

2011 International Bridge Conference®

Technical Program*

(Including Workshops and Seminars)

Monday June 6 - Morning Sessions

Keynote Session

"The Future of HighSpeed Rail in North America" - Al Engel, Vice-President of AmTrak - Korea Delegation lead person with discuss -

"America's Infrastructure Report Card" Andrew Herrmann, P.E., ASCE President, Washington, DC

"50 Years of Bridge Building" - Bob Luffy, former CEO, American Bridge, Pittsburgh, PA

"AASHTO/FHWA Update" Malcolm T. Kerley, P.E., AASHTO, Richmond, VA and M. Myint Lwin, P.E., S.E., Director, Office of Bridge Technology (HIBT), Federal Highway Administration, Washington, DC

"Korean Bridge Program"

Featured Country Session

Details to be announced soon

Monday June 6 - Afternoon Sessions

Proprietary Session

IBC 11-1: A New Orthotropic Steel Bridge Deck for Multiple Longitudinal Girder Bridges – Richard Vincent, Canam Group Inc. (Structal Bridge Division), Boucherville, QC, Canada

IBC 11-2: Non-Destructive Evaluation Of Bridge Cables And Strands Using The Magnetic Main Flux Method (MMFM) – Masamichi Sugahara, Tokyo Rope MFG. CO., LTD, Chuo-ku, Tokyo, Japan

IBC 11-3: Road Development Agency (RDA) in Zambia, Africa Bridge Inventory Program – Jeremy Shaffer, Ph.D. and Mike Schellhase, InspectTech, Pittsburgh, PA

Workshops & Seminars

W-1: Your Vision...Your Reality/Innovative Financing & the Project Team - Shawna Bartkus, H.W. Lochner, Inc., Rocky Hill, CT

W-2: FRP Composites Hybrid Systems Advancing Sustainable Solutions for Bridges, John Busel, ACMA, Tuckahoe, NY

Owners Forum: Hear from bridge owners about their upcoming projects

Co-Meeting: AREMA Committee 15

Tuesday, June 7 - Morning Sessions

Rehabilitation Session

IBC 11-4: Extending the Life of the I-80 Bridge over the Mississippi River – David Petermeier, P.E., S.E., Modjeski and Masters, Inc., Edwardsville, IL; John Kulicki, Ph.D., P.E., S.E., Thomas Murphy, Ph.D., P.E., S.E., David Barrett, P.E., Philip Ritchie, Ph.D., P.E., Scott Eshenaur, P.E., Modjeski and Masters, Inc., Mechanicsburg, PA

IBC 11-5: Replacement & Relocation of Keller's Covered Bridge – David Hogle and Daniel A. Rogers, P.E., RETTEW Associates, Inc., Lancaster, PA

IBC 11-6: The Next 100 Years: Cost Effective Design and Rehabilitation Of Masonry Arch Bridges – Michael Cuddy, P.E., TranSystems, Langhorne, PA; Henry Berman, P.E. and Peter Berg, PennDOT Engineering District 6-0, King of Prussia, PA; Narayana Velaga, P.E., HNTB Corporation, Philadelphia, PA

IBC 11-7: Rehabilitation of the Jacks Run Arch Bridge – Gary L. Gardner, Jr., P.E. and Daniel W. Wills, P.E., ms consultants, inc., Coraopolis, PA; Michael J. Dillon, P.E., Allegheny County Dept. of Public Works, Pittsburgh, PA

IBC 11-8: Investigations and Countermeasures of Typhoon-Induced Multi-Hazard on Impacting on Highway & Bridges – Helsin Wang, The Institute of Bridge Engineering, China Engineering Consultants, Inc., Taipei, Taiwan; Chung-Yue Wang, Ph.D.

