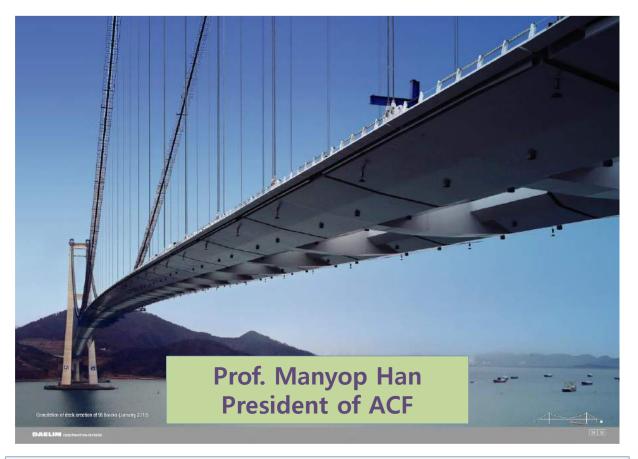
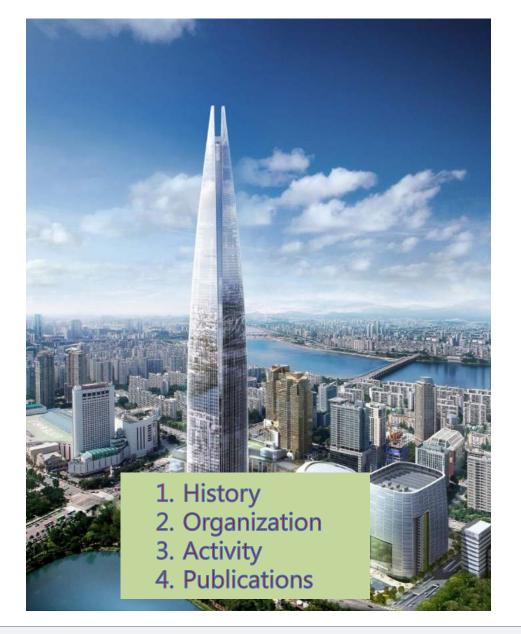


Asian Concrete Federation (ACF)



Yi Sun-Shin Bridge, Main Span 1,545m, The 4th Longest Bridge in the world



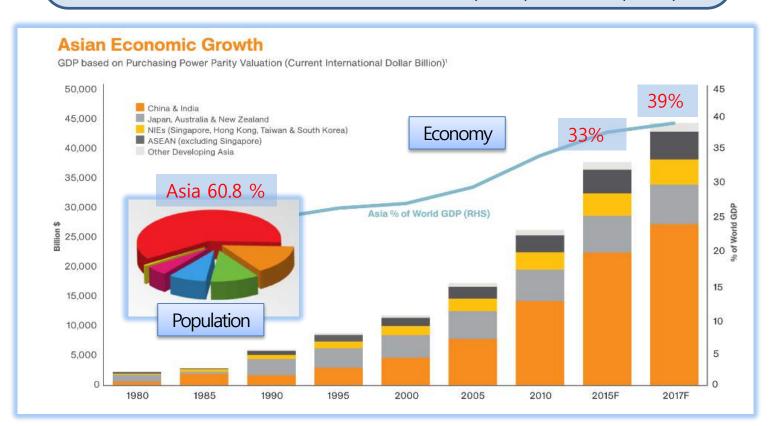


Lotte World Tower, Height 555m, The 6th Highest Building in the World

1. History of ACF

☐ Asia in the world

- The Increasing Importance of Asia
 - 32% of Land mass of the World is Asia
 - 61% of World Population lives in Asia
 - 33% of World Gross Production (2015) -> 37% (2020)
 - 80% of World Cement Production (2015) -> 80% (2020)



1. History of ACF

□ Beginning

- Asian Concrete Forum Preliminary Meeting for ACF
 - 1st Forum : July 2001, Sapporo, Japan, Hosted by JCI
 - 2nd Forum: Oct 2002, Seoul, Korea, Hosted by KCI
 - 3rd Forum: Sep 2003, Pune, India, Hosted by ICI



