The 7th International Congress on Logistics and SCM Systems

ICLS 2012 Seoul Korea

Unfolding the New Era of Business Collaboration

June 7-9, 2012.
KOFST International Convention Center

Hosted by | KSCM The Korean Society of Supply Chain Management (KSCM)

Sponsors | MKE Ministry of Knowledge Economy, KOFST The Korean Federation of Science and Technology Societies,

Korea Sanhak Foundation, International Federation of Logistics and SCM Systems (IFLS),

The Asia Pacific Federation of Logistics and SCM Systems (APFLS), SAP SAP Korea, SFA, ATWORTH, HANJIN,

International Journal of Logistics and SCM Systems, International Journal of Industrial Engineering: Theory, Applications and Practice,

International Journal of Maritime Economics & Logistics, Emerald

Welcome Address

We would like to offer a very warm welcome to all participants at the 7th International Congress on Logistics and Supply Chain Management Systems (ICLS 2012).

As all of you are aware, the entire world is experiencing an unprecedented and very complex and chaotic economic situation. To cope with this economic situation country and industry is introducing various remedies. Therefore, we organized this conference ICLS 2012 with theme as Unfolding the New Era of Business Collaboration°± to discuss and exchange ideas for find out what is the best strategy to overcome this unprecedented economic situation.

We wish that all participating scholars, business people, government personnel and students can reach broad consensus on what are the changes in the global economic and management environment, and actively engage in exchanging ideas so that you can leverage the information that you obtain in this conference to formulate your SCM strategies. Finally, we would like to thanks for your contribution to this conference and wish that you could enjoy this conference and the beautiful and dynamic city of Seoul.

Lee, Young Hae
Conference Chair
Chairman of the Korean Society of SCM
Hanyang Univ., Korea

Katayama, Hiroshi
Conference Co-Chair
Waseda Univ., Japan

Kwon, Ik-Whan G.
Conference Co-Chair
Saint Louis Univ., USA

Gen, Mitsuo
Conference Co-Chair
Fuzzy Logic Systems
Institute, Japan

Rim, Suk-Chul
General Chair
Ajou Univ., Korea

Organizing Committee Chair: Kim, Seung-Chul, Hanyang Univ., Korea
Program Committee Chair: Ko, Chang-Seong, Kyungsung Univ., Korea
Technical Committee Chair: Han, Hyun-Soo, Hanyang Univ., Korea

◈ **Registration Fee**

Attendance	Pre-Registration	Normal Registration
Regular(including presenting author, co-author)	US$350	US$390
Full time student	US$150	US$175
Guest/ Spouse	US$100	

- Regular or Full time student registration fee covers attendance of all conference sessions, a CD of the proceedings, souvenir, refreshments, welcome dinner, lunches and banquet.
- Guest or Spouse registration fee covers souvenir, refreshments, welcome dinner, lunches and banquet.

◈ **Contact Information**

ICLS 2012 Office / The Korean Society of Supply Chain Management (KSCM)
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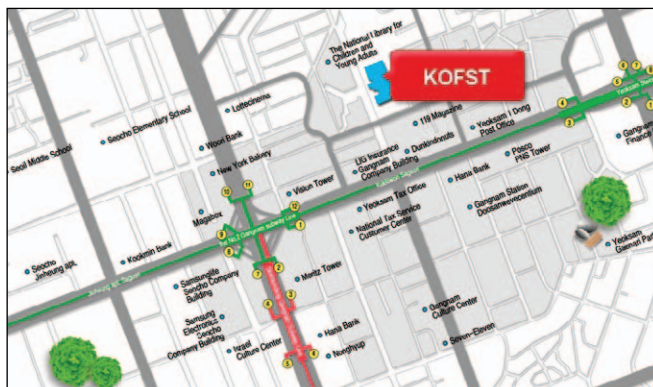Tel: +82-31-438-5269, 400-4506, Fax: +82-31-406-1089
Cel: +82-10-2930-1492(Conference Secretary, Ms. Mi Jung Kim)
    +82-10-5336-7730(Conference Chair, Prof. Young Hae Lee)
    +82-11-246-3138(Conference General Chair, Prof. Suk Chul Rim)

◈ **KOFST International Convention Center (Gangnam Station of subway line 2, exit 12)**

◈ **Room**

Schedule of ICLS 2012

June 6(Wed.), 2012	
15:00-18:00	Registration Desk Open (coffee shop at the entrance of KOFST, 1st floor)

June 7(Thu.), 2012							
08:00-09:00	Registration (Lobby)						
09:00-10:30	**Session A**						
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
	[IT and SCM] A1-1: #236 A1-2: #298 A1-3: #155	**[Performance Evaluation]** A2-1: #108 A2-2: #209 A2-3: #227	**[Global SCM]** A3-1: #176 A3-2: #199 A3-3: #259	**[Modeling and Optimization]** A4-1: #142 A4-2: #153 A4-3: #156	**[Production and Inventory]** A5-1: #102 A5-2: #244 A5-3: #114	**[SC Planning and Scheduling]** A6-1: #230 A6-2: #217 A6-3: #172	**[SCM Performance]** A7-1: #103 A7-2: #104 A7-3: #289
10:30-11:00	Room 1						
	[Opening Ceremony] **Opening Address** Prof. Young Hae Lee(Chair of ICLS 2012, Hanyang University, Korea) **Welcome Address** Prof. Suk Chul Rim(General Chair of ICLS 2012, Ajou University, Korea) **Congratulatory Address** Dr. Jae Gyun Lee(Member of the Korean National Assembly, Former Vice Minister of Ministry of Land, Transport and Maritime Affairs), Prof. Hiroshi Katayama(Chairman of IFLS, Waseda University, Japan)						
11:00-11:30	**[Invited Speech 1] SCM trends and activities in Korea** President. Won Joon Hyoung(SAP Korea)						
11:30-13:00	Lunch (Room 1)						

	Session B				
13:00-15:00	Room 1	Room 2	Room 3	Room 4	Room 5
	[Green Logistics] B1-1: #106 B1-2: #126 B1-3: #223 B1-4: #141 B1-5: #165	**[Maritime]** B2-1: #124 B2-2: #130 B2-3: #135 B2-4: #245	**[Computer Technology for SCM]** B3-1: #235 B3-2: #254 B3-3: #256 B3-4: #240	**[Inventory and Logistics Planning]** B4-1: #116 B4-2: #133 B4-3: #127 B4-4: #282 B4-5: #257	**[SCM Performance]** B5-1: #111 B5-2: #112 B5-3: #140 B5-4: #147
15:00-15:30	Coffee Break				