IBC 11-9: Rehabilitation of Northbound 14th Street Bridge over the Potomac River in Washington DC – Wagdy Wassef, P.E., Ph.D., Modjeski and Masters, Inc., Mechanicsburg, PA; Nick Theofanis, Dan Irwin and Martin Smith, Modjeski and Masters, Inc., Harrisburg, PA; Konjit Eskender, District of Columbia Department of Transportation

Long Span Bridges, Part 1 Session

IBC 11-10: Design and Construction of Three Extradosed bridges in La Paz (Bolivia) – Juan A. Sobrino, Ph.D., PEDELTA, Pittsburgh, PA

IBC 11-11: Tied Arch Bridge with Twin, Free-Standing Steel Ribs over Mississippi River, Hastings, MN – Vincent Gastoni, P.E., Martin Furrer, Greg Hasbrouck and Shaoyun Sun, Parsons, Chicago, IL

IBC 11-12: The Practice of Three Bundles Cable-Stayed Bridge with Double Compositing Warren Truss Girder – Chang Kyu Park, Ph.D., In-Ho Jang, Ph.D., Jun-Soo Ha, P.E., Geun-Young Kim, P.E. and Kwang-Woo Park, P.E., Hyundai Engineering & Construction Co., Ltd., Jongno-Gu, Seoul, Korea;

IBC 11-13: Wando Bridge in Korea - Fabrication and Construction – Won-Jin Yu, Ph.D., Samsung C&T Corp., Chunnam, Korea; Chang-Ho Chun, Hyun-Seok Choi, Jae-Beom Shim (same)

IBC 11-14: A Bridge in Harmony with Nature - US 191 Colorado River Bridge in Moab, Utah – Steve Fultz, P.E., S.E., FIGG Bridge Engineers, Inc., Denver, CO; Fred Doehring, P.E., Utah Department of Transportation, Salt Lake City, UT

IBC 11-15: Detailed Design and Construction of Ulsan Harbor Suspension Bridge with 1,150m Main Span – Jung-Han Lee, Ph.D, P.E., Kyung-Ho Park, Ph.D, P.E., Jong-Hwa Park, Ph.D, P.E., Eu-Kyeong Cho, Ph.D, P.E., Yung-Mook Na, Ph.D, P.E., Hyundai Engineering & Construction Co., Ltd., Jongno-Gu, Seoul, Korea,

IBC 11-16: R&D for the Construction of Long Span Bridges – Kyoung-Jae Lee, Ph.D., Inho Hwang, Ph.D. Jae-Hong Kim, P.E., Un Il Baek, P.E., Daelim, Seoul, South Korea

Design & Construction of Drilled Foundations for Bridges Session

IBC 11-17: Using CMCs as a Culvert Foundation: A Case Study – Daniel Martt, P.G. and Sebastian Lobo-Guerrero, P.E., Ph.D, A.G.E.S., Inc., Canonsburg, PA

IBC 11-18: High Capacity Micropiles to Support a 2,900-ft Span Bridge near Caracas, Venezuela – Jesus Gomez, Ph.D., P.E., D.GE. and Carlos Englert, P.E., Schnabel Engineering, West Chester, PA

IBC 11-19: Design and Construction of Drilled Shafts for Pittsburgh's North Shore Connector – Daniel Uranowski, Brayman Construction Corp., Saxonburg, PA; Daniel P. Messmer, P.E., D'appolonia Engineering Division of Ground Technology, Inc.

IBC 11-20: Design and Construction of Large Diameter Drilled Shafts in Soil with Self Consolidating Concrete (Mullica River Bridge Project) – Charles Huynh, Case Foundation Company, Broomall, PA; Matt Lunemann, P.E., Parsons Brinckerhoff, Inc.; Kwang S. Ro, Ph.D., P.E.

IBC 11-21: Emergency Micropile Retrofit for I-94 Bridge over Riverside Drive – Dan A. Thome, P.E., Nicholson Construction Company, Kalamazoo, MI

IBC 11-22: Micropile Construction for the Willis Avenue Bridge Replacement – Geologic Challenges meets Urban Construction Logistics – Terence P. Holman, Ph.D., P.E. and Thomas J. Tuozzolo, P.E. and Joseph Pastore, P.E., Moretrench American Corporation, Rockaway, NJ;

Design, Part 1 Session

IBC 11-23: Soil-Structure Interaction Investigations on the Re-use of Existing Bridge Piers – Joseph Romano, Michael Baker Corporation, Hamilton, NJ; Michael Z. Yang, Ph.D., P.E., Shafiqul Azam, Yongxian Chen, Ph.D., P.E., Terrence J. Tiberio, P.E., Michael Baker Corporation, Moon Township, PA; Scott D. Zang, P.E., Michael Baker Corporation, Beaver, PA

IBC 11-24: Design and Construction of the North Bank Bridge – David Greenwold, P.E., Ammann & Whitney, Boston, MA; Simon Fryer, Buro Happold Ltd, London, UK; Karl Haglund, Department of Conservation and Recreation, Boston, MA

