EKMOA Webzine

Europe-Korea Marine and Ocean Engineers Association

Decemeber 2018

EKMOA Europe-Korea Marine and Ocean Engineers Association

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1. WSOS 2018 (Workshop on Ships and Offshore Structures 2018)

날짜	7-10 February 2018
장소	Technology and Innovation Centre, University of Strathclyde, Glasgow
일정/위원회	See Appendices A & B
수입/지출 내역	유럽조선해양전문가협회 (EKMOA) 주관행사로 EKMOA 재무이사가 EKMOA 운영위원회에 제출
행사소개	**Workshop on Ships and Offshore Structures 2018**  Technology and Innovation Centre, University of Strathclyde Workshop on Ships and Offshore Structures invite you to WSOS 2018 which will take place in Glasgow, United Kingdom, 7-10 February 2018. This year workshop is organised by EKMOA (Europe-Korea Marine and Ocean Engineers Association) and University of Strathclyde. Workshop scope: ocean, marine technology, marine environment, green shipping, ocean/offshore technology, geo-technology, renewable energy, autonomous and smart ship, rules and regulations, risk, safety and reliability. WSOS 2018 aims to review current state-of-the-art technology and discuss on future development. discuss collaboration of research, development and innovation with researchers, engineers, and policy decision makers from Korea and UK/Europe. encourage mutual understandings and cultivate friendship between Korea and UK/Europe. exchange views on “Korea-UK Dual Degree Programme”.

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	the workshop is as part of the broader programme, the UK-Korea Joint Committee Meetings on Science & Technology Cooperation (JCM). The JCM has been a biennial event between UK and Korea governments since 1985.
모임 내용	1. WSOS 2018 steering committee meeting 2. Keynote speech, four technical sessions and two special sessions in marine technology and ocean engineering 3. Number of attendees: 50-60 from UK, Europe and South Korea; 20 from South Korea 4. 선박, 해양 에너지, 해양 환경 분야의 산업화 현황을 파악하고, 영국(유럽)과 한국의 국가, 기관, 기업, 학교간의 공동 연구 방안을 모색 5. EU 프로젝트 소개와 협력 방법/방향 6. 한국과 영국의 조선, 해양 산업분야 정책 결정자, 연구자, 그리고 기술자 간의 네트워크 발전과 강화에 대한 논의 7. WSOS, EKC 등 영국/유럽에서 주관하는 행사에서의 공동 세션 구성에 대한 논의 8. 대한조선학회 학술대회 유럽전문가 세션 구성 및 참여 9. 대한조선학회 SCIE 저널에 EKC/WSOS 에 발표된 연구내용 추천 및 개제에 대한 논의 10. Korea-UK Dual Degree Programme 시행으로 발생한 문제점과 개선방향 11. WSOS Budget 에 대한 논의 12. 차기 WSOS 개최일과 개최지에 대한 결정: the 4th WSOS, Newcastle upon Tyne, February or March 2019

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모임 사진	 

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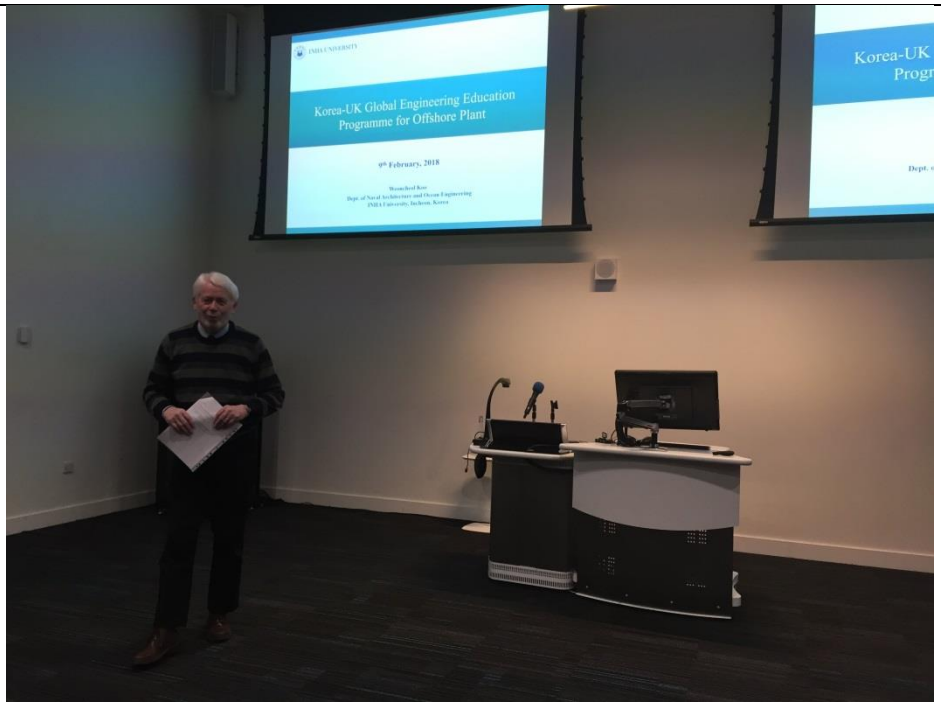



