



14th INTERNATIONAL CONGRESS ON CATALYSIS Secretariat

Website. www.icc2008korea.com

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Prof. Alexis T. Bell President of the IACS Univ. of California at Berkeley, U. S. A. October 22, 2008

Dear Prof. Bell,

I hereby submit the Final Report of the 14^{th} International Congress on Catalysis (ICC) held in Seoul, Korea during the period of July $13 \sim 18$, 2008. On behalf of the Organizing Committee of the ICC, I would like to express again our deep appreciation for your cooperation in the preparation of the Congress.

Sincerely,

Moon Sangtenp

Sang H. Moon Chairman of the Organizing Committee Seoul National University, Korea

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I. Organization

1-1. ICC Organizing Committee

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1-3. Publicity

(1) A list of potential participants to the 14th ICC, together with their email addresses, was prepared based on information obtained from the 13th ICC, NAM and TOCAT.
(2) Preparation and distribution of the 1st and 2nd circulars.



Fig. 1-1. First Circular

Pre- & Post-symposia

n and Control of Advanced Selective Catalysis ration of the 50th anniversary of the Catalysis f Innen) ociety of Japan) yoto, Japan, July 9-11, 2008 (Organ Http://www.shokubai.org catalysis: Fundamentals and Applications , China, July 9-11, 2008 (Organizer: Prof. C. Li) Rep.acm carbon Selective Oxidation and Syngas rsion Catalysis

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The Organizir

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Catalysis to July, 2008, Associatio

Catalysis for Hydrogen Energy Production and Utilization ation gu, rousettroil and gu, Kona, July 20-22, 2008 (Organizer: Prof. J.S. Lee) sotechackr ostechackr iternational Combinatorial Catalysis Islum n, Kone, July 26-22, 2008 (Drganizer: Prof. S.I. Woo) www.ics2008.org / siwoo@kaistac.kr um on Catalysis for Ultra

nizing Committee cordially invites yo e in the 14th International Congres beheld in Seoul, Korea from 13th to 18 t, under the auspices of the Internati on of Catalysis Societies and the Ko

al Engineers. The hed role of providin

technologies required to the future sector

ations in catalyst design ys preparation: molecular design of catalysts, catalyst ning by high throughput system, immobilization of geneoxiengments catile enters catalysic materials lopment in catalyst characterization techniques: new da and improvements in the analysis of physicothemical

ig of catalyses.... a catalytic reaction engineering leign inducing membrare and multiphase sector or design and process design ~~~ membranial media (uperotical, lonic liquid

w findings in reaction mechanism risce science of molecular level mechanism netce, modeling, and computational analysis econtral and quantum mechanical approaches in is as supporting ideas from valand scientific discip indestanding of catalysis on nanoscale

talysis in onergy/fuel production as tends in refining/petrochemical processes phogen production and utilization at cell and electrostalysis

and electrocale, enatural gas conversi als for diasel engine on processes

Organizing Committee

CC, Seoul, Korea

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Correspondence Please refer to the official website www.icc2008korea.com, and For scientific contents

Convention Team, Hanjin Travel Service Co., Ltd. SF Hanjin BD, #51 Sogeng-dong, Jung-gu, Sacul 100-070, Korea Sacul-100-070 orea 778-2514, Phone: +82-2-726-5554

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ndustrial Technology Session & Exhibition

Industrial Technology session will be a comparised as a special program integrated with potter presentations and industrial whitebox to promote the academia-industry on the stress to promote the academia-industry on the industrial in the session by sectors in the front industrial matching and additional sectors and the sector and a sector and additional programs will be made to promote interactions where presents will be made to promote interactions and programs that the made to promote interactions and programs that the made to promote interactions with the made to promote interactions that their interact on devise pine to collocativity works that the interact on devise pine to collocativity works with the second program of the second programs and that do movies are acounged to context the 1.5 .

The scientific program of the Congress will consist of 6 planary lactures, 13 keynote lectures, about 200 orall presentations and estimated 600 pooters. Keynote lectures and oral presentations will be organized in four barallel sessions. Poster presentations will be

Congress Format

6. Sustainable green catalysis Airkwater polution control by catalysis methods Reduction in global warming agenta Catalysis combastion Environmentaly being natalytic processes for che Photocatalysis

Key Dates

Start of Abstract Submission: July 1, 2007 Deadline for Abstract Submission: October 31, 2007 Notice of Acceptance: February 29, 2008 Deadline for Early Registration with Discount: April 15, 2008

Deadline for Regular Registrat without Extra On-Site Charge Congress begins: July 13, 2008

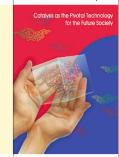
Plenary Lectures Eminary Lectures Will introduce asch topical sector. 1. Professor R. Schook Yebd Lamatel, M.T. (SA 2. Professor R. Schook Vebd Lamatel, M.T. (SA Professor T. Barry, Kojo et al. (Tachrophys. Barrow 4. Professor R. Namileo, YJ of Carray, Lonzak 5. Professor R. Namileo, YJ of Carray, Carray 6. Routy lecture from reducty will be decided zon.

Call GroAbstracts All subtors (both general and industrial subto-regated to undern a 2 page attended abterct form of an electronic (lise MN service) and the Abstracts or WB possible from July (1 NOP and all consultable and a comparison of the possible from the maintenance of the service of the service of the maintenance of the service of the service of the maintenance of the service of the service of the possible of the service of the service of the possible of the service of the based on the vertex real. Botics of acaptance of to the advect of y feedbarry 25, 2009.

Call for Abstracts



14th INTERNATIONAL Congress on Catalysis July 13-18, 2008 COEX, Seoul, Korea Second Circular / Call for Papers



Organized by the Catalysis Division of the KIChE

cutterence Venue The Gorvention and Exhibition Genete (GOE), located in a vhareh home detical of load (). If the sense for the Gorgues in gas addressing and a number of neeting norms. Delawa lange addressing and a number of neeting norms. Delawa selectic (GOE) trans a delawing on the Gorden tast-number of other healts can be needed within 10 minutes by a callway morth norms. The warea address are gained ascess, and tast and baces are needed within 10 minutes by access, and tast and baces are needed within the formation of the Gorge Qirk at Transie. Constrainty baced within the the Gorge Qirk at Transie Constrainty baced within the second of the test of the Gorge Addression of the test of the Gorge Qirk at Transie Constrainty baced within the second of the test of the Gorge Addression of the test of the Gorge Qirk at Transie Constrainty baced within the second of the Test of the Gorge Addression of the test of the second of the test of the test of the test of the test of the second of the test of the test of the test of the test of the second of the test of the second of the test of the test of the test of the test of the second of the test of the second of the test of test of test of test of the test of tes access, and taxis and buses are readily available. Furthermore the Korea City Air Terminal, conveniently located within the complex, offers a non-stop limousine bus service to and from incheon International Airport. More information can be found at www.coexcole.

Registration & Accommodation

Registration will be open on the website from September 1, 2007. Participants are annouraged to register for the Congress as early as possible to take the advantage of the registration fee discount.