	Session C				
15:30-18:00	Room 1	Room 2	Room 3	Room 4	Room 5
	[Reverse Logistics] C1-1: #174 C1-2: #119 C1-3: #182 C1-4: #198 C1-5: #216 C1-6: #241	**[SCM Strategy]** C2-1: #180 C2-2: #190 C2-3: #267 C2-4: #280 C2-5: #296 C2-6: #166	**[Transportation Planning]** C3-1: #287 C3-2: #152 C3-3: #170 C3-4: #194 C3-5: #211	**[Logistics Planning]** C4-1: #128 C4-2: #122 C4-3: #173 C4-4: #175 C4-5: #222	**[Warehouse Management]** C5-1: #144 C5-2: #145 C5-3: #273 C5-4: #274 C5-5: #105
18:30-21:00	Welcome Dinner(Anais Hall, KOFST, 12th floor)				

June 8(Fri.), 2012							
08:00-09:00	Registration (Lobby)						
09:00-10:20	**Session D**						
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
	[Logistics Planning]] D1-1: #139 D1-2: #232 D1-3: #231	[Performance Evaluation] D2-1: #272 D2-2: #291 D2-3: #243	[Business Process for Logistics] D3-1: #101 D3-2: #234 D3-3: #295	[Modeling and Optimization] D4-1: #158 D4-2: #228 D4-3: #249	[SC Planning and Scheduling] D5-1: #189 D5-2: #169 D5-3: #205	[SCM Strategy] D6-1: #117 D6-2: #154 D6-3: #161	[Production and Inventory] D7-1: #179 D7-2: #281 D7-3: #299
10:20-10:50	Room 1						
	[Invited Speech 2] Recent advances and activities in Logistics and SCM in Japan Prof. Hiroshi Katayama(Chairman of IFLS, Waseda University, Japan)						
10:50-11:20	[Invited Speech 3] Solving Problems in Logistics and SCM in Hong Kong Prof. Kin Keung Lai(Former Chairman of APIEMS, City University of Hong Kong)						
11:30-13:00	Lunch (Room 1) / I.F.L.S Board Meeting (Room 4)						

	Session E				
13:00-15:00	Room 1	Room 2	Room 3	Room 4	Room 5
	[Green Logistics] E1-1: #163 E1-2: #247 E1-3: #263 E1-4: #292 E1-5: #168	[Maritime] E2-1: #149 E2-2: #213 E2-3: #129 E2-4: #183	[Modeling and Optimization] E3-1: #279 E3-2: #157 E3-3: #218 E3-4: #300 E3-5: #278	[SC Planning and Scheduling] E4-1: #264 E4-2: #277 E4-3: #188 E4-4: #293 E4-5: #233	[SCM Performance] E5-1: #283 E5-2: #203 E5-3: #204 E5-4: #193 E5-5: #290
15:00-15:30	Coffee Break				

	Session F				
15:30-18:00	Room 1	Room 2	Room 3	Room 4	Room 5
	[Production, Inventory and Warehouse Management] F1-1: #131 F1-2: #121 F1-3: #143 F1-4: #109 F1-5: #246 F1-6: #164	[SC Planning and Scheduling] F2-1: #181 F2-2: #210 F2-3: #226 F2-4: #242 F2-5: #253 F2-6: #146	[Vehicle Routing and Scheduling] F3-1: #115 F3-2: #171 F3-3: #206 F3-4: #237 F3-5: #284 F3-6: #184	[Risk Management] F4-1: #107 F4-2: #123 F4-3: #192 F4-4: #248 F4-5: #275 F4-6: #269	[IT and Green Logistics] F5-1: #178 F5-2: #167 F5-3: #186 F5-4: #187 F5-5: #221 F5-6: #297
18:15	Meeting in front of KOFST				
18:15-19:15	KOFST, Gangnam→Han River, Yeouido				
19:30-21:00	Banquet (Cruise Dinner on Han River), Awards Ceremony for Best Papers				
21:00-22:00	Back to KOFST, Gangnam				

June 9(Sat.), 2012
[Industry Tour]

09:00-12:00	HANJIN Logistics Center, Guro, Seoul
12:00-13:00	Lunch
	[Seoul City Tour]
13:00-18:00	Gyeongbok-gung, Insa-dong Street, Namsangol Hanok Village, Namdaemun Market
18:00-19:00	Dinner

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15:00-18:00 — Registration Desk Open (coffee shop at the entrance of KOFST, 1st floor)

June 7(Thu.), 2012
08:00-09:00 — Registration (Lobby)

09:00-10:30

Session A

Room 1 [IT and SCM]
Session Chair: Seung Chul Kim (Hanyang Univ., Korea)

A1-1: #236
A Cost Effective Virtual Reality System for Simulating Logistics Operations
Leith K. Y. Chan, Henry Y. K. Lau(University of Hong Kong, Hong Kong)

A1-2: #298
A Study on the Effect of the Characteristics of Cloud Computing Services on Perceived Expectancy Performance: Focusing on the Innovation Diffusion Theory
Jaesu Lim, Byungsup Cho, Sooyoung Yoon, Jay In OH(Dankook University, Korea)

A1-3: #155
E-COMMERCE IN DEVELOPING COUNTRIES READINESS FOR SMEs (CASE STUDY OF TABRIZ)
Kamaleddin Rahamni, Samira Rahmani(Islamic Azad University, Iran)

Room 2 [Performance Evaluation]
Session Chair: Koichi Murata (Waseda Univ., Japan)

A2-1: #108
Assessment of technical necessities in rail services part of Iran
Hamid Gharzi, Younos Vakil Alroaia, Mohammad Khajeh(Islamic Azad University, Iran)

A2-2: #209
The Estimation of Hotel Management Efficiency in Thailand by using DEA
Yosapol Singhavollakul, Chien-Ta Bruce Ho(National Chung Hsing University, Taiwan)

A2-3: #227
DEA-based stepwise benchmarking for efficiency improvement of container terminals
Jaehun Park, Hyerim Bae(Pusan National University, Korea), Sungmook Lim(Korea University, Korea)

Room 3 [Global SCM]
Session Chair: Islam El-Nakib(College of International Transport and Logistics, Egypt)