IBC 11-25: New Beams for the "New Bridge" - Innovative Bridge Design and Construction - The First NEXT Beam Bridge – Steven Hodgdon, P.E., Vanasse Hangen Brustlin, Inc., Bedford, NH; Peter A. Krakoff, P.E., CPM Constructors; Jim D. Wentworth, P.E., Maine Department of Transportation

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IBC 11-26: Expanding the Application of Jointless Bridges to Longer Bridge Lengths – Ardalan Sherafati, Nima Ala and Atorod Azizinami, University of Nebraska-Lincoln, Lincoln, NE

IBC 11-27: Framework for Improving Resilience of Bridge Design – Brandon Chavel, Ph.D., P.E., HDR Engineering, Inc., Chicago, IL, M. Myint Lwin, P.E., S.E., Federal Highway Administration, Washington, DC; John Yadlosky, P.E., HDR Engineering, Inc., Pittsburgh, PA

IBC 11-28: Design and Construction of the Mon-Fayette Expressway Bridges - Uniontown to Brownsville, PA – Thomas Leech, P.E., S.E., Gannett Fleming, Inc., Pittsburgh, PA; Bernard J. Zielinski, P.E., Pennsylvania Turnpike Commission; Highspire, PA William R. Piper, ALCM Inc., California, PA

IBC 11-29: Milton Madison Bridge: Innovative Design Build Procurement to Accelerate the Replacement of a Vital River Crossing – Aaron Stover, P.E., S.E., Michael Baker Jr., Inc., Louisville, KY; Kevin Hetrick, P.E., Indiana Department of Transportation

Workshops & Seminars

W-3: National Bridge Industry Workshop: "New Focus, Developments, and Opportunities", organized by ARTBA, Washington, D.C.

W-4: Structural Health Monitoring of Bridges - Technologies and Practices, David Potter, National Instruments, Austin, TX

W-5: Coatings Workshop, organized by SSPC: The Society for Protective Coatings, Pittsburgh, PA

SEMINAR: Cradle to Grave Hoover Dam Bypass Bridge—Successful Design and Construction Management, Myint Lwin, FHWA, Washington, D.C., Dave Zanetell, FHWA, David Goodyear, TY Lin, Ken Hirschmugl, Obayashi/PSM JV; Mark Ketchum, OPAC Engineers

Co-Meeting: APC Bridge Committee Meeting: Featuring a presentation by Dave McTish on the Allegheny River Bridge Project

Co-Meeting: AREMA Committee 15

Tuesday, June 7 - Afternoon Sessions

Research/Evaluation Session

IBC 11-31: Evaluation of Shear Key Cracking in Adjacent Box Beams – Maria Lopez de Murphy, Penn State University, University Park, PA; Jubum Kim, Ph.D., Penn State Harrisburg, Middletown, PA; William C. Koller, P.E., District 1-0, PennDOT

IBC 11-32: Effect of Transverse Stiffeners on Shear Strength of Intermediate Web Panels – Sherif Safar Aly, Ph.D., American University in Cairo, New Cairo, Egypt

IBC 11-33: Reliability-based Durability Design and Control of Crack width in Busan-Geoje Fixed Link project of Korea – Sehoon Kim, Ph.D., Bohyun Yang, Jechun Kim, Ph.D., DAEWOO E&C, Busan, Korea

IBC 11-34: Analytical and Experimental Assessment of Steel Truss Bridge Gusset Plate Connections – Yavuz Montes, Georgia Institute of Technology, School of Civil and Environmental Engineering, Atlanta, GA; Yoon Duk Kim, Ph.D., Georgia Institute of Technology, School of Civil and Environmental Engineering, Atlanta, GA; Robert S. Zobel, Ph.D., P.E., Professional Service Industries (PSI), Turner-Fairbank Highway Research Center, McLean, VA; Mark Iadicola, Ph.D., NIST-Material Measurement Laboratory Metallurgy Division, Gaithersburg, MD; Donald W. White, Ph.D. and Roberto T. Leon, Ph.D., P.E., Georgia Institute of Technology, School of Civil and Environmental Engineering, Atlanta, GA; Justin M. Ocel, Ph.D., P.E., Federal Highway Administration, Turner-Fairbank Highway Research Center, McLean, VA

