

PROMOTION RECOMMENDATION
University of Michigan
College of Engineering
Department of Civil and Environmental Engineering

Jason P. McCormick, assistant professor of civil and environmental engineering, Department of Civil and Environmental Engineering, College of Engineering, is recommended for promotion to associate professor of civil and environmental engineering, with tenure, Department of Civil and Environmental Engineering, College of Engineering.

Academic Degrees:

Ph.D.	2006	Georgia Institute of Technology, Civil Engineering, Atlanta, GA
M.S.	2005	Georgia Institute of Technology, Civil Engineering, Atlanta, GA
B.C.E.	2001	Catholic University of America, Civil Engineering, Washington, DC
B.A.	2000	Saint Anselm College, Cooperative Eng. Program, Manchester, NH

Professional Record:

2008 – present	Assistant Professor, Department of Civil and Environmental Engineering, University of Michigan
2006 – 2007	Postdoctoral Fellow, Disaster Prevention Research Institute, Kyoto University, Kyoto, Japan
2001 – 2006	Research and Teaching Assistant, School of Civil and Environmental Eng., Georgia Institute of Technology, Atlanta, GA
2001 – 2001	Engineering Intern, Building and Fire Research Lab., National Institute of Standards and Technology (NIST), Gaithersburg, MD
2000 – 2000	Research Assistant, Multidisciplinary Center for Earthquake Eng. Research (MCEER), State University of New York, Buffalo, NY

Summary Evaluation:

Teaching: Professor McCormick is an outstanding teacher. He has taught a variety of classes at the undergraduate and graduate levels and received high student evaluation scores in his classes. In the undergraduate courses, his Q1 evaluations range from 3.96 to 4.84 (average: 4.41) and his Q2 scores from 4.66 to 4.91 (4.80). In graduate courses, his Q1 and Q2 evaluations scores range from 4.17 to 4.92 (4.67) and 4.00 to 5.00 (4.76), respectively. Professor McCormick also has been an exceptional mentor outside the classroom and is lauded as one of the best and most helpful instructors in the department. He serves as a faculty advisor to both the University of Michigan student chapter of the Earthquake Engineering Research Institute and the Steel Bridge team, the latter of which he has won multiple victories in the regional competitions, with invitations to the national competition in recent years. Professor McCormick has been recognized for his service contributions with the 2010 Chi Epsilon James M. Robbins Excellence in Teaching Award (Great Lakes District), the 2011 and 2012 ASCE Student Chapter Departmental Faculty Award, and the department's 2012 Excellence in Civil and Environmental Engineering Award.

Research: Professor McCormick has established an excellent experimental facility in the structural engineering laboratory for testing state-of-the-art connection assemblies for improved performance of structures. His research involves the testing of large-scale structural elements. For his research, he received the prestigious AISC Faculty Fellowship funding to perform experimental studies of hollow structural section connection assemblies. His work in this field is pioneering, and as it becomes more

widely tested and adopted, will have significant impact on the design of modern steel structures. He has published 14 archival journal publications, three conference proceedings in strictly reviewed venues, and has four papers in review, nine of which are with his graduate and undergraduate students. With two new grants from NSF, he will continue to advance this research, while also exploring novel hollow steel frame filler materials for enhanced seismic performance and improved understanding of deep column members for enhanced earthquake resistance.

Recent and Significant Publications:

- Fadden, M. and McCormick, J. (2013), "Finite Element Model of the Cyclic Bending Behavior of Hollow Structural Section Beam Members," *Journal of Constructional Steel Research*, (in publication).
- Fadden, M. and McCormick, J. (2012), "Cyclic Quasi-Static Testing of Hollow Structural Section Beam Members," *Journal of Structural Engineering*, 138(5), 561-570.
- McCormick, J., Fadden, M. and Buison, J. (2010), "Cyclic Testing of Hollow Structural Sections for Seismic Applications in Low to Mid-Rise Moment Frames," *Proceedings of the 13th International Symposium on Tubular Structures*, Hong Kong, China, 15-17 December, 2010.
- McCormick, J., Nagae, T., Ikenaga, M., Zhang, P.-C., Katsuo, M. and Nakashima, M. (2009), "Investigation of the Sliding Behavior between Steel and Mortar for Seismic Applications in Structures," *Earthquake Engineering and Structural Dynamics*, 38, 1401-1419.
- McCormick, J., DesRoches, R., Fugazza, D. and Auricchio, F. (2007), "Seismic Assessment of Concentrically Braced Steel Frames with Shape Memory Alloys Braces," *Journal of Structural Engineering*, 133(6), 862-870.

Service: Professor McCormick has offered a high level of service at the national level. He is a member of two AISC technical committees and serves on the editorial board for two international journals. In his department, Professor McCormick is the director of the Structural Engineering Laboratory, and has served on the Curriculum, Graduate, Safety, and Faculty Search committees. He has been active in diversity efforts including service on NeWinCEE (Network for Women in CEE) advising team, and in outreach in summer programs such as the Xplore Engineering Workshop, the Science Society Outreach Day in CEE, and through annual visits to Dexter 2nd grade classes to present bridge design and demonstrations with easy-to-use and entertaining software packages.

External Reviewers:

Reviewer A: "His publications are well-written, appear in the top journals in the field, and have good impact on the field."

Reviewer B: "As further testament to his original research contributions, Dr. McCormick has become a valued member of professional organizations, which provide natural mechanisms for dissemination and implementation of his research into engineering practice. This includes his participation in several technical committees of the American Institute of Steel Construction and the American Society of Civil Engineers, where I have personally seen his effective interactions with other leading researchers and engineers."

Reviewer C: "I should note that membership on AISC committees as well as presentations at AISC's annual conferences are by invitation only. Dr. McCormick's invitations to participate in these AISC activities reflect his increasing recognition by the profession in the area of structural steel construction."

Reviewer D: "The work described is of high practical importance; it is performed with the best tools of testing and analysis; it shows a thorough understanding of the science of structural mechanics; and it is clearly explained."

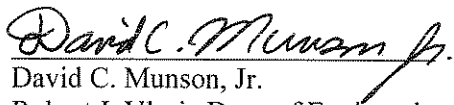
Reviewer E: "... he is a very capable experimentalist – an important attribute that cannot be overlooked in a department that has major experimental facilities and needs the talent of the likes of Dr. McCormick to complement the strengths of others engaged in analytical and numerical research."

Reviewer F: "...he has an excellent national profile. McCormick and I serve on two common AISC technical committees; he is one of the [junior] members of both committees, is well-regarded by other members and is in fact a 'poster child' for AISC."

Reviewer G: "He appears to have great potential for continue(d) future professional growth through his pursuit of important research topics, quality teaching, and active participation in service."

Reviewer H: "Dr. McCormick has been serving on an AISC Task Committee since 2012. It is a great honor for a junior professor to serve on an AISC committee."

Summary of Recommendation: Professor McCormick is becoming a visible and well-respected researcher in the general field of earthquake-resistant design of steel structures with an emphasis on the inelastic behavior of HSS (hollow structural sections) members and connections. He is an excellent teacher and mentor of undergraduate and graduate students. He has made significant service contributions to national professional societies and within the Department of Civil and Environmental Engineering. It is with the support of the College of Engineering Executive Committee that I recommend Jason P. McCormick for promotion to associate professor of civil and environmental engineering, with tenure, Department of Civil and Environmental Engineering, College of Engineering.


David C. Munson, Jr.
Robert J. Vlasic Dean of Engineering
College of Engineering

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