

Technical Program Overview

The 6th ASCCS International Conference on Steel- Concrete Composite Structures
 March 22- 24, 2000, Los Angeles, California, USA.

Time	Wednesday, March 22	Thursday, March 23	Friday, March 24
9:00am-10:00am	Opening Ceremony	Keynote Lecture-2: Dr. D. Anderson: "Composite Construction in Europe: Recent Developments."	Keynote Lecture-4: Dr. H. Hayashi: "Composite and Hybrid Concepts used in Kobe Earthquake Damage Recovery Construction."
	Keynote Lecture-1: Dr. J. Colaco on "Composite and Hybrid Construction in North America."	Keynote Lecture-3: Drs Yamanouchi & S. Goel: "US-Japan Cooperative Research Program on Composite Structures."	Keynote Lecture-5: Dr. F. Seible: "Advanced Composite Materials in Civil Applications."
10:00am-10:30am	Coffee Break, Opening of Exhibition*	Coffee Break	Coffee Break
10:30am-12:10pm	Session-I-1: Hybrid Tall Building Structures	Session-II-1: Seismic Analysis and Design	Session-III-1: US-Japan Research Program: Innovative Systems, Material
	Session-I-2: Behavior, Design of Concrete Filled Tube (CFT) Columns - 1	Session-II-2: Composite Structural Components	Session-III-2: Composite Slab and Beam Design - 2
	Session-I-3: Hybrid Bridge Design -1	Session-II-3: Hybrid Bridge Design - 2	Session-III-3: Composite Connection Design - 2
12:10pm-1:30pm	Lunch (<i>California Forum</i>)	Lunch (<i>International Forum</i>)	Lunch (<i>California Sunshine</i>)
1:30pm-3:10pm	Session-I-4: Retrofit and Repair - 1	Session-II-4: Retrofit and Repair - 2, FRP Composites	Session-III-4: New and Innovative Structures
	Session-I-5: Behavior, Design of Concrete Filled Tube (CFT) Columns - 2	Session-II-5: Composite Slab and Beam Design - 1	Session-III-5: Analytical Methods - 2
	Session-I-6: Design for Temperature and Fire	Session-II-6: Seismic Design of Concrete Filled Tube (CFT) Structures - 2	Session-III-6: Design Code Issues
3:10pm-3:40pm	Refreshment Break	Refreshment Break	Refreshment Break
3:40pm-5:20pm	Session-I-7: Interaction and Stress Transfer Mechanisms	Session-II-7: Retrofit and Repair - 3, FRP Composites	Closing Ceremony, Award Presentation and ASCCS General Meeting
	Session-I-8: Seismic Design of Concrete Filled Tube (CFT) Structures - 1	Session-II-8: Analytical Methods - 1	
	Session-I-9: Hybrid and Composite Wall Structures	Session-II-9: Composite Connection Design - 1	
5:20pm-7:00pm	Poster Session & Reception	Poster Session & Reception	
7:00pm-9:00pm	Conference Banquet		

* The technical exhibition program by various companies and organizations includes: showcases of design or construction projects; technical publications; computer software; construction products; new composite materials; special structures and components; retrofit and rehabilitation projects, etc.