IBC 11-35: Cracking Analysis of Florida Barge Canal Spliced I-Girder Bridge – Dongzhou Huang, P.E., PBSJ, Valrico, FL; Scott Arnold, P.E., Florida Department of Transportation, Tampa, FL; Bo Hu, P.E., PBSJ, Tampa, FL

Long Span Bridges, Part 2 Session

IBC 11-36: Design and Construction of Hwamyung Bridge – Kwang-Soo Kim, Ph.D., Hyundai Engineering & Construction Company, Busan, Korea; Eun-Chul Lee, M.S., Chun-Soo Lee, B.S., Eui-Taek Yoon, M.S., P.E., Jong-II Jung, B.S, P.E. Dohwa Consulting Engineers Co., LTD., Korea

IBC 11-37: Design of the New Ohio River Cable Stayed Crossing: The East End Bridge – Preston Vineyard, P.E. and Ruchu Hsu, P.E., Parsons Brinckerhoff, New York, NY

IBC 11-38: Design of the New Millennium Cable-Stayed Bridge in South Korea – Younghak Kwak, P.E., DAEWOO Institute of Construction Technology, Suwon-si, Gyeonggi-do, South Korea; Young-Min Kim, Ph.D., DAEWOO Institute of Construction Technology; Gyeonggi-do, South Korea; Myeong-Su Choi, Ph.D, Daewoo E&C, South Korea; Woo-Jong Kim P.E., Ph.D., and Kyung-Sik Cho, Ph.D., DM Engineering, Seoul, South Korea

IBC 11-39: Long Concrete Spans and Tall Piers in Pennsylvania - Turnpike Section 51H over the Monongahela River in Brownsville – Ken Heil, P.E., FIGG Bridge Engineers, Inc., Exton, PA; Eric Hayes, Walsh Construction Company, Denbo, PA

IBC 11-40: The Design & Construction of a Cable-Stayed Bridge with Elliptic Pylons – Dong-Ho Lee, Ph.D., Dong-Keun Kim, P.E., Hyun-Kioo Kim, P.E., Se-Hoon Choi, P.E., Jae-Geum Kim, P.E., SK Engineering & Construction, Seoul, South Korea

IBC 11-41: Construction Engineering of Concrete Cable Stayed Bridge constructed by DAELIM – Dae-Yong Park, Ph.D., Sung Ho Kim, Ph.D., Joo Taek Park, Kwang Min Lee, Jae Hong Kim, P.E., Daelim Industrial Co., Ltd, Seoul, South Korea

IBC 11-42: Cable Loss: Case Study with Dynamic Factors in Excess of 2.0 – Greg Hasbrouck and Eddie He, Ph.D., P.E., S.E., Parsons, Chicago, IL

Innovative Concepts Session

IBC 11-43: Design of a PC Box Girder Bridge with Corrugated Steel Webs in Mianmao Expressway – Weiguo Yan, Jiangsu Transportation Research Institute Co., Ltd., Nanjing, Jiangsu, China

IBC 11-44: Low-Cost Rehabilitation with FRP Strips – Mark Whittemore, P.E., Dubois and King Inc., Bedford, NH; Robert Durfee, P.E., SECB

IBC 11-45: Emergency Bridge Replacement: A Design-Build Success Story – Jeremy Hedden and Mario J. Quagliata, P.E., Bergmann Associates, Inc., East Lansing, MI

IBC 11-46: New Bridges over Old Dockyards - Injecting Life in an Urban Waterfront Development – Ellen Maes, Waterwegen en Zeekanaal NV, Gent, Belgium; Agnieszka Zajac, Autonomous Municipal Ghent Development Authority, Gent, Belgium; Dietmar Fiechtinger, Dietmar Feichtinger Architectes, Paris, France; Wim Van de Voorde, Technum-Tractebel Engineering, Gent, Belgium

IBC 11-47: Use of Duplex Stainless Steel in Girders & Cross Frames of Bridge Superstructure – Ronald Spacht, Jr., P.E., URS Corporation, Harrisburg, PA; Stuart Chen, Ph.D., University at Buffalo, Buffalo, NY

IBC 11-48: Design of the Brent Spence Bridge Replacement – Ruchu Hsu, P.E., Parsons Brinckerhoff, New York, NY; Matt Barber P.E., Lochner, Seattle, WA

IBC 11-49: Bridging Boothbay with HCB – John Hillman, P.E., S.E., HC Bridge Company, LLC, Wilmette, IL; Nathaniel Benoit, P.E., Maine Department of Transportation, Augusta, ME

Workshops & Seminars

W-6: Fundamentals of Bridge Benefit and Life Cycle Cost Analysis, Nathaniel Coley, FHWA, Washington, D.C.