Many accommodations of various standards will be available at special Congress rates. Please check the Congress website for more information

Social Events & Accompanying Persons' Program Journ revents a recompanying remoins regular all registered participants and accompanying persons are initied to join the welcome reception on July 13, 2008. The Organizing Committee will provide participants and accompanying persons with various actifus social events to indrouce the traditional and contemporary culture of Korea. Detailed information on social events and accompanying periodri program will be posted on the website.

10th INTERNATIONAL CONGRE

IACS Executive Committee

Prof. A.T. Bell, Univ. of California, USA (Prodert) Prof. C. Li, Dalan Inst. of Chemical Physics, China (Vice Presi Prof. J.S. Harry, POSTECH, Kowa (Sociatar) Prof. 4. Hutchings, Univ. of Wales, UK (Pressure) Prof. M. Husarnoto, Takyo Inst. of Tech., Japan (ACS Office)

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14° INT ELMA TIONAL CONDRESS ON CATALYSIS

Letter of Invitation

The Organizing Committee will be pleased to send a latter of invitation to registered participants upon request it should be understood that such a letter is only intended to help participants to obtain a vise or to rate travel funds and is not a commitment on the part of the organizers to provide any financial support.

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ing Committee of the 14th I thy provide partial financial developing countries and lime after evaluation of their ne upply for the financial support : 5. Lee (feetboot---



Fig. 1-2. Second Circular

From the standard addition of and poster presentations will be uploaded on the Congress velocite 1 month prior to the opening of the Congress. A book of short abstracts of all accepted combridgence will be distributed at the Congress. A CD ROM of the estanded abstracts of all presentations including discussion of onal presentations will be mailed to registered participants after the Congress. The planery and aread lectures will be published in Cattyping. Reviews.

(3) Homepage

The Congress homepage (<u>www.icc2008korea.com</u>) was open to publicize the conference in July, 2007, and was updated in May, 2008, to make on-line enrollment and abstract uploading easier.

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14 th ICC sec	OUL, KOREA, July 13-18, 2008 ivotal Technology for Future Society"	
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Abstract Congress	- Photos from 14th ICC are available now 166	
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Photos From 14 th ICC		G Hanwha Chemi
	Important Dates	posco
	- Extended Deadline for Abstract Submission [November 30, 2007]	posco
	- Notice of Acceptance [February 29, 2008]	GM
	- Deadline for Early Registration with Discount [April 30, 2008]	
	Deadline for Regular Registration without Extra On-SiteCharge [July 5, 2008]	HALDOR TOPSOE
	Congress Begins [July 13, 2008]	
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Fig. 1-3. Congress homepage

II. Scientific Program

2-1. Abstract Submission

- Deadline: Initially October 31, 2007, extended to November 30, 2007

- Submitted abstracts could be revised until the end of June, 2008.

- Table 2-1 shows the statistics of 1,956 submitted abstracts according to topical categories and nations.

Table 2-1(a)	Statistics	of	submitted	abstracts	by	topics.
	/						

Торіс	Count
1-1. Catalyst Preparation: Molecular Design of Catalysts; Catalyst Screening by High Throughput System; Immobilization of Homogeneous/Enzymatic Active Centers	169
1-2. Novel Catalytic Materials	224
1-3. Development in Catalyst Characterization Techniques: New Methods and Improvements in the Analysis of Physicochemical Properties	83
2-1. Surface Science of Molecular Level Mechanism	61
2-2. Kinetics, Modeling, and Computational Analysis	51
2-3. Theoretical and Quantum Mechanical Approaches in Catalysis	41
2-4. New Supporting Ideas from Related Scientific Disciplines	15
2-5. Understanding of Catalysis on Nanoscale	70
3-1. New Reactor Design Including Membrane and Multiphase Reactors	33
3-2. Micro Reactor Design and Process Design	16
3-3. Reactions in Non-conventional Media (Supercritical, ionic liquids)	9
4-1. New Trends in Refining / Petrochemical Processes	50
4-2. Hydrogen Production and Utilization	148
4-3. Fuel Cell and Electrocatalysis	68
4-4. Methane/Natural Gas Conversion Processes	121

4-5. Clean Fuels for Diesel Engine	78						
4-6. Energy Conversion from Alternative Sources	57						
 5-1. Diverse Organic Transformations Catalyzed by Acid / Base or Transition Metal Complexes / Compounds either in Liquid / Gas / Solid Phase 	107						
5-2. Chiral Synthesis Using Homogeneous / Heterogeneous / Enzyme Catalysts							
5-3. Selective Oxidation and Oxidative Dehydrogenation	124						
5-4. Multi-phase Synthesis of Organic Intermediates	17						
5-5. Polymerization	22						
5-6. Deactivation and Regeneration	18						
6-1. Air / Water Pollution Control by Catalytic Means	111						
6-2. Reduction in Global Warming Agents	22						
6-3. Catalytic Combustion	37						
6-4. Environmentally Benign Catalytic Processes for Chemical Industry	88						
6-5. Photocatalysis	73						
Others	17						
Industrial Session	5						
TOTAL	1,956						

Table 2-1(b) Statistics of submitted abstracts by nations.

No.	NATION	개수	No.	NATION	개수
1	ALGERIA	1	35	LITHUANIA	1
2	ANTIGUA AND BARBUDA	1	36	MALAYSIA	9
3	ARGENTINA	45	37	MEXICO	21
4	AUSTRALIA	25	38	MOROCCO	1
5	AUSTRIA	6	39	NETHERLANDS	43
6	AZERBAIJAN	13	40	NEW ZEALAND	2

7	BELGIUM	12	41	NORWAY	9
8	BRAZIL	69	42	OMAN	2
9	BULGARIA	15	43	P.R.China	404
10	BURKINA FASO	1	44	PAKISTAN	2
11	CANADA	12	45	POLAND	30
12	CHAD	1	46	PORTUGAL	5
13	CHILE	10	47	QATAR	1
14	COLOMBIA	9	48	ROMANIA	16
15	CROATIA	1	49	RUSSIAN FEDERATION	86
16	CZECH REPUBLIC	9	50	SAUDI ARABIA	2
17	DENMARK	18	51	SERBIA AND MONTENEGRO	1
18	EGYPT	2	52	SINGAPORE	21
19	FINLAND	10	53	SLOVENIA	2
20	FRANCE	114	54	SOUTH AFRICA	9
21	GERMANY	56	55	SPAIN	33
22	GREECE	10	56	SWEDEN	7
23	HONG KONG	5	57	SWITZERLAND	5
24	HUNGARY	15	58	TAIWAN	21
25	INDIA	32	59	THAILAND	14
26	INDONESIA	2	60	TIMOR-LESTE	1
27	IRAN	23	61	TUNISIA	1
28	ISRAEL	3	62	TURKEY	10
29	ITALY	68	63	UKRAINE	11

30	JAMAICA	1	64	UNITED ARAB EMIRATES	2				
31	JAPAN	209	65	UNITED KINGDOM	67				
32	KAZAKHSTAN	6	66	UNITED STATES OF AMERICA	146				
33	KOREA, THE REPUBLIC OF	159	67	VENEZUELA	3				
34	KUWAIT	3	68	VIET NAM	2				
Total	Total								

2-2. Review of Submitted Abstracts

- Each abstract was sent to two reviewers for evaluation on January 18, 2008, requesting for a response by February 8, 2008. The review of all abstracts was completed on March 13, 2008. Four abstracts were discarded because they were submitted simply for testing the system. Table 2-2 shows the statistics of reviewers according to regions.

