

CCIS Publications by Thrust Areas – as of December 2005

Selected Project Execution Processes Thrust Publications

Bruce, D., A., O'Connor, J. T., and Persad, K. R. (2002). Schedule Evaluation Results and Interim Milestones for the IH-35E/SH 121 Project, Report to Dallas District, Texas Department of Transportation, November.

Cho, C-S and Gibson, G. E. (2001). "Building Project Scope Definition Using Project Definition Rating Index (PDRI)," ASCE Journal of Architectural Engineering, 7(4), pp. 115-125, December.

Cho, C-S and Gibson, G. E. (2000). "Development of the Project Definition Rating Index (PDRI) for General Building Projects," Proceedings of the ASCE 2000 Construction Congress VI, Orlando, FL, pp. 343-352, February.

Cho, C-S, Furman, J., and Gibson, G. E. (1999), "Development of the Project Definition Rating Index (PDRI) for Building Projects," Research Report 155-11, A Report to the Construction Industry Institute, December.

Cho, C-S and Gibson, G. E. (1999). "Project Definition Rating Index for Buildings," Proceedings of the Twentieth Annual Construction Project Improvement Conference, Austin, TX, Sept. 26-28, pgs. 75-97.

Cho, C-S and Gibson, G. E. (1999). "Project Definition Rating Index for Buildings," Proceedings of the Fifteenth Annual Construction Industry Institute Annual Conference, San Antonio, TX, August 11-13, pgs. 133-155.

Davis-Blake, A., Broschak, J., and George, E. (2003). Happy Together? How Using Nonstandard Workers Affects Exit, Voice, and Loyalty Among Standard Employees. *Academy of Management Journal*.

Davis-Blake, A. and Hui, P. (2003). "Contracting Talent for Knowledge-Based Competition." Chapter in S. Jackson, M. Hitt, and A. DeNisi (Eds.), *Managing Knowledge for Sustained Competitive Advantage: Designing Strategies for Effective Human Resource Management*. Jossey-Bass.

Davis-Blake, A., Dickson, K.E., Broschak, J. P., Gibson, G.E., Rodriguez, F.J., and Graham, T. A. (1999). "Owner/Contractor Organizational Changes Phase II Report." Report #2, Sloan Program for the Construction Industry, The University of Texas at Austin, April.

El-Diraby, T. E., and O'Connor, J. T. (2001). "Model for Evaluating Bridge Construction Plans," *Journal of Construction Engineering and Management*, ASCE, Sept./Oct., Vol. 127, No. 5, pp. 399-405.

Gibson, G., O'Connor, J. T., Migliaccio, G., and Walewski, J. (Forthcoming 2006). "Key Implementation Issues and Lessons Learned with Design-Build Projects." *American Society of Civil Engineering (CI/CRC) Special Publication on Innovative Project Delivery for Transportation*, Keith Molenaar and Gerald Yakowenko editors.

Gibson, G., Walewski, J. and Dudley, G. (2003). "Life-cycle Considerations to Optimize Risk Assessment and Management for International Projects," Publication and Presentation at the ASCE Construction Research Congress, Honolulu, Hawaii, March 19-21.

Gibson, G. E. and Walewski, J. (2002). "Project Delivery Methods and Contracting Approaches Available for Implementation by the Texas Department of Transportation," Project Summary Report Number 2129-S, Center for Transportation Research, April.

Gibson, G. E. and Kim, S.B. (2002). "A Guide to the CII Implementation Model and Knowledge Structure," Implementation Resource 166-2, The Construction Industry Institute, 26 pp.

Gibson, G. E. and Wang, Y. R. (2001). "Scope Definition, a Key to Project Success," Proceedings of the 2001 COBRA Conference, Royal Institute of Chartered Surveyors (RICS), Glasgow, Scotland, pp. 293-302, September.

Gibson, G. E. and Davis-Blake, A. (2001). "Changes to North American Project Delivery Systems," Proceedings of the 2001 COBRA Conference, Royal Institute of Chartered Surveyors (RICS), Glasgow, Scotland, pp. 490-499, September.

Gibson, G. E. and Walewski, J. (2001). "Project Delivery Methods and Contracting Approaches: Assessment and Design-Build Implementation Guidance," Research Report Number 2129-P1, Center for Transportation Research, August.

