

Andrew Patton McCoy, Ph.D.

Beliveau Professor,
Department of Building Construction;
Associate Director, Myers-Lawson School of
Construction;
Director, Virginia Center for Housing
Research;
Virginia Polytechnic Institute & State
University.

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PROFESSIONAL PREPARATION

Institution

University of Virginia: Charlottesville, VA
University of Virginia: Charlottesville, VA
Virginia Polytechnic Institute and State University: Blacksburg, VA
Virginia Polytechnic Institute and State University: Blacksburg, VA

Field

Architecture
Architectural History
Construction Science &
Management
Environmental Design and Planning

Degree

B.S., May 1996
B.A., May 1997
M.S., May 2007
Ph.D., August 2008

ACADEMIC EMPLOYMENT

-Associate Director, Myers Lawson School of Construction, College of Engineering
-Yvan J. Beliveau Endowed Professorship, Department of Building Construction
-Department Head, Department of Building Construction
College of Architecture and Urban Studies
Virginia Polytechnic Institute & State University
-Professor, Department of Building Construction
College of Architecture and Urban Studies
Virginia Polytechnic Institute & State University
-Editor-in-Chief
ASC's International Journal of Construction Education and Research
-Preston and Catharine White Endowed Fellow and Associate Director, Myers-Lawson School of Construction
Virginia Polytechnic Institute & State University
-Associate Professor, Department of Building Construction
College of Architecture and Urban Studies
Virginia Polytechnic Institute & State University
-Director, Virginia Center for Housing Research at Virginia Tech
College of Architecture and Urban Studies (now Engineering)
Virginia Polytechnic Institute & State University
-Assistant Professor, Department of Building Construction
College of Architecture and Urban Studies
Virginia Polytechnic Institute & State University
-Teaching & Research Assistant- M.S.; Ph.D.
Virginia Polytechnic Institute and State University

July 2018 – Present
July 2019 – Present
June 2017 – June 2020

June 2017 – Present

January 2016- May 2021
July 2014 – July 2018

June 2013 – June 2017

July 2012 – Present

Aug 2008 – June 2013

Aug 2005 - Aug 2008

PROFESSIONAL REGISTRATION OR CERTIFICATION

VA Class A #2705 086611A

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HONORS/ACHIEVEMENTS

2022	Richmond Biz Sense Golden Hammer Award (as team leader with Project HOMES). This award honors excellence in neighborhood revitalization projects throughout Greater Richmond and recognizes professionals and community members improving neighborhoods through restoration, adaptive reuse, new construction, placemaking, and historic preservation.
2022	Home Builders Association of Virginia Innovation Project of the Year Award (as team member with Habitat for Humanity Peninsula and Greater Williamsburg chapter).
2022	Habitat for Humanity International's Affiliate Choice Design Award (as team member with Habitat for Humanity Peninsula and Greater Williamsburg chapter). This award amounts to the international "best in show," awarded for introducing innovation into the design and construction process.
2021	<i>Commendation for Dedicated Service</i> (6 years as International Journal Editor), Associated Schools of Construction (national-level)
2021	<i>University Excellence in Outreach Award</i> , College of Architecture and Urban Studies
2019	<i>Yvan J. Beliveau Professorship</i> in Building Construction
2016	<i>2015 Best Paper Award- Journal of Architectural Engineering and Architectural Engineering Institute</i>
2015	<i>Commonwealth of Virginia Game Changer Award-</i> Virginia Housing Coalition
2014	<i>Scholar of the Week-</i> August 25th, 2014; Office of the Vice President for Research, Virginia Tech
2014	<i>Best paper prize-</i> American Real Estate Society's Annual Conference.
2014	<i>Certificate of Excellence in Scholarship</i> , College of Architecture and Urban Studies
2014	<i>University Certificate of Teaching Excellence</i> , College of Architecture and Urban Studies
2014	<i>Engineering News Record's 2014 "Top 20 under 40"</i> for the Mid-Atlantic
2013	<i>Favorite Faculty Award-</i> Division of Student Affairs at Virginia Tech
2013	<i>University Teacher of the Week</i> from the Center for Instructional Development and Education Research
2013	<i>Exemplary Faculty Award</i> , VT Department of Building Construction; Myers-Lawson School of Construction
2013	<i>Outstanding Young Alumnus</i> , VT Department of Building Construction; Myers-Lawson School of Construction
2012	<i>Exemplary Faculty Award</i> , Virginia Tech Myers-Lawson School of Construction
2011	<i>American Institute of Architects Design Award</i> – lumenHAUS Team
2011	<i>Exemplary Faculty Award</i> , Virginia Tech Myers-Lawson School of Construction
2011	Induction into the <i>Academy of Outreach Excellence</i>
2011	<i>Alumni Excellence in Outreach Award</i> , Virginia Tech
2011	<i>University Excellence in Outreach Award</i> , College of Architecture and Urban Studies
2011	<i>Engaged Scholar- March</i> , Office of Outreach and International Affairs
2010	<i>Premiere Prize (First Place)</i> , Core Faculty Team: Solar Decathlon Europe
2010	<i>Industrialization and Market Viability, 3rd Place:</i> Solar Decathlon Europe
2009	<i>XCaliber Award</i> , for excellence at Virginia Tech as a group involved in technology-assisted teaching – lumenHAUS Team
2008	<i>ARCC International Jonathan King Student Medal:</i> Recipient for Excellence in Research and Scholarship