Region by authors	# of abstracts		on by rev	iewers	Average # of abstracts/reviewer
		U.S.A.	Europe	Asia	
U.S.A.	626	6	406	444	2
Europe	558	351		431	2
Asia	768	363	404	14	2
Total	1,952	720	810	889	

Table 2-2. Statistics of reviewers according to regions.

- Authors were notified of the results. i.e., about accept/reject and oral/poster. Table 2-3 shows the statistics of abstracts according to acceptance/reject, modes of presentation, and nations.

Table 2-3(a). Statistics of review results

	Total # of submitted abstracts	Oral	Poster	Reject
Oral	1564	250	991	13
Poster	666		428	238
Total	1920	250	1419	251

Table 2-3(b). Statistics of review results

	Nation	Submitted abstracts	Requested for oral	Accepted for oral	Requested for poster	Accepted for poster	Rejected	Memo
1	ALGERIA	1			1		1	
2	ANTIGUA AND BARBUDA	1			1		1	
3	ARGENTINA	45	13	2	32	30	13	
4	AUSTRALIA	25	14	4	9	18	1	IL
5	AUSTRIA	6	4	2	2	4		
6	AZERBAIJAN	13	1		12	4	9	
7	BELGIUM	12	11	3		8		IL
8	BRAZIL	69	30	3	39	50	16	
9	BULGARIA	15	2		13	9	6	
10	BURKINA FASO	1	1	1				
11	CANADA	12	10	2	2	10		
12	CHAD	1	1					
13	CHILE	10	6		4	9	2	
14	COLOMBIA	9	9			9		

15	CROATIA	1			1		1	
16	CZECH REPUBLIC	9	6	1	3	7	1	
17	DENMARK	18	16	4	1	13		PL
18	EGYPT	2	1		1	2		
19	FINLAND	10	10	4		6		
20	FRANCE	114	103	20	11	93		
21	GERMANY	55	52	16	1	38		IL KL
22	GREECE	10	8	1	2	9		
23	HONG KONG	5	2		3	5		
24	HUNGARY	15	11	3	4	11	1	
25	INDIA	32	28	4	3	25	2	IL
26	INDONESIA	2	1		1	1	1	
27	IRAN	23	18	2	5	15	6	
28	ISRAEL	3	1	1	2	2		
3	ITALY	68	49	10	18	54	3	IL
30	JAMAICA	1	1			1		
31	JAPAN	209	113	29	89	158	15	IL
32	KAZAKHSTAN	6	1		5	2	4	
33	KOREA, THE REPUBLIC OF	159	46	15	112	104	39	
34	KUWAIT	3	3	1		2		
35	LITHUANIA	1			1	1		
36	MALAYSIA	9	6		3	7	2	
37	MEXICO	21	5	1	15	12	7	IL
38	MOROCCO	1			1	1		
39	NETHERLANDS	43	38	8	3			IL
40	NEW ZEALAND	2	2			35		
41	NORWAY	9	8	1	1	8		
42	OMAN	2			2	2		
43	P.R.China	404	253	16	149	306	80	IL
44	PAKISTAN	2	1		1	2		
45	POLAND	30	16	3	14	20	7	
46	PORTUGAL	5	1	1	4	2	2	
47	QATAR	1			1	1		

48	ROMANIA	16	7	1	9	11	4	
49	RUSSIAN FEDERA TION	86	68	11	18	69	6	
50	SAUDI ARABIA	2	2			2		
51	SERBIA AND MONTENEGRO	1			1	1		
52	SINGAPORE	21	17	4	4	16	1	
53	SLOVENIA	2	2			2		
54	SOUTH AFRICA	9	8	3	1	6		
3	SPAIN	33	22	3	11	29	1	
56	SWEDEN	8	6	2	2	6		
57	SWITZERLAND	5	3	1	1	3		PL
58	TAIWAN	21	8	2	12	11	7	IL
59	THAILAND	14	9	2	5	11	1	
60	TIMOR-LESTE	1	1			1		
61	TUNISIA	1			1		1	
62	TURKEY	10	9	1	1	8	1	
63	UKRAINE	11	5	1	6	7	3	
64	UNITED ARAB EMIRATES	2			2	1	1	
65	UNITED KINGDOM	66	58	13	7	52		KL
66	UNITED STATES OF AMERICA	144	127	48	10	85	3	IL KL PL
67	VENEZUELA	3	1		2	2	1	
68	VIETNAM	2	1		1	1	1	
	Total	1,953	1,256	250	666	1,420	251	

Table 2-4. Statistics of posters that were not mounted (classified by nations)

No.	Author Nation	Absent abstracts	No.	Author Nation	Absent abstracts
1	ARGENTINA	12	26	KUWAIT	1
2	AUSTRALIA	4	27	MALAYSIA	2
3	AUSTRIA	1	28	MEXICO	5
4	AZERBAIJAN	3	29	MOROCCO	1

5	BELGIUM	1	30	NETHERLANDS	3
6	BRAZIL	14	31	NORWAY	1
7	BULGARIA	2	32	P.R.China	55
8	CANADA	6	33	PAKISTAN	2
9	CHAD	1	34	POLAND	2
10	CHILE	6	35	PORTUGAL	2
11	COLOMBIA	1	36	ROMANIA	3
12	CROATIA	1	37	RUSSIAN FEDERATION	24
13	DENMARK	5	38	SAUDI ARABIA	1
14	EGYPT	2	39	SINGAPORE	7
15	FRANCE	28	40	SLOVENIA	1
16	GERMANY	3	41	SPAIN	2
17	GREECE	4	42	SWEDEN	1
18	INDIA	11	43	SWITZERLAND	1
19	INDONESIA	1	44	TAIWAN	4
20	IRAN	8	45	THAILAND	3
21	ISRAEL	1	46	TURKEY	2
22	ITALY	13	47	UKRAINE	3
23	JAPAN	9	48	UNITED ARAB EMIRATES	1
24	KAZAKHSTAN	3	49	UNITED KINGDOM	20
25	KOREA, THE REPUBLIC OF	6	50	UNITED STATES OF AMERICA	8
Total					301

2-3. Plenary, Keynote, Invited, and Award Lectures

- Details of PL (6), AL (1), KN (13), and IL (18) are given in Abstract Book.

2-4. Industrial Session

- The 14th ICC organized a special "Industrial Session" in parallel with other scientific oral sessions on the second day of the Congress, July 15 (Tue), accommodating 15 oral presentations (20 minutes) and two 40-minute keynote lectures. The purpose of this session was to introduce new catalysts and catalytic processes developed by industry during the previous 4 years. This was a new attempt in the history of the ICC to emphasize the importance of industrial research in catalysis.