A3-1: #176
Free Trade and Global Supply Chain Management: From Information Flow Perspective of Korean Firms
YoungWon Park(Waseda University, Japan), Paul Hong, Shuting Li(University of Toledo, USA)

A3-2: #199
Integrating Global Supply Chain Infrastructure for Emerging Markets: Theoretical and Managerial Issues
Paul Hong(The University of Toledo, USA), YoungWon Park(Waseda University, Japan)

A3-3: #259
The Impact of RFID Utilization and Supply Chain Information Sharing on Supply Chain Performance: Focused on the Moderating Role of Supply Chain Structure and Culture
Moon Gyu Kim, Yoon Min Hwang, Jae Jeung Rho(Korea Advanced Institute of Science and Technology, Korea)

Room 4 [Modeling and Optimization]
Session Chair: Muhammad Abbas Choudhary
(Univ. of Engineering and Technology, Pakistan)

A4-1: #142
Control of lead time for retailer-supplier contract with stochastic demand and order cancellation
Si Young Lim, Sun Hur(Hanyang University, Korea), You Jin Park(Chung-Ang University, Korea)

A4-2: #153
Cross-channel coalition in dual-channel supply-chain
Erwin Widodo, Katsuhiko Takahashi, Katsumi Morikawa(Hiroshima University, Japan), I Nyoman Pujawan, Budi Santosa(Institut Teknologi Sepuluh Nopember, Indonesia)

A4-3: #156
Pricing strategies for managing new and remanufactured products in a closed-loop supply chain
Jen Ming Chen, Chia I Chang(Institute of Industrial Management National Central University, Taiwan)

Room 5 [Production and Inventory]
Session Chair: Jae Dong Hong (South Carolina State Univ., USA)

A5-1: #102
An optimization model for a two-stage perishable inventory problem
Kin Keung Lai, Ming Wang(City University of Hong Kong, Hong Kong)

A5-2: #244
Optimal multi-period planning for purchase and storage of rubber latex with perishability constraints
Sutthinee Klomsae(Uttaradit Rajabhat University, Thailand), Tuanjai Somboonwiwat(King Mongkut's University of

Technology Thonburi, Thailand), Walailak Atthirawong(King Mongkut's Institute of Technology Ladkrabang, Thailand)
A5-3: #114
A Classification of (s, S) Inventory Policy for Seasonal Demand: a Case Study of a Thai Restaurant
Pornthipa Ongkunaruk, Worakarn Sribuathong(Kasetsart University, Thailand)

Room 6 [SC Planning and Scheduling]   Session Chair: Jose Tongzon (Inha Univ., Korea)
A6-1: #230
A Novel Model to Measure Supplier Performance in the Supplier Selection Process
Alptekin Ulutas, Senevi Kiridena, Peter Gibson(University of Wollongong, Australia)
A6-2: #217
Enhancing supply chain operations through effective classification of supplier management
Yee Ming Chen(Yuan Ze University, Taiwan), Meng Jong Goan, Chang Hung Chen(Kainan University, Taiwan)
A6-3: #172
Supply Chain Contract Based on Revenue Sharing and Quantity Discount Considering Price and Service Level
Dong Won Cho, Young Hae Lee, Se Ho Park(Hanyang University, Korea)

Room 7 [SCM Performance]   Session Chair: Hyun Soo Han (Hanyang Univ., Korea)
A7-1: #103
Considering the Influence of Mass Media and Safety Peformance in Logistics Sustainability: A Pilot Study
Huinee AuYong, Suhaiza Zailani, Lilis Surienty(University Sains Malaysia, Malaysia)
A7-2: #104
A comparative investigation of entrepreneurship in Iran and countries of Global Entrepreneurship Monitor
Younos Vakil Alroaia, Sareh Hematian, Zahra Arab(Islamic Azad University, Iran)
A7-3: #289
Effects of supplier-buyer relationship on performance using structural equation modeling: Evidence from Jordan
Abbas Al-Refaie, Belal Gharaibeh, Mohammed Shurrab(University of Jordan, Jordan)

Room 1	
10:30-11:00	**[Opening Ceremony]** Session Chair: Hyun Soo Kim (Kyonggi Univ., Korea) Opening Address Prof. Young Hae Lee(Chair of ICLS 2012, Hanyang University, Korea) Welcome Address Prof. Suk Chul Rim(General Chair of ICLS 2012, Ajou University, Korea) Congratulatory Address Dr. Jae Gyun Lee(Member of the Korean National Assembly, Former Vice Minister of Ministry of Land, Transport and Maritime Affairs), Prof. Hiroshi Katayama(Chairman of IFLS, Waseda University, Japan)
11:00-11:30	**[Invited Speech 1]** SCM trends and activities in Korea President. Won Joon Hyoung(SAP Korea)

13:00-15:00	**Session B**

Room 1 [Green Logistics]   Session Chair: Sharon M. Ordoobadi (Univ. of Massachusetts-Dartmouth, USA)
B1-1: #106
Optimization of Logistics and Energy for Collection and Transportation Waste using Integrated Statistical Analysis
Behzad Nadi, Ibrahim Komoo, Elmira Shamshiry, Reza Naghizadeh Majid(University Kebangsaan Malaysia, Malaysia)
B1-2: #126
Green Effects in International Supply Chains
Joachim Kuhn(Daimler AG & Anglia Ruskin University, Germany)
B1-3: #223
Innovative green transportation system-The On-Line Electirc Vehicle system
Young Dae Ko, Young Jae Jang, Hark Hwang(Korea Advanced Institute of Science and Technology, Korea)
B1-4: #141
A study of implementing green logistics performance for logistics industry in Taiwan
Bai Sheng Chen, Yu Ying Wu(Takming University of Science and Technology, Taiwan)
B1-5: #165
Green Logistics in Homeplus
HK Yoon(Homeplus Co. LTD, Korea)

Schedule of ICLS 2012

Room 2 [Maritime]   Session Chair: Farhad Azadivar (Univ. of Massachusetts Dartmouth, USA)

B2-1: #124
The rise of Chinese ports and its impact on major ports in East Asia
Jose TONGZON(Inha University, Korea), Dong Yang(National University of Singapore, Singapore)
B2-2: #130
The integrated berth allocation and quay crane scheduling
Meilong Le, Fei Liu, Congcong Wu(Shanghai Maritime University, China)
B2-3: #135
Building A Sustainable Development Management System for Seaport-A Case of Taiwan International Ports Corporation
Shiou-Yu Chen(National Taiwan Ocean University, Taiwan)
B2-4: #245
Modeling Inter-Port Competition Based on Network Flow Optimization: The East African Perspective
Jovin J. Mwemezi, Youfang Huang(Shanghai Maritime University, China)