1. History of ACF

□ Beginning

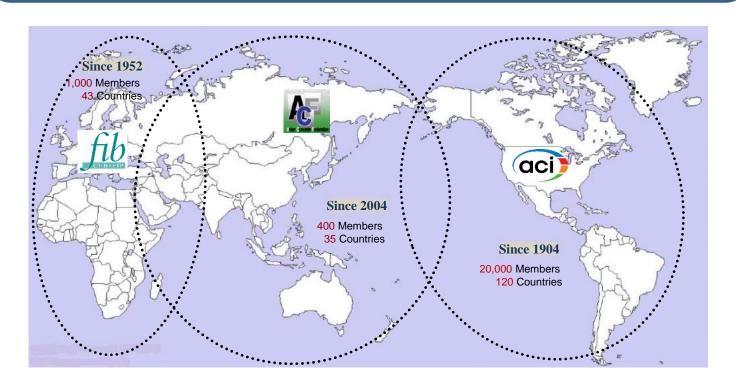
- The Asian Concrete Federation (ACF) started in 2004.
- The first ACF Conference held at Chiangmai, Thailand

The first Executive Council (EC)

Position	Country	Name	Affiliation	
President	Japan	Prof. Taketo Uomoto	Director of ICUS	
Vice President	Korea Thailand	Prof. Keunjoo Byun Dr. Pichai Nimityongskul	President of KSCE President of TCA	
EC Member	India Indonesia Nepal Philippines Taipei Vietnam	Prof. Mahesh Tandon Dr. FX Supartono Dr. Mohan Prasad Aryal Peter N, Aventajado Prof. Jenn Chuan Chern Prof. Nguyen Tien Dich	President of ICI Head of Publication HAKI Vice President of NCI President of PICE President of CICHE Vice President of VCA	
Treasurer	ICCMC	Prof. Tamon Ueda	Chairman of ICCMC	

☐ ACF in the world

- Three Major International Concrete Federations
 - ACI started in 1904, 20,000 members from 120 countries
 - *fib* started in 1952, 1,000 members from 43 countries (CEB and *fip* were merged in *fib* in 1998)
 - **ACF** started in 2004, 400 members from 35 countries



□ Objectives

To promote the understanding of concrete structure

To provide the services to the Asian society

- Initiation and support of international collaborative activities
 - Development of research and technology of concrete structure
- Dissemination of useful information
 - Publications, Conferences, symposia, workshops and Seminars
- Promotion of updating and revising concrete codes/standards
 - Structural design, Materials, Construction and Maintenance
- Interaction with members and keeping them aware of the activities of the federation

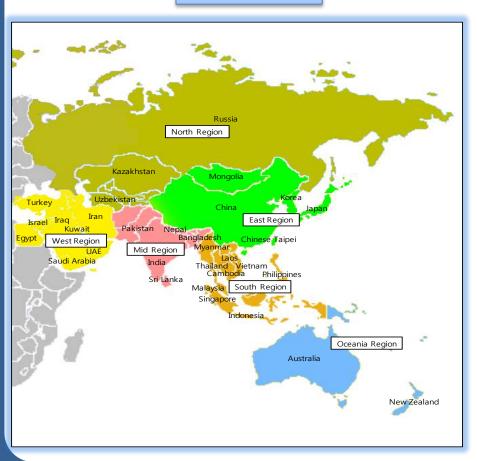
☐ ACF Membership

Category of Membership	Subscription	Voting Right at GA	Number of Persons for Benefit	Other Benefits
Representative Member (RM)	A: US \$4000 B: US \$2000 C: US \$1000 D: US \$500	A: 100 B: 50 C: 25 D: 12	A: 8 B: 4 C: 2 D: 1	 Voting rights for the election of the Executive Council and nominating rights for candidates of an Executive Council member A copy of any publications issued by the Federation during the membership period.
Organization Member (OM)	A: US \$4000 or more B: US \$2000 C: US \$1000 D: US \$500 L: US \$200	A: 10 B: 5 C: 2 D: 1	A: 4 B: 3 C: 2 D: 1	 A copy of any publications issued by the Federation during the membership period. "L" is for Library member
Individual Member (IM)	A: US \$50 B: US \$40 C: US \$30 D: US \$20 S: US \$20	A : GDP > B : GDP < C : GDP < D : GDP <	US \$10,000 US \$ 5,000	 A 10% rebate on registration fee at Federation-organizing events for participants, in case of not mentioning registration fee for ACF members IM's subscription depends on their GDP. "S" is for student member

☐ ACF Regions and Members

- ACF has 6 Regions and 49 countries in Asia, 14 countries in Oceania
- ACF has 10 RMs, 23 OMs, and 400 IMs from 35 countries

ACF Regions



Member's Nationality (RM / IM)