Gibson, G. E. and Kim, S. (2001). A Guide to the CII Implementation Model and Knowledge Structure, The Construction Industry Institute, Implementation Resource 166-2, 26 pp., November.

Gibson, G. E. (2001), "Summary of PDRI Use at NASA," A report to NASA HQ/JX, 30 pp., December.

Gibson, G. E. (contributing author) (2001). "Letter Report to the Honorable William B. Richardson, Secretary, U.S. Department of Energy, RE: Improved Project Management in the Department of Energy," The National Research Council Committee on Oversight and Assessment of U.S. Department of Energy Project Management, The National Research Council, 11 pp., January 17.

Gibson, G. E. (contributing author) (2001). "Progress in Improving Project Management at the Department of Energy, 2001 Assessment" The National Research Council Committee on Oversight and Assessment of U.S. Department of Energy Project Management, The National Research Council, 128 pp., December.

Gibson, G. E. (2000). Scope Control and Change Management, The Construction Industry Institute, Education Module 113-22, 106 pp., September.

Gibson, G. E., Graham, T. A., and Barrow, B. (2000), "Project Definition Rating Index PDRI, Use on NASA Projects, Construction of Facilities," A report to NASA HQ/JX, 94 pp., April.

Gibson, G. E. (1999). "Pre-Project Planning Tool: PDRI-Buildings." Research Summary 155-1, The Construction Industry Institute, December.

Gibson, G. E. (1999). PDRI: Project Definition Rating Index, Building Projects, The Construction Industry Institute, Implementation Resource 155-2, 80 pg., July.

Goodrum, P. and Haas, C. (2000). "Factors Affecting Innovation Performance in the U.S. Construction Industry," for the ASCE Construction Congress VI Proceedings.

Grajek, K. M., Gibson, G. E., and Tucker, R. L. (2000). "Partnered Project Performance in Texas Department of Transportation," ASCE Journal of Infrastructure Systems, 6(2), pp. 73-79, June.

Griffith, A. F., and Gibson, G. E. (2001). "Alignment During Pre-Project Planning," ASCE Journal of Management in Engineering, 17(2), pp. 69-76, April. Winner of the ASCE 2001 Engineering Management - Best Peer Reviewed Paper Award.

Kay, J., O'Connor, J. T., et al. (2001). Work Zone Policy White Paper, report to the Federal Highway Administration, U.S. Department of Transportation, May.

Kim, S. and Gibson, G. E. (2002). "Assessment of CII Best Practices Implementation at the Organizational Level," Proceedings of the First International Conference on Construction in the 21st Century (CITC2002), Miami, FL, pp. 451-458, April.

Kim, S. and Gibson, G. E. (2000). "Development of the PDRI Virtual Users Group on the World Wide Web," Proceedings of the ASCE 2000 Construction Congress VI, Orlando, FL, pp. 164-173, February 20-22.

Khwaja, N. A. and O'Connor, J. T. (2001). "A Lessons Learned System for Highway Constructability," Journal of the Transportation Research Board, No. 1761, National Research Council, pp. 116-123.

Khwaja, N. A. and O'Connor, J. T. (2001). "A Lessons Learned System for Highway Constructability," Proceedings of the Conference of the Transportation Research Board; presented on Jan. 9, Washington, D.C.

O'Connor, J. T. (2002). Planning the Startup of the Hamaca Crude Upgrader Project: Status and Path Forward, report to Petrolera Ameriven, Puerto La Cruz, Venezuela, January.

O'Connor, J. T. and Hubers, M. J. (2002). Systems Integration Standards Development Efforts for Facilities Engineering and Construction, Report to the Center for Construction Industry Studies, Report No. 24, University of Texas at Austin, April.

O'Connor, J. T. and Qiu, H. (2002). Proposals for the Transition of I-635/US 75 Interchange and I-635 HOV/T Projects, Dallas, Texas, Report to Dallas District, Texas Department of Transportation, Center for Transportation Research, University of Texas at Austin, April.

O'Connor, J. T. and Delao, M. R. (2002). Contracting and Construction Issues for the Port Isabel Service Processing Center Project, Report to the Center for Construction Industry Studies, Report No. 26, University of Texas at Austin, July.

O'Connor, J. T. and Syed, U. (2001). Planning for the IH 635 HOV/Toll Tunnels, Dallas, Texas, A report to the Texas Department of Transportation, Dallas District, Center for Transportation Research, Austin, TX, July.