Room 3 [Computer Technology for SCM]   Session Chair: Suk Chul Rim (Ajou Univ., Korea)

B3-1: #235
The impact of RFID implementation on Pharmaceutical supply chain management
Yong ho Lee(Gachon University of Medicine and Science, Korea), Hun wu Choi, Youn jung Kim, Kang dae Lee(Yonsei University, Korea)
B3-2: #254
To RFID or not To RIFD: Are the Egyptian FMCGs ready for it?
Islam El-Nakib(College of International Transport and Logistics, Egypt), Ahmed Sobhi(FMCG Kabaa, Egypt)
B3-3: #256
Strategic Use of RFID in Apparel Retailing through Estimating Sales Possiblity Indicator of Each Product
Jihye Kim, Yoon Min Hwang, Min Jae Park, Jae Jeung Rho(Korea Advanced Institute of Science and Technology, Korea)
B3-4: #240
ASEAN+6: AN OVERVIEW OF THE LOGISTICS COMPONENTS
Wapee Manopiniwes, Sakgasem Ramingwong, Vimolboon Cherapanukorn, Preda Pitchayapan(Chiang Mai University, Thailand)

Room 4 [Inventory and Logistics Planning]   Session Chair: Jei Zheng Wu (Soochow Univ., Taiwan)

B4-1: #116
A Model For Minimizing Production Costs In A Sustainable Manufacturing Environment
Farhad Azadivar(University of Massachusetts Dartmouth, USA), Neda Masoud(University of California Irvine, USA)
B4-2: #133
The Development of a Counting System for Buddha Amulet Lockets
Nitipan Chuenchob, Nutpol Sirisawang(Silpakorn University, Thailand)
B4-3: #127
An EOQ models for deteriorating items with a two-level market and stock dependent selling rate
S. Paul, Mohamed Wahab Mohamed Ismail(Ryerson University, Canada), Pornthipa Ongkunaruk(Kasetsart University, Thailand)
B4-4: #282
Local infrastructure as a component of CSR policies of logistic service providers
Danuta Kisperska-Moron(University of Economics in Katowice, Poland)
B4-5: #257
The Integration of Social Media into Supply-Chain Management
Corinthias Pamatang Morgana Sianipar(Institute of Technology Bandung (ITB), Indonesia)

Room 5 [SCM Performance]   Session Chair: YoungSu Yun (Chosun Univ., Korea)

B5-1: #111
A Survey of the Effective Factors on the Entrepreneurial Success and Its Impact on the Development of Industrial Section by use of Fuzzy Dematel
Seyed Razi Nabavi, Younos Vakil Alroaia, S. Kazem.Shahmirzadi, Mojtaba Javidnia(Islamic Azad University, Iran)
B5-2: #112
Extended logistical factors for setting up the optimal international distribution strategy
Michael Dircksen, Mario Winkelhaus(University of Applied Science Muenster, Germany)
B5-3: #140
Information Technology Capability and Corporate Performance: The moderating effect of Buyer-Supplier Relationship on the IT Capability in relation to Firm Performance
Soo Jung Oh, Ji Young Park, Soo Wook Kim(Seoul National University, Korea)
B5-4: #147
Effect of Customer Demand and Information Quality Level on Performance Measures in a Supply Chain
Kyoung Jong Park(Gwangju University, Korea)

15:30-18:00

Session C

Room 1 [Reverse Logistics]
Session Chair: Behzad Nadi (Univ. Kebangsaan Malaysia, Malaysia)

C1-1: #174

An Examination on the Transfer Center and the Transportation Mode for the Reverse Logistics System: As for Recycled Goods Supply

Nobunori Aiura(Hokkai School of Commerce, Japan), Kuninori Suzuki(Bunka Fashion Graduate University, Japan), Yutaka Karasawa(Kanagawa University, Japan), Keizou Wakabayashi(Nihon University, Japan), Atsushi Inoie(Kanagawa Institute of Technology, Japan)

C1-2: #119

Application of ANP Methodology in Reverse Supply Chain

Sharon M. Ordoobadi(University of Massachusetts-Dartmouth, USA)

C1-3: #182

Recycling and Disposal Policies of Industrial Waste with Nonlinear Recycling Rate

Chi Yang Tsai, Hui Min Tang(Yuan Ze University, Taiwan)

C1-4: #198

A Multi-objective Reverse Logistics Network Design to Optimize the Total Costs and Delivery Tardiness

Jeong Eun Lee, Kang Dae Lee(Yonsei University, Korea), Mitsuo Gen(Fuzzy Logic Systems Institute, Japan)

C1-5: #216

Enhanced Genetic Algorithm to Multi-stage Reverse Logistics Network Design for Product Reuse

YoungSu Yun(Chosun University, Korea), Mitsuo Gen(Fuzzy Logic Systems Institute, Japan), ReaKook Hwang(Samsung Economic Research Institute, Korea), Jungbok Jo(Dongseo University, Korea)

C1-6: #241

Integrated Evaluation of Product Design and Forward Supply Chain and Reverse Supply Chain Using FANP

Yuan Jye Tseng, Yen Jung Wang, Pei Ju Lee, Feng Yi Huang(Yuan Ze University, Taiwan)

Room 2 [SCM Strategy]
Session Chair: Sun Hur (Hanyang Univ., Korea)

C2-1: #180

Critical Success Factors for Successful SCM adoption in China Business Environment

Myung Moo Lee(Hanyang Cyber University, Korea), Yun Ho Kim(Woosong University, Korea)

C2-2: #190

Strategic Policy for Logistics Human Resources Development: A Case Study of Truck Drivers' Skill Standardization in Thailand

Taweesak Kritjaroen(King Mongkut's University of Technology Thonburi, Thailand)

C2-3: #267

Improving Supply Chain Performance of Fast Moving Consumer Goods (FMCG) A Case Study of Nestle (Pakistan) Limited

Muhammad Abbas Choudhary(University of Engineering and Technology, Pakistan), Amjad Saleem(Nestle (Pakistan) Limited, Pakistan)

C2-4: #280

On Integrals of Module Lean Technologies and Their Synergistic Impacts on Management Performance   -The Cases of Visual Management, POKA-YOKE and KARAKURI Technologies-

Koichi Murata, Hiroshi Katayama(Waseda University, Japan)