- Details of presentations in the industrial session are given in Abstract Book.

2-5. Satellite Symposia

(1) Pre-Congress Symposia

[1-1] Creation and Control of Advanced Selective Catalysis

(In celebration of the 50th anniversary of the Catalysis Society of Japan

Chairman: Prof. Y. Iwasawa

Period: July 9~11, 2008, Place: Kyoto, Japan

Participants: 536, Presentations: 131 (Oral), 238 (Poster)

[1-2] Nanocatalysis: Fundamentals and Applications

Chairman: Prof. C. Li

Period: July 9~11, 2008, Place: Dalian, China

Participants: 182, Presentations: 57 (Oral), 126 (Poster)

[1-3] Hydrocarbon Selective Oxidation and Syngas Conversion Catalysis

Chairman: Prof. Y. Wang

Period: July 9~11, 2008, Place: Xiamen, China

Participants: 98, Presentations: 29 (Oral), 41 (Poster)

(2) Post-Congress Symposia

[2-1] Catalysis for Hydrogen Energy Production and Utilization
Chairman: Prof. Jae S. Lee
Period: July 20~22, 2008, Place: Geongju, Korea
Participants: 170, Presentations: 54 (Oral), 78 (Poster)

[2-2] First International Combinatorial Catalysis Symposium
Chairman: Prof. Seong Ihl Woo
Period: July 20~22, 2008, Place: Daejeon, Korea
Participants: 83, Presentations: 30 (Oral), 15 (Poster)

[2-3] International Symposium on Catalysis for Ultra Clean Fuels
Chairman: Prof. C. Song
Period: July 21~24, 2008, Place: Dalian, China
Participants: ??, Presentations: ?? (Oral), ?? (Poster)

[2-4] Related Symposium: 2008 KZA Nanoporous Materials Workshop
Chairman: Prof. K. B. Yoon
Period: July 19~20, 2008, Place: Seoul, Korea
Participants: ??, Presentations: ?? (Oral), ?? (Poster)

III. Congress Program

1. Venue: COEX (The Convention and Exhibition Center)

1-1. Lecture Halls

- (1) Auditorium (1,058 seats)
 - Opening Ceremony, Plenary Lecture, Award Lecture
- (2) Grand Ballroom (Rm. 101-105)
 - Welcoming Reception; Congress Banquet
 - Opening Ceremony (also broadcast in Rm. 103), Closing Ceremony (Rm. 103)
 - Oral Sessions (101, 102, 104 and 105 with max 300 seats; 103 with max 600 seats)
- (3) Comments
- □(a) The limited capacity of auditorium was not a problem in the opening ceremony because additional audience was accommodated by broadcasting in Rm. 103.
 - (b) Room for the industrial session on Tuesday was switched from 105 to 103 to accommodate a large audience exceeding 300.
 - (c) A few mistakes were made during the early operation of beam projectors and timer clocks. Later, digital timer clock was projected on the screen together the presentation materials, which was appreciated by many participants.

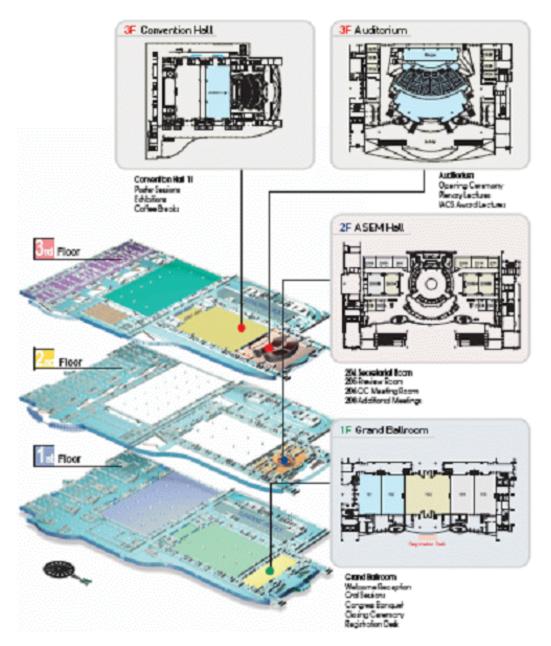


Fig. 3-1. Venue Layout

1-2. Posters/Exhibitions

- (1) Venue: Convention Hall II
 - Exhibition, Posters, Internet Café, Coffee Break
 - Light beverage and snack were provided during poster sessions.
- (2) Comments
 - (a) Capacity of the hall was sufficiently large. Sites for coffee and snack service were temporarily crowded but the situation was rapidly improved. Tea was provided during coffee breaks from the second day.
 - (b) Ample space was provided between poster boards by allowing a distance of 4 m between poster alleys. Each poster was given an individual extra light for improved visibility but a number of posters were not mounted, thus making the extra light useless.
 - (c) Internet café was used by many participants. Additional internet jacks were provided for those whose carried their computers. □

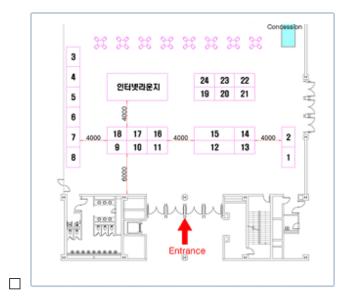


Fig. 3-2. Exhibition Area

2. Final Program, Abstract Books, Extended Abstract DVD

2-1. Final Program

 A 40 Page program book contained welcome message, organization, Congress information, program at a glance, plenary lectures/IACS award lectures, scientific program, poster presentation, social program, exhibition, venue layout, and advertisement of sponsors.

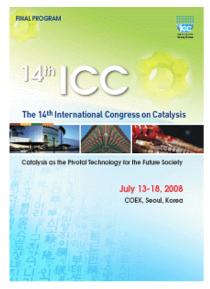


Fig. 3-3. Final Program

2-2. Abstract Book

(1) Preparation

 \square

1,800 copies of abstract book and extended abstract DVD were made for distribution among participants. Abstract book contained the abstracts of *ca* 1,600 presentations. Either 2 or 4

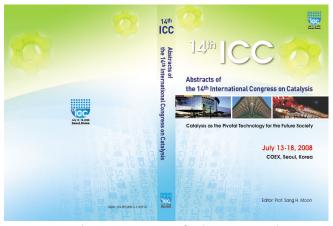


Fig. 3-4. Cover of Abstract Book

abstracts were included on each pages according to oral or poster presentation, respectively. Plenary and keynote lectures were grouped separately, but invited lectures were grouped together with other orals according to the subjects.

(2) Comments

Many authors of posters did not come to the Congress, although their abstracts were included in the book. It is recommended that only the abstracts of registered participants will be included in the book in the future Congress.

2-3. Extended Abstract DVD

- DVD, instead of CD, was made for 2-page extended abstracts due to a large memory size of the content.



