CONSTRUCTION ENGINEERING: LEVERAGING PROJECT AND CAREER SUCCESS / Paul M. Goodrum, Edward J. Jaselskis, Gunnar Lucko, Cliff Schexnayder, John Schaufelberger, Clyde B. Tatum, and Jesus M. De la Garza

INTRODUCTION
1 Special Issue on Construction Engineering: Leveraging Project and Career Success / Paul M. Goodrum, Edward J. Jaselskis, Gunnar Lucko, Cliff Schexnayder, John Schaufelberger, Clyde B. Tatum, and Jesus M. de la Garza

TECHNICAL PAPERS
2 Career Paths and Development: Actions and Examples from the Heavy Civil Sector / Kristen C. Barlish and Chris Traylor
8 Advancing Impact of Education, Training, and Professional Experience on Integrated Project Delivery / Hyun Woo Lee, Scott M. Anderson, Yong-Woo Kim, and Glenn Ballard
15 New Engineer's Knowledge for Success with Subcontractors and Trade Partners / Christofer M. Harper and Robert Hazleton
20 Investigation into the Relationship of Construction Engineering and Management Education with Specialty Trade Contractors / Timothy Becker, Victor Sanvido, Gregory Kufahl, Aaron Elston, and Nicholas Woodward
30 Long-Term Significance of a CII Best Practices Course / Wayne Crew, Jesus M. de la Garza, Mehmet E. Ozbek, and Jiukun Dai
36 Options to Bring Design and Construction Experience into the Classroom / Saiedeh N. Razavi and Lester M. Hunkele III
41 Case Study Narrative in Teaching Construction Project Management: Earned Value Method Examples / Ivan Damnjanovic and James Rispoli
50 Improving Project Performance through Partnering and Emotional Intelligence / Mark E. Cacamis and Mounir El Asmar
57 Successful University Research Programs with Extensive Industry Involvement / Robert M. Leicht, Bryan Franz, and Keith R. Molenaar
63 Advantages and Challenges of Research Programs with Extensive Industry Involvement / Vanessa Valentin and Jennifer S. Shane
68 Industry Input for Construction Engineering and Management Courses: Development of a Building Systems Coordination Exercise for Construction Engineering and Management Students / Thomas M. Korman and Lauren Huey-King
73 Industry Participation in Construction Capstone Courses: A Company’s Experience / David Anderson and Claudio Mourgues
77 Future Trends of Sustainability Design and Analysis in Construction Industry and Academia / Hisham Said and Lidia Berger
89 Life-Cycle Assessment for Construction of Sustainable Infrastructure / Kristen Parrish and Mikhail Chester
Examples of How Building Information Modeling Can Enhance Career Paths in Construction / M. Moin Uddin and Atul R. Khanzode
Lessons from Using BIM to Increase Design-Construction Integration / Gregory P. Luth, Alyssa Schorer and Yelda Turkan
Learning Opportunities and Career Implications of Experience with BIM/VDC / Dan Russell, Yong K. Cho and Eric Cylwik
Impact of BIM-Enabled Design-to-Fabrication on Building Delivery / Caroline M. Clevenger and Ricardo Khan
Use of Value Engineering to Develop Creative Design Solutions for Marine Construction Projects / Pingbo Tang and Robert B. Bittner
Lifelong Learning to Leverage Project and Career Success: 21st-Century Imperative / Jeffrey S. Russell, Carol C. Menassa and Erin McCloskey
Findings and Path Forward: Leveraging Project and Career Success / Matthew Hallowell, Clyde Tatum, and Jim Rowings

CASE STUDIES
Design Management in Design-Build Megaprojects: SR 99 Bored Tunnel Case Study / Umberto C. Gatti, Giovanni C. Migliaccio and Linea Laird
Fostering Successful Career Paths in Construction: Motivation, Evaluation, Feedback / Katherine Becker, Beth Lin Hartmann and Joan M. Miller
FORUM

TECHNICAL PAPERS
04014001 Evaluation of Pull-Off Tests as a FRP-Concrete Bond Testing Method in the Laboratory and Field / Oscar R. Mata, Rebecca A. Atadero
04014002 Evaluation of Anchor Bolts with Excessive Standoff in Cantilever Sign and Signal Structures / Chunhua Roger Liu
04014003 Design Equations and Example for FRP Deck-Steel Girder Bridge System / An Chen, Julio F. Davalos
04014004 Cyclic and Static Tests to Evaluate the Seismic Strength of Walls and Connections of Prefab Lightweight Panels for Housing Construction Projects / Daniel Ruiz, Mónica Riveros, María León, Hermes Vacca, Sandra Jarro
04014005 Sulfur Storage Pits in Petrochemical Plants: Deterioration Mechanism, Materials Selection, and Repair / Zakaria S. Alhelal
04014007 Blast-Resistant Design of Structures / Manmohan Dass Goel, Vasant A. Matsagar
04014008 Numerical Simulation and Verification of Curtain Wall Systems under Shock Pressure / M. Nawar, H. Salim, B. Lusk, S. Kiger
04014009 Inspection of Metal Plate–Connected Wood Trusses in Residential Construction / John C. Bouldin, Joseph R. Loferski, Daniel P. Hindman

BOOK REVIEWS
07514001 Review of Bridge Design and Evaluation: LRFD and LRFR by Gongkang Fu / M. Myint Lwin
FORUM
02514002 Piscataqua Bridge: Longest-Span Bridge in the United States, 1794–1812 / Francis E. Griggs Jr.

TECHNICAL PAPERS
04014010 Empirical Selection Equation for Friction Pendulum Seismic Isolation Bearings Applied to Multistory Woodframe Buildings / John W. van de Lindt and Yumei Jiang
04014011 Chicago’s First Tied-Arch Bridge / Robert Hong and Soliman Khudeira
04014012 Deck and Porch Floor Lateral Loading by Occupants / Brian J. Parsons, Donald A. Bender, J. Daniel Dolan, and Frank E. Woeste
04014013 Precast/Prestressed Concrete Sandwich Panels for Thermally Efficient Floor/Roof Applications / E. Henin, G. Morcous, and M.K. Tadros
04014014 Screening Tool to Assess Adequacy of Bridge Timber Pile Bents during Extreme Scour Events / Mary E. Schambeau, George E. Ramey, Mary L. Hughes, Junsuk Kang, and James S. Davidson

DISCUSSIONS AND CLOSURES
07014001 Discussion of "Prefabricated Bridge Construction across Europe and America" by Robert Hällmark, Harry White, and Peter Collin / Gilbert H. Béguin

09014001 REVIEWERS

Oprac. BPK