C2-5: #296

The Exit Management Model for Manpower of Thai Government

Tanad Kaewjaroenpisan(Srinakharinwirote University, Thailand)

C2-6: #166

Effective Innovation Strategy of Korean SMEs for Emerging Markets: A Supply Chain Management Perspective

Paul Hong(University of Toledo, USA), Youngwon Park(Waseda University, Japan), Sukbong Choi(University of Ulsan, Korea), Seung Chul Kim(Hanyang University, Korea)

Room 3 [Transportation Planning]
Session Chair: Mitsuyoshi Horikawa (Iwate Prefectural Univ., Japan)

C3-1: #287

Designing of Chiang Mai Tourist Hop-On Hop-Off Bus

Vimolboon Cherapanukorn, Sakgasem Ramingwong, Jutamat Jintana(Chiang Mai University, Thailand)

C3-2: #152

Dynamic two-route transportation problem for a target service level

Suk Chul Rim, Ik Ju Jang, Jin Young Choi(Ajou University, Korea)

C3-3: #170

An Inventory routing problem considering patient safety in healthcare supply chain

Sang Won Lee, Young Hae Lee, Dong Won Cho(Hanyang University, Korea)

C3-4: #194

Design of Hybrid Genetic Algorithm and AHP for PT XYZ Distribution Route Planning

Tanika D Sofianti, Aditya T Pratama, Indra C Tanjaya(Swiss German University, Indonesia)

Schedule of ICLS 2012

C3-5: #211
Transportation models for industrial logistics complex
Jae Young Shin(National Korea Maritime University, Korea), Woong Seop Kim, Jongwon Park(Graduation School of Korea Maritime University, Korea)

Room 4 [Logistics Planning]　　　　　Session Chair: Seock Jin Hong (Bordeaux Management School, France)
C4-1: #128
A Robust Facility Location and Transportation Model for the Integrated Biomass and Bio-Energy Logistics Network
Jae Dong Hong(South Carolina State University, USA), Yuanchang Xie(University of Massachusetts Lowell, USA)
C4-2: #122
Restructuring the Global Supply Chain Logistics Network-The Case of a Wood Board Trader
Shong Iee Ivan Su, Jei Zheng Wu(Soochow University, Taiwan)
C4-3: #173
Logistics Network Optimization Considering Balanced Allocation and Vehicle Routing
Su Yeon Cho, Young Hae Lee, Dong Won Cho(Hanyang University, Korea), Mitsuo Gen(Fuzzy Logic Systems Institute, Japan)
C4-4: #175
Logistics Infrastructure Development Review: Chiang Rai as Thailand's Gateway to Greater Mekong Sub-region
Pree Thiengburanathum, Preda Pitchayapan, Poon Thiengburanathum, Apichat Sopadang, Sakgasem Ramingwong(Chiang Mai University, Thailand), Katayut Kamano(Rajamangala University of Technology Lanna Chiang Mai, Thailand)
C4-5: #222
Airlines' strategies at competitive air transport market
Young Dae Ko, Hark Hwang(Korea Advanced Institute of Science and Technology, Korea)

Room 5 [Warehouse Management]　　Session Chair: Danuta Kisperska-Moron (Univ. of Economics in Katowice, Poland)
C5-1: #144
Design and Management of Finished goods Warehouse in an Automobile Spring Manufacturing Plant
Pongsawat Aiemsam-aung, Natcha Thawesaengskulthai(Chulalongkorn University, Thailand)
C5-2: #145
The Proper Key Performance Indicators for Warehouse Operator
Punnarat Chanasit, Taweesak Kritjaroen(Graduate School of Management and Innovation King Mongkut's University of Technology Thonburi, Thailand)
C5-3: #273
Performance Improvement of Distribution Centre based on the TCM-driven Bottleneck Management -An Attempt of Leanization by Heijunka Method-
Shota Ishikawa, Koichi Murata, Hiroshi Katayama(Waseda University, Japan), Nobuyuki Hayashi, Tomo Sera, Norio Ishiwatari, Mitsunobu Yoshino(Sankyu Inc., Japan)
C5-4: #274
A Study on The Efficiency of Sorting Operation by Multi-functional Automatic Warehouse System
Tatsuya Kato, Koichi Murata, Hiroshi Katayama(Waseda University, Japan), Nobuyuki Hayashi, Tomo Sera, Norio Ishiwatari, Mitsunobu Yoshino(Sankyu Inc., Japan)
C5-5: #105
Design of Intermodal Freight Flows to the Hinterland in Bundling Networks
Arnost Bartosek, Ondrej Marek(Czech Technical University, Czech)

18:30-21:00	Welcome Dinner(Anais Hall, KOFST, 12th floor)

June 8(Fri.), 2012
08:00-09:00	Registration (Lobby)

09:00-10:30　　　　　**Session D**

Room 1 [Logistics Planning]　　　　Session Chair: Michael Dircksen (Univ. of Applied Science Muenster, Germany)
D1-1: #139
The Establishment of an Improvement Model for Pharmaceutical Logistics Services using Kano-IPA
Bai-Sheng Chen, Po-Han Chen(Takming University of Science and Technology, Taiwan)
D1-2: #232
Simultaneous Decision on Berth Planning and Quay Crane Assignments in Port Container Terminals
Pyung Hoi Koo(Pukyong National University, Korea)
D1-3: #231
A Compromised Decision Making Model for Implementing Strategic Alliances in Express Courier Services
Friska Natalia Ferdinand(Pusan National University, Korea), Ki Ho Chung(Kyungsung University, Korea), Hyun Jeung Ko, Chang Seong Ko(Kunsan National University, Korea)

Room 2 [Performance Evaluation]　　　Session Chair: Joachim Kuhn (Daimler AG & Anglia Ruskin Univ., Germany)

D2-1: #272

A Study on Capability Evaluation of Business Units based on KAI and KPI -Focusing on the Automotive Parts Suppliers-

Takeshi Sato, Hiroshi Katayama(Waseda University, Japan)

D2-2: #291

Simulation and ABC technique to improve the performance of emergency department with cellular assignments

Abbas Al-Refaie, Mohammed Shurrab(University of Jordan, Jordan)

D2-3: #243

An Approach for Availability Assessment of Reconfigurable Manufacturing System

Ashutosh Gupta, Pramod Kumar Jain, Dinesh Kumar(Department of Mechanical & Industrial Engineering Indian Institute of Technology Roorkee, India)