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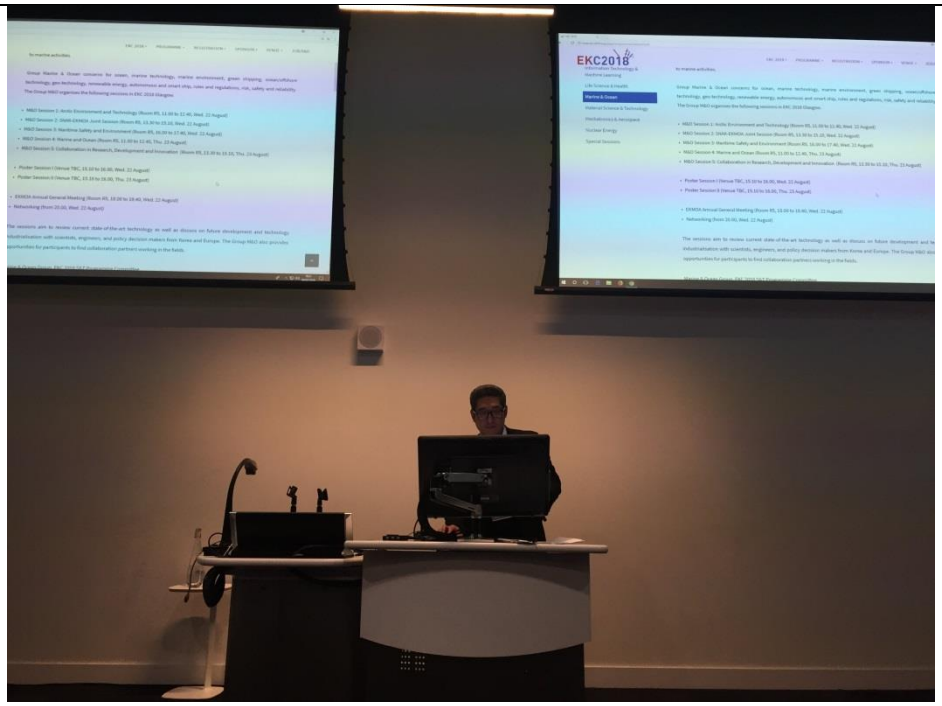



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발표 자료	**WSOS 2018 발표자료와 최종프로그램은 참석자들과 유관 기관에 기 배포됨.**

2018 년 04 월 07 일

작성자: 이용원

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Appendix A

Programme

Day 1 Wed. 7 Feb.	**19.00 –** **21.00**	**WSOS steering committee meeting & dinner**
Day 2 Thu. 8 Feb.	**09.00 –** **10.00**	**Registration**
	09.30 – **09.40**	**Opening & welcome** Dr Julia RACE, University of Strathclyde
	09.40 – **10.20**	**Congratulatory speeches** Dr Migeun PARK, KSEAUK & Mr Sunghoon HWANG, Korean Embassy London **Keynote speech** Prof Atilla INCECIK, University of Strathclyde
	10.20 – **12.00**	**Marine Technology I** Chair: Dr Julia RACE, University of Strathclyde
	12.00 – **13.00**	Lunch
	13.00 – **15.00**	**Marine Technology II** Chair: Dr Yongwon LEE, Lloyd's Register
	15.00 – **15.20**	Coffee & tea break
	15.20 – **17.00**	**Ocean Engineering I** Chair: Prof Weoncheol KOO, Inha University
	19.00 – **21.00**	Workshop dinner

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Day 3 Fri. 9 Feb.	**09.30 –** **10.30**	**Registration**
	10.00 – **12.00**	**Ocean Engineering II** Chair: Prof Kwanghyo JUNG, Pusan National University
	12.00 – **13.00**	Lunch
	13.00 – **14.20**	**Korea-UK dual degree programme** Chair: Prof Robert S. DOW, Newcastle University
	14.20 – **14.40**	Coffee and tea break
	14.40 – **16.40**	**R&D collaboration** Chair: Prof Mehmet ATLAR, University of Strathclyde
	16.40 – **17.00**	**Closing** Dr Yongwon LEE, Lloyd's Register

Day 4 Sat. 10 Feb.	**09.00 –** **12.00**	**EKMOA steering committee meeting** EKMOA steering committee members ONLY Venue: Millennium Hotel Glasgow

