senior Researcher (KIAT) - Prof. Kwanghyo Jung (Pusan National University) - Prof. Weoncheol Koo, Prof. Janghyun Lee and 2 staff members (Inha University) - Mr. Bonsung Ku and 2 staff members (KOSHIPA) - Mr. Jaewhue YI (Hyundai Heavy Industries) - Mr. Changho Jung, Mr. Choongsoo Shin (RIMS) - Dr. Migeun Park (University of Strathclyde & KSEAUK) - Dr. Yongwon Lee (Lloyd's Register & EKMOA & KSEAUK) - Dr. Mingyu Kim (University of Strathclyde & EKMOA & KSEAUK) - Prof. Atilla Incecik (Executive Dean of Engineering, University of Strathclyde) - Dr. Julia Race (Head of Department, University of Strathclyde) - Dr. Tahsin Tezdogan (Lecturer, University of Strathclyde) - Mr. Alex Cahoon (Recruitment officer , University of Strathclyde) - 13 Dual-degree MSc students (University of Strathclyde)
Contents	• Briefing from Strathclyde on the current courses and updates for the dual-degree MSc programme and students • Briefing from Inha and PNU on the current courses, updates, and future plan of the programme • Discussion including feedback and suggestion on the programme • Discussion and feedback from MSc students • Dinner with further discussion

Photos	 Briefing on the current courses and updates  Discussion and feedback from MSc students



Discussion and feedback from MSc students



Dinner with further discussion

11	UK-Korea Programme meeting with Newcastle	9 November

When	9th November, 2017
Where	Newcastle University, Newcastle upon Tyne, UK
Attendee	Lloyd's Register & EKMOA (Europe-Korea Marine and Ocean Engineers Association) Dr Yongwon Lee Newcastle University Professor Robert S. Dow, Dr Simon Benson, Dr Rose Norman, Dr Yongchang Pu, Mrs Jayne Marsterson, Mrs Laura Johnstone Korea Institute for Advancement of Technology (KIAT) Mr Youngmin Kim (Senior Researcher) Pusan National University Prof Kwanghyo Jung Inha University Prof Weoncheol Koo, Prof Janghyun Lee, Mr Sanghwan Heo, Ms Minjung Hwang Korea Offshore & Shipbuilding Association (KOSHIPA) Mr Bonsung Ku (Deputy Head), Ms Wonyang Lee, Ms Ayeong Choi Hyundai Heavy Industries Mr Jae-whue Yi (HR)

Timetable

Meeting Agenda

Time	Venue	Meeting	DISCUSSION
15:00 – 17:00	Conference Room (Room 1.53B) in Armstrong Building (First Floor)	Dual MSc Dual/Joint PhD Industry Advisory Activities	Feedback and Suggestion on the dual MSc programme The dual/joint PhD programme Necessity for activating industry advisory report Industry advisor as mentor for students The way to certificate the report/log
17:00 – 18:00	Conference Room (Room 1.53B) in Armstrong Building (First Floor)	Meeting with Korean MSc students	11 professors and staff from Korea and 5 MSc students
18:30 -	Six Restaurant	Dinner	

Photos




Welcome to Newcastle University
Marine, Offshore and Subsea Technology Group (MOST)
School of Engineering
Armstrong Building
Robert S Dow
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