Room 3 [Business Process for Logistics]   Session Chair: Henry Y. K. Lau (Univ. of Hong Kong, Hong Kong)

D3-1: #101

PROCESS IMPROVEMENT: A CASE STUDY OF LEAN HEALTHCARE

Mohammad Asif Salam(Ryerson University, Canada)

D3-2: #234

Control-flow detection in creating Process Reference Model

Bernardo N. Yahya, Hyerim Bae(Pusan National University, Korea), Jei Zheng Wu(Soochow University, Taiwan)

D3-3: #295

Tourist Satisfaction Towards the Public Transport Service System at Suwannabhumi International Airport

Suwicha Komaladat(Srinakharinwirot University, Thailand)

Room 4 [Modeling and Optimization]   Session Chair: Young Dae Ko (KAIST, Korea)

D4-1: #158

A Study of Improvement and Analysis Points for HRP using Bayesian Networks

Takayuki Kataoka, Masakazu Kanezashi(Faculty of Engineering, Kinki University, Japan), Katsumi Morikawa, Katsuhiko Takahashi(Graduate School of Engineering, Hiroshima University, Japan)

D4-2: #228

Nesting Problem Using an Immune-inspired Optimization Algorithm

Rocky H.K. Wong, Nicole M. Y. Lee, Leith K.Y. Chan, Henry Y. K. Lau(The University of Hong Kong, Hong Kong)

D4-3: #249

The Beginning: Approach to Design a Flexible Material Flow System in Intralogistics

Lydia Margareta(TU Dortmund University, Germany), Guido Follert, Michael ten Hompel(Fraunhofer Institute for Material Flow and Logistics, Germany)

Room 5 [SC Planning and Scheduling]   Session Chair: Madhavendra Saxena (Singhaniya Univ., India)

D5-1: #189

A multi-criteria decision making approach for the comparison of hybrid production planning and control strategies for supply chain management

Naoufel Cheikhrouhou(Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland)

D5-2: #169

Analysis of Supply Chain Dynamics Using Seasonal ARIMA Process

Dong Won Cho, Young Hae Lee(Hanyang University, Korea)

D5-3: #205

Supply Chain Management Model for Fish Products Distribution

Kentarou ASHINO, Mitsuyoshi HORIKAWA, Mitsumasa SUGAWARA(Iwate Prefectural University, Japan)

Room 6 [SCM Strategy]   Session Chair: Artur Swierczek (Univ. of Economics, Poland)

D6-1: #117

Purchasing Practices of Small and Medium Sized Enterprises (SMEs)

Seung Kuk Paik(California State University, USA)

D6-2: #154

Towards the firm value maximization considering the long-term sustainability of enterprise-wise supply chain management

Suk jae Jeong, Jae hyun Han(Kwangwoon Unversity, Korea)

D6-3: #161

The Readiness of Thai State Enterprises to Utilize Supply Chain Management Concepts

Thananya Wasusri, Nivapat Uthaisangpaisan(King Mongkut's University of Technology Thonburi, Thailand)

Room 7 [Production and Inventory]   Session Chair: Hyun Soo Han (Hanyang Univ., Korea)

D7-1: #179

A Methodology for Determining Batch Sizes for Quality Assurance Products with Material- and Process-Induced Variability under An Open Supply Chain Environment

Namhun Kim(Ulsan National Institute of Science and Technology, Korea), Dongmin Shin, Sun Hur(Hanyang University, Korea)

D7-2: #281

On Derivation of Optimal Order Quantity in Periodic Reordering System -Exploiting the Similarity to Newsboy Problem-

Keisuke Noda, Hiroshi Katayama(Waseda University, Japan), Shiro Masuda(Tokyo Metropolitan University, Japan)

D7-3: #299

ECRS's principles for a Drinking Water Production Plant

Klorklear Wajanawichakon, Chet Srimitee(Ubon Ratchathani Rajabhat University, Thailand)

Room 1	
10:20-10:50	**[Invited Speech 2]** Recent advances and activities in Logistics and SCM in Japan Prof. Hiroshi Katayama(Chairman of IFLS, Waseda University, Japan)
10:50-11:20	**[Invited Speech 3]** Solving Problems in Logistics and SCM in Hong Kong Prof. Kin Keung Lai(Former Chairman of APIEMS, City University of Hong Kong)

13:00-15:00	**Session E**

Room 1 [Green Logistics]   Session Chair: Snehamay Banerjee (State Univ. of New Jersey, USA)

E1-1: #163

The Effects of EcoDesign Strategies on Financial Performance: An Empirical Investigation

Yenming J. Chen, Tienhua Wu(National Kaohsiung First University of Science & Technology, Taiwan), Yen Chun Jim Wu(National Sun Yat-Sen University, Taiwan)

E1-2: #247

A Study on Expansion of Green Logistics in the Supply Chain of Manufacturing Companies through Integration of Supply-chain Areas

Jang hyuk Lim(Myongji University, Korea)

E1-3: #263

A Study on Performance Evaluation of Carbon Dioxide Emission in Logistics Operations -An attempt for Green Lean Supply Chain System-

Tatsuki Nakayama, Hiroshi Katayama(Waseda University, Japan), Nobuyuki Hayashi, Tomo Sera, Norio Ishiwatari, Mitsunobu Yoshino(Sankyu Inc., Japan), Reakook Hwang(Samsung Economic Research Institute, Korea)

E1-4: #292

A Study of Corporate Carbon Strategy of a Leading Express Parcel Delivery Company

Danny Chi Kuen Ho(Hang Seng Management College, Hong Kong), Eddie W. L. Cheng(Hong Kong Institute of Education, Hong Kong)

E1-5: #168

Effects of supply chain position on the motivation and practices of firms going green

Sonia Ming-Shiow Lo(National Chengchi University, Taiwan)

Room 2 [Maritime]   Session Chair: Farhad Azadivar (Univ. of Massachusetts Dartmouth, USA)

E2-1: #149

Repositioning Empty Containers using both Standacrd and Foldable Containers

Il kyeong Moon, Hwa jin Hong(Pusan National University, Korea)

E2-2: #213

Immune-inspired Framework for Dynamic Vehicle Dispatching Problems in Port Container Terminal

Nicole M. Y. Lee, Henry Y. K. Lau(The University of Hong Kong, Hong Kong)

E2-3: #129

A computer program for identifying the maximum number of containers travelled between Thailand's deep-sea port and industrial estate