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Appendix B

Steering Committee

Yongwon Lee, Lloyd's Register (Chair)

Julia Race, University of Strathclyde (Co-chair)

Mingyu Kim, University of Strathclyde (Programme Coordinator)

Byongug Jeong, University of Strathclyde (Secretary)

Atilla Incecik, University of Strathclyde

Yongchang Pu, Newcastle University

Kwanghyo Jung, Pusan National University

Weoncheol Koo, INHA University

Technical Programme Committee

Joonmo Choung, INHA University

Gareth Davies, British Science and Innovation Network

Robert S. Dow, Newcastle University

Atilla Incecik, University of Strathclyde

TaeHwan Joung, KRISO

Kwanghyo Jung, Pusan National University

Mingyu Kim, University of Strathclyde

Weoncheol Koo, INHA University

Taeil Lee, Hyundai Maritime Research Institute, HHI

Yongwon Lee, Lloyd's Register

Youngbum Lee, DSME

Dong Nam, Lloyd's Register

Migeun Park, University of Strathclyde

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Yongchang Pu, Newcastle University

Julia Race, University of Strathclyde

Sungchul Shin, Pusan National University

Longbin Tao, University of Strathclyde

Gijae Yun, UTEC



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2. University of Strathclyde NAOME Students LR Visit

<table>
<tr><td>When</td><td>5 April, 2018</td></tr>
<tr><td>Where</td><td>Lloyd's Register Global Technology Center,
Boldrewood Innovation Campus, Southampton, SO16 7QF, UK</td></tr>
<tr><td>Attendee</td><td>Lloyd's Register:
Yongwon Lee, Thomas Nam, Reddy Devalapalli, Alejandro Caldas
Visitors:
<table>
<tr><th>S/N</th><th>Student</th><th>University</th><th>E-mail address</th></tr>
<tr><td>1</td><td>Dosoo Kwon</td><td>University of Strathclyde</td><td></td></tr>
<tr><td>2</td><td>Heeyong Nho</td><td>University of Strathclyde</td><td></td></tr>
<tr><td>3</td><td>Dongsoo Kim</td><td>University of Strathclyde</td><td></td></tr>
<tr><td>4</td><td>Sunkyu Lee</td><td>University of Strathclyde</td><td></td></tr>
<tr><td>5</td><td>Jinhae Kim</td><td>University of Strathclyde</td><td></td></tr>
<tr><td>6</td><td>Minjae Shin</td><td>University of Strathclyde</td><td></td></tr>
<tr><td>7</td><td>Minsuk Kim</td><td>University of Strathclyde</td><td></td></tr>
<tr><td>8</td><td>Hyunchul Kim</td><td>University of Strathclyde</td><td></td></tr>
<tr><td>9</td><td>Kyutack Hong</td><td>University of Strathclyde</td><td></td></tr>
<tr><td>10</td><td>Bongkun Cho</td><td>University of Strathclyde</td><td></td></tr>
<tr><td>11</td><td>Yoseop Kang</td><td>University of Strathclyde</td><td></td></tr>
</table></td></tr>
<tr><td>Timetable</td><td>Meeting agenda:
14.00 to 14.10: Dr Yongwon Lee, Welcome & LR GTC H&S
14.10 to 14.40: Dr Reddy Devalapalli, Introduction of Strategic Research Group
14:40 to 15.10: Mr Alejandro Caldas, CFD Applications to the Marine Industry
15.10 to 15.40: Dr Thomas Nam, Regulatory Compliance for Marine & Offshore
15.40 to 16.10: Dr Yongwon Lee, Research and Capability Development in Marine & Offshore
16.10 to 17.00: Discussion on UK-Korea Dual Degree Programme
17.30 to 19.00: Dinner</td></tr>
</table>

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Income / Expense	Will submit an expense claim form to EKMOA SC.
Photos	 

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<table>
<tr><td></td><td></td></tr>
<tr><td>Presentation</td><td>Sent presentations to University of Strathclyde. Also informed following links:
• Global Marine Technology Trends 2030:

https://www.lr.org/en/insights/global-marine-trends-2030/global-marine-technology-trends-2030/
• Global Marine Fuel Trends 2030:

https://www.lr.org/en/insights/global-marine-trends-2030/global-marine-fuel-trends-2030/
• Global Marine Technology Trends 2030 Autonomous Systems:

https://www.lr.org/en/insights/global-marine-trends-2030/global-marine-technology-trends-2030-autonomous-systems/</td></tr>
</table>

20th April 2018

Yongwon Lee

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3. Gyeongsang National University LR GTC Visit