Fig. 3-5. Cover and Main Page of Extended Abstract DVD

3. Registration

3-1. Registration Desk

(1) Operation

Three and one desks were prepared for pre- and on-site registrations, respectively. Each participant was given an envelop



Fig. 3-6. Congress Kit Coupon

containing Receipt, Certificate of Attendance, Name Badge and Coupons for different programs, and a Congress Kit Coupon for exchange with a bag containing Final Program, Abstract Book, Extended Abstract DVD and a foldable umbrella as a Congress souvenir.



Fig. 3-7. Certificate of Attendance

(2) Comments

The Pre-registration desk was crowded in the afternoon of Sunday and the morning of Monday. Computer lines were increased to solve the problem. Not many complaints were received.

3-2. Receipt

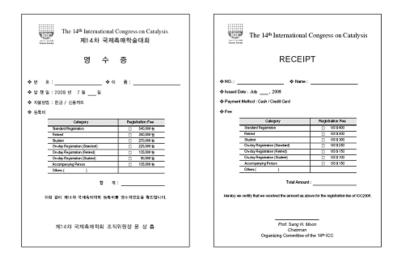


Fig. 3-8. Receipt in Korean or English

3-3. Name Badge

- Types: Participant, Staff, Student, Exhibitor, Accompanying Person
- Additional tags were attached to the name badge according to the role of the tag holder: Session Chair, Plenary Speaker, Keynote Speaker, Invited Speaker, Speaker,

Organizing Committee

ICC 2008	ICC 2008	ICC 2008	ICC 2008	1CC 2008
STUDENT	Accompanying Person	STAFF	EXHIBITOR	PARTICIPANT

Fig. 3-9. Name badges of 5 different types

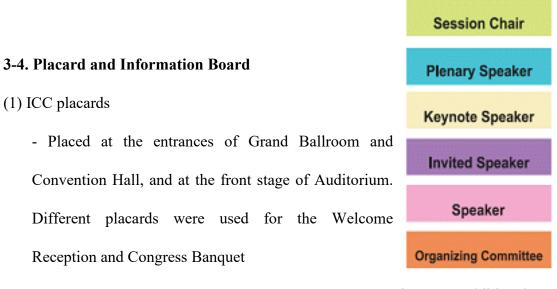


Fig. 3-10. Additional tags



Fig. 3-11. ICC Placard



Fig. 3-12. Placards for Welcome Reception and Congress Banquet

(2) Information Board

- Installed at 3 places to show Program, Venue layout, and Exhibition.

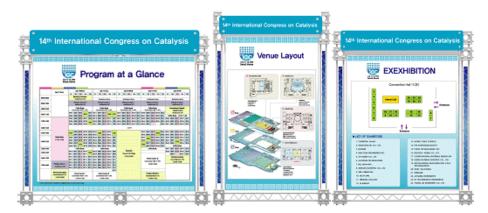


Fig. 3-13. Large information boards to show Program, Venue Layout, and Exhibition

- (3) X-banner and Podium Logo
 - X-banners were placed at 48 places for the guidance of venues and directions.
 - ICC logo was placed on the podium.



Fig. 3-14. X-banners and Podium Logo

(4) Others

- Placards showing the company logos of Congress sponsors were placed at poster area and Congress Banquet.

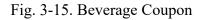
4. Social Programs and Ceremonies

4-1. Welcome Reception

- (1) Time: July 13 (Sun) 6~8 p.m., Place: Convention Hall
 - Master: Prof. Ahn
 - Addresses by Organizing Chairman (Prof. Moon) and IACS President (Prof. Bell).
 - Toast by Former ICC Chairperson (Prof. Breysse)
 - String Quartet
- (2) Comment
 - Loudly mood due to conversations among
 - many participants, but all were happy with a

plenty of food and beverage.





4-2. Opening Ceremony

- (1) Time: July 14 (Mon) 8:30~9 a.m., Place: Auditorium
 - Started with a traditional performance with music.
 - Master: Prof. Lee
 - Addresses by Organizing Chairman (Prof. Moon), KIChE President (Prof. Kim),

KAST President (Prof. Rhee) and IACS President (Prof. Bell).

(2) Comment

- Additional participants were accommodated in Rm. 103 with the broadcast of the ceremony.

4-3. Congress Banquet

(1) Time: July 17 (Thur) 6:30~9 p.m., Place:

Convention Hall

- Cocktail reception from 6:20 p.m.
- Master: Prof. Nam

The 14th International Congress on Catalysis Congress Banquet July 17, 2008 *Please hand in this coupon to the staff at your entrance.

Fig. 3-16. Banquet Coupon

- Addresses: Organizing Chairman (Prof. Moon), CEO of Heesung (Mr. Choi)
- Awards by IACS President (Prof. Bell)
 - * Heinz Heinemann Award in Catalyst Science and Technology (Prof. Dumesic)
 - * International Catalysis Award (Prof. Hartwig)
 - * Plaque of Appreciation (Prof. Breysse)
 - * Young Scientist Award (List shown on screen).
- Remarks by Prof. Tamaru
- Toast by Prof. Schrock
- Dinner
- Introduction to Catalysis in Korea (Prof. Moon)
- Introduction to forthcoming conferences (ICC, NAM, Europacat, TOCAT/APCAT)
- Korean traditional musical performance

(2) Comment

- A long time gap between the end of oral sessions and the start of the banquet made participants wait. Area for cocktail reception in front of the Banquet Hall was warm due to the weather. Banquet ended about 30 minutes behind the schedule.



Fig. 3-17. Program of Banquet Performace

4-4. Closing Ceremony

- (1) Time: July 18 (Fri) 4:30~5 p.m., Place: Rm. 103
 - Master: Prof. Park
 - Congress Report: Prof. Moon
 - Closing address: Prof. Bell
 - Introduction of next IACS members: Prof. Li
- (2) Comment
 - As the number of participants was larger than expected one (600), many had to stand in the room.

4-5. Excursion

- (1) Time: July 16 (Wed) 1~6 p.m., Place: FolksVillage (Yong-In)
 - Number of participants: 850 (decreased from initially applied 1,200 due to rain)



Fig. 3-18. Excursion Coupon

- Planned outdoor performances, except wedding ceremony, were cancelled due to heavy rain.
- On-site dinner with traditional Korean food
- (2) Comment
 - A contingency plan should was not prepared.