	Regions	Members (35)	Candidates (34)
R1 (5)	East	Korea, Japan Mongolia Chinese Taipei China	
R2 (6)	South	Indonesia .Singapore Thailand, Vietnam Malaysia, Philippines	Cambodia Laos Myanmar
R3 (8)	Mid West North	India, Pakistan Bangladesh Nepal, Sri Lanka Iran, Iraq, UAE	Afghanistan Bahrain, Kuwait Saudi Arabia,Qatar Egypt, Turkey Russia, Kazakhstan Uzbekistan
R4 (2)	Oceania	Australia New Zealand	Papua New Guinea
Other (14)	Europe (8)	Germany, Uk Italy, France Netherlands Norway, Hungary Bulgaria	Spain, Portugal Denmark, Sweden Finland, Poland, Czech, Slovakia Romania, Croatia Ukraine, Greece
	America (3)	USA, Canada Brazil	Mexico, Argentina, Chile, Columbia
	Africa (3)	Algeria, Libya South Africa	Morocco, Ethiopia, Tanzania, Nigeria

□ Representative Members (RM) – 10 countries



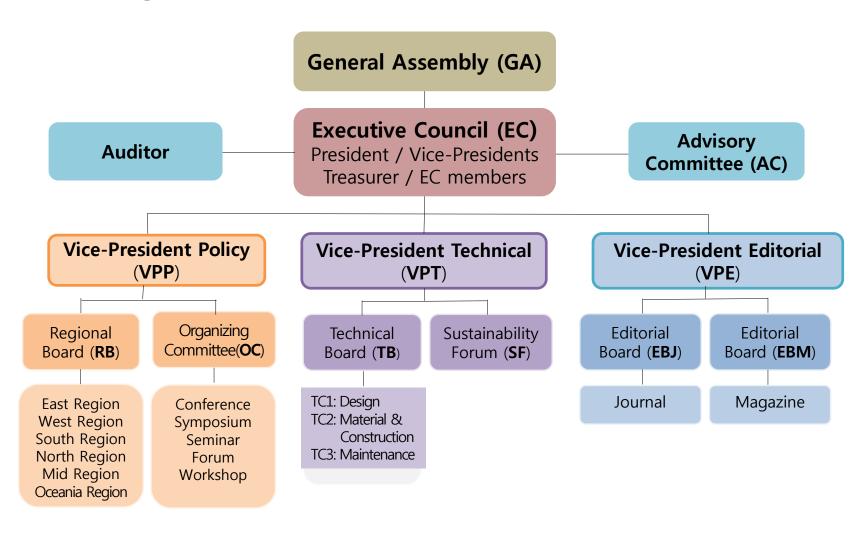
□ Organizational Members (OM) – 23 companies



☐ Individual Members (IM) - 400 members from 35 countries



☐ ACF Organization



□ Executive Council (EC)



☐ Advisory Committee (AC)



☐ Regional Board (RB) & Organizing Committee (OC)



☐ Editorial Board for Journal & Magazine (EBJ) & (EBM)



☐ Technical Board / Committee Chairs (TB / TC) / Sustainable Forum



☐ TC1 : Design



☐ TC2: Material & Construction



☐ TC3 : Maintenance



□ Operational Meetings



5th GA Meeting in Seoul, Korea (Sep. 2014)



10th EC Meeting in Seoul, Korea (Sep. 2014)



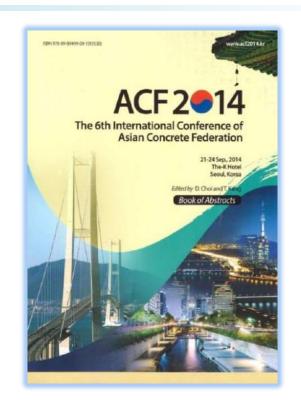
10th PVP Meeting in Taipei, Taiwan (April. 2014)



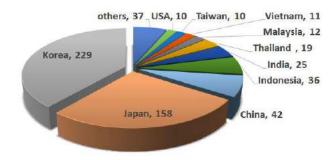
4th TB/TC Meeting in Seoul, Korea (Sep. 2014)