W-8: Workzone Safety Power Workshop, organized by ARTBA, Washington, D.C.

W-9: NEXT Beams, New Prestressed Concrete Beams, Doug Olah, High Concrete Group

SEMINAR: AASHTO/FHWA Highway Tunnel Domestic Scan, Jesus Rohena, FHWA, Kevin Thompson, P.E., Arora and Associates, P.C., Auburn, CA; Louis J. Ruzzi, P.E., PennDOT, Bridgeville, PA; Mike, Hebor, HDR, Inc., Brian Leshko

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Wednesday, June 8 - Morning Sessions

Design, Part 2 Session

IBC 11-51: Pedestrian Bridges with Hybrid Stainless Steel-GFRP structure – Juan Sobrino, Ph.D., PEDELTA, Pittsburgh, PA

IBC 11-52: Bridge Lessons Learned from the Chile Earthquake in 2010 – Phillip Yen, Ph.D., P.E., FHWA, McLean, VA; Genda Chen, Ph.D., P.E., Missouri University of Science and Technology, Rolla, MO; Ian Buckle, University of Nevada at Reno; Tony Allen, Washington State Dept. of Transportation; Daniel Alzamora, Federal Highway Administration; Jeffrey Ger, Federal Highway Administration; Juan Arias, University of Nevada at Reno

IBC 11-53: I-40 Mississippi River Bridge Seismic Retrofit Project – Robert Chamber, P.E., TRC, Rancho Cordova, CA and Fred Stephenson, P.E., TRC, Memphis, TN

IBC 11-54: Seismic Vulnerability and Retrofit Design of Slender Bridge Pier Walls – Majid Sarraf, Ph.D., P.E., P.Eng., Parsons, Irvine, CA

IBC 11-55: A Synergy for Increased Seismic Protection of Bridges – Roy Imbsen, P.E., and Anoop Mokha, Ph.D., S.E., Earthquake Protection Systems, Inc., Vallejo, CA

Accelerated Bridge Construction Session

IBC 11-56: Moving the Capilano River Bridge to Use as a Construction Detour – Murray Johnson, P.Eng., Buckland & Taylor Ltd., North Vancouver, BC, Canada; David J. Queen, P.Eng., British Columbia Ministry of Transportation and Infrastructure; South Coast Region, Burnaby, B.C., Canada; Nick Sandhu, E.I.T., British Columbia Ministry of Transportation and Infrastructure, South Coast Region, Burnaby, B.C., Canada

IBC 11-57: Rehabilitating New Hampshire's Interstate Bridges 60 Hours at a Time – Tom Kendrick, P.E., McFarland-Johnson, Inc., Concord, NH; Ronald L. Kleiner, Jr., P.E., New Hampshire Department of Transportation, Concord, NH

IBC 11-58: Construction of Curved Truss Bridge using ILM and Inclined Climbing System – Sung Man Yang, P.E., Kyung-Ho Park, Ph.D.; Youn-Chul Shin; Hee-Hong Kim, P.E., and Sung-Ryong Park, Hyundai Engineering & Construction Co. Ltd., Jongno-Gu, Seoul, South Korea;

IBC 11-59: Accelerated Bridge Superstructure Widening & Replacement – Khossrow Babaei and Amir M. Fouladgar, P.E., The LPA Group, A Unit of Michael Baker Corporation, Falls Church, VA; Claude S. Napier, Jr., P.E., FHWA Resource Center, Structures Technical Services Team, Richmond, VA

IBC 11-60: Accelerated Bridge Construction using Precast Superstructure Components in Incheon Bridge Project – JongYoung Song, Ph.D., P.E., Samsung C&T Corporation, Yeongi-Gun, Chungnam, South Korea

IBC 11-61: Four Informative plus Entertaining Movies on DVD's that Explain Accelerated Bridge Construction Solutions to the General Public – Alfred R. Mangus, P.E., and Craig Copelan, P.E., Professional Engineers in California Government, Sacramento, CA

