

contracting project time, cost, and quality from several FDOT databases and performed a comprehensive evaluation of the FDOT alternative contracting efforts.

- x Integration of XML Schemas for the Exchange of FDOT Construction Project Data (sponsored by the Florida Department of Transportation): Performed a comprehensive review of the FDOT construction process with regard to data exchange needs and XML schemas.
- x Improving the Time Performance of Highway Construction Contracts (sponsored by the National Cooperative Highway Research Program): Developed specific criteria and procedures to facilitate the improvement of the key delay avoidance and time improvement concepts.

Assisted in teaching the following courses communicating with distance students, on- and off-campus students, assignments and team projects:

- x Electronic Delivery of Graduate Engineering (EDGE program at UF) courses
 - o Construction Engineering
 - o Engineering Project Management
- x Undergraduate Senior Capstone course
 - o Construction Geotech Structures Senior Capstone

Research & Teaching Assistant Department of Civil and Coastal Engineering
University of Florida, Gainesville, Florida
January 2001 – December 2005

Completed research projects sponsored by the Florida Department of Transportation:

- x Development of procedures for utilizing Pit Proctors in the FDOT construction process for pavement base material (December 2004)
- x Development of improved procedures for managing pavement markings during FDOT highway construction project (August 2003)

Graded exams and assignments and tutored students during office hours.

- x Courses: Engineering Project Management, Construction Engineering, and Construction Methods and Management

Engineering Intern Road and Bridge Division
Sarasota County Public Works, Sarasota, Florida
Summer 2004

Collected sidewalk obstruction data using GPS, constructed sidewalk database, and inspected bridges in Sarasota County, Florida.

Assistant Project Engineer Dukwon Construction Co., Ltd., Daegu, Korea
February 1999 – November 1999

Prepared bid documents estimating quantities of work and managed medium-to-large bridge reconstruction projects.

Assistant Project Engineer Duksan Construction Co., Ltd., Daegu, Korea
February 2000 – June 2000

Prepared bid documents estimating quantities of work and managed medium-low-bridge reconstruction projects.

Research Assistant Department of Civil Engineering
Kyungpook National University, Daegu, Korea
March 1996 – June 1997

Assisted in detailed inspection and analysis of major bridges in Daegu, Korea.

Engineering Intern Korea Industrial Development Co., Ltd.
Hyundai Group, Seoul, Korea
December 1994 – April 1995

Completed inservice training at the Hyundai Group and had onjob training at job sites of highway, bridge, and subway construction in Seoul, Korea.

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Pyeon, J., "Traffic Impact on Incentive Contracting Projects Performance during Highway Construction," Journal of Civil Engineering and Architecture, Vol. 4, Issue 7, pp. 9-14, ISSN 1944-7359, Libertyville, IL, July 2010.

Ellis, R., Pyeon, J., Lee, S. and Kim, B., "Evaluation of Seal Coating Treatments to Manage Temporary Pavement Paint Markings during Highway Construction," KSCE Journal of Civil Engineering Vol. 14, No. 4, pp. 461-471, ISSN 1226-7988, July 2010.

Hong, J., Pyeon, J., Tedesco, J., and Park, Y., "Coarsening Model of Cavity Nucleation and Thin Film Delamination from Single Crystal BaTiO₃ with Proton Implantation," Physical Review B, 75, 214102, The American Physical Society, June 5, 2007.

Full-Paper PeerReviewed Conference Proceedings

Kim, C., Lee, E., Pyeon, J., Ellis, R., and ShakerNia, AA, "Cost Estimate Model for Transportation Management Plan Strategies for Highway Construction Projects," Proceedings of the Transportation Research Board

Engineering Management and Technology, p. 1242-1248, Istanbul, Turkey, May 2022, 2009.

Pyeon, J., Ellis, R., Minchin, E., and Glagola, C., "Traffic Impact on Project Time Performance during Incentive Construction Projects," Proceedings of the 1st International Conference on Transportation Construction Management (ICTCM), the US Department of Transportation and the Federal Highway Administration, Orlando, Florida, February 10-12, 2009.

Minchin, E., Ellis, R., Pyeon, J., and Herbsman, Z., "Use of Innovative Contracting Methods by DOTs - Project Managers Speak," Proceedings of the 4th International Conference on Transportation Construction Management (ICTCM), the US Department of Transportation and the Federal Highway Administration, Orlando, Florida, February 10-12, 2009.