Wednesday, March 22, 2000	9:00am – 9:30am	Manhattan Ballroom
Opening Addresses by Prof. SILVERMAN, L., Dean of Engineering, University of Southern California Prof. WELLFORD, L.C., Chair, Department of Civil Engineering, University of Southern California Prof. MAHIN, S., ASCCS-6 Conference Chairman Prof. MATSUI, C., ASCCS President Moderators: Dr. GOODE, D.; and Dr. XIAO, Y.		
Wednesday, March 22, 2000	9:30am – 10:00am	Manhattan Ballroom
Keynote Lecture-1 , Moderator: <i>Dr. MUJUMDAR, Vilas</i> “Composite and Hybrid Construction in North America” by <i>Dr. COLACO, Joe</i>		
Wednesday, March 22, 2000	10:30am – 12:10pm	
Room: Suite 200A & B	Room: Shore	Room: Suite 219 & 223
Session I-1: Hybrid Tall Building Structures Moderators: <i>Prof. SHAHROOZ, B. M.; and Dr. NISHIYAMA, I</i>	Session I-2: Behavior, Design of Concrete Filled Tube (CFT) Columns (1) Moderators: <i>Prof. SAKINO, K.; and Prof. RICLES, J. M.</i>	Session I-3: Hybrid Bridge Design (1) Moderators: <i>Prof. SAIID, M.; Dr. YEN, P.W.</i>
A New Structural System for CFST Structures in Hi-rise Buildings LIU, Da-Lin; ZHONG, Shan-Tong Mixed Structures of Composite Materials (MSCM) in front of the XXI century. Examples CISMIGIU, Alexandru I.; CISMIGIU, Mihaela A. Application of Concrete Filled Steel Tubular Column in Super High-rise Building - SEG Plaza WU, Guo-Lin (A#-082) Design Example of Core-RC and Exterior-Steel-Frame Combined High-rise Building KURIBAYASHI, Hiroyuki; NAKANO, Tokio Constructability and Seismic Performance of Composite RCS Moment Frames BRACCI, Joseph; BUGEJA, Michael; MOORE, Walter P.	A Hybrid Experimental-Numerical Procedure for Interfacial Stress Distribution of Concrete-Filled Tubular Steel Columns SHEN, J.D.; LIANG, Z.; LEE, G.C. (A#-122) Research for the Behavior and Load Bearing Capacity of Square (Early-Strength) Concrete Filled Steel Tubes WEI, Zhuo-Bin (A#-026) Stress-Strain Behavior of Concrete-Filled Square Steel Tubes ZHANG, Sumei; ZHOU, Ming (A#-112) Structural Behavior of Composite Columns JOHANSSON, Mathias; and GYLLTOFT, Kent (A#-085) Behavior of Steel-Concrete Composite Columns LAKSHMI, B.; SHANMUGAM, N.E. (A#-095) Practical Analysis for High-Strength CFT Columns Under Eccentric Compression NAKAHARA, Hiroyuki; SAKINO, Kenji (A#-102) Performance of Concrete Filled Steel Tubular Columns under Cyclic and Earthquake Loading Combination XU, Ji-Shan (A#-194)	A New Bridge Under Construction in Romania POPA, Victor (A#-086) Composite Girder Bridge with Channel-shaped Precast PC Deck Slabs HINO, Shinichi; TSUTSUMI, Tadahiko; YAMAGUCHI, Kohei; MATSUI, Shigeyuki; OHTA, Toshiaki (A#-104) Feasibility-Study of a Proposed Cut and Cover Tunnel Structure Applying Steel-RC Composite Wall KANAJI, Hidesada; SUDA, Kumiko; and ONO, Koichi (A#-168) The Design of Shenzhen Beizhan Bridge LI, Yong; NIE, Jian-Guo; CHEN, Bao-Chun; CHEN, Yi Yan; and LI Guo-Wei (A#-001) * Performance of a 2.3km Long Modern Viaduct Bridge During the November 12, 1999 Duzce, Turkey Earthquake XIAO, Y.; and YAPRAK, T.T. * Seismic Behavior of Steel Pile-to-Pile Footing Connections XIAO, Y.; WU, H.; MANDER, J.; and MARTIN, G.

* presentation only

Wednesday, March 22, 2000

12:10pm – 1:30pm

Manhattan Ballroom

Lunch

California Forum on “The New San Francisco Bay Bridge”, by Mr. R. MANZANAREZ, T.Y. Lin International.