<table>
<tr><td>When</td><td>23 July, 2018</td></tr>
<tr><td>Where</td><td>Lloyd's Register Global Technology Center,
Boldrewood Innovation Campus, Southampton, SO16 7QF, UK</td></tr>
<tr><td>Attendee</td><td>Lloyd's Register:
Yongwon Lee, Thomas Nam
Visitors:
<table>
<tr><th>S/N</th><th>Student</th><th>University</th><th>E-mail address</th></tr>
<tr><td>1</td><td>Jong Tae KIM</td><td>Gyeongsang National University</td><td></td></tr>
<tr><td>2</td><td>Geun Gon KIM</td><td>Gyeongsang National University</td><td></td></tr>
<tr><td>3</td><td>Jin Hwan KIM</td><td>Gyeongsang National University</td><td></td></tr>
<tr><td>4</td><td>Yeong Gyun KIM</td><td>Gyeongsang National University</td><td></td></tr>
</table></td></tr>
<tr><td>Timetable</td><td><u>Meeting agenda:</u>

• 15.00 to 15.10: Dr Yongwon Lee, Welcome & LR GTC H&S

• 15.10 to 15.50: Dr Thomas Nam, Regulatory Compliance for Marine & Offshore
• 15.50 to 16.30: Dr Yongwon Lee, Research and Capability Development in Marine & Offshore

• 16.30 to 17.00: Discussion and GTC Tour

• 17.30 to 19.00: Dinner

<u>Please arrive at LR GTC at 14.45 on 23rd July 2018</u> at the following address and ask for me at reception.

Lloyd's Register Global Technology Centre (LR GTC)
Burgess Road, Southampton Boldrewood Innovation Campus, Southampton, SO16 7QF, UK</td></tr>
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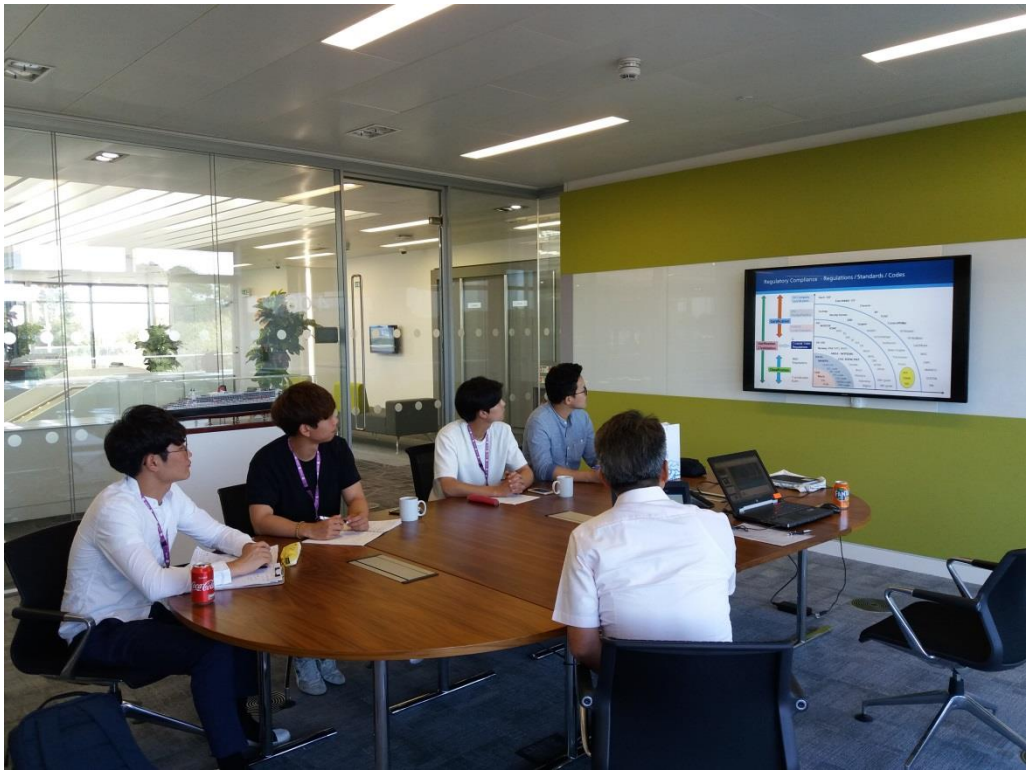
Income / Expense	Will submit an expense claim form to EKMOA SC.
Photos	 