□ International Conference

	Contents	Date	Location
Plan	7th ACF Int. Conf.	30 Oct2 Nov. 2016	Hanoi, Vietnam
Platt	1st ACF Int. Sym.	7 Oct. 2015	Kolkata, India
	6th ACF Int. Conf.	21 - 24 Sep. 2014	Seoul, South Korea
	5th ACF Int. Conf.	24 - 26 Oct. 2012	Pattaya, Thailand
Doot	4th ACF Int. Conf.	29 Nov-1 Dec. 2010	Taipei, Taiwan
Past	3rd ACF Int. Conf.	11 - 12 Nov. 2008	Hochiminh, Vietnam
	2nd ACF Int. Conf.	20 - 21 Nov. 2006	Bali, Indonesia
	1st ACF Int. Conf.	28 -29 Oct. 2004	Chiangmai, Thailand







☐ The 6th ACF 2014 Conference – Keynote Speakers

	Presenter	Institute & Title	Title of Presentation
Æ □	Tamon Ueda	ACF President	Debonding in strengthened concrete members
aci	James K. Wight	ACI Past president	Modern codes for design of concrete structures
fib	Gordon Clark	<i>fib</i> President	Concrete bridges – Lessons for durability by design
rilem	Mark Alexander	RILEM President	Suitable single-score life-cycle environment assessment metrics for reinforced concrete structure



Tamon Ueda (ACF) James K. Wight (ACI)



Gordon Clark (*fib*)





Mark Alexander (RILEM)

☐ The 6th ACF 2014 Conference – Invited Speakers

Presenter	Nationality	Title of paper
Keunjoo Byun	Korea	The state-of-the-art recycled aggregate concrete
Jongsung Sim	Korea	Why do we need Asian concrete model code?
Jin-Keun Kim	Korea	Development of devices for measuring semi-adiabatic temperature rise and thermal stress
Yan Xiao	China	Impact behavior of reinforced concrete members
Bao-Chun Chen	China	Experimental study on the ultimate load-carrying capacity of UHPFRC arches
Koji Sakai	Japan	The current state and future of Asian concrete / construction industry
Koichi Maekawa	Japan	Thermo-hygral simulation of RC decks and monitoring data assimilation for bridge maintenance
A. K. Mullick	India	Pozzolanic properties and utilization of bottom ash in cement and concrete
FX Supartono	Indonesia	Sunda strait bridge: A titanic project connecting Java island and Sumatra island
Surendra P. Shah	U.S.A.	Nanotechnology and sustainability
Sashi K. Kunnath	U.S.A.	Modeling and simulation of progressive collapse of reinforced concrete frame buildings
Györge L. Balázs	Hungary	Possibilities of computed tomography (CT) for diagnosis of concrete structures







Prof. Keunjoo Byun

Prof. Koji Sakai

Prof. Surendra P. Shah

☐ The 6th ACF 2014 Conference – Program & Photo





Opening Ceremony





Conference Brochure



Lotte Tower Tour

September 21, 2014 (Sunday)			
08:00 ~	ACF 2014 Registration		
09:00 ~ 12:00	EC Meeting 1		
12:00 ~ 13:30	Lunch		
13:30 ~ 15:00	EC Meeting 2		
15:00 ~ 18:00	GA Meeting		
18:30 ~ 20:00	Welcome Reception		
September	· 22, 2014 (Monday)		
08:30 ~ 08:50	Opening Ceremony		
08:50 ~ 10:10	Keynote Speech		
10:10 ~ 10:30	Coffee Break		
10:30 ~ 11:50	Keynote Speech		
11:50 ~ 13:00	Lunch		
13:00 ~ 14:30	Parallel Sessions 1		
14:30 ~ 14:50	Coffee Break		
14:50 ~ 16:20	Parallel Sessions 2		
16:20 ~ 16:40	Coffee Break		
16:40 ~ 18:10	Parallel Sessions 3		
•	² 23, 2014 (Tuesday)		
08:00 ~ 09:30	Parallel Sessions 4		
09:30 ~ 09:50	Coffee Break		
09:50 ~ 11:50	Parallel Sessions 5		
11:50 ~ 13:00	Lunch		
13:00 ~ 14:30	Parallel Sessions 6		
14:30 ~ 14:50	Coffee Break		
14:50 ~ 16:20	Parallel Sessions 7		
16:30 ~ 18:30	Closing Ceremony		
18:30 ~ 21:00	Banquet		
	23, 2014 (Wednesday)		
09:00 ~ 10:20	ACF TC & TB Meetings 1		
10:20 ~ 10:40	Coffee Break		
10:40 ~ 12:00	ACF TC & TB Meetings 2		
12:00 ~ 13:00	Lunch		
13:00 ~ 18:00	Technical Tour		

☐ ACF Awards

The ACF Awards will be given in ACF 2016 International Conference, Hanoi, Vietnam