5. Exhibition

	Table 3-1. List of exhibitors				
Booth	Company	Country	Contact		
1	CHEMETALL GmbH	Germany	Krause Thomas (thomas.krause@chemetall.com)		
2	Milestone S&T Co., Ltd.	Korea			
3	Elsevier	Netherlands	s.koning@elsevier.com		
4	Reaction Engineering INC.	Korea	Anna Jo (reaction@reactioneng.co.kr)		
5	ATI Korea Co., Ltd.	Korea	Ohk-Kyung Oh (okoh@atikorea.com)		
6	Avantium Technologies	Netherlands	Anniek Gielkens (Anniek.gielkens@avantium.com)		
7	BEL Japan Inc.	Japan	Joji Sonoda (j.sonoda@nippon-bel.co.jp)		
8	Shinhan Scientific Co., Ltd.	Korea	Eun Jin Choi (ejchoi@shin-han.com)		
9	MEL Chemicals	UK	Stephenson Hazel (Hazel.Stephenson@melchemicals.com)		
10	SICAT SARL	France	Patrick Nguyen (Pat.nguyen1@free.fr)		
11	Heesung Catalyst Corp.	Korea	Hyun Sik Han (hs.han@hscatalysts.com)		
17	Computational Materials Design Aps	Denmark	Frank Abild-Pedersen (abild@computationalmaterialsdesign.com)		
12	SK Energy	Korea	-		
13	World Gold Council	UK	Richard Holliday (Richard.holliday@gold.org)		
14	hte Aktiengesellschaft	Germany	Matthias Relss (matthias.reiss@hte-company.de)		
15	Symyx Technologies, Inc.	USA	Laurie Winton (lwinton@symyx.com)		
16	Protech-Korea Co., Ltd.	Korea	Seong-ki Yoon (info@protechkorea.co.kr)		
18	Korea Material Scientific Co., Ltd.	Korea	Sung-Yong Chang		
19	Process Integral Development Eng & Tech	Spain	Cosuelo Goberna Selma (cgoberna@icp.csic.es)		
20	WILEY-BLACKWELL	Singapore	Sohee Yoon (syoon@wiley.com.sg)		
21	Springer	Germany	Minicka Lothar (Lothar.Minicka@springer.com)		
22	Altamira Instruments	USA	March Brookman (bmarch@altamirainstruments.com)		
23	In-Situ Research Instruments	USA	Christina Wolf (sales@in-situresearch.com)		
24	Young Lin Instrument Co., Ltd	Korea	Min Jung Shin (mjshin@younglin.com)		

6. Young Scientist Award/Financial Support

6-1. Young Scientist Award

- The award was offered to 62 participants under the age of 35, who were compensated for their registration fee. The total amounts of US\$19,520 for the award were split between the 14th ICC and the IACS.
- (2) Fig. 18 shows the award certificate and Table 3-2 lists the winners.



Fig. 3-19. Certificate of Young Scientist Award

	Table 3-2. List of Young Scientist Award Winners				
No.	Name	Country	Award/Refund (USD)	No. in Country	
1	Betiana Carla Campo	Argentina	200	1	
2	Akshat Tanksale	Australia	200		
3	Shane Kendell	Australia	200		
4	Rebecca Lesic	Australia	250	5	
5	Siswati Lestari	Australia	250		
6	Vincent Lau	Australia	550		
7	Julien Schweicher	Belgium	200		
8	Philippe Heynderickx	Belgium	200	3	
9	Bart De Moor	Belgium	250		
10	Zaman Sharif	Canada	200	1	
11	Igor Busygin	Finland	500	1	
12	Pascal Lignier	France	250	1	
13	Marco Hartmann	Germany	200		
14	Stefan Wuttke	Germany	200	4	
15	Armin Brandner	Germany	290		

16	Kerstin Lehnert	Germany	290	
	Matteo Maestri			
17		Italy	200	2
18	Ivan Rivalta	Italy	250	3
19	Patricia Benito	Italy	250	
20	Ahmed Jalal Samed	Japan	200	
21	Hiroshi Matsumori	Japan	200	
22	Mohammad Abul Hasnat	Japan	200	6
23	Takafumi Arike	Japan	200	
24	Kohsuke Mori	Japan	500	
25	Leny Yuliati	Japan	500	
26	Bijal Bahuleyan Kottukkal	Korea	200	
27	Jung Hun Kwak	Korea	200	
28	Mi So Kim	Korea	200	5
29	Sang Jun Park	Korea	200	
30	Vinukrishnan Appukuttan	Korea	200	
31	Johan Den Breejen	Netherlands	250	1
32	Fengtao Fan	P.R.China	200	
33	Jian Liu	P.R.China	200	
34	Weiping Deng	P.R.China	200	
35	Li Du	P.R.China	250	
36	Rongfang Wand	P.R.China	250	
37	Xiang Li	P.R.China	250	12
38	Ke-Qiang Sun	P.R.China	500	12
39	Lan Ma	P.R.China	500	
40	Xiaomin Yang	P.R.China	500	
41	Dan Zhao	P.R.China	550	
42	Xingang Li	P.R.China	550	
43	Zhiqiang Ma	P.R.China	550	
44	Rafal Pelka	Poland	290	1
45	Anastasia Shalagina	Russia	200	
46	Natalia Mezentseva	Russia	200	
47	Vladimir Zhivonitko	Russia	200	5
48	Andrey Matveev	Russia	500	
49	Anna Lysova	Russia	550	
50	Vadivukarasi Raju	Singapore	250	1

51	Jiefang Zhu	Sweden	500	1
52	Dung Nguyen	Thailand	250	1
53	Vijay Kumar Kanuru	UK	200	
54	Junwang Tang	UK	500	3
55	Leanne McLaughlin	UK	250	
56	Elizabeth D'Addio	USA	250	
57	Eranda Nikolla	USA	250	
58	Aditya Bhan	USA	500	
59	Justin Notestein	USA	500	7
60	Robert Rioux	USA	500	
61	Kazuhiro Takanabe	USA	550	
62	Travis Conant	USA	600	
	Total		19,520	62

6-2. Financial Support

- Financial support was offered to 14 participants who applied for it. The total amounts of US\$4,700 for the support were covered by the 14th ICC.
- (2) Table 3-3 lists the recipients of the support.

	Table 3-3. Recipients of Financial Support				
No.	Name	Country	Award/Refund (USD)	No. in Country	
1	Laura Cornaglia	Argentina	500	1	
2	Lakshmi Kantam	India	500		
3	Venkat Raghava Chary Komandur	India	550	2	
4	Difei Han	P.R.China	200		
5	Jian Liu	P.R.China	200		
6	Lu Wang	P.R.China	200		
7	Peng Liu	P.R.China	200	7	
8	Yang(Ying) Li	P.R.China	200	-	
9	Yanmei Zhang	P.R.China	200		
10	Dehua He	P.R.China	500		

11	Viorel Chihaia	Romania	500	1
12	Marina Shilina	Russia	550	1
13	Noelia Barrabes Rabanal	Spain	200	1
14	14 Fiona-Mairead McKenna UK		200	1
	Total	4,700	14	

7. Hotel Reservation, Lunch Coupons

7-1. Hotel: Hotels recommended by the ICC were used by 549 participants.

7-2. Lunch Coupons

(1) All regular participants, except students, were provided with lunch coupons, amounting to 40,000 won (8,000 won x 5 days), to cover their lunch during the Congress period. The coupons could be used at pre-arranged restaurants in COEX mall. Out of 5,645 coupons offered to participants and staffs, 94% were used and recovered from the restaurants, which amounted to 42,497,440 won.

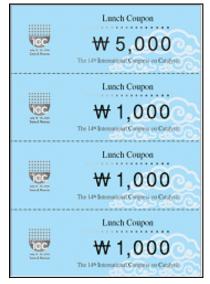
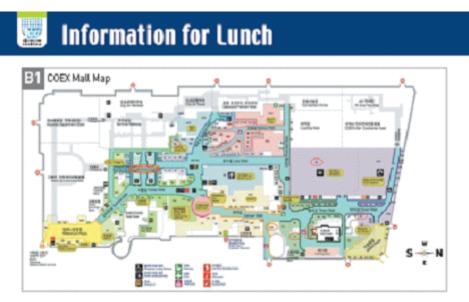


Fig. 3-20. Lunch Coupons

(2) Comment

- After the first day of the Congress, participants quickly learned how to use the

coupons. The plan was accepted as a successful one by many participants.