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DATABASES

Agee, P., Gao, X., Paige, F., & McCoy, A. (2020, April 1). A Human-centered Approach to Smart Housing Dataset. Retrieved from osf.io/ur8th

BOOK PUBLICATIONS

- Sanderford, A. R., McCoy, A. P., Zhao, D. & Koebel, C. T. (2016). [Inventing the House: Case-specific Studies on Housing Innovation](#). Momentum Press, 2016. Print ISBN: 9781606505663. [Google Book Link](#)
- Albassami, A. and McCoy, A. P. (2015). [A Business Framework for International Commercialization of Innovative Construction Products](#). Momentum Press, 2015. Print ISBN: 9781606507056. DOI: 10.5643/9781606507063.
- McCoy, A. P., Sanderford, A. R., Koebel, C. T. & Martin, C. (2015). [Policies, Programs and People That Shape Innovation in Housing](#). Momentum Press, 2015. Print ISBN: 9781606505601. [Google Book Link](#)

BOOK CHAPTERS

- Koebel, T., Sanderford, A., & McCoy, A. (Accepted for publication September 30, 2023). "The Home Building Industry." In Introduction to Housing, Eds. K. B. Anacker, A. T. Carswell, and S. D. Kirby (pp. xx – xx). Routledge.
- McCoy, A.P., Vieira, M., Oliveira, M.J., Yanamala, A., Agee, P. (2023). 3D Concrete Printing: Factors Affecting the US and Portugal. In: Semião, J.F.L.C., Sousa, N.M.S., da Cruz, R.M.S., Prates, G.N.D. (eds) INCReASE 2023. INCReASE 2023. Advances in Sustainability Science and Technology. Springer, Cham. https://doi.org/10.1007/978-3-031-44006-9_24
- McCoy, A.P., Zhao, D., Mo, Y., Agee, P., and Paige, F. (2019). "Latent Relationships between Construction Cost and Energy Efficiency in Multifamily Green Buildings." Chapter 11: The Institute of Engineering and Technology's Energy Generation and Efficiency Technologies for Green Residential Buildings, Rupp, C and Ting, D. Ed. Springer Press, UK.
- Zhao, D., Thabet, W., McCoy, A., and Kleiner, B. (2012). "Managing Electrocutation Hazards in the US Construction Industry Using VR Simulation and Cloud Technology." eWork and eBusiness in Architecture, Engineering and Construction, ECPPM 2012, CRC Press, pp. 759-764. ISBN: 978-0-415-62128-1. DOI: 10.1201/b12516-120. eBook ISBN: 978-0-203-07796-2. eBook link.
- McCoy, A.P. and Schubert, R. (2011). Smart House and Automation Technologies. Chapter in The Encyclopedia of Housing, 2nd Edition, Sage Publications: Thousand Oaks, CA: (688-691).

PEER REVIEWED JOURNAL PUBLICATIONS *denotes graduate student in an advisee role

- Haghighat, S.; Lee, M.J.; Zhang, R.; Sadeh, H.; McCoy, A.; Gao, X.; Agee, P. (Submitted 12/13/24). "Interpretable Predictive Modeling of Indoor Air Quality in 3D-Printed Houses: A Data-Driven Framework Integrating Deep Learning and Fuzzy Logic." Journal of Building Engineering, Submitted 12/13/24.
- Armin Yeganeh, Andrew McCoy, Philip Agee, Steve Hankey (2024). "The role of new green construction in neighborhood change and gentrification," Cities, Volume 150, 2024. <https://doi.org/10.1016/j.cities.2024.105101>
- Agee, Philip & Nikdel, Leila & McCoy, Andrew & Kianpour rad, Simin & Gao, Xinghua, 2024. "Manufactured housing: Energy burden outcomes from measured and simulated building performance data," Energy Policy, Elsevier, vol. 186(C).
- Barnes, A., McCoy, A., Warnick, Q. and Bowen, B. (Submitted). Measuring the Quality of Experience of Instructional Video Object-Based Learning in a Flipped Construction Classroom. Journal of Engineering Education.
- Barnes, A., McCoy, A., Warnick, Q. and Bowen, B. (2023). Developing Supplemental Instructional Videos for Traditional Learning Materials. Buildings, Buildings 2023, 13(10), 2466; <https://doi.org/10.3390/buildings13102466>
- Anik, S. M. H., Gao, X., Meng, N., Agee, P. R., & McCoy, A. P. (2022). A cost-effective, scalable, and portable IoT data infrastructure for indoor environment sensing. Journal of Building Engineering, 104027. <https://doi.org/10.1016/j.jobe.2022.104027>