Pyeon, J. and Ellis, R., "Project Time Performance Comparison During FDOT Highway Construction: Traditional Design-Bid-Build Versus Incentive Contracting," Proceedings of the Transportation Research Board 8th Annual Meeting (TRB), Washington, D.C., January 11-15, 2009.

Pyeon, J. and Ellis, R., "Application of Advanced Materials and Emerging Technologies in Highway Construction: Best Techniques to Remove Pavement Markings," Proceedings of the 4th International Symposium on the Marine Biotechnology and Advanced Materials, Marine Bio and Advanced Material Cluster Center, p.195, Gangneung, Korea, June 12-13, 2008.

Lee, J., Ellis, R., and Pyeon, J., "Proposed Methodology for Dynamic Schedule Compression,"

Pyeon, J. and Park, T., "Improving Transportation Construction Project Performance: Development of a Model to Support Decision-Making Process for Incentive/Disincentive Construction Projects," Report No.: CATI-10-2801, Mineta Transportation Institute, San Jose, CA, March 2010.

Technical Reports

Cho, Y., Kabassi, and Pyeon, J., "Effectiveness Study on Temporary Pavement Marking Removals Method," Report No.: SPR-P1 (11) M305, Nebraska Transportation Center, Nebraska Department of Roads, Lincoln, NE, June 2011.

Ellis, R., Pyeon, J., Herbsman, Z., Minchin, E., and Molenaar, K., "Evaluation of Alternative Contracting Techniques on FDOT Construction Projects," Final Report FDOT BDC51 The Florida Department of Transportation, Tallahassee, FL, July 2007.

Magazine Publications

Pyeon, J. and Jung, W., "Effectiveness Study of Various Pavement Marking Removal Methods," Magazine of the Korea Institute for Structural Maintenance and Inspection, Korea Institute for Structural Maintenance and Inspection, Vol. 16, No.1, Serial No. 71, pp. 37-44, June 2012.

Pyeon, J., "Innovative Contracting Techniques for Highway Construction Projects: Incentive/Disincentive Provisions," Construction Engineering and Management Magazine, KICEM, v.11, no.4 (2010-08), pp.51-55, ISSN: 1229-7534, August 2010.

Pyeon, J., Kim, C., and Ellis, R., "Civil and Coastal Engineering Programs at the University of Florida," Civil Engineering Magazine, Kean Society of Civil Engineers, v.55, no.3, pp.63-79, 2007.

Abstract Peer-Reviewed Conference Proceedings

Pyeon, J., Lee, E., and Kim, C., "Systematic Strategy Selection Model Framework for Caltrans Traffic Management Plans," Proceedings of the Korea Conference on Science-ee(ro) , KoreaCID(s(e)-6(-.,))JTJ 0.002 Tc -0.002 Tw 89.75 0 TdAIDsm-4(e)6(r)3(n)-106(i

Pyeon, J.

Pyeon, J. and Zomorodi M. Incentive/Disincentive Contracting Case Study in California:
Reconstruction at the Route 580/880 Separation Proceedings of the UKS

Presentation in Transportation Research Board Conference on Surface Transportation Finance: Forging a Sustainable Future, New Orleans, Louisiana.

Pyeon, J. (June 2008). "Application of Advanced Materials and Emerging Technologies in Highway Construction: Best Techniques to Remove Pavement Markings," Paper presented at the 4th International Symposium on the Marine Biotechnology and Advanced Materials, Marine Bio and Advanced Material Cluster Center, Gangneung, Korea.

Conference Presentations

Pyeon, J. (January 2013). "Incentive/Disincentive Project Success Factors during MacArthur Maze I580 Bridge Span Replacement," Paper presented at the 5th International Conference of Construction Engineering Management, Garden Grove, CA.

Pyeon, J. (August 2012). "Systematic Strategy Selection Model Framework for Caltrans Traffic Management Plans," Paper presented at the 15th International Conference of Construction Engineering Management, Garden Grove, CA.

Pyeon, J. (January 2012). "Key Project Factors of Construction Time and Cost Performance during Incentive/Disincentive Highway Project," Paper presented at the Transportation Research Board 91st Annual Meeting, Washington, D.C.

Pyeon, J. (June 2011). "Simulation Model to Predict Project Time and Cost Performance of Incentive/Disincentive Construction Project," Paper presented at the 20th International Symposium on Automation and Robotics in Construction, Seoul, Korea.