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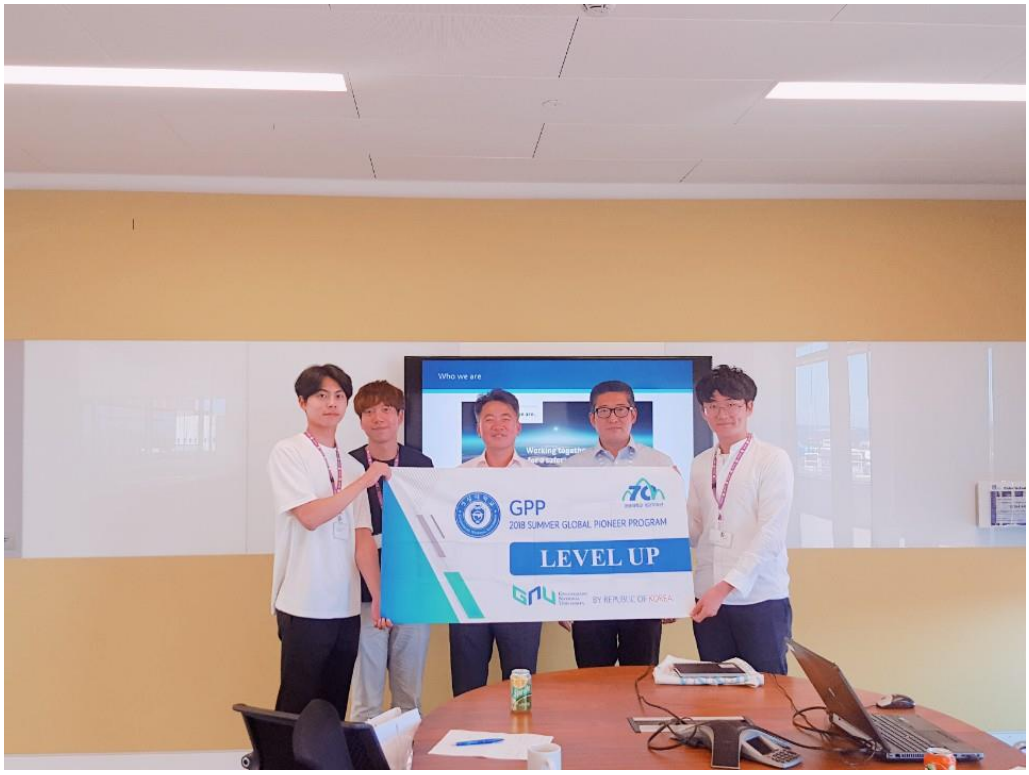
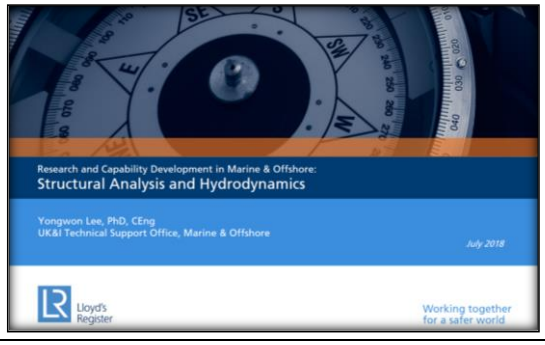


Presentation

Sent the presentations to Gyeongsang National University.





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	Also informed following links: • Global Marine Technology Trends 2030: https://www.lr.org/en/insights/global-marine-trends-2030/global-marine-technology-trends-2030/ • Global Marine Fuel Trends 2030: https://www.lr.org/en/insights/global-marine-trends-2030/global-marine-fuel-trends-2030/ • Global Marine Technology Trends 2030 Autonomous Systems: https://www.lr.org/en/insights/global-marine-trends-2030/global-marine-technology-trends-2030-autonomous-systems/

20th September 2018

Yongwon Lee

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EKC 2018 Glasgow:

4. Marine and Ocean Group Event Summary

When	19-24 August 2018
Where	The Technology and Innovation Centre, George St, Glasgow G1 1QH  Technology and Innovation Centre, University of Strathclyde 
Attendee	Marine and ocean engineers from Europe: approx. 40 Marine and ocean engineers from Korea: approx. 20

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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, naval defence, geo-technology, renewable energy, autonomous and smart ship, rules and regulations, risk, safety and reliability. The Group M&O organises the following sessions in EKC 2018 Glasgow. • M&O Session 1: Arctic Environment and Technology (Room R5, 11.00 to 12.50, Wed. 22 August) • M&O Session 2: Marine and Ocean I (Room R5, 13.30 to 15.15, Wed. 22 August) • M&O Session 3: Maritime Safety and Environment (Room R5, 16.00 to 17.40, Wed. 22 August) • M&O Session 4: Marine and Ocean II (Room R5, 11.00 to 12.50, Thu. 23 August) • M&O Session 5: Collaboration in Research, Development and Innovation (Room R5, 13.30 to 15.10, Thu. 23 August) • M&O Session 6: [KIGAM] Carbon Capture Utilization and Storage (Room R5, 16.00 to 17.40, Thu. 23 August) • M&O Poster Session I (P5 to P6, Level 3 Foyer, 15.10 to 16.00, Wed. 22 August) • M&O Poster Session II (P5 to P6, Level 3 Foyer, 15.10 to 16.00, Thu. 23