O'Connor, J. T. and El-Diraby, T. E. (2000). "Urban Freeway Bridge Reconstruction Planning: the Case of Mockingbird Bridge," Journal of Construction Engineering and Management, ASCE, Jan./Feb., pp. 61-67.

O'Connor, J. T. and Dodd, S. C. (1999). Capital Facility Delivery with Enterprise Resource Planning Systems, Center for Construction Studies Report No. 8, University of Texas at Austin, June.

Thomas, S.R., Tucker, R.L., and Kelly, W.R. (1998). "Critical Communication Variables," Journal of Construction Engineering and Management, ASCE, Jan/Feb., pp. 58-66.

Wang, Y. R. and Gibson, G. E. (2002). "Using PDRI for Project Risk Analysis," Proceedings of the Project Management Institute Research Conference 2002, Seattle, WA, pp. 503-510, July.

Wang, Y. R. and Gibson, G. E. (2002). "Scope Definition and Project Risk Analysis," Proceedings of the First International Conference on Construction in the 21st Century (CITC2002), Miami, FL, pp. 111-118, April.

Yuksel, I. T. and O'Connor, J. T. (2000). Schedule Compression of an Urban Highway Project Using the Linear Scheduling Method, Center for Transportation Research, Austin, TX, September.

Selected Economic, Finance, and Dispute Resolution Thrust Publications

Anderson, S., and Patil, S. (2003). "Improving Organizational Effectiveness of Asset Life Cycle Management," Publication and Presentation at the ASCE Construction Research Congress, Honolulu, Hawaii, March 19-21.

Anderson, S. D., Patil, S. S., and Gibson, G. E. (2002). "Improved Owner-Contractor Work Relationships Based on Capital Project Competencies," Chapter 22 in the *Frontiers of Project Management Research*, ISBN 1-880410-74-5, Project Management Institute, Newton Square, Pennsylvania, pp. 165-184.

Anderson, S.D., Patil, S.S., and Sullivan, G.S. (2001). "Optimizing Owner/Contractor Core Competencies for Capital Programs," *ASCE Journal of Management in Engineering*, Vol. 126, No. 2, pp 77-85.

Anderson, S. D., Patil, S. S., and Gibson, G. E. (2000). "Improved Owner-Contractor Work Relationships Based on Capital Project Competencies," *Proceedings of PMI Research Conference 2000, Project Management Research at the Turn of the Millennium*, June 21-24, Paris, France, pp. 163-174.

Anderson, S. D., Patil, S. S., and Gibson, G. E. (2000). "Developing Optimal Owner-Contractor Work Structures (OCWS)—Validation of the OCWS Process," Report #15, Center for Construction Industry Studies (CCIS), The University of Texas at Austin, 66 pp., October.

Anderson, S. D., Patil, S. S., and Gibson, G. E. (2000). "Developing Optimal Owner-Contractor Work Structures—Case Studies," Report #12, Center for Construction Industry Studies (CCIS), The University of Texas at Austin, 75 pp., July.

Anderson, S. A., A. Davis-Blake, K. E. Dickson, G. E. Gibson, and D. J. Ryan-Rose (1999). "Walking in the Owners Shoes," *Proceedings of the Twentieth Annual Construction Project Improvement Conference*, Austin, TX, Sept. 26-28, 1999, pgs. 129-153.

Anderson, S. Davis-Blake, A. A., Dickson, K. E, Gibson, G. E., and Ryan-Rose, D. J (1999). "Walking in the Owners Shoes," *Proceedings of the Fifteenth Annual Construction Industry Institute Annual Conference*, San Antonio, TX, August 11-13, 1999, pgs. 83-109.

Geertsema, C. J., Gibson, G. E., and Ryan-Rose, D. J (2003). *Emerging Trends of the Owner-Contractor Relationship for Capital Facility Projects From the Contractor Perspective*. Report #32, Center for Construction Industry Studies (CCIS), The University of Texas at Austin, 55 pp., October.

Gibson, G. E., O'Connor, J. T., Gebken, R. J., et al. (2003). *Economic, Financial. and Dispute Resolution Thrust: Research Workshop*. Report #33, Center for Construction Industry Studies (CCIS), The University of Texas at Austin, 22 pp., September.