	The ACF Awards				
	Title	Num.	Qualified Person / Organization		
1	Distinguished Service Awards	1~2	Past president / Honorary member		
2	Best Academic Awards	1~2	Vice president / distinguished member		
3	Best Technical Awards	2~3	Construction Companies / best OM		
4	Best Project Awards	2~3	Monumental Construction Projects (Civil/Architectural)		
5	Best Paper Awards	4~5	Best Papers among ACF Journal / ACF Conference		
6	Best Engineer Awards	2~3	Young Doctors (PhD) / Engineers below 40		
7	Best Member Awards	2~3	Best Active RM / OM / IM / EO		
8	Best Committee Awards	1	Best Active Committee / Board		
9	Special Awards	1~2	Significant Contribution for ACF (not listed above)		





☐ Sustainability Forum (SF)



7th SF in Ulaanbaatar, Mongolia (2014)

Contents	Date	Location
9th SF	Apr. 2015	Fuzhou, China
8th SF	Sep. 2014	Seoul, Korea
7th SF	May. 2014	Ulaanbaatar, Mongolia
6th SF	Sep. 2013	Surabaya, Indonesia
5th SF	Mar. 2013	Ho chi minh, Vietnam
4th SF	Oct. 2012	Pattaya, Thailand
3rd SF	Apr. 2012	New Delhi, India
2nd SF	Nov. 2011	Seoul, South Korea
1st SF	Apr. 2011	Bangkok, Thailand

☐ Young Researchers & Graduate Symposium (YRGS)

Contents	Date	Location
6th YRGS	Oct.2014	Thammasat University, Thailand
5th YRGS	May.2013	Malaviya National Inst. Tech. India
4th YRGS	Apr.2012	Hong Kong Univ., Hong Kong
3rd YRGS	Sep.2011	National Taiwan Univ., Chinese Taipei
2nd YRGS	July.2010	Zhejiang Univ., China
1st YRGS	Apr.2009	Kunsan National Univ, South Korea



YRGS Symposium in Bangkok, Thailand (2014)

☐ Asian Concrete Model Code (ACMC)

Division	Code No.	Contents					
Design	Sep. 2014 ACFC0-3-14	Asian Concrete Model Code (ACMC 2014), 3rd ed.					
Code	Jun. 2006 ACFC0-2-06	Asian Concrete Model Code (ACMC 2006), 2nd ed.					
Codo	Mar. 2001 ACFC0-1-01	Asian Concrete Model Code (ACMC 2001), 1st ed.					
National	Jan. 2014 ACFC3-4-14	Thailand Std. Spec.: Materials and Construction					
Standard	Jan. 2014 ACFC3-3-14	Thailand Std. Spec.: Durability and Service Life Design					
Otaridara	Jul. 2004 ACFC3-2-04	Vietnam Std. Spec. (TCXDVN 318: 2004): Concrete Reinforced Structure - Guide to Maintenance					
	Mar. 2011 ACFC3-4-11	Maintenance for Carbonation Guidelines for maintenance and rehabilitation of concrete str. Subjected to carbonation-induced deterioration					
	Nov. 2010 ACFC3-3-10	Seismic Assessment and Retrofit Guidelines for the seismic assessment and retrofit of concrete structures					
Technical	Nov. 2009 ACFC1-1-09	Design for Seismic Actions Guidelines for designing transverse confinement reinforcement of RC columns against seismic actions					
Report	Jun. 2007 ACFC1-2-07	Design for Fire Actions Guidelines for the design of reinforced concrete buildings against fire actions					
report	Aug. 2005 ACFC2-1-05	Materials and Construction Guidelines for materials and construction based on Japanese standard specifications					
	Apr. 2004 ACFC3-1-04	Maintenance for Chloride Attack Guidelines for maintenance and rehabilitation of concrete structures against chloride induced deterioration					
	Jul. 2001 ACFC1-1-01	Design for Seismic Action An example of seismic performance examination for RC building design according to the AIJ Guidelines 24 / 32					

☐ ACF News letters (2007 ~ 2014)