Kittipong Mungsraklang, Sorawit Yaoyuenyong(King Mongkut's University of Technology Thonburi, Thailand)

E2-4: #183

Estimating the Cycle Time of Container Handling in Terminals

Mai Ha Phan, Kap Hwan Kim(Pusan National University, Korea)

Room 3 [Modeling and Optimization]   Session Chair: Suk jae Jeong (Kwangwoon Unv., Korea)

E3-1: #279

Winnowing Variables in Data Envelopment Analysis

Mithun J. Sharma(Dibrugarh University, India), Song Jin Yu(Korea Maritime University, Korea)

E3-2: #157

Two Stage Approach to a Production and Transportation Problem of Automobile Manufactures

Shusaku HIRAKI(Hiroshima Shudo University, Japan)

E3-3: #218
Imperfect Predictive Maintenance with Virtual Age Model
Alfonsus Julanto Endharta, Won Young Yun(Pusan National University, Korea)
E3-4: #300
Modeling and Optimization of Cost-effective Charging Scheduling for the Battery Switch Stations of Electric Vehicles
Donghyun Kim, Joon Yung Moon, Chiho Moon, Young-woo Kim, Jinwoo Park(Seoul National University, Korea)
E3-5: #278
Identifying Priority Attributes for Supply Chain Coordination
Mithun J. Sharma(Dibrugarh University, India), Song Jin Yu(Korea Maritime University, Korea)

Room 4 [SC Planning and Scheduling]
Session Chair: Byung In Kim
(Pohang Univ. of Science and Technology, Korea)

E4-1: #264
On a New Product Development Procedure with TRIZ-assisted Approach in B to B Supply Chain Environment
Toshihiro Ohkuma, Hiroshi Katayama(Waseda University, Japan)
E4-2: #277
Long-Term Orientation (LTO) in Supply Chain Relationships: Its Mediating Role in the Effect of Justice on Relationship Outcomes
Jeong seob Kim, Mahn hee Yoon, Dong bog Kim(Daegu University, Korea)
E4-3: #188
Supply chain formation planning using agent-based simulation
Derek Wan Hin Chau, Henry Ying Kei Lau(University of Hong Kong, Hong Kong)
E4-4: #293
Inventory Management Practice of Apparel Wholesale Entrepreneurs in Thailand
Petcharat Mesomboonpoonsuk(Srinakharinwirot University, Thailand), Akhilesh Trivedi(Faculty of Hospitality Industry Dusit Thani College, Thailand)
E4-5: #233
General model of Cross-docking distribution planning problem
Parida Jewpanya, Voratas Kachitvichyanukul(Asian Institute of Technology (AIT), Thailand)

Room 5 [SCM Performance]
Session Chair: Prachuab Klomjit (Silpakorn Univ., Thailand)
E5-1: #283
An Effect of Social Capital and Supply Chain Management on Firm Performance in Supply Chain Network
Byunghak Leem(Busan University of Foreign Studies, Korea), Heuiju Chun(Dongduk Women's University, Korea), Byungjin Yim(Yungnam University, Korea)
E5-2: #203
A Novel Approach for Assessing Lead-Time Performance in Supply Chain Management
Lin Ying Hsu, Ming Hung Shu, Wen Hsiung Wu(National Kaohsiung University of Applied Sciences, Taiwan),
Bi Min Hsu(Cheng Shiu University, Taiwan)
E5-3: #204
Roles of Senior Executive Leadership for Innovation: Case of Competitive Japanese Firms
Hideaki Miyajima, YoungWon Park(Waseda University, Japan), Paul Hong(University of Toledo, USA)
E5-4: #193
AHP and Factor Analysis for Determining Rank of Car Workshop Service Performance
Aditya Tirta Pratama, Tanika Dewi Sofianti, Reinardus Aliwarga(Swiss German University, Indonesia)
E5-5: #290
Examining effect of CCMS on overall customer satisfaction: A case of Jordanian banks
Abbas Al-Refaie, Belal Gharaibeh, Mohammed Shurrab(University of Jordan, Jordan)

15:30-18:00 **Session F**

Room 1 [Production, Inventory and Warehouse Management]
Session Chair: Naoufel Cheikhrouhou
(Ecole Polytechnique Fédérale de Lausanne, Switzerland)

F1-1: #131
Productivity Improvement in Motorcycle Belt Production Process with Simulation Technique and Lean Concepts
Krungsiam Piri, Prachuab Klomjit(Silpakorn University, Thailand)
F1-2: #121
Optimizing Spare Part Inventory at PT XYZ using Spare Part Quantity Determination Technique (An Indonesian Case)
Jonny, Fajriyan(BINUS Universty, Indonesia)
F1-3: #143
Determination of production level in a make-to-stock system with stochastic demands and returns
Si Young Lim, Sun Hur(Hanyang University, Korea)
F1-4: #109
Apply Quadratic Models for Optimization of Logistics and Supply Chain Management in IKCO

Saeid G. Jafarzadeh, Mohd Nizam Ab Rahman, Dzuraidah Abd. Wahab(Universiti Kebangsaan Malaysia, Malaysia)
F1-5: #246
Optimal order allocation decision with multiple quantity discount schemes and minimum monetary value penalty by artificial bee colony algorithm
Chiranya Chotyakul(Valaya Alongkorn Rajabhat University, Thailand), Charoenchai Khompatraporn, Tuanjai Somboonwiwat, Chorkaew Jaturanon(King Mongkut's University of Technology Thonburi, Thailand)
F1-6: #164
A Study on a "SaaS" - Based Warehouse Management System in the Fashion and Apparel Industry
Akihiro Watanabe, Keizou Wakabayashi(Nihon University, Japan), Kuninori Suzuki(Bunka Fashion Graduate University, Japan), Yutaka Karasawa(Kanagawa University, Japan)