IBC 11-62: Overnight Deck Replacement of the I-190 Grand Island Bridge – Mark Horschel, P.E., Bergmann Associates, Rochester, NY; Christian Hulse, P.E., New York State Thruway Authority, Cheektowaga, NY

Instrumentation/Inspection

IBC 11-63: Inspection and Evaluation of Non-Composite Adjacent Prestressed Concrete Box Beam Bridges – Leon Lung-Yang Lai, P.E., S.E., Ph.D., Specialty Engineering, Inc., Bristol, PA; Clay Naito, Ph.D., P.E., Lehigh University, Bethlehem, PA; Peter Kim, P.E. and Tony Jen, P.E., Specialty Engineering, Inc., Bristol, PA;

IBC 11-64: Underwater Inspection and Acoustic Imaging of Deep Water Rock Anchors at Blue Mesa Reservoir, Colorado – David Reser, P.E., Infrastructure Engineers, Inc., Bridgeville, PA

IBC 11-65: New Tools for Inspection and Evaluation of Steel Truss Bridge Gusset Plates – Christopher Higgins, Ph.D., P.E. and O. Tugrul Turan, Ph.D., Oregon State University, Corvallis, OR

IBC 11-66: LRFR Ratings on Existing Bridge Inventories – A Case Study– Daniel Whitemore, P.E., LEED AP, AI Engineers, Inc., Middletown, CT; Prasad Nallapaneni P.E., MBA, Virginia Department of Transportation, Richmond, VA

IBC 11-67: Measurements and Analyses of Cable Tensile Forces in Cable-Stayed Bridges Using Laser Vibrometer – Jin Taek Jun, Cheol-Hwan Kim, P.E, Hyun Bae Kim, Dong Geun Ahn, Posco Engineering & Construction, Inc., Hwasung, Korea

IBC 11-68: Assessment of Pier Cap Retrofit PT Bars Using Taut Cable Vibration Measurement Method – Y. Edward Zhou, Ph.D., P.E., URS Corporation, Hunt Valley, MD; Brett Commander, P.E., Bridge Diagnostics Inc., Boulder, CO; Mark Guzda, P.E. and Peter Daloni, URS Corporation, Hunt Valley, MD

IBC 11-69: Design and Implementation of Structural Health Monitoring System for Suspension Bridge – Qixian Tian, Bridge Science Research Institute, Ltd., Wuhan, China, Wuhan, Hubei Province, P.R. China; Zhou Mingxing, Bridge Science Research Institute, Ltd.

Workshops & Seminars

W-8: Workzone Safety Power Workshop (Part 2), ARTBA, Washington, D.C.

W-10: Products and Outcomes of SHRP 2 for the International Bridge Community, Jerry DiMaggio, Transportation Research Board, SHRP 2, NAS, Washington, D.C.

W-11.1: Automated Rebar Detailing and Advantages of Using 3D Models & W-11.2: Using Digital Terrain Modeling for Bridge Location Optimization, Alexander Mabrich, P.E. Bentley BrIM

W-12: Recent Advances in Lightweight Aggregate in Concrete for Bridges - Reid Castrodale, Carolina Stalite, Salisbury, NC

W-13: A Practitioner's Thoughts About The Current (and Future) Status of Bridge Painting, Eric Kline, KTA-Tator, Pittsburgh, PA

SEMINAR: Bridge Deck Deicing using Geothermal Heat Pumps–Mary Ellen Bruce, Deep Foundations Institute

Co-Meeting: AREMA Committee 15

Wednesday, June 8 - Afternoon Sessions

Construction Session

IBC 11-70: Influence of Curing Blanket Types on Mitigating Early age Bridge Deck Cracking – Juan Carlos Araiza, Ph.D., Wiss, Janney, Elstner Associates, Inc., Emeryville, CA; Kent K. Sasaki, Paul Krauss (same); Madhwesh Raghavendracharb, Ph.D., Anthony Gugino, California Department of Transportation, Sacramento, CA

IBC 11-71: Huey P. Long Bridge Truss Lift Monitoring – Thomas Weinmann, Applied Geomechanics Inc., Buffalo Grove, IL