Gibson, G. E., Jantz, G. C., and Graham, T. A. (2001). "Owner Outsourcing Trends and Their Affects on Project Practices and Performance," Report #19, Center for Construction Industry Studies (CCIS), The University of Texas at Austin, June.

Gibson, G. E. and Ryan-Rose, D. J. (2000). "Emerging Trends in Owner/Contractor Organizational Changes from the Contractor Perspective," Report #11, Center for Construction Industry Studies (CCIS), The University of Texas at Austin, 44 pp., April.

Gibson, G. E., Davis-Blake, A., Broschak, J., and Rodriguez, F. (1998). "Owner/Contractor Organizational Changes Phase I Report." Report #1, Sloan Program for the Construction Industry, The University of Texas at Austin, March.

Popescu, A., Borcharding, J., and O'Connor, J. T. (2002). "Project Scheduling Enhancements for Avoiding Litigation," *AACE International 2002 Transactions*, American Association of Cost Engineers, Morgantown, WV; also presented at the National Conference, Portland, OR, June 22-26.

Vines, E., Gibson, G., Walewski, J. et al. (2003). "International Project Risk Assessment (IPRA) Tool." *Construction Industry Institute Implementation Resource 181-2*. The University of Texas at Austin.

Walewski, J., Gibson, G., and Vines, E. (Forthcoming 2006). "Risk Identification and Assessment for International Construction Projects." Chapter for inclusion in the 2nd Edition of the *Global Project Management Handbook* being developed for McGraw-Hill, Inc., New York, NY, by David I. Cleland and Roland Gareis.

Walewski, J., Gibson, G., Jackson, Y., and Vines, E. (2004). "Risk Assessment on International Projects: A Management Approach." Proceedings of 2004 PMI Research Conference, July 2004, London.

Walewski, J., Gibson, G., and Dudley, G. (2003). "Risk Assessment for International Construction," Research Report to the Construction Industry Institute, Research Report 181-11. The University of Texas at Austin.

Walewski, J. and Gibson, G. E. (2003). "International Project Risk Assessment: Methods, Procedures, and Critical Factors," Center for Construction Industry Studies, Report # 31, The University of Texas at Austin.

Walewski, J., Gibson, G. E. and Vines, E. (2002). "Improving International Capital Risk Analysis and Management," Proceedings of the Project Management Institute Research Conference 2002, Seattle, WA, pp. 493-501, July.

Walewski, J., Gibson, G. E. and Jasper, J. (2001). "Project Delivery Methods and Contracting Approaches Available for Implementation by the Texas Department of Transportation," Research Report Number 2129-1, Center for Transportation Research, 68 pp., October.

Selected Construction Work Force Thrust Publications

Allmon, E., Haas, C., Borcharding, J., and Goodrum, P.(2002). "U.S. Construction Labor Productivity Trends from 1970 - 1998," ASCE Journal of Construction Engineering and Management, Vol. 126, No. 2, pp. 97-104, Mar./Apr.

Borcharding, J., Glover, R.W., Haas, C.T., Tucker, R.L. (2001). "Metric-Based Implementation of Tier II Work Force Strategy," Center for Construction Industry Studies, Report No. 20, University of Texas at Austin.

Burleson, R., Haas, C., Tucker, R., and Stanley, A. (1998). "Multiskilled Labor Strategies in Construction," ASCE Journal of Construction Engineering and Management, vol. 124, no. 6, pp. 480-489, Nov./Dec.

Carley, L., Goodrum, P. Haas, C., and Borcharding, J. (2002). "Experiences with Multiskilling among non-Union Craft Workers in U.S. Industrial Construction Projects," Blackwell Science Journal of Engineering, Construction, and Architectural Management.

Glover, W.G., Long, D.W., Haas, C.T.M., and Alemany, C. (1999). "Return-on-Investment (ROI) Analysis of Education and Training in the Construction Industry," Center for Construction Industry Studies, Report No. 6, Univ. of Texas at Austin.

Gomar, J., Haas, C., and Morton, D. (2002). "Assignment and Allocation Optimization of a Partially Multiskilled Workforce," ASCE Journal of Construction Engineering and Management, Vol. 128, No. 2, pp. 103-109, March/April.

Goodrum, P., Haas, C., and Glover, R. (2002). "The Divergence in Aggregate and Activity Estimates of US Construction Productivity." Journal of Construction Management and Economics. Taylor and Francis. 20 (5). pp. 415-423.