IOC2008 Organizing Committee will offer lunch coupons for 5 days (priced 8,000 Korean Won per meal) and the coupons can be used like cash at the restaurants listed below. The coupons valued 8,000 Korean Won consisted of one 5,000 Korean Won and three 1,000 Korean Won. While participants need to pay extra for the food over 8,000 Korean Won, they can get the change for the low or price tool.

The main verse for lunch is "Lake Food Court", where you can choose diverse international menu in a place and you also can go to small, restaurants below for your lunch. On the first floor, there is a restaurant named O'kim's Brauhaus, where they accept our coupons. The restaurants for ICC2008 participants will have ICC2009 Logos at the entrance.



Na	Rastaurant	Manu
1F	O'kim's Brauhaus	International.
	Lake Food Court	International
T1	Jae Dong	Korean
T4	Omutia Tomota	Fusion Dimutice
06	Ruomai	Fusion Chinese
02 & W6	Burger King	Burger
	MiGa	Japanese
C25	Paris Croissant	Bakery

Fig. 3-21. Instruction for using lunch coupons

35

8. Souvenirs/Gifts to Participants

- (1) Congress Bag (1,700): 25,000 won/each (Fig. 3-22)
- (2) Umbrella (1,700): 4,400 won/each (Fig. 3-23)
- (3) Pen, Paper Pad (1,700): 2,000 won/set (Fig 3-24)
- (4) Gifts to Lecturers (Fig. 3-25)
 - Plenary/Award lecturers (7): Drawer box with pearl decoration, 55,000 won/each
 - Keynote lecturers (13): Set for name cards and key-
 - holders, 16,500 won/set
- Fig. 3-22. Congress Bag
 - Invited lecturers (24): Case for name cards, 9,900 won/each



Fig. 3-23. Umbrella



Fig. 3-24. Pen and Paper Pad



Fig. 3-25. Gifts to lecturers (from left PL, KL, IL)

9. Plaques

9-1. Plaques of Appreciation (Fig. 3-26)

- Plaques of appreciation, prepared either in Korean or English, were mailed to sponsors, including 11 Korean and 8 international companies.



Fig. 3-26. Plaque of Appreciation to Sponsors (Korean and English)

9-2. IACS Award Plaques

(1) Heinz Heinemann Award (Fig. 3-27) to Prof.

Dumesic.

(2) International Catalysis Award (Fig. 3-28) to

Prof. Hartwig.

9-3. Plaque of Appreciation

- A special plaque of appreciation (Fig. 3-
 - 29) was offered to Prof. Breysse.

International Association of Catalysis Societies

Heinz Heinemann Award in Catalyst Science and Technology

> Presented to James A. Dumesic

For ground-breaking contributions to the literature of catalytic chemistry and processing, laying the foundations for transforming renewable biomaterials to hydrogen, chemicals and liquid fuels

July 2008

Fig. 3-27. Heinemann Award

International Association of Catalysis Societies

International Catalysis Award

Presented to John F. Hartwig

For the discovery and development of new catalytic processes commonly used to synthesize pharmaceutical candidates and for the deep mechanistic insights into these new processes

July 2008

Fig. 3-28. International Catalysis Award

International Association of Catalysis Societies

14th International Congress on Catalysis

Plaque of Appreciation

Presented to Michèle Breysse

For the efforts and contributions as a chairperson of the 13th International Congress on Catalysis in Paris, 2004

July 2008

Fig. 3-29. Plaque of Appreciation to Prof. Breysse

10. Photos and Videos

Photos taken during the Congress period were posted on the Congress website,
http://www.icc2008korea.com/photolist.asp, for downloading by visitors. The video of
Opening Ceremony was sent to related people.

IV. Finance

1. Income : ₩1,036,354,025

1-1. Registration

(1) Number of participants

I	Number	
	Participants	913
	Students	395
	Retired	23
Desistration	Free	78
Registration	One-day (Standard)	40
	One-day (Student)	38
	Accompanying	60
	Sub-total	1,547
Banquet		552

(2) Income from registration and banquet

Description	Amount (₩)
Early registration	565,669,629
Banquet	46,155,287
Sub-total	611,824,916
Others (Registration and Banquet)	14,456,214
Total	626,281,130

1-2. Sponsors and Supporting Organizations

- A pamphlet to invite sponsorship was distributed among potential sponsors together with a letter of invitation cosigned by Profs. Bell and Moon. Sponsors were grouped into three according to the size of their donation.

Level	Fee	Benefit/Complimentary Items Included
Patrons	> USD 15,000	 Full registration for two delegates (including tickets to the Welcome Reception and Banquet) Company name and logo on ICC2008 Web Page (linked to the company website) A half-page ad in the ICC2008 Final Program
	USD	- Full registration for a delegate (including tickets to the Welcome Reception and Banquet)
Sponsors	15,000	- Company name and logo on ICC2008 Web Page (linked to the company
	-USD 5,000	website) - A quarter-page ad in the ICC2008 Final Program
Donors	< USD	 Full registration for a delegate (including tickets to the Welcome Reception and Banquet Company name and logo on ICC2008 Web Page
Donors	5,000	(linked to the company website) A quarter-page ad in the ICC2008 Final Program

(1) Industrial sponsors (International)

No.	Company	Amount (\mathbb{W})
1	General Motors Corp.	9,141,981
2	Haldor Topsoe A/S	9,610,340
3	BASF Catalysts	7,347,750
4	Süd-Chemie	5,574,900
5	BP International	4,680,807
6	Institut Français du Pétrole	3,095,700
7	Exxon Research and Engineering Company (EMRE)	2,408,175
8	LUMMUS Technology	464,455
	Sub-total	42,324,108

No.	Company	Amount (1,000 ₩)
1	SK Energy	50,000
2	HeesungCatalysts	30,000
3	GS Caltex	20,000
4	Hanwha	20,000
5	POSCO	20,000
6	Hyundai Motors	20,000
7	Hyosung Corporation	10,000
8	Toray Saehan Inc.	10,000
9	Samsung Total	10,000
10	LG Chem	9,500
11	KOCAT	5,000
12	Dongjin Semichem Co., Ltd.	3,300
	Sub-total	207,800

(2) Industrial sponsors (Korean)

(3) Supporting organizations (Korean)

No.	Organization	Amount (1,000 \mathbb{W})
1	Korea Research Foundation	40,000
2	Seoul Tourism Organization	20,000
3	Korean Federation of Science and Technology Societies	10,000
4	Korea Tourism Organization	9,000
5	KOSEF	7,000
6	Seoul CVB	5,000
	Sub-total	91,000