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	August) • KIMST/EKMOA Collaboration (Venue TBC, 11.00 to 12.00, Tue. 21 August) • KRISO/EKMOA MOU Signing Ceremony (Room R7, 17.45 to 18.00, Wed. 22 August) • Dinner (Room R7, 17.30 to 18.30, Wed. 22 August) • EKMOA Annual General Meeting (Room R7, 18.30 to 20.00, Wed. 22 August) • Networking (Venue TIC, from 20.00, Wed. 22 August) Find more information of Marine and Ocean Group sessions from: • S&T programme timetable: http://www.ekc2018.org/page/programme/schedule-web • M&O invited speakers: http://www.ekc2018.org/page/programme/invitedspeaker/8 • M&O talk sessions: http://www.ekc2018.org/page/programme/oralsession/8 • M&O poster sessions: http://www.ekc2018.org/page/programme/postersession/8 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 2018 S&T Programme Committee Europe-Korea Marine and Ocean Engineers Association (EKMOA)
Income / Expense	Will submit an expense claim form
Photos	**[Oral sessions]**

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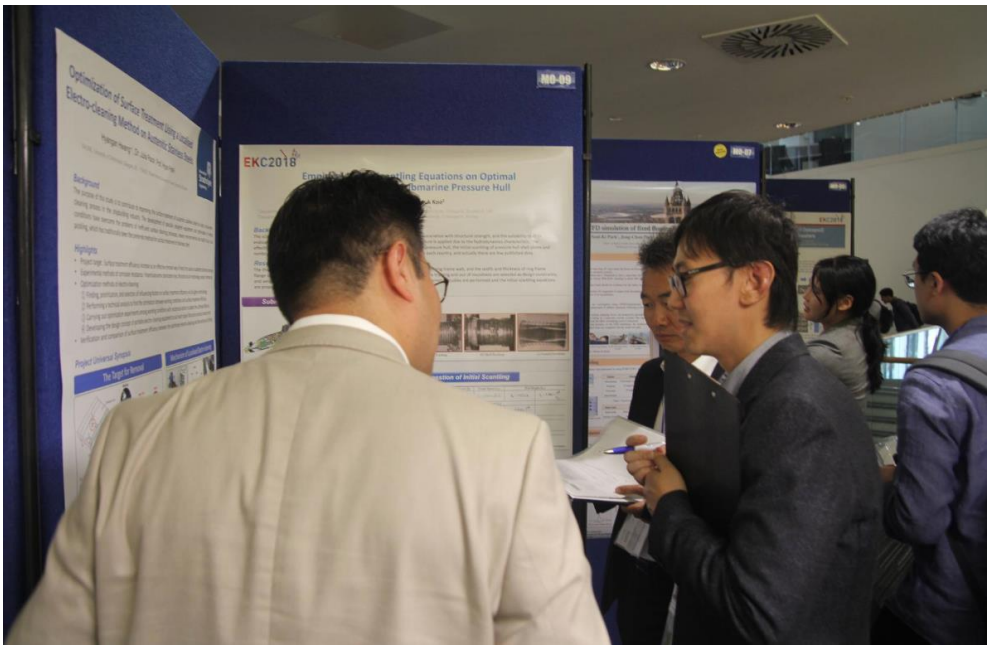
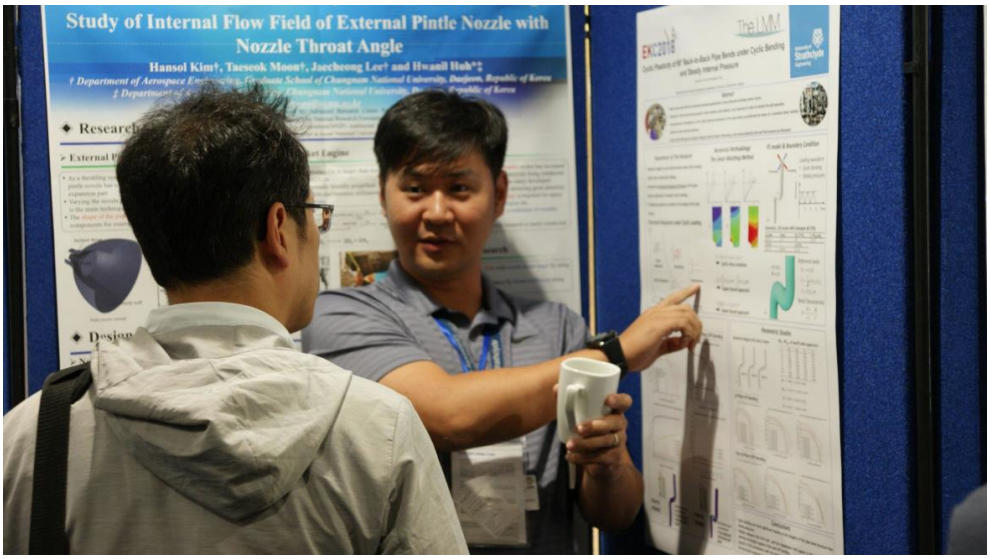
[Poster sessions]