Wednesday, March 22, 2000

1:30pm – 3:10pm

Room: Suite 200A & B	Room: Shore	Room: Suite 219 & 223
Session I-4: Retrofit and Repair (1) Moderators: <i>Prof. PARDOEN, G.; and Prof. CHAI, R.Y.H.</i>	Session I-5: Behavior, Design of Concrete Filled Tube (CFT) Columns, (2) Moderators: <i>Prof. LEE, G.; and Prof. KIM, D.K.</i>	Session I-6: Design for Temperature and Fire Moderators: <i>Prof. WRIGHT, H.; and Prof. NIE, J. G.</i>
Seismic Upgrading of Non-Ductile RC Moment-Resistant Frame Buildings SASANI, Mehrdad; BERTERO, Vitelmo V.; and ANDERSON, James, C. (A#-160) A 22-Story Structure Upgraded with a Composite Structural System ENGLEKIRK, R.; HO, Lawrence Y.; LI, Roger (A#-069) Aseismic Structural Performance of External Reinforcement by Steel brace for Existing RC Frame Structure MAKITANI, E.; ARIMA, H.; MARUMO, T. (A#-123) Retrofit of Rectangular Reinforced Concrete Columns Using Partially Stiffened Rectilinear Jackets XIAO, Yan; and WU, Hui (A#-189) Slab Effects on Retrofit Steel Moment Connections CIVJAN, Scott; ENGELHARDT, Michael; GROSS, John (A#-050)	Effectiveness of Interior Stiffeners on Axially Loaded Concrete-Filled Square Tubular Steel Columns LIU, G.-Y.; HUANG, C.-S.; YEH, Y.-K.; WENG, Y. -T.; WANG, S.-H.; TSAI, K.-C. (A#-067) The Comparison of the Composite Rigidities with the Conversion Rigidities for CFST Members ZHONG, Shan-Tong (A#-018) Experimental Studies on the Strength of Concrete Filled Steel Tubular Columns with High Slenderness Ratio HAN, Lin-Hai; YAN, Shan-Zhang (A#-013) Flexural Capacities of Concrete Filled Square Steel Tubular Beam- Columns with High Strength Concrete SAKINO, Kenji; NAKAHARA, Hiroyuki (A#-101) The Maximum Strength of Exterior Concrete Filled Tube Columns in Moment Resisting Steel Frames with Weak Beams LEE, Myung Jae; SHIN, Yong Woo (A#-108) Ultimate Lateral Strength of R/C Short Columns confined Laterally by a Steel Square Tube Under Low Axial Loads YOSHIMURA, K.; KIKUCHI, K.; KUMAMOTO, A.; KUROKI, M.; OKINO, M.; KOJA, T.; TANAKA, Y. (A#-024) Double Skin Composite Tubular Columns Subjected to Cyclic Horizontal Force and Constant Axial Force YAGISHITA, Fumio; KITO, Hiroaki; SUGIMOTO, Masato; TANIHIRA, Tsutomu; SONODA, Keiichiro (A#-036)	Analysis of CFST Arch Bridge’s Temperature Stresses CHEN, Boa-Chun; XU, Ai-Min (A#-003) Fire Resistance of Concrete Filled Square Steel Tubular Beam-Columns HAN, Lin-Hai; XU, Lei (A#-012) Behavior of Composite Structures Exposed to Natural Fire SCHAUMANN, P.; UPMAYER, J. (A#-079) Temperature Analysis of Steel-Concrete Composite Slim Floor Structures Exposed to Fire. MA, Zhong Cheng; MAKELAINEN, Pentti (A#-107) Structural Characteristics on Ultimate Strengths and Axial Deformation for CFT Columns under Axial Force and Fire Load CHUNG, Kyung-Soo; CHOI, Sung-Mo; KIM, Dong-Kyu (A#-118) Enhancing the Fire Resistance of Steel Columns Through Composite Construction KODUR, V.K.R.; and SULTAN, M.A. (A#-167)

Wednesday, March 22, 2000

3:40pm – 5:20pm

Room: Suite 200A & B	Room: Shore	Room: Suite 219 & 223
Session I-7: Interaction and Stress Transfer Mechanisms Moderators: <i>Prof. MAKELAINEN, P.; and Dr. UY, B.</i>	Session I-8: Seismic Design of Concrete Filled Tube (CFT) Structures, (1) Moderators: <i>Prof. ROEDER, C.W.; and Prof. SHANMUGAM, N.E.</i>	Session I-9: Hybrid and Composite Wall Structures Moderators: <i>Dr. ENGLEKIRK, R.; and Prof. ESAKI, F.</i>
Failure of Steel-Concrete Connections at the Kursaal Auditorium SERNA, Miguel A.; PUENTE, Iñigo; LOPEZ, Aitziber; CLEMOS, Luis; CANTONNET, Jose I. (A#-059) Perforated Shear Connector for Composite Steel and Concrete Structures MACHACEK, Josef; STUDNICKA, Jiri (A#-011) Non-traditional Shear Connections in Steel-Concrete Composite Structures ROVNAK, Marian; DURICOVA, Antonia; NAD, Ludovit (A#-063) Constitutive Laws for Transferred Shear Force and Relative Displacement Relationship of Shear Connector in Steel-Concrete Sandwich Beam SAIDI, Taufiq; FURUUCHI, Hitoshi; UEDA, Tamon (A#-064) Strength and Behavior of Grouped Headed Stud Connectors OKADA, Jun; LEBET, Jean-Paul (A#-091) * Standoff Screws as Shear Connectors for Composite Trusses EASTERLING, Samuel W.; and MURRAY, Thomas, M. (A#-170)	Recent Developments on CFT Column Systems - US-Japan Cooperative Earthquake Research Program MORINO, Shosuke (A#-173) Cyclic Testing of Concrete-Filled Steel Pipe Column Base Detail BRUNEAU, Michel; MARSON, Julia (A#-048) Seismic Behavior of High Strength Square CFT Beam-Columns VARMA, Amit H.; RICLES, James. M.; SAUSE, Richard; REAM, Anthony N.; LU, Le-Wu (A#-129) Behavior of Beam-to-Column Connection of CFT Column System under Seismic Force FUJIMOTO, Toshiaki; INAI, Eiichi; TOKINOYA, Hiroyoshi; KAI, Makoto; MORI, Koji; MORI, Osamu; and NISHIYAMA, Isao (A#-174) Elasto-Plastic Behavior of Steel Beam to Square Concrete Filled Steel Tube (CFT) Column Connections FUKUMOTO, Toshiyuki; MORITA, Koji (A#-092) Seismic Performance of Hybrid RC Columns Highly Confined in Square Steel Tube and PC Bar Prestressing YAMAKAWA, Tetsuo; OGAWA, Katsuyuki (A#-088)	Strength and Behavior of Steel-Concrete Composite Bearing Wall HITAKA, Toko; MATSUI, Chiaki; SADAKANE, Yoshihide; YANAGIDA, Yukihisa (A#-071) Cyclic Behavior of Outrigger Beam-Wall Connections SHAHROOZ, Bahram M.; DEASON, Jeremy; TUNC, Gokhan (A#-061) Lateral Load Behavior of Unbonded Post-Tensioned Hybrid Coupled Walls SHEN, Qiang; KURAMA, Yahya C. (A#-105) * Seismic Behavior and Design of Steel Frames with Composite Reinforced Concrete Infill Walls HAJJAR, Jerome; SCHULTZ, Arturo; TONG, Xiangdong; and SHIELD, Carol (A#-145) Lateral-Load Behavior of RC Shear Walls with Structural Steel Boundary Columns WALLACE, John W.; CHERLIN, Marcus E.; and SAYRE, Brian L. (A#-169)