Goodrum, P., and Haas, C. (2000). "U.S. Construction Labor Productivity Trends, 1970-1998," for the ASCE Construction Congress VI Proceedings.

- Haas, C.T., Rodriguez, A.M., Glover, R., and Goodrum, P. (2001). "Implementing a Multiskilled Workforce," *Journal of Construction Management and Economics*, 19(6), pp. 633-641, Aug.
- Haas, C.T., Glover, R.W., Tucker, R.L., and Terrien, K.R. (2001). "Impact of the Internet on the Recruitment of Skilled Labor," Center for Construction Industry Studies, Report No. 18, University of Texas at Austin.
- Haas, C.T., Alemany, C., and Kim, H. (2000). "Study of Foreman-level Task Automation in the US Construction Industry," proceedings of the 17th International Symposium on Automation and Robotics in Construction, Taipei, Taiwan, Sept. 2000
- Haas, C.T., Morton, D.P., Tucker, R.L., and Gomar, J.E. (2000). "Assignment and Allocation Optimization of a Partially Multiskilled Workforce," Center for Construction Industry Studies, Report No. 11, University of Texas at Austin.
- Haas, C.T., Morton, D.P., Tucker, R.L., and Gomar, J.E. (2000). "Assignment and Allocation Optimization of a Partially Multiskilled Workforce," Center for Construction Industry Studies, Report No. 11, Univ. of Texas at Austin.
- Haas, C.T., Borcherding, J.D., Glover, R.W., Tucker, R.L., Carley, L., and Eickmann, J. (1999). "Craft Workers Experiences With and Attitudes Toward Multiskilling," Center for Construction Industry Studies, Report No. 4, Univ. of Texas at Austin.
- Haas, C.T., Borcherding, J.D., Glover, R.W., Tucker, R.L., Rodriguez, A., and Gomar, J. (1999). "Planning and Scheduling a Multiskilled Workforce," Center for Construction Industry Studies, Report No. 5, Univ. of Texas at Austin
- Haas, C.T., Borcherding, J.D., Allmon, E., and Goodrum, P. (1999). "U.S. Construction Labor Productivity Trends, 1970-1998," Center for Construction Industry Studies, Report No. 7, Univ. of Texas at Austin.
- O'Connor, J. T. and Won, S. (2001). Work Function-Level Technology Use Metrics for Capital Facility Projects, Report to the Center for Construction Industry Studies, Report No. 18, University of Texas at Austin, February.
- Tucker, R.L., Haas, C., and Glover, R. (2002). "A Two-Tiered Workforce Strategy for Construction," *ASCE Journal of Construction Engineering and Management*.
- Tucker, R.L., Haas, C.T., Glover, R.W., Alemany, C., Carley, L., Rodriguez, A., and Shields, D. (1999). "Key Workforce Challenges Facing the American Construction Industry: An Interim Assessment," Center for Construction Industry Studies, Report No. 3, Univ. of Texas at Austin.
- Ueki, M., Haas, C., and Seo, J. (1999). "Decision Tool for Microtunneling Method Selection," *ASCE Journal of Construction Engineering and Management*, Vol. 125, no. 2, Mar/Apr, pp. 123-131.
- Weissmann, J., Chun, H.T., and Haas, C. (2001). "Pilot Installation of a Bridge Scour Monitoring Site," the National Research Council's Transportation Research Board's Transportation Research Record, No. 1749, pp. 68-72.

Selected Technology Thrust Publications

- Browne, C., Rauch, A., Haas, C., and Kim, H. (2002). "Performance Evaluation of Automated Machines for Measuring Gradation of Aggregate," accepted by ASTM in September.