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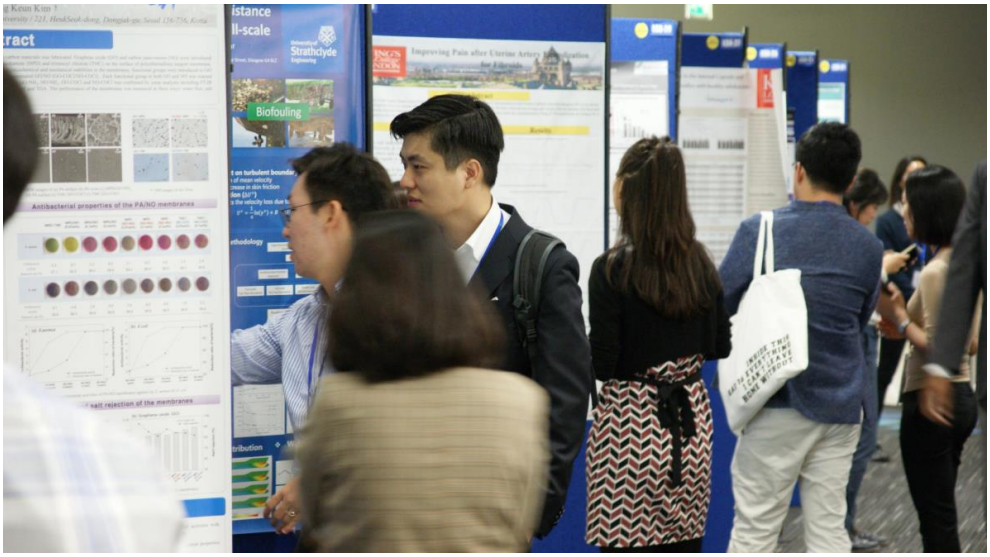

[EKMOA-KRISO MOU]



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[EKMOA-KIMST Networking]



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[Meeting with Next-Generation Science & Technology Leaders]





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[EKMOA AGM]



[EKC 2018 Banquet]



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Presentation	Will send presentations (talk and poster sessions) and photographs

20th September 2018

Byongug Jeong

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5. Korean shipyards representatives' LR Visit

<table>
<tr><td>When</td><td>3 September, 2018</td></tr>
<tr><td>Where</td><td>Lloyd's Register London head office,
Fenchurch street 71, London, EC3M4BS, UK</td></tr>
<tr><td>Attendee</td><td>EKMOA : Yongwon Lee, Dong Nam

Visitors:
<table>
<tr><th>S/N</th><th>Student</th><th>University</th><th>E-mail address</th></tr>
<tr><td>1</td><td>Young-Sik Kim</td><td>Hyundai Heavy Industries (HHI)</td><td></td></tr>
<tr><td>2</td><td>Si-Myung Song</td><td>Hyundai Heavy Industries (HHI)</td><td></td></tr>
<tr><td>3</td><td>Young-Jae Lee</td><td>Daewoo Shipbuilding and Marine Engineering (DSME)</td><td></td></tr>
<tr><td>4</td><td>Yoo-Joung Kim</td><td>Daewoo Shipbuilding and Marine Engineering (DSME)</td><td></td></tr>
<tr><td>5</td><td>Yoon-Kim</td><td>Samsung Heavy Industries (SHI)</td><td></td></tr>
<tr><td>6</td><td>Joo-Ho Yoon</td><td>Samsung Heavy Industries (SHI)</td><td></td></tr>
<tr><td>7</td><td>Oh-Yoon Kwon</td><td>Korea Offshore & Shipbuilding Association (KOSHIPA)</td><td></td></tr>
<tr><td>8</td><td>Sung-Eun Ha</td><td>Korea Offshore & Shipbuilding Association (KOSHIPA)</td><td></td></tr>
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	9	Lee	Department for International Trade (DIT) British Embassy, Seoul	