Room 2 [SC Planning and Scheduling]   Session Chair: Seung Kuk Paik (California State Univ., USA)
F2-1: #181
Application of Genetic Algorithm in Production Scheuling, A Case Study on the Food Processing Business
Yu Chuan Liu(Tainan University of Technology, Taiwan), Shu Huang Sun(Kun Shan University, Taiwan),
Shih Ming Yang, Chung Yung Chuang(National Cheng Kung University, Taiwan)
F2-2: #210
Multi-stage SCM Network Design considering Production Control and Inventory Problem using Hybrid Priority-based Genetic Algorithm
Hisaki Inoue(Miyazaki Sangyo-keie University, Japan), Mitsuo Gen(Fuzzy Logic Systems Institute, Japan)
F2-3: #226
Establishing a Win-Win Partnership with Vendors and SCM (Supply Chain Management) Strategy for Maximizing Competitiveness through Collaboration in Shipbuilding Industry
Seung Uk So, Seong Hwan Han(DSME, Korea)
F2-4: #242
A Design for Supply Chain Model for Supplier Selection in a Closed-Loop Supply Chain Using a Mathematical Model
Yuan Jye Tseng, Yen Jung Wang, Chia Chi Chen, Feng Yi Huang(Yuan Ze University, Taiwan)
F2-5: #253
An Examination of the Criteria used in Selecting Overseas Distributors: The Case of the Firefighting Protection Industry
Sara Elzarka, Islam El-Nakib(College of International Transport and Logistics, Egypt), Ahmed El-tabaee (Wataneya Group, Egypt)
F2-6: #146
The Implementation of Online Order & Forecast System for Asia Markets
Jong hoon Park(AGFA, Korea), Pal seon Jang(FLOWBIZ, Korea), Jong bae Kim(Inha University, Korea)

Room 3 [Vehicle Routing and Scheduling]   Session Chair: Jeong seob Kim (Daegu Univ., Korea)
F3-1: #115
Vehicle Routing Problem Targeting CO2 Reduction under Cost Minimization Strategy
Yoshiaki Shimizu, Min Kyoung Gu(Toyohashi University of Technology, Japan)
F3-2: #171
Dynamic rescheduling strategies for vehicle routing problem with pickups
Dong Sik Kim, Young Hae Lee, Dong Won Cho(Hanyang University, Korea)
F3-3: #206
A Novel Probabilistic Savings Algorithm and Its Application to optimize the Capacitated Vehicle Routing Problem
Tantikorn Pichpibul, Ruengsak Kawtummachai(Panyapiwat Institute of Management, Thailand)
F3-4: #237
On Mathematical Models of Multiple-Supplier Vehicle Routing Problems
Sorawit Yaoyuenyong(King Mongkut's University of Technology Thonburi, Thailand), Suebsak Nanthavanij (Thammasat University, Thailand)
F3-5: #284
Improved Artificial Immune System for Capacitated Vehicle Routing Problem
Siwaporn Kunnapapdeelert, Voratas Kachitvichyanukul(Industrial Engineering and Management Asian Institute of Technology, Thailand)
F3-6: #184
A large neighborhood search method with improvement algorithms for the team orienteering problem
Byung In Kim(Pohang University of Science and Technology (POSTECH), Korea)

Room 4 [Risk Management]   Session Chair: Takayuki Kataoka (Kinki Univ., Japan)
F4-1: #107
CHALLENGES OF SUPPLY CHAIN -UNCERTAINTY IN INVENTORY FUEL MANAGEMENT
Madhavendra Saxena(Singhaniya university, India), Bhavana Mathur(Global Institute of Technology, India)
F4-2: #123
Independent third party managed supply chain: A risk mitigation strategy for consumer products industry
Snehamay Banerjee(The State University of New Jersey, USA), Damodar Y. Golhar(Western Michigan University, USA)

F4-3: #192

The role of supply chain integration in the transmission of amplified disruptions. Conceptual framework and preliminary empirical evidence

Artur Swierczek(Department of Business Logistics University of Economics, Poland)

F4-4: #248

How to Perceive a Risk within Supply Chain Management?

Seock Jin Hong(Bordeaux Management School, France), Ik Whwan Kwon(Saint Louis University, USA), Jian LI(Ocean University of China, China)

F4-5: #275

Sensitivity Analysis on Supply Chain Portfolio for Car Parts Industry -An Attempt for Construction of Disaster Management Procedure-

Takashi Ishikawa, Hiroshi Katayama(Waseda University, Japan)

F4-6: #269

Linking Supply Chain with Logistic Attributes for Supply chain Risk Management

Chang Won Lee(Hanyang University School of Business, Korea)

Room 5 [IT and Green Logistics]   Session Chair: Il kyeong Moon (Pusan National Univ., Korea)

F5-1: #178

An Integrated E-Commerce System Value Creation Method: Taiwan Online Tourism Companies as Examples

Liu, Yao Chen, Chien-Ta Ho(National Chung Hsing University, Taiwan)

F5-2: #167

Managing suppliers when going green: How a firm's greening approach and its relative power to suppliers affect

Sonia Ming-Shiow Lo(National Chengchi University, Taiwan)

F5-3: #186

Resource-Efficient Maintenance Logistics-an approach to a greener planet

Thomas Heller, Thomas Anlahr(Fraunhofer Institute for Material Flow and Logistics IML, Germany)

F5-4: #187

Greening the Supply Chain : toward an integrated conceptual framework

Ji Young Park, Soo Wook Kim(Seoul National University, Korea)

F5-5: #221

Carbon Dioxide Emission in Green Supply Chain: Problems and Solving Methods

Napsiah Ismail, Abdol hossein Sadrnia, M.K.A. Ariffin, Norzima Zulkifli, Mehrdad Nikbakht(The University Putra Malaysia, Malaysia)

F5-6: #297

Implementation of ELV Directive in Poland-challenges for reverse logistics

Paulina Golinska(Poznan University of Technology, Poland)

18:15	Meeting in front of KOFST
18:15-19:15	KOFST, Gangnam→Han River, Yeouido
19:30-21:00	Banquet (Cruise Dinner on Han River), Awards Ceremony for Best Papers
21:00-22:00	Back to KOFST, Gangnam

June 9(Sat.), 2012	
Session Chair : Dr. Young Ho Ji (DHL Supply Chain Korea), Cel. 011-667-0122 Prof. Hyun Soo Kim (Kyonggi University), Cel. 010-3792-1331	
[Industry Tour]	
09:00	Meeting in front of KOFST
09:00-10:00	KOFST, Gangnam → HANJIN Logistics Center, Guro, Seoul (by bus)
10:00-11:00	Visiting HANJIN Logistics Center (HANJIN is a family company of Korean Air Line Group)
11:00-12:00	Back to KOFST, Gangnam
12:00-13:00	Lunch
[Seoul City Tour]	
13:00	Meeting in front of KOFST
13:00-18:00	Gyeongbok-gung, Insa-dong Street, Namsangol Hanok Village, Namdaemun Market
18:00-19:00	Dinner
19:00-20:00	Back to KOFST, Gangnam