Wednesday, March 22, 2000

5:20pm – 7:00pm

Pre-Function Area

Reception, Poster Presentations & Exhibitions

Wednesday, March 22, 2000

7:00pm – 9:00pm

Manhattan Ballroom

Conference Banquet

Banquet Speech by John A. "Trailer" MARTIN, Jr., President of John A. Martin & Associates, Inc.

* presentation only

Thursday, March 23, 2000

9:00am – 10:00am

Manhattan Ballroom

Keynote Lecture-2 and 3

Moderator: *Prof. AOYAMA, H.; and Dr. LIU, S.C.*

“Composite construction in Europe, Recent Development” by *Dr. Anderson, D.*

“US-Japan Cooperative Research Program on Composite Structures” by *Drs. Yamanouchi and Goel, S.*

Thursday, March 23, 2000

10:30am – 12:10pm

Room: Suite 200A & B	Room: Shore	Room: Suite 219 & 223
Session II-1: Seismic Analysis and Design Moderators: <i>Dr. BRANDOW, G.; and Dr. TARANATH, B. S.</i>	Session II-2: Composite Structural Components Moderators: <i>Prof. WALLACE, J. W, and Prof. MO, Y. L.</i>	Session II-3: Hybrid Bridge Design (2) Moderators: <i>Prof. BRUNEAU, M.; and Dr. DUAN, L</i>
Composite and Hybrid Systems for Lateral Loads ROEDER, Charles W. (A#-180) Seismic Damage Indices and Near-collapse Performance Assessment in Composite Moment Frames MEHANNY, Sameh S.F.; DEIERLEIN, Gregory G. (A#-034) Dynamic Response of SRC-RC Building Structure in Complete Bond/No-Bond Between Steel and RC LI, Kang Ning; KUBO, Tetsuo; and XIAO, Yan (A#-155) A Connection Macro-Element For Inelastic Dynamic Analysis of Hybrid Walls KUNNATH, Sashi; EL-TAWIL, Sherif; HASSAN, Mohamed; and KUENZLI, Christopher (A#-159) Merits of CFT Column System – Results of Trial Design of Theme Structures UCHIKOSHI, Mizuaki; HAYASHI, Yukio; and MORINO, Shosuke (A#-175)	Stable Limit Axial Force and Deformation Capacity of Steel Reinforce Concrete Beam-Columns LI, Li.; MATSUI, Chiaki (A#-080) Earthquake Resistant Properties of Core Steel Composite Columns SAKAI, Junichi; MATSUI, Chiaki; MINAMI, Kouichi (A#-135) Shear Force of Reinforced Unbonded Brace Cover at its End YOSHIDA, Keito; MITANI, Isao; ANDO, Nobuyoshi (A#-027) Superposed Strength of slender SRC Beam-Columns with Various Steel Sections FUJINAGA, Takashi; TSUDA, Keigo; MATSUI, Chiaki (A#-028) Compressive Behavior of Square High-Strength Concrete Columns Reinforced with W-Shape Steel MARTIROSSYAN, Armen; XIAO, Yan (A#-039) Design Equation for Biaxially Loaded Concrete-Encased Composite Columns MUNOZ, Pedro R.; HSU, Cheng-Tzu Thomas (A#-044) Seismic Behavior of High-Strength Composite Steel and Concrete Columns XIAO, Yan; ANDERSON, J.C.; and YAPRAK, T. (A#-193)	Steel Concrete Composite Bridge Structure on Narmada River in India DUBEY, R.S. (A#-181) Experimental Study On In-Plane Ultimate Strength of Concrete-Filled Steel Tubular Rib Arch Bridges CHEN, Bao-Chun; CHEN, You-Jie (A#-002) Recent Development of CFST Arch Bridges in China ZHEN, Zhen Fei; CHEN, Bao Chun (A#-004) Seismic Design of Steel-Encased, Concrete Column Connections to Footings SAIDI, M.; DARWISH, I.; and SANDERS, D. (A#-154) Development and Construction of Steel Plate Concrete Composite Deck - SC Deck TANAKA, Kazuo; MATSUI, Shigeyuki; and WATANABE, Hiroshi (A#-158) Torsional Behavior of Prestressed Concrete Box Bridges with Corrugated Steel Webs MO, Y.L.; CHANG, Y.H. (A#-015)