- Cho, Y., Haas, C., Liapi, K., and Sreenivasan, S. (2002). "A framework for rapid local area modeling for construction automation." *Journal of Automation in Construction*, 11(6), pp. 629-641.
- Cho, Y., Haas, C., et al. (2002). "Error Analysis and Correction for Large Scale Manipulators in Construction," *ASCE Journal of Construction Engineering and Management*.
- Cho, Y.K., and Haas C.T. (2003). "Rapid Geometric Modeling for Unstructured Construction Workspaces," *Journal of Computer-Aided Civil and Infrastructure Engineering*, 18:4.
- Davis-Blake, A., Gibson, G. E., Dickson, K. E., and Mentel, B. (2001). "Workforce Demographics Among Engineering Professionals, A Crisis Ahead," Report #21, Center for the Construction Industry Studies, The University of Texas at Austin, 45 pp., October.
- Davis-Blake, A. and Broschak, J. (2000). Speed Bumps or Stepping Stones: The Effects of Labor Market Intermediaries on Relational Wealth. In C. Leana and D. Rousseau (Eds.), *Relational Wealth: A New Model for Employment in the 21st Century*, Oxford University Press, pp 91-115.
- Goodrum, P., and Haas, C. (2002). "The Long Term Impact of Equipment Technology on Labor Productivity in the U.S. Construction Industry at the Activity Level," *ASCE Journal of Construction Engineering and Management*.
- Goodrum, P., and Haas, C. (2002). "Partial Factor Productivity and Equipment Technology Change at the Activity Level in the U.S. Construction Industry," *ASCE Journal of Construction Engineering and Management*, Vol. 128, no.6, pp 463-472, Nov/Dec.
- Haas, C.T., O'Connor, J.T., Borcharding, J.D., Glover, R.W., Tucker, R.L., and Eickmann, J.A. (2000). "Prefabrication and Preassembly Trends and Effects on the Construction Workforce," Center for Construction Industry Studies, Report No. 10, Univ. of Texas at Austin.
- Haas, C.T., Borcharding, J.D., Glover, R.W., Tucker, R.L., and Alemany, C. (2000). "The Effects of Computers on Construction Foremen," Center for Construction Industry Studies, Report No. 9, Univ. of Texas at Austin.
- Haas, C. T., O'Connor, J. T., Tucker, R. L., Eickmann, J. A., and Fagerlund, W. (2000). Prefabrication and Preassembly Trends and Effects on the Construction Workforce, Report to the Center for Construction Industry Studies, Report No. 14, University of Texas at Austin, September.
- Khoury, J., Haas, C., and Mahmassani, H. (2002). "Performance Comparison of Automated Vehicle Identification and Inductive Loop Traffic Detectors for Incident Detection," *ASCE Journal of Transportation*.
- Kim, Y., and Haas, C. (2002). "Automation in Infrastructure Construction," *Construction Innovation*, Vol. 2, Issue 3.
- Kim, Y.S., and Haas, C. (2000). "A Model for Automation of Infrastructure Maintenance using Representational Forms," Vol. 10/1, *Automation in Construction*, pp. 57-68, Sept.
- Kim, H., Haas, C., Rauch, A., and Browne, C. (2001). "Wavelet Based 3D Descriptors of Aggregate Particles," National Research Council's Transportation Research Board's Transportation Research Record.
- Kim, H., Haas C.T., Rauch, A., and Browne, C. (2003). "3D Image Segmentation of Aggregates from Laser Profiling," accepted for publication in *Computer-Aided Civil and Infrastructure Engineering*, 18:4.
- Kim, H., Haas, C., Rauch, A., and Browne, C. (2002). "Dimensional Ratios for Stone Aggregates from Three-Dimensional Laser Scans," *ASCE Journal of Computing in Civil Engineering*, Vol. 16, no. 3, pp. 175-183, July.

Kim, Y.S., Haas, C. (2002). "A Man-machine Balanced Rapid Object Model for Automation of Pavement Crack Sealing and Maintenance," *Canadian Journal of Civil Engineering*, 29: pp. 1-16.

Khawaja, N. and O'Connor, J. T. (2001). Development of a Lessons Learned System for the Dallas District, Texas Department of Transportation, Center for Transportation Research, Austin, Texas, July.

LeBlond, D., Owen, F., Gibson, G., Haas, C., and Traver, A. (1998). "Performance Testing and Characterization of Advanced Construction Equipment," *ASCE Journal of Construction Engineering and Management*, Vol. 124, no. 4, pp. 289-296, Jul./Aug.

McLaughlin, J., Sreenivasan, S.V., Haas, C., and Liapi, K. (2002). "Rapid Human-Assisted Creation of Bounding Models for Obstacle Avoidance in Construction," *Journal of Computer-Aided Civil and Infrastructure Engineering*.