Pyeon, J. (June 2011). "Stochastic Modeling for Quantifying Optimal Incentive Amounts of Early Project Completion," Paper presented at the 20th International Symposium on Automation and Robotics in Construction, Seoul, Korea.

Pyeon, J. (February 2011). "Pit Proctor Utilization for Construction of Pavement Base Materials in the FDOT Construction Process," Paper presented at the 2nd International Conference on Transportation Construction Management, the US Department of Transportation and the Federal Highway Administration, Orlando, FL.

Pyeon, J. (February 2009). "Traffic Impact on Project Time Performance during Incentive Construction Projects," Paper presented at the 1st International Conference on Transportation Construction Management, the US Department of Transportation and the Federal Highway Administration, Orlando, FL.

Pyeon, J. (January 2009). "Project Time Performance Comparison During FDOT Highway Construction: Traditional Design-Bid-Build Versus Incentive Contracting," Paper presented at the Transportation Research Board 90th Annual Meeting, Washington, D.C.

Pyeon, J. (November 2008). "Temporary Pavement Marking Removal," 3rd KSEA Northwest Regional Conference, Korean American Scientists and Engineers Association, Sacramento, CA.

Pyeon, J. (August 2008). "Incentive/Disincentive Contracting Case Study in California: Reconstruction at the Route 580/880 Separation," Paper presented at the Symposium of Civil and Environmental Engineering, The Korea Conference on Science,

Technology, and Entrepreneurship, Korean-American Scientists and Engineers Association, San Diego, CA.

Pyeon, J. (August 2006). "Impact of Incentive Contracting Methods on Highway Construction Project Time Performance," Paper presented at the Symposium of Civil and Environmental Engineering, The US-Korea Conference on Science, Technology, and Entrepreneurship, Korean-American Scientists and Engineers Association, Teaneck, NJ.

Pyeon, J. (January 2006). "Development of Improved Procedures for Removing Temporary Pavement Markings during Highway Construction," Paper presented at the Transportation Research Board's Annual Meeting, Washington, D.C.

Pyeon, J. (April 2005). "A Study of Simulation-Based Contract Incentives and

CSU/SJSU Research Grants

Pyeon, J., Effective Removal of Pavement Markings: Chemical Removal Techniques, 2010 – August 6, 2010

Award of \$4,000: Sponsored by SJSU STEM Research Grant

Pyeon, J., Framework for Development of a Systematic Model for Quality Control Process of Pavement Base Materials, May 2010 – August 2010

Award of \$5,000: College of Engineering, SJSU for Faculty Career Development.

Pyeon, J., Evaluation of Incentive/Disincentive Amount to Improve Highway Construction Project Time Performance, May 2009 – August 2009

Award of \$5,000: College of Engineering, SJSU for Faculty Career Development.

Pyeon, J., Development of a Decision Support Model for Highway Construction Incentive Contracting Projects, AY 2008-2009

Award of \$4,571 from the San Jose State University for Junior Faculty Career Development.

Pyeon, J., A Comparison of Traditional Design-Bid-Build versus Incentive Contracting in Highway Construction Time Performance, May 2008 – August 2008

Award of \$5,000: College of Engineering, SJSU for Faculty Career Development.

Pyeon, J., Development of a Methodology to Evaluate Incentive Contracting Techniques for Caltrans Construction Projects, AY 2007-2008

Award of \$6,236 from the California State University Research Funds Committee.

HONORS AND AWARDS

2012 Charles W. Davidson Professorship Award (Civil and Environmental Engineering, San Jose State University) (Fall 2012)

2012 Charles W. Davidson Professorship Award (Civil and Environmental Engineering, San Jose State University) (Spring 2012)

2011 Charles W. Davidson Professorship Award (Civil and Environmental Engineering, San Jose State University) (Fall 2011)

2010 Charles W. Davidson Professorship Award (Civil and Environmental Engineering, San Jose State University) (Spring 2010)

2009 Charles W. Davidson Professorship Award (Civil and Environmental Engineering, San Jose State University) (Spring 2009)

William W. Lorell Faculty Development Award for AY 2008-2009, Civil and Environmental Engineering, San Jose State University (May 2008)

2008 Charles W. Davidson Professorship Award (Civil and Environmental Engineering, San Jose State University) (January 2008)

The 26th National Dean's List (2003-2004)

Chi Epsilon National Civil Engineering Honor Society