Thursday, March 23, 2000

12:10pm – 1:30pm

Manhattan Ballroom

Lunch

International Forum on “Concrete Filled Tube (CFT) Structures in China”, by Prof. S.T. Zhong, Harbin University of Civil Engineering and Architecture

Thursday, March 23, 2000

1:30pm – 3:10pm

Room: Suite 200A & B	Room: Shore	Room: Suite 219 & 223
Session II-4: Retrofit and Repair (2), FRP Composites Moderators: <i>Prof. PANTELIDES, C. P.; and Mr. POURZANJANI, M.</i>	Session II-5: Composite Slab and Beam Design (1) Moderators: <i>Prof. EASTERLING, S.; and Prof. SERNA, M. A.</i>	Session II-6: Seismic Design of Concrete Filled Tube (CFT) Structures (2) Moderators: <i>Prof. MORINO, S. and Prof. BRACCI, J.</i>
Composite Retrofit for a 47-Story Steel Building COLACO, Joseph; FORD, Wally (A#-007) Experimental Study on Adhered Steel Brace KEI, T.; MIYAUCHI, Y.; and FUJIMURA, M. (A#-162) Stiffness Influence of Steel Jackets for Bridge Column Retrofit CHAI, Rob Y.H. (A#-093) Effectiveness of GFRP members in Retrofitting Damaged Steel Girder Bridge with RC Slab ABDULLAH, Basem; HINO, Shinichi; OHTA, Toshiaki; HISAO, Katsuno (A#-103) Experimental Study on Seismic Behavior of Reinforced Hollow Concrete Block Masonry Walls Strengthened with Carbon Fiber Sheets KIKUCHI, K.; YOSHIMURA, K.; KEI, T.; TAKAHASHI, K.; LIU, L.; KODAMA, I. (A#-076)	The Development of a Stem Girder System WRIGHT, H.; KIM, B.; CAIRNS, R. (A#-040) Serviceability of Semi-Continuous Composite Beams in Buildings UY, Brian; BELCOUR, Pierre F.G. (A#-047) Experimental Study on Composite Steel-Concrete Beams under Combined Bending and Torsion NIE, Jian-Guo; LUO, Ling; and HU, Shao-Wei (A#-056) Fatigue of Composite Beams with Large Web Openings DORKA, Uwe E.; BODE, Helmut (A#-077) Reinforcing Method for R/C Suspended Slab in Steel Building Structure YOSHIMURA, K.; KIKUCHI, K.; KUROKI, M.; SASAKI, T.; UEDA, N.; IIDA, I.; OKITA, K.; MAEDA, T. (A#-029)	Aseismic Experimental Research on the Concrete-Filled Steel Tubular Column Joint with Reinforced Concrete Beam YU, Lei; XU, Shu-Fang; JIANG, Wei-Shan (A#-075) Connection Behaviors of Steel Beam to Concrete-Filled Circular Steel Tubes CHENG, C-T; Hwang, P.S.; LU, L-Y; and CHUNG, L-L (A#-083) Full-scale testing of Seismically Resistant Moment Connections for Concrete Filled Tube Column-to-WF Beam Hybrid Systems PENG, Shih-Wei; RICLES, James M.; LU, Le-Wu (A#-120) Research on the Hysteretic Behavior of High-Strength Concrete Filled Steel Tubular Members under Compression and Bending WANG, Zhan (A#-183) Deformation Capacity and Hysteresis Model of Concrete Filled Steel Tubular Beam-Columns INAI, Eiichi; NOGUCHI, Takashi; MORI, Osamu; and FUJIMOTO, Toshiaki (A#-176)