O'Connor, J. T., Hadeed, S., Braden, K. E., and Deogaonkar, M. J. (2002). "Project- and Phase-Level Technology Use Metrics for Capital Facility Projects," *Computing in Civil Engineering: Proceedings from the Specialty Conference on Fully Integrated and Automated Project Processes*, American Society of Civil Engineers, January 23, Blacksburg, VA. pp. 25-38.

O'Connor, J. T. and Won, S. (2002). "Understanding Demand for Technology via Work Function Characteristics," *Computing in Civil Engineering: Proceedings from the Specialty Conference on Fully Integrated and Automated Project Processes*, American Society of Civil Engineers, January 23, Blacksburg, VA. pp. 13-24.

O'Connor, J. T. and Won, S. (2002). "Work Function-Level Technology Use Metrics for Capital Facility Projects," *Computing in Civil Engineering: Proceedings from the Specialty Conference on Fully Integrated and Automated Project Processes*, American Society of Civil Engineers, January 23, Blacksburg, VA. pp. 1-12.

O'Connor, J. T. and Yang, L. (2002). "Project Performance vs. Use of Technologies at the Work Function Level," *International Symposium for Automation in Construction*, September 23-25, Washington, D.C., pp. 117-122.

O'Connor, J. T. and Yang, L. (2002). Capital Facility Project Success and Technology Usage, Report to the Center for Construction Industry Studies, Report No. 22, University of Texas at Austin, March.

O'Connor, J. T. and Won, S. (2002). A Model for Work Function Characteristics-Based Prioritization of Technologies for Capital Projects, Report to the Center for Construction Industry Studies, Report No. 27, University of Texas at Austin, July.

O'Connor, J. T. and Moritz, A. P. (2002). IT Integration Strings for Water Transmission Project Planning and Design, Report to the Center for Construction Industry Studies, Report No. 28, University of Texas at Austin, August.

O'Connor, J. T. and Dodd, S. C. (2000). "Achieving Integration on Capital Projects with Enterprise Resource Planning Systems," *Journal on Automation in Construction*, Vol. 9, No. 5-6, Elsevier Science B.V., September, pp. 515-524.

O'Connor, J. T. (2000). "The I/A Implementation Index", *Construction Industry Institute Annual Conference*, Nashville, TN, Aug. 10.

O'Connor, J. T., Hadeed, S. P., Braden, K. E., and Deogaonkar, M. J. (2000). "Benchmarking the U.S. Industry's Use of Automation and Integration Technologies on Projects", the 17th International Symposium on Automation and Robotics in Construction, Taipei, Taiwan, September 18-20.

O'Connor, J. T., Kumashiro, M. E., Welch, K. A., Hadeed, S. P., Braden, K. E., and Deogaonkar, M. J. (2000). Project- and Phase-Level Technology Use Metrics for Capital Facility Projects, Report to the Center for Construction Industry Studies, Report No. 16, University of Texas at Austin, December.

O'Connor, J. T. and Dodd, S. C. (1999). "Achieving Integration on Capital Projects with Enterprise Resource Planning Systems," Journal on Automation in Construction, International Association for Automation and Robotics in Construction, Fall.

O'Connor, J. T. and Dodd, S. C. (1999). "Achieving Integration on Capital Projects with Enterprise Resource Planning Systems," 16th IAARC/IFA/IEEE International Symposium on Automation and Robotics in Construction, Sept. 22-24, Madrid, Spain, pp. 199-204.

O'Connor, J. T. Kumashiro, M. E., and Welch, K. A. (1999). "Measuring Automation and Integration in the Construction Industry," 16th IAARC/IFA/IEEE International Symposium on Automation and Robotics in Construction, Sept. 22-24, Madrid, Spain, pp. 211-216.

Saidi, K., Haas, C., and Balli, N. (2002). "The Value of Handheld Computers in Construction," 19th Annual ISARC, Gaithersburg, MD, Sept. 23-25.

Saidi, K.S., Seo, J., Sreenivasan, S.V., Haas, C.T., and Traver, A.E. (1999). "Design of a Tele-Operated Robot for the Maintenance of Boiler Hoppers in Electric Power Plants," ASME Journal of Mechanical Design, Vol. 121, pp. 647-649, Dec.

Seo, J., Haas, C., Saidi, K., and Sreenivasan, S.V. (2000). "Graphical Control Interface for Construction and Maintenance Equipment," ASCE Journal of Construction Engineering and Management, Vol. 126, No. 3, pp. 210-218, May/June.