IBC 11-72: Design and Construction of Large-scale Ground Anchorage System with High Performance Materials – Zhi Fang, Ph.D., College of Civil Engineering, Hunan University, Changsha, Hunan, P.R. China; Mingxian Chen, P.E., Department of Communication and Transportation of Hunan Province; Kuangyi Zhang, Ph.D. student, College of Civil Engineering, Hunan University; Guoping Chen, P.E., Administrative Bureau of Expressway of Hunan Province; Jianhua Hu, P.E., Design and Planning Institute of Communication of Hunan Province

IBC 11-73: Design, Production and Erection of Full-Span Pre-tensioned Prestressed Concrete Box-Girders in Incheon Bridge Viaduct – Kyoung-Lae Park, Eng., P.E., Chung-Hee Lee, Min-Kwan Kim, Jong-Ho Yang, Samsung C&T Corporation, Seoul, Korea

IBC 11-74: The Taxiway R Bridge, Taking the Sky Train over the Planes – David Burrows, P.E. and Mark Stark, P.E., Gannett Fleming, Inc., Phoenix, AZ; David Hensley, P.E., City of Phoenix Aviation Department, Phoenix, AZ; Tim Muller, P.E., Austin Bridge & Road LP, Phoenix, AZ

IBC 11-75: Pile Installation Close to Adjacent Bridge Structure: A Case History – Aravinda Ramakrishna, Hardesty & Hanover, LLP, West Trenton, NJ; Raymond Mankbadi, P.E., M. ASCE (same); Kuang-yu Yang, P.E., M. ASCE, New Jersey Department of Transportation, Trenton, NJ

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Rail Session

IBC 11-76: Replacement of SEPTA Bridge 20.25 - R5 Lansdale Line – Justin R. McCarthy, P.E. and Robert S. Bistline, P.E., HNTB Corporation, Harrisburg, PA; Joseph J. Guzzi, HNTB Corporation, Philadelphia, PA; Robert L. Lund, Jr., P.E., SEPTA, Philadelphia, PA

IBC 11-77: Paducah and Louisville Railroad Bridge – John Harms S.E., P.E., Hanson Professional Services Inc., Springfield, IL

IBC 11-78: Design and Construction of the North Shore Connector Aerial Structure – Christopher T. Vollmer, P.E. PMP, Gannett Fleming, Inc., Pittsburgh, PA and Keith A. Wargo, P.E, Port Authority of Allegheny County, Pittsburgh, PA

IBC 11-79: Structural Modeling and Design of the Denver I-225 LRT Corridor Bridge over I-225 – Daniel Baxter, P.E., S.E., Michael Baker Jr. Inc., Cleveland, OH; David Nemovitz, P.E., Michael Baker Jr., Inc., Lakewood, CO

IBC 11-80: Metrification and Evaluation of Gusset Plates on the Route 100 Viaduct – William Farrow, P.E., Gannett Fleming, New York, NY; Christopher Higgins, Ph.D., P.E. and O. Tugrul Turan, Ph.D., Oregon State University, Corvallis, OR; Chris Carnes, P.E., SEPTA, Philadelphia, PA

Trendy Topics/Sustainability Session

IBC 11-81: State of Sustainable Bridge Design Practices in the United States – Allison Halpern and Sigrid Adriaenssens, Princeton University, Princeton, NJ

IBC 11-82 Sustainable Bridge Solutions using Recycled Plastics – Vijay Chandra, P.E., Parsons Brinckerhoff, Inc., Herndon, VA; John S. Kim, P.E., Ph.D., Parsons Brinckerhoff, Inc., Richmond, VA; Thomas J. Nosker, Ph.D., Rutgers University, Piscataway, NJ

IBC 11-83: Testing of a Fiber Glass Reinforced Polymer Honeycomb Bridge in Huron County Ohio – Douglas Nims, University of Toledo, Department of Civil Engineering, Toledo, OH; Ed Baznik, EIT, Michael Baker Jr., Inc., Cleveland, OH; H. John Snyder, P.E., W.E. Quicksall & Associates, New Philadelphia, OH; Mike Endredi, EIT, University of Toledo, Toledo, OH

IBC 11-84: Health Monitoring of Precast GFRP-Reinforced Bridge Deck Panels – Rebecca Nix, S.E., Utah Department of Transportation, Salt Lake City, UT; Chris P. Pantelides, Ph.D., S.E. and Jim Ries, Dept. of Civil and Env. Eng., Univ. of Utah, Salt Lake City, UT

Workshops & Seminars

SEMINAR: Bridge Inspection and Management, FHWA