Thursday, March 23, 2000

3:40pm – 5:20pm

Room: Suite 200A & B	Room: Shore	Room: Suite 219 & 223
Session II-7: Retrofit and Repair (3), FRP Composites Moderators: <i>Mr. POST, T.; and Prof. YAMAKAWA, T.</i>	Session II-8: Analytical Methods (1) Moderators: <i>Dr. NAEIM, F. and Prof. HAJJAR, J.</i>	Session II-9: Composite Connection Design (1) Moderators: <i>Prof. ANDERSON, J.C.; and Dr.. KURAMOTO, H.</i>
<p>Seismic Retrofitting of RC Columns with FRP Jackets SEIBLE, Frieder (A#-126)</p> <p>Summary of Caltran's FRP Composite Pre-qualification Program SHENG, Li-Hong (A#-191)</p> <p>Compressive Stress-Strain Behavior of Concrete Confined by Carbon Fiber Reinforced Polymer Composite Jacket WU, Hui; XIAO, Yan (A#-190)</p> <p>Experimental Study on Seismic Behavior of R/C short Columns Strengthened by Carbon Fiber Sheets YOSHIMURA, K.; KIKUCHI, K.; KUROKI, M.; MATSUMOTO, Y.; MASUDA, Y.; KUMAMOTO, A.; OKINO, M.; KOJA, T.; TANAKA, Y. (A#-025)</p> <p>Experimental Study for Circular Concrete Column Reinforced with Composite Tube YAO, Jun; LI, Xiao Jun, LI, Zong Jin (A#-137)</p> <p>Seismic Rehabilitation and repair of concrete Bridge Piers with FRP Composites PANTELIDES, Chris P. ; MARRIOTT, Nicole; REAVELEY, Lawrence D.; GERGELY, JanosI (A#-186)</p>	<p>A Comprehensive Stress-Strain Model for High Strength Concrete confined by Circular Transverse Reinforcement SUN, Yu-Ping; SAKINO, Kenji (A#-033)</p> <p>Numerical Simulation of High Strength Steel--High Strength Concrete Composite Structures (Institute of Structural Mechanics, University Stuttgart) HAUFE, H.; Menrath, H.; Ramm, E. (A#-184)</p> <p>Nonlinear Behavior of Concrete-Filled Steel Tubular Columns Under Axial and Lateral Loadings SHAMS, M.; SAADEGHVAZIRI, M.A. (A#-078)</p> <p>FEM Analysis of Hybrid Structural Frames with R/C Columns and Steel Beams NOGUCHI, Hiroshi; UCHIDA, Kazuhiro (A#-119)</p> <p>Exact Determination of Aging Coefficient for Composite Sections XIA, Gan (A#-057)</p> <p>Unified Approach for Shear Strength Prediction of Full and Open Steel-Concrete Sandwich Members UEDA, Tamon; FURUUCHI, Hitoshi; ITO, Tsunemasa (A#-127)</p> <p>About Accuracy of the Algebraic Expressions LAZIC, Vera B. (A#-043)</p>	<p>The Rotational Behavior and a Proposal for the Design of Composite Joints BODE, H.; ODENBREIT, C. (A#-052)</p> <p>Composite Slab Effects on Strength and Stability of Steel Moment Connections with RBS or Welded Haunch Modification YU, Qi-Song; NOEL, Shane; UANG, Chia-Ming (A#-065)</p> <p>Cyclic Behavior of Steel Shear Connections with Floor Slab LIU, Judy; and ASTANEH-ASL, Abolhassan (A#-156)</p> <p>Tests of Reduced Beam Section Connections with Composite Floor Diaphragms JONES, Scott L.; FRY, Gary T. (A#-097)</p> <p>Experimental Evaluation of A Post-Tensioned Moment Connection for Steel and Composite Frames in Seismic Zones PENG, Shih-Wei; RICLES, James M.; SAUSE, Richard; LU, Le-Wu (A#-121)</p>
Thursday, March 23, 2000	5:20pm – 7:00pm	Pre-Function Area
Reception, Poster Presentations & Exhibitions		

Friday, March 24, 2000

9:00am – 10:00am

Manhattan Ballroom

Keynote Lecture-4 and 5

Moderator: *Dr. SCALZI, J.; and Mr. ROBERTS, J. E.*

“Composite and Hybrid Concepts Used in Kobe Earthquake Damage Recovery Construction” by *Dr. Hayashi, H.*

“Advanced Composite Materials in Civil Engineering Applications” by *Prof. Seible F.*