Number	Date	Contents	
Vol. 8 No. 4	Oct 2014	The 6th YRGS 2014, Vietnam's Largest Cable-Stayed Bridge, The Best New Tall Build	lings on the Planet,
Vol. 8 No. 3	Jul 2014	The ACF P&VP Meeting in Chinese Taipei, ACF Member Institute "HAKI", PhD abstra	acts,
Vol. 8 No. 2	Apr 2014	Meetings with CIA and ISO/TC71, ACF Member Institute " MCA", YRGS 2014 Announcement	ncement,
Vol. 8 No. 1	Jan 2014	Message from ACF President, YRGS 2013, VCA-ACF Joint Seminar,	
Vol. 7 No. 1,	Oct 2013	Message from ACF President, New ACF Secretary General, the 9th EC Meeting, the 2	2nd TB Meeting,
Vol. 6 No. 2	Dec 2012	Brief history and future expectation of ACF-SF, election results, new ecological conc	rete,
Vol. 6 No. 1	Jul 2012	Future of cement and concrete, ACF and ISO/TC71, sustainable prefabricated structu	ıres
Vol. 5 No. 1	Dec 2011	Message from president, major activities and future plans, ACF-JCI-VCA joint semina	Asian Constrole Federalis
Vol. 4 No. 3	Dec 2010	Farewell message from outgoing president, Taipei declaration on sustainability	A Comment
Vol. 4 No. 2	Oct 2010	Advanced concrete technology in Korea, ACF-JCI-VCA joint seminar	Manager and Address of the State of the Stat
Vol. 4 No. 1	Jun 2010	High performance concrete, engineered cementitious composites	
Vol. 3 No. 3	Dec 2009	Role of ACF, contribution of ICCMC and ACMC to sustainable development in Asia	10 A
Vol. 2 No. 2	Aug 2008	Foreword by Vice President (Technical), news from Secretariat	
Vol. 2 No. 1	Apr 2008	Foreword by President, President and Vice Presidents meeting	
Vol. 1 No. 3	Dec 2007	Foreword by Vice Presid`ent (Policy), 2nd President and Vice Presidents meeting	
Vol. 1 No. 2	Aug 2007	Foreword by Vice President (Technical), Ferrocement rainwater harvesting (RWH) sys	Signal Co
Vol. 1 No. 1	Apr 2007	Foreword by President, ACF awards	- MINE 440

☐ Journal of ACF

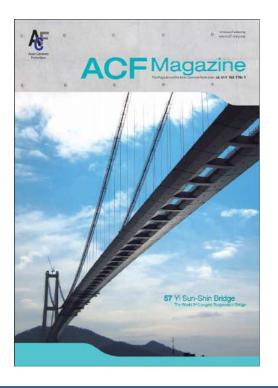
- The 1st ACF Journal: to be published in Sep. 2015
 - The invited papers of ACF 2014 International Conference are included
 - Editor in Chief is Prof. D.U. Choi
 - Editorial Board Members are consisted of World Renowned Scholars

	Topics of ACF Journal
1	Concrete Structures
2	Concrete Materials and Technologies
3	Maintenance, Monitoring, Repair and Strengthening
4	Sustainability
5	Construction and Engineering
6	Recent research and related topics



☐ ACF Magazine

- The 1st Magazine: published in July 2015
 - Four issues per year
 - Editor in Chief is Prof. J.S. Kim
 - English Editors are from Australia, New Zealand, India & Hong Kong



Divisions	No.	Contents	
linting also attaca	1	Foreword	
Introduction	2	Introduction of Organization	
	3	Member Country Actively	
Technical	4	Advanced Technology	
Topics	5	Construction Record	
	6	Product and Practice	
	7	ACF Activity	
News	8	Book Review	
	9	International News	2

☐ ACF Magazine

Foreword - Greetings & Congratulatory Remarks

ACF President ACF Past President KCI, JCI President *fib*, ACI President Congratulatory Remarks Past President's Greetings Congratulatory Remarks President's Greeting 7 Alf 2010 ACT Magazine

☐ ACF Magazine

Introduction of Organization / Member Country Activity

ACF KCI JCI Master Plan in Korea 49 years of advancing the future of concretes JCI is Japan's only organization that promotes concrete science and technology. introduction of Organization Korea Concrete institute - Member Country Activity -Land Development Master Plan in Korea introduction of Organization -Asian Concrete Federation he Role and Future Prospect of Japan Concrete Institute 17 July 2015 AGT Magazine 11 104 SOLD WCL Marketon

Land Development

☐ ACF Magazine

Advanced Technology

Hi-PC Girder Bridge

Japanese Action for Debris due to Earthquake

UHPFRC Bridge

Integrated Life Cycle
Assessment of Concrete



☐ ACF Magazine

Construction Record / Product and Practice



Thank You Very Much !!!



Asian Concrete Federation