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- Nikdel, L., Agee, P., Reichard, G., & McCoy, A. (2022). Net Zero Energy Housing: An Empirical Analysis from Measured Data. *Energy and Buildings*, 270. <https://doi.org/10.1016/j.enbuild.2022.112275>
- Hassan Anika, Sheik Murad; Gao, Xinghua; Menga, Na; Agee, Philip R.; McCoy, Andrew P. (2022). A Cost-Effective, Scalable, and Portable IoT Data Infrastructure for Indoor Environment Sensing. *Journal of Building Engineering*, Volume 49, 2022. <https://doi.org/10.1016/j.jobbe.2022.104027>
- Yeganeh, A.; Agee, P.; Gao, X. and McCoy, A.P. (2021) "Feasibility of Zero Energy Low Income Housing: The Case of Tax Credit Developments in Virginia, US ." *Energy and Buildings*, Volume 241, 15 June 2021. (view link)
- Philip Agee, Xinghua Gao, Frederick Paige, Andrew McCoy & Brian Kleiner (2020) A human-centered approach to smart housing, *Building Research & Information*, <https://doi.org/10.1080/09613218.2020.1808946>
- *Yeganeh, A. J., McCoy, A. P., & Schenk, T. (2020). "Determinants of climate change policy adoption: a meta-analysis." *Urban Climate*: Volume 31, March 2020, <https://doi.org/10.1016/j.uclim.2019.100547>. (article link)
- *Yeganeh, A. J., McCoy, A. P., & Hankey, S. (2019). "Green Affordable Housing: Cost-Benefit Analysis for Zoning Incentives." *Sustainability* 2019, 11(22), 6269; <https://doi.org/10.3390/su11226269>
- *Yeganeh, A. J., McCoy, A. P., Reichard, G., Hankey, S., Schenk, T. (2020). Green Building and Policy Innovation in the US Low Income Housing Tax Credit Program. *Building Research & Information (RBRI)*, <https://doi.org/10.1080/09613218.2020.1842165>
- Ladipo, T., Reichard, G., McCoy, A., Pearce, A., Knox, P. and Flint, M. (2019) "Attributes and Metrics for Comparative Quantification of Disaster Resilience Across Diverse Performance Mandates and Standards of Building." *Journal of Building Engineering*, V21 pp. 446-454.
- *Yeganeh, A.J., Reichard, G., McCoy, A.P., Jazizadeh, F.K. and Bulbul, T. (2018). "Correlation of Ambient Air Temperature and Cognitive Performance: A Systematic Review and Meta-Analysis." *Building and Environment*, October 2018, V143 pp. 701-716.
- Andrew R. Sanderford, Andrew P. McCoy & Dong Zhao (2018) Demonstrating a New Measure & Index of U.S. Homebuilder Confidence, *Journal of Housing Research*, 27:2, 107-128, DOI: 10.1080/10835547.2018.12092145
- Zhao, D., McCoy, A., *Agee, P., Mo, L., Reichard, G. and Paige, F. (2018). "Time effects of green buildings on energy use for low-income households in the United States: A longitudinal study." *Sustainable Cities and Society* V40, pp. 559-568.
- McCoy, A.P., Zhao, D., Ladipo, T., Agee, P., and Mo, Y. (2018) "Comparison of green home energy performance between simulation and observation: A case of Virginia, U.S." *Journal of Green Building* *Journal of Green Building's* V13 N3.
- Sanderford, A. R., McCoy, A. P. and Keefe, M. (2018). "The Adoption of Energy Star Certifications Across U.S. CBSAs 2002-2013." *Building Research and Information*, Vol. 46 , Iss. 2, 2018.
- Zhao, D., McCoy, A. and *Agee, P. (2017). "Interaction Effects of Building Technology and Resident Behavior on Energy Consumption in Residential Buildings." *Energy and Buildings* 134, 223-233.
- Zhao, D., McCoy, A., Kleiner, B., & Feng, Y. (2016). "Integrating safety culture into OSH risk mitigation: a pilot study on the electrical safety." *Journal of Civil Engineering and Management*, 22 (6): pp. 800-807.
- Zhao, D., McCoy, A.P., and Du, Jing (2016). "An Empirical Study on the Energy Consumption in Residential Buildings after Adopting Green Building Standards." *Procedia Engineering*, DOI: 10.1016/j.proeng.2016.04.100.
- *Saunders, L.W., McCoy, A.P., Kleiner, B.M., Mill, T.Cooke, T., Linguard, H., Blismas, N., Mills, T. and Wakefield, R. (2016). "International Benchmarking for Performance Improvement in Construction Safety and Health" *Benchmarking: An International Journal*, volume 23, issue 2, 2016.
- Sanderford, A. R., Koebel, C. T., & McCoy, A. P. (2015). "Establishing the Framework for the Green Housing Information Chasm." *Journal of Real Estate Literature*, Vol. 23, Number 1, pp. 27-52.
- Zhao, D., McCoy, A.P., Kleiner, B.M., Smith-Jackson, T.L., and Liu, G. (2015). "Sociotechnical Systems of Fatal Electrical Injuries in the Construction Industry." *ASCE Journal of Construction Engineering and Management*, Volume 142, Issue 1. [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0001036](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001036)
- Zhao, D., McCoy, A.P., Kleiner, B.M., Du, J., and Smith-Jackson, T.L. (2015). "Decision-Making Chains in Electrical Safety for Construction Workers." *ASCE Journal of Construction Engineering and Management*. [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0001037](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001037)
- Zhao, D., McCoy, A. P., Kleiner, B. M., Mills, T. H., & Lingard, H. (2016). "Stakeholder perceptions of risk in construction". *Safety Science*, 82, pp. 111-119.