Friday, March 24, 2000

10:30am – 12:10pm

Room: Suite 200A & B	Room: Shore	Room: Suite 219 & 223
<p>Session III-1: US-Japan Cooperative Research Program: Innovative Systems, Materials</p> <p>Moderators: <i>Prof. JU, J. W.; and Prof. RAMIREZ, G.</i></p>	<p>Session III-2: Composite Slab and Beam Design (2)</p> <p>Moderators: <i>Prof. MACRAE, G.; and Prof. SUN, Y. P.</i></p>	<p>Session III-3: Composite Connection Design (2)</p> <p>Moderators: <i>Prof. LEON, R. T.; and Mr. MARANIAN, P. J.</i></p>
<p>New Materials, Elements and Systems YAMANOUCHI, H. and GOEL, Subhash (A#-146)</p> <p>Structural Performance of Engineered Cementitious Composite Elements FUKUYAMA, H.; MATSUZAKI, Y.; SATO, Y.; and SUWADA, H. (A#-147)</p> <p>Performance Evaluation of RC Elements with Ultra Light Weight Concrete KOBAYASHI, K.; MATSUZAKI, Y.; FUKUYAMA, H.; HAKUTO, S.; TORITANI, T; and KUMAGAI, H. (A#-148)</p> <p>Novel Concepts in Structural Design with Advanced Cementitious Composites KRSTULOVIC-OPARA, Neven (A#-149)</p> <p>FRC-Encased Steel Joist Composite Structures KHUNTIA, Madhusudan and GOEL, Subhash C. (A#-150)</p> <p>Structural Composites with ECC FISCHER, G.; and LI, Victor C. (A#-151)</p> <p>Seismic Studies of An Innovative and Traditional Composite Shear Walls ASTANEH-ASL, Abolhassan; and ZHAO, Qihong (A#-157)</p>	<p>Steel-Concrete Composite Plate Girder BASKAR, K.; SHANMUGAM, N.E.; THEVENDRAN, V. (A#-094)</p> <p>Ultimate Strength of Double Skin Composite (DSCS) Slabs KUMAR G.; SHANMUGAM, N.E.; THEVENDRAN, V. (A#-096)</p> <p>Allowable Percentage of Redistribution of Negative Moment in Steel-Partially Prestressed Concrete Composite Continuous Beams YU, Zhiwu; ZHOU, Linyu; LUO, Xiayong (A#-114)</p> <p>Study on Composite Slim Floor Frames with Semi-Right Beam-to-Column Connections MALASKA, Mikko; MAKELAINEN, Pentti (A#-053)</p> <p>Bending Resistance of Composite Beams of Steel and Concrete in Hogging Bending According to Eurocode 4 MARKOVIC, Nenad; DERETIC- STOJANOVIC, Biljana (A#-106)</p>	<p>Experimental Studies of C-SMF Connections With Reinforced-Concrete-Encased Column and Steel Beams UANG, Chia-Ming; CHOU, Chung-Che (A#-066)</p> <p>Experimental Study on Simplified SRC Beam-Column Joints in Construction Technology TERAOKA, Masaru; MORITA, Koji; and SASAKI, Satoshi (A#-152)</p> <p>Bearing Strength of Composite Joints Between Steel Beams and Reinforced Concrete Columns CHOI, Oan-Chul; KIM, Jong-Rak (A#-187)</p> <p>Stress Transfer on Through Beam Type Steel Beam-Reinforced Concrete Column Joints BABA, Nozomu; NISHIMURA, Yasushi (A#-098)</p> <p>Stress Transferring Mechanism of Joint Connected Steel Member with Reinforced Concrete Member in Series NISHIMURA, Yasushi (A#-100)</p>

Friday, March 24, 2000	12:10pm – 1:30pm	Outdoor
Lunch California Sunshine		
Friday, March 24, 2000	1:30pm – 3:10pm	
Room: Suite 200A & B	Room: Shore	Room: Suite 219 & 223
Session III-4: New and Innovative Structures Moderators: <i>Prof. YOSHIMURA, K.; and Prof. KRSTULOVIC-OPARA, N.</i>	Session III-5: Analytical Methods (2) Moderators: <i>Prof. NOGUCHI, H.; and Prof. DEIERLEIN, G. G.;</i>	Session III-6: Design Code Issues Moderators: <i>Prof. UANG, C. M.; and Dr. KASHEFI, I.</i>
The I-5/Gilman Advanced Technology Cable-Stayed Bridge SEIBLE, Frieder; BURGUENO, Rigoberto (A#-125) High Performance Composite Materials for Carrying Out Construction Structures IONESCU, Ion; ISPAS, Traian (A#-010) Design of Arch Dam of concrete Filled into Steel Tube DOU, Li-Jun; LIE, Yan (A#-035) Structural Performance of Reinforced Concrete Beams with Truss-Shaped Reinforcing Bars MITSUI, Yoshiyuki; MURAKAMI, Kiyoshi; MORIMOTO, Toshiyuki; YAMASAKI, Yuichi (A#-140) An Experimental Study on the Structural Performance of the Composite Slabs with the New-Type Deckplate YOON, Myung-Ho; CHOI, Chong-Su; KIM, Dong-Kyu (A#-188) Seismic Performance of Framed Shearwalls Made of Corrugated Steel MO, Y.L.; PERNG, S.F. (A#-016)	Time-Dependent Analysis of Composite Structures XIA, Gan (A#-058) Finite Element Elastic Analysis of Profiled Steel Sheeting Dry Board Single Span Composite Panels AHMED, Ehsan.; WAN BADARUZZAMAN, W.H.; WRIGHT, H. (A#-042) A Numerical Method for 3-Dimensional Elastoplastic Large Deformation Analysis of Frames with Concrete-Filled tubular Members SHUGYO, Minoru; LI, JianPing (A#-131) Three Dimensional Finite Element Analysis on CFT Column-Steel Beam Joints YONEZAWA, Kenji; and YOSHIOKA, Kenzo (A#-177) Nonlinear Analysis of PRC Frames Using Partial-Composite Beam Elements and Component – Based Connection Models WHITE, Donald; ALEMDAR, Bulent; TAYLOR, Joshua M.; LEON, Roberto T.; GREEN, Travis P (A#-049) Finite Element Analysis of Concrete Filled Closed Steel Columns of Square/Rectangular Cross Sections BHATTACHARYYA, Sriman Kumar; and Ghosh, S.K. (A#-172) Design of Composite Structures by the Slope Deflection Method DERETIC-STOJANOVIC, Biljana (A#-021)	Outline of Japanese Design Guidelines for Composite RCS Buildings KURAMOTO, Hiroshi; NISHIYAMA, Isao; NOGUCHI, Hiroshi (A#-110) European Recommendations for the Design of Composite Joints ANDERSON, David (A#-141) Composite Column Design Using Various Codes GOODE, C. Douglas (A#-046) Design Strategies for Heavy-Loaded Composite Beam Design Based on Eurocode-4 and LRFD Provisions SERNA, Miguel A.; PUENTE, Inigo; GARMENDIA, Laurentzi; IRIBARREN, Ibon (A#-060) Panel Discussions
Friday, March 24, 2000	3:40pm – 5:20pm	Manhattan Ballroom
Closing Ceremony and ASCCS General Meeting Closing Addresses and Award Presentation by Prof. MAHIN, S., ASCCS-6 Conference Chairman Prof. MATSUI, C., ASCCS President Moderators: Dr. GOODE, D.; and Dr. XIAO, Y.		

Simplified Design Formula of Slender Concrete Filled Steel Tubular Beam-Columns

TSUDA, Keigo; MATSUI, Chiaki; FUJINAGA, Takashi (A#-005)

*** Three-Dimensional FEM Analysis of High Strength Square CFT Beam-Columns**

VARMA, Amit H.; RICLES, James M.; SAUSE, Richard (A#-130)

Effect of Loading Velocity on Mechanical Behavior of SRC Shearwalls

ESAKI, Fumiya; ONO, Masayuki (A#-020)

The Seismic Response of Multi-Story Buildings Composed of SRC Members in the Lower Stories and RC Members in the Upper Stories

KAWANO, Akihiko; MATSUI, Chiaki; ARIKADO, Koji; UEKAWA, Masaharu (A#-032)

Biaxial Shear Behavior of Steel Reinforced Concrete Column

INOUE, Motoshi; TSUTSUI, Shigeyuki; NISHIMURA, Yasushi; MINAMI, Koichi (A#-099)

Earthquake Response Behavior of Multi-Story Weak-Beam-Frame Including Restoring Force Characteristics of First Floor's Column-Base

KAWANO, Akio; YAKAKI, Yukiko; and MATSUI, Chiaki (A#-143)

Simplified Strength Formula of Concrete Filled Steel Tubular Beam-Columns

CHUNG, Jinan and MATSUI, Chiaki (A#-144)

Prefabricated Glass FRP Composite Jackets for Retrofitting Reinforced Concrete Columns

XIAO, Yan; WU, Hui; and MA, Rui (A#-192)

*** Seismic Behavior of Steel Pile-to-Pile Footing Connections**

XIAO, Y.; WU, H.; MANDER, J.; and MARTIN, G.

*** Full-Scale Experimental Studies on High-Strength Concrete Columns**

XIAO, Y.; YUN, H.W.

* Presentation only.

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