Timetable	Meeting agenda: 1400 - Delegation arrives met by D Nam and Roger 1415 - Overview of LR and range of activities - Roger 1445 – Update on 2050 Co2 reduction and 2020 Sulphur cap - Yildiz 1515 - Foundation and Accelerator programme – Jan Przydatek 1545 - Overview of LR Data Digital capabilities and projects - David Ryder 1615 - LR building tour Sean Clemenson 1645 - Close
Income / Expense	Non
Photos	

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Presentation	- Overview of LR and range of activities - Update on 2050 Co2 reduction and 2020 Sulphur cap - Foundation and Accelerator programme - Overview of LR Data Digital capabilities and projects

21st September 2018

Dong Nam

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6. Meeting with New UK-Korea Dual MSc Degree Students at University of Strathclyde

Date	19 September 2018
Venue	University of Strathclyde
Participants	Total 12 persons: 4 persons (EKMOA, Europe-Korea Marine and Ocean Engineers Association) 8 persons (new master degree students)
Contents	• Introduction of University of Strathclyde and EKMOA by Dr Byongug Jeong (Director of General Affair, University of Strathclyde) and participated by Mr Dohan Oh (Financial Director, University of Strathclyde) - Presentation on introducing University of Strathclyde - Presentation on introducing EKMOA by Dr Byongug Jeong • Greeting with new Dual-degree students - Greeting and providing general advices for oversee studies to new Master degree students
Photos	 Networking with Dual Degree students (19 September 2018)

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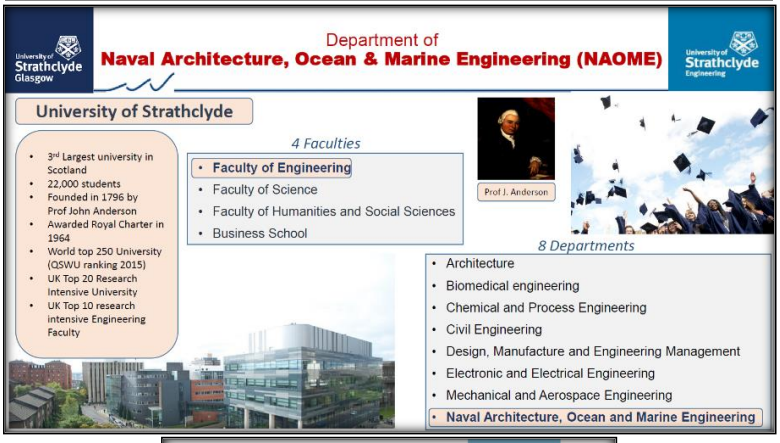
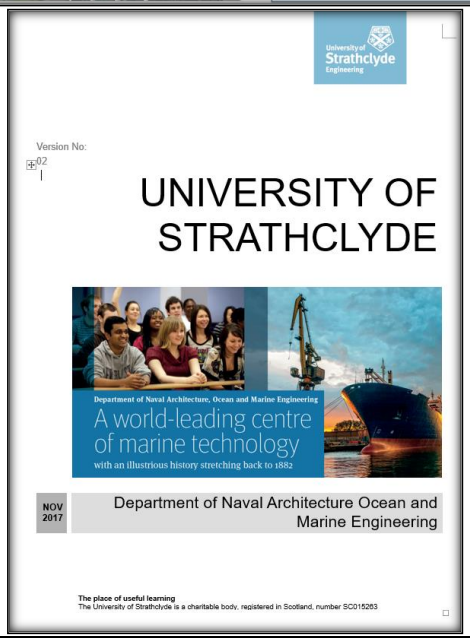
Sent the presentations to dual degree students.







20th September 2018

Dr Byongug Jeong

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Steering Committee

President: Dr Yongwon Lee, Lloyd's Register, UK

Vice President (Projects & Service): Dr Mingyu Kim, Pusan National University, Korea (temporary)
Vice President (External Affairs): Dr Dong Nam, Lloyd's Register, UK

Director of General Affairs: Dr Byongug Jeong, University of Strathclyde, UK
Director of Finance: Mr Dohan Oh, University of Strathclyde, UK
Director of Academic Services: Prof Taeseong Kim, University of Loughborough, UK
Director of Projects & Service: Dr Yunsup Shin, NGI, Norway

Representative of Scandinavia: Mr Baejun Kwon, DNV GL, Norway
Representative of UK: Mr Dohan Oh, University of Strathclyde, UK
Representative of the Continent: Dr Kwangkyun Park, POSCO Europe, Germany

Audit

Auditor: Dr Gijae Yun, UTEC, UK

Advisory Committee

Advisory Committee Member: Dr Seungdeog Yoo, Microvortex, Germany
Advisory Committee Member: Dr Keunjae Kim, SSPA, Sweden

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