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- *Zhao, D., McCoy, A., and Smoke, J. (2015). "Resilient Built Environment: New Framework for Assessing the Residential Construction Market." *J. Archit. Eng.*, 10.1061/(ASCE)AE.1943-5568.0000177, B4015004. **Winner of J. Archit. Eng. 2015 Best Paper Award.**
- *Zhao, D., McCoy, A. P., Kleiner, B. M., and Smith-Jackson, T. L. (2015). "Control Measures of Electrical Hazards: An analysis of the Construction Industry." *Safety Science*, 77, pp. 143-151.
<https://doi.org/10.1016/j.ssci.2015.04.001>
- McCoy, A.P., Koebel, C. T., *Sanderford, A. R., Franck, C. T., & *Keefe, M. (2015). "Adoption of High Performance Housing Technologies Among US Homebuilding Firms 2000-2010." *Cityscape: A Journal of Policy Development and Research*; Vol. 17, Number 2, pp. 157-178.
- Saunders, L. W., Kleiner, B. M., McCoy, A. P., Lingard, H., Mills, T., Blismas, N., & Wakefield, R. (2015). The effect of early supplier engagement on social sustainability outcomes in project-based supply chains. *Journal of Purchasing and Supply Management*.
- Memari, A., Huelman, P., Iulo, L., Laquatra, J., Martin, C., McCoy, A., Nahmens, I., and Williamson, T. (2014). "Residential Building Construction: State-of-the-Art Review." *ASCE Journal of Architectural Engineering*,
[https://doi.org/10.1061/\(ASCE\)AE.1943-5568.000015](https://doi.org/10.1061/(ASCE)AE.1943-5568.000015)
- *Zhao, D., McCoy, A., Bulbul, T., Fiori, C. and *Nikkhoo, P. (2015). "BIM-integrated learning environment for the acquisition of collaborative construction skills." *ASC International Journal of Construction Education and Research*, Volume: 11, Issue: 02, pp. 1-26. <https://doi.org/10.1080/15578771.2014.986251>
- Koebel, C. T., McCoy, A. P., *Sanderford, A. R., Franck, C. T., & *Keefe, M. (2015). "Diffusion of Green Building Technologies in Residential Construction." *Energy & Buildings: An international journal devoted to investigations of energy use and efficiency in buildings*; Volume 97, 15 June 2015, pp. 175–185.
- Sanderford, A., Keefe, M., Koebel, C.T., & McCoy, A. P., (2015). "Factors Influencing U.S. Homebuilders' Adoption of Green Homebuilding Products." *Journal of Sustainable Real Estate*, Volume 7, Number 1, (August 5th, 2015).
- *Zhao, D., McCoy, A., Kleiner, B., and Feng, Y. (2014). "Integrating Safety Culture into OSH Risk Mitigation: A Pilot Study on Electrical Safety." *Journal of Civil Engineering and Management*.
<https://doi.org/10.3846/13923730.2014.914099>
- *Zhao, D., Thabet, W., McCoy, A.P., and Kleiner, B. (2014). "Electrical Deaths in the U.S. Construction: An Analysis of Fatality Investigations." *International Journal of Injury Control and Safety Promotion*, 21(3), pp. 278-288.
<https://doi.org/10.1080/17457300.2013.824002>
- McCoy, A.P. (2013). "High-Efficiency Windows, The Frontier of High Performance Construction." *Cityscape: A Journal of Policy Development and Research*; Vol. 15, Number 3, pp. 273-276.
- *Bhattacharjee, S., Reichard, G., McCoy, A.P. Pearce, A. and Beliveau, Y. (2013). "Identification of Elements to Control and Regulate Residential Energy Consumption." *Advances in Building Energy Research*, Volume 8, Issue 2, pp. 174-195, 2014. <https://doi.org/10.1080/17512549.2013.865552>
- McCoy, A.P., Golparvar-Fard, M. and *Rigby, E.T. (2013). "Reducing Barriers to Remote Project Planning: A Comparison of Low-tech Site Capture Approaches and Image-based 3D Reconstruction." *ASCE Journal of Architectural Engineering*. vol. 20 issue 1, March 2014. [https://doi.org/10.1061/\(ASCE\)AE.1943-5568](https://doi.org/10.1061/(ASCE)AE.1943-5568)
- J.R. Tucker*, A.R. Pearce, R.D. Bruce, A.P. McCoy, T.H. Mills (2012). "The perceived value of green professional credentials to credential holders in the US building design and construction community." *Journal of Construction Management and Economics*: 30 (11), pp. 963-979.
- *Bhattacharjee, S. and McCoy, A.P. (2012). "Energy Efficient Technology Diffusion Factors: A Systematic Review ." *International Journal of Scientific & Engineering Research*, Volume 3, Issue 11, November-2012. ISSN 2229-5518.
- McCoy, A.P., *Saunders, L., Kleiner, B. and Blismas, N. (2012). "Application of Safety Project Interview Data to a Cyclical Research Model of Translation." *ASC International Journal of Construction Research and Education*. Volume: 8, Issue: 04, pp. 260 - 280.
- *Rigby, E.T., McCoy, A.P., Garvin, M. (2012). "Toward Aligning Academic and Industry Understanding of Innovation in the Construction Industry." *ASC International Journal of Construction Research and Education*. Volume: 8, Issue: 04, pp. 243 - 259.
- McCoy, A.P., O'Brien, P.J., Novak, V. and Cavell, M. (2012). "Toward Understanding Roles for Education and Training in Improving Green Jobs Skills Development." *ASC International Journal of Construction Research and Education*. Volume: 8, Issue: 03, pp. 186 - 203.

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- McCoy, A.P., Pearce, A.R. and Ahn, Y. (2012). "Toward Establishing Attributes for Innovative Green Building Products: A Survey of SIPS Builders." *Journal of Green Building*: Volume 7, Number 3.
- McCoy, A. P. Badinelli, R.D. and Thabet, W. (2011). "Validating a Commercialization Model for Innovation in Residential Construction: Industry Case Study Analysis." *Construction Innovation: Information, Process, Management*: Volume 11, Issue 1, pp. 114 - 133.
- McCoy, A. P., Badinelli, R.D., C.T. Koebel and Thabet, W. (2010). "Concurrent Commercialization and New-Product Adoption for Construction Products." *European Journal of Innovation Management*. Volume 13, Issue 2, pp. 222 – 243.
- McCoy, A. P., Badinelli, R.D. and Thabet, W. (2009). "Understanding the Role of Developer/Builders in the Concurrent Commercialization of Product Innovation" *European Journal of Innovation Management*, (2009): Vol. 12, Issue 1, pp.102 – 128.
- McCoy, A. P., Thabet, W. and Badinelli, R.D. (2008). "Toward Establishing a Domain-Specific Commercialization Model in Residential Construction." *Construction Innovation*, (2008): Vol.8, Issue 2, pp.137 – 155.

KEYNOTE TALKS

- McCoy, Andrew (October 22, 2024). "Appalachian Workforce Development for Industrialized Construction," Construction Specifications Institute Blue Ridge Chapter; October 22, 2024: Blacksburg, VA.
- McCoy, A. and Lyon-Hill, S. (December 18, 2023). "Workforce Development for Affordable Housing in Appalachia: Towards a Circular Economy," Virginia Housing Commission, Tuesday, December 18, 2023: Richmond, VA. (first presentation in Virginia's new General Assembly Building)
- McCoy, Andrew (May 3, 2023). "Workforce Housing and Workforce Development," Housing Assistance Council's The Future of Rural Workforce Housing Symposium; May 2-3, 2023: Gatlinburg, TN.
- McCoy, A., Agee, P., Afsari, K. and Gao, X. (November 2022). "Leveraging Technology Towards Affordable Housing in the US Market." Global Conference on Renewable and Non Renewable Energy (GCRNRE2022), Valencia, Spain; November 07-09, 2022. <https://www.pagesconferences.com/2022/renewable-nonrenewable-energy>
- McCoy, A., Agee, P., Afsari, K. and Gao, X. (October 21, 2022) "Leveraging Innovation to Train the Global Workforce in Higher Education." Speaker at Global Housing Foundation's Virtual Conference in support of United Nations Day, October 21, 2021. <https://globalhousing.net/unday2022/>
- McCoy, A., Agee, P., Afsari, K. and Gao, X. (June 2022). "Leveraging Technology Towards Affordability in Construction." Global Summit and Expo on Sustainable and Renewable Energy (GSESRE2022), Copenhagen, Denmark; June 16-18, 2022. <https://www.thescientistt.com/solar-renewable-energy/2022/register.php>
- McCoy, A., Agee, P., Afsari, K. and Gao, X. (March 2022). "Leveraging Technology Towards Affordable Housing in the US Market." Panelist at Nebraska Investment Finance Authority (NIFA) 2022 Housing Innovation Marketplace Conference, La Vista, Nebraska, March 28–30, 2022. https://www.nifa.org/news/view-article/2022_housingconfregister
- McCoy, A., Agee, P., Afsari, K. and Gao, X. (March 2022). "Supporting Construction Innovations to Drive Down Costs." Panel Keynote Speaker for the Terwilliger Center and the Bipartisan Policy Center Housing Supply Series, March 24, 2022.
- Andrew P. McCoy, Ph.D (October 25, 2021) "The Future of Workforce Housing is Now: Innovative, Creative & Sustainable Solutions from Around the World." Panelist at Global Housing Foundation United Nations Day Program, October 25, 2021. <https://globalhousing.net/unday2021/>
- Derek Davis, Andrew P. McCoy, Ph.D., and Angela Palmer (Oct. 8, 2020) "Construction Tech: Tools or Toys?" Panel at CRE. Converge Virtual 2020, October 8, 2020.
- Marion Cake, Pete Gombert, Andrew McCoy and John Weldy (Oct. 8, 2020). "Innovation in Design, Construction, and Delivery," Panel at The Manufactured Home Community Coalition of Virginia (MHCCV) Symposium, October 8, 2020.
- McCoy, A., Zhao, D., Agee, P., Mo, L., Paige, F. and Reichard, G. (October 2019). "Leveraging Technology Towards Affordable Housing in the US Market." Keynote at International Congress on Engineering and Sustainability in the XXI Century – INCREESE 2019, Faro, Portugal, October 7-11, 2019.
- McCoy, A. P. (September 2019). Innovative Technologies for Virginia's Affordable Housing Stock, presented to the Virginia Housing Commission and Legislature; Richmond, Va., September 2019.

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- Martin, C. and McCoy, A., Weston, T. and Luzier, M. (June 2019). "Building Even Better Homes: Strategies for Promoting Innovation in Homebuilding." A Plenary Talk for The US Department of Housing and Urban Development (HUD) Office of the Secretary's Innovation Showcase. June, 2019.
- McCoy, Andrew (September 17th, 2018). "Fundamentals of Systematic Reviews: Value and Process for Advancing Your Career Trajectory." NLI Panel Discussion for University Libraries, Virginia Tech, September 17th, 2018.
- McCoy, Andrew (September 14th, 2018). "Sustaining Sustainability: The Role of Residents in Energy Efficiency." Principal's Tea in the Honors Residential Commons at Virginia Tech, September 14th, 2018.
- McCoy, A., Zhao, D., Agee, P., Mo, L., Paige, F. and Reichard, G. (2017). "Toward the future of housing efficiency: leveraging technology, behavior, education and cost." Keynote at INternational CongREss on Engineering and Sustainability in the XXI cEntury – INCReASE 2017, Faro, Portugal, October 11-13, 2017.
- Agee, P., McCoy, A., Paige, F., Zhao, D. and Y. Mo. (2017). "Sustaining Energy Efficiency: Longitudinal Evidence of Virginia's Low-Income Housing Tax Credit Properties." Virginia Housing Alliance 5th Annual Housing Credit Conference, Richmond, VA, September, 25-26.
- McCoy, Andrew P. (April 20, 2017). "Leveraging Partner Success Toward Economic, Environmental, and Structural Sustainability." Opening Plenary for the Viridian 8th Annual Sustainable Leadership Awards: Richmond, Virginia, April 20, 2017.
- Clower, Terry, Jones, Mel, McCoy, Andrew P. and Pearson, Roy (2016). "Opening the Door to Economic Opportunity Through Housing." Opening Plenary for the Virginia Governor's Housing Conference, November 16, 2016: Roanoke, VA.
- McCoy, Andrew P. and Zhao, Dong (June, 2015). "Market Behavior Effects on Innovative Green Building Technologies for US Residential Firms" presented at Southwest Jiao Tong University: Chengdu, China, June 9th, 2015.
- Zhao, Dong, and McCoy, Andrew P. (June, 2015) "Uncertainty Management and Risk Mitigation in Building Design and Construction", Southwest Jiaotong University, Chengdu, China, June 9th, 2015.
- McCoy, Andrew P. and Zhao, Dong (June, 2015). "Toward the Future of Housing: Leveraging Technology and Efficiency" presented at Chongqing University: Chongqing, China, June 11th, 2015.
- Zhao, Dong, McCoy, Andrew P., and Wang, Zhulin (June, 2015). "The Game Changer: BIM's Worldwide Implementation", presented at Chongqing University: Chongqing, China, June 11th, 2015.

INVITED SCHOLARLY TALKS

- Urban, M.; McCoy, A.; Simpson, K.; and Derringer, S. (November 9, 2023). "Shaping the Future: The Promise and Potential of 3D Printed Housing". An Original Town Hall Event presented by Essent Guarantee, Thursday November 9th, 2023.
- McCoy, A. (August 30, 2023). "Supporting Innovations to Drive Down Housing Costs," Presented to the Housing Supply Accelerator, a partnership of National League of Cities and American Planning Association, Wednesday, August 30, 2023.
- Afsari, K., McCoy, A., and Agee, P. (August 8, 2023). "Concrete Printing and Construction Robots," University of Chile Webinar Series, Tuesday, August 8th, 2023.
- McCoy, A., Jones, M. and Lyon-Hill, S. (March 24, 2023). "Affordable Housing and Workforce Development Panel," Coming Back Home: CVRHP's 2nd Annual Housing Summit, Fri, March 24, 2023: Charlottesville, VA.
- McCoy, A., Agee, P., Afsari, K. and Gao, X. (October 2022). "Leveraging 3D Concrete Printing (3DCP) Technology Towards Affordable Housing Market Needs." Research Lecture Series at University of Denver's Burns School of Real Estate; October 14, 2022.
- Agee, P., Nikdel, L., & McCoy, A. (2022). "Innovations in Manufactured Housing." 2022 VAMMHA Convention and Annual Meeting, The Hotel Roanoke and Convention Center, August 10 – 12, 2022.
- McCoy, A., Agee, P., Afsari, K. and Gao, X. (May 2022). "Housing Best Practices - 3D Printed Homes and Modular Homes." FEMA Region 1 Affordable Housing Solutions Roundtable; May 17th, 2022.
- McCoy, A., Agee, P., Afsari, K. and Gao, X. (February 2022). "Leveraging 3D Concrete Printing (3DCP) Technology Towards Affordable Housing Market Needs." Guest Lecture at Harvard's Graduate School of Design; February 23, 2022.
- Mannheimer, Z. and McCoy, A. (November 12, 2021). "3D Concrete Printing to Save the Planet." Presentation at the Virginia Governor's Housing Conference, Norfolk, VA; November 12, 2021.

Andrew Patton McCoy, Ph.D.

- McCoy, A., Agee, P., Afsari, K. and Gao, X. (September 2021). "Leveraging Technology Towards Affordable Housing in the US Market." Freddie Mac's VT Speaker Series Webinar (September 16, 2021 at 12pm).
- Andrew McCoy, Virginia Tech; Susan Klein-Rothschild, Stanford; Hailey Temple, Mural; Jeff Heilman, Oracle; Vishal "AJ" Amin, Microsoft (March 24th, 2020). "Adapt & Overcome: Organizational transformation to a remote-work model during the COVID-19 pandemic." altRPO Webinar Series (March 24th, 2020 at 2:00 pm).
- McCoy, Andrew P. (April 20, 2017). "Toward the Future of Housing: Leveraging Technology and Efficiency." The Viridiant 8th Annual Sustainable Leadership Awards: Richmond, Virginia, April 20, 2017.
- Jones, Mel and McCoy, Andrew P. (September, 2015). "Virginia's Housing Economy." Virginia Senate Finance Committee: Richmond, Virginia, September 17th, 2015.
- McCoy, Andrew P. and Clower, Terry (September, 2015). "Addressing the Importance of Housing for Virginia's Economy." Housing Policy Advisory Committee: Richmond, Virginia, September 1st, 2015.
- McCoy, A.P. (2015). "Making Sense of Energy Efficient Housing." Virginia Housing Coalition, Richmond, VA, June 3rd, 2015.
- McCoy, A.P. (2015). "Preliminary Observations on the 2013 WDMA U.S. Architectural Door Industry Statistical Report." Executive Committee of the Window and Door Manufacturer's Association, Baltimore, MD, April 29, 2015.
- McCoy, A.P. and Morrison, T. (2014). "Market Intelligence for the US Window and Entry Door and Architectural Door Industry." Executive Committee of the Window and Door Manufacturer's Association, Cambridge, MA, October 1, 2014.
- McCoy, A.P. (2014). "The US Window and Entry Door and Architectural Door Industry Study." Marketing Committee of the Window and Door Manufacturer's Association, Chicago, IL, September 18, 2014.
- McCoy, A.P. (2014). "Preliminary Observations on the 2013 WDMA U.S. Window & Door Industry Statistical Report." Executive Committee of the Window and Door Manufacturer's Association, Crystal City, VA, March 31, 2014.
- McCoy, A.P. (May 16, 2012). "The Future of Technology in Affordable Housing." Presented at HUD's Research Agenda Conference on Design, Construction and Building Technologies. The Office of Policy Development & Research (PD&R) in the Department of Housing and Urban Development (HUD), May 16, 2012, L'Enfant Plaza, Washington D.C.
- Kleiner, B. and McCoy, A.P. (2011). "Introducing Myers-Lawson School of Construction and Occupational Safety and Health Research Center." NAHB Construction Safety Training, Education and Research Committee: Orlando, FL: January 10th, 2011.
- Koebel, C.T., Cavell, M., Sanderford, D. and McCoy, A.P. (2011). "Sourcebook of Measuring Housing Affordability." CAUS Bi-Annual Research Symposium, Panel Discussion: Blacksburg, VA: February 17-18, 2011.
- McCoy, A.P. (August 5, 2010). "lumenHAUS: A Responsive Architecture." Presented at Blacksburg Rotary Club, August 5, 2010, Blacksburg, VA.
- McCoy, A.P. Dunay, R., Schubert, R., and Wheeler, J. (October 12-14, 2010). "lumenHAUS: A Responsive Architecture." Presented at The Governor's Conference on Energy, October 12-14, 2010, Richmond, VA.
- McCoy, A.P. (April 2, 2010). "lumenHAUS: A Responsive Architecture." Presented at High Octane, What's Next? Symposium: Southern Polytechnic State University, April 2, 2010, Marietta, GA.
- Wheeler, J., Dunay, R., Schubert, R. and McCoy, A.P. (July, 2009). "lumenHAUS: A Discussion of Opportunities for the Economic, Community, and Workforce Development of the Commonwealth." Presented to Pat Gottschalk, The Secretary of Commerce and Trade; Commonwealth of Virginia.
- Wheeler, J., Dunay, R., Schubert, R. and McCoy, A.P. (July, 2009). "lumenHAUS: A Discussion of the Future of Energy-efficient Housing." Presented to Creigh Deeds, The Democratic Gubernatorial Candidate; Commonwealth of Virginia.
- Koebel, C.T. and McCoy, A.P. (May, 2007). "Beyond First Mover Advantage: The Characteristics, Risks and Advantages of Second Mover Adoption in the Home Building Industry." Proceedings of the American Real Estate and Urban Economics Association (AREUEA) Conference: Washington D.C; May 2007.

REFEREED CONFERENCE PROCEEDINGS *denotes graduate student in an advisee role

- *Babajaniniashirvani, V., Afsari, K., and McCoy, A (2024, July 28) "Investigating Key Competencies for 3D Concrete Printing in Affordable Housing." ASCE International Conference on Computing in Civil Engineering; Pittsburgh, PA, July 25-28, 2024.

Andrew Patton McCoy, Ph.D.

- Kereshmeh Afsari, *Vida Babajaniniashirvani and Andrew McCoy. (May 26, 2024). "3D Concrete Printing (3DCP) Education in the United States." Proceedings of 60th Annual Associated Schools of Construction International Conference, Tom Leathem, Wesley Collins and Anthony J. Perrenoud (editors). vol 5, pages 39--47.
<https://easychair.org/publications/paper/x2gZ>
- McCoy, A., Vieira, M.; Oliveira, M.J.; *Yanamala, A.; and Agee, P. (July 2023). "3D Concrete Printing: Factors Affecting the US and Portugal." International Congress on Engineering and Sustainability in the XXI Century – INCReASE 2023, Faro, Portugal, July 5-7, 2023.
- *Barnes, A., McCoy, A., Warnick, Q. and Bowen, B. (April 2023). "Evaluating the Quality of Experience of Supplemental Instructional Videos" 2023 Associated Schools of Construction (ASC) Annual Conference; Liverpool, UK, April 3-5, 2023.
- *Barnes, A., McCoy, A., Warnick, Q. and Bowen, B. (June 2023). "The Effectiveness of Supplemental Instructional Videos in Construction Education" 2023 Associated Schools of Engineering Education (ASEE) Annual Conference & Exposition; Baltimore, MD, June 25-28, 2023.
- *Yeganeh, A. J., McCoy, A. P., Jazizadeh, F., Pearce, A., Goldsmith, D. (2020). An Instrument for Evaluation of Interdisciplinary Laboratory Environments in AEC Programs. Proceedings of the Annual Associated Schools of Construction Conference (ASC), Birmingham, England.
- *Agee, P., McCoy, A., Reichard, G., Kleiner, B., Zhao, D., & Paige, F. (2019). "Human Factors of High Performance Multifamily Housing." Proc. ASHRAE 2019 Winter Conference. Atlanta, GA, 12-19 January.
- *Agee, P., Paige, F., McCoy, A., and Kleiner, B. (2018). "Macroergonomics: A Path to Understanding Net-Zero Energy Builder-developers." BEHAVE 2018: 5th European Conference on Behaviour and Energy Efficiency. Zurich, Switzerland, September 6-7.
- McCoy, A.P., Zhao, D., *Agee, P., Mo, Y., Paige, F. and Reichard, G. (August 2018) "Energy consumption, capital costs and paybacks of green buildings for low-income households in the United States: A longitudinal study." 8th International