1-3. Exhibitors

	Exhibition	Number of	Booth		Amount
	Number	booths	number	Company	(₩)
1	EICC08-0001	1	9	MEL Chemicals	2,992,500
2	EICC08-0002	1	13	World Gold Council	2,766,680
3	EICC08-0003	1	1	CHEMETALL GmbH	2,766,680
4	EICC08-0004	1	8	Shinhan Scientific Co., Ltd.	3,300,000
5	EICC08-0005	1	10	SICAT SARL	2,798,250
6	EICC08-0006	1	7	BEL Japan Inc.	2,714,670
7	EICC08-0007	1	6	Avantium Technologies	2,972,100
8	EICC08-0008	1	19	Process Integral Development Eng & Tech (PID Eng&Tech)	3,004,056
9	EICC08-0009	1	5	ATI Korea Co., Ltd.	3,300,000
10	EICC08-0010	1	4	REACTION ENGINEERING INC.	2,892,000
11	EICC08-0011	1	18	Korea Material Scientific Co., Ltd.	3,300,000
12	EICC08-0012	1	12	Computational Materials Design Aps	2,919,000
13	EICC08-0013	1	16	Protech-Korea Co., Ltd.	3,300,000
14	EICC08-0014	2	15	Symyx Technologies, Inc.	5,805,252
15	EICC08-0015	1	14	HTE Aktiengesellschaft	2,933,400
16	EICC08-0016	1	22	Altamira Instruments	2,870,812
17	EICC08-0018	1	23	In-Situ Research Instruments	2,889,810
18	EICC08-0019	1	3	Elsevier	2,889,810
19	Sponsor	2	12	SK Energy	
20	EICC08-0020	1	21	Springer	2,889,810
21	EICC08-0021	1	20	WILEY-BLACKWELL	3,043,957
22	EICC08-0022	1	24	Young Lin Instrument Co., Ltd	3,300,000
23	EICC08-0024	1	2	Milestone S&T Co., Ltd.	3,300,000
24	Sponsor	1	11	Heesung Catalyst	
	TOTAL	26			68,948,787

2. Expenses: ₩1,036,354, 025

Item	Amount (\mathbb{W})
Performance	11,250,000
Souvenir and Incidental expense	57,279,900
Honorarium and Room charge	81,455,990
Lunch	42,497,440
Banner and printing	14,727,834
COEX rent	177,095,123
Excursion	39,900,000
Coffee and Booth	268,090,608
Levy to IACS*	31,008,858
Stationery and communication service fees	8,774,520
Homepage	8,070,000
Circular	6,411,300
Han Jin Convention	190,200,000
Meeting expenses of organizing committee	9,848,200
Cost of labor (secretary)	42,000,000
Cost of labor (Assistants)	17,970,000
Reserve fund for 14th ICC and traveling expenses	1,431,952
Overhead to KIChE	28,342,300
Total	1,036,354,025

Net amounts due (14th ICC \rightarrow IACS)

(*)

Levy (14th ICC \rightarrow IACS)

 Item
 Details
 Unit Price
 Quantity
 Sub Total
 Total

 10% of @Net registration in 564,723,981 won × 10%
 56,472,398
 1
 56,472,398
 56,472,398

 ① Net registration Income (564,723,981 won × 10%
 56,472,398
 1
 56,472,398
 56,472,398

 ① Net registration Income (564,723,981 won) = @Total registration income (566,832,713 won) = @Total registration income (566,832,713 won) = 554,282,713 won + (\$12,550 × 1,000 won/\$); Total refund due (2,108,732 won). Details are given in ICC income.
 Details are given in ICC income.

Coffee 4,950 45 222,750 Invited Hotel Expense for Dr. Dumesic 1,425,120 1 1,425,120 Hotel Expense for Dr. Hartwig 632,700 1 632,700 Reimbursement for Air Ticket (Dumesic) 1,770,570 1 1,770,570 Reimbursement for Air Ticket (Hartwig) 4,125,150 1 4,125,150 @Young Scientist Award (YA). List of 80 awardees is given in a separate file. 9,862,250 9,862,250 @YA Banquet Invitation 90,000 40 3,600,000 3,600,000	Item	Details	Unit Price	Quantity	Sub Total	Total
Invited Hotel Expense for Dr. Dumesic 1,425,120 1 1,425,120 7,953,540 Hotel Expense for Dr. Hartwig 632,700 1 632,700 1 632,700 Reimbursement for Air Ticket (Dumesic) 1,770,570 1 1,770,570 1 4,125,150 @Young Scientist Award (YA). List of 80 awardees is given in a separate file. 9,862,250 9,862,250 9,862,250 @YA Banquet Invitation 90,000 40 3,600,000 3,600,000	IACS Meeting	Set Menu	77,000	45	3,465,000	3,687,750
Hotel Expense for Dr. Hartwig 632,700 1 632,700 Reimbursement for Air Ticket (Dumesic) 1,770,570 1 1,770,570 Reimbursement for Air Ticket (Hartwig) 4,125,150 1 4,125,150 @Young Scientist Award (YA). List of 80 awardees is given in a separate file. 9,862,250 9,862,250 @YA Banquet Invitation 90,000 40 3,600,000		Coffee	4,950	45	222,750	
Reimbursement for Air Ticket (Dumesic) 1,770,570 1 1,770,570 Reimbursement for Air Ticket (Hartwig) 4,125,150 1 4,125,150 @Young Scientist Award (YA). List of 80 awardees is given in a separate file. 9,862,250 9,862,250 @YA Banquet Invitation 90,000 40 3,600,000	Invited	Hotel Expense for Dr. Dumesic	1,425,120	1	1,425,120	7,953,540
Reimbursement for Air Ticket (Hartwig) 4,125,150 1 4,125,150 @Young Scientist Award (YA). List of 80 awardees is given in a separate file. 9,862,250 9,862,250 @YA Banquet Invitation 90,000 40 3,600,000		Hotel Expense for Dr. Hartwig	632,700	1	632,700	
@Young Scientist Award (YA). List of 80 awardees is given in a separate file. 9,862,250 </td <td></td> <td>Reimbursement for Air Ticket (Dumesic)</td> <td>1,770,570</td> <td>1</td> <td>1,770,570</td>		Reimbursement for Air Ticket (Dumesic)	1,770,570	1	1,770,570	
@YA Banquet invitation 90,000 40 3,600,000 3,600,000		Reimbursement for Air Ticket (Hartwig)	4,125,150	1	4,125,150	
	③Young Scientist Award (Y	A). List of 80 awardees is given in a separate file.			9,862,250	9,862,250
Award/Appreciation Plaque (Dumesic, Hartwig, Breysse) 120,000 3 360,000 360,000	@YA Banquet invitation		90,000	40	3,600,000	3,600,000
	Award/Appreciation Plaque	(Dumesic, Hartwig, Breysse)	120,000	3	360,000	360,000

T amounts of YA registration refunded = $19,150 \times 1,030$ won/\$. The amounts were equally split between ICC and IACS. YA banquet expenses were equally split between ICC and IACS.

n) - IACS expenses (25,463,540 won)	31,008,858
1	n) - IACS expenses (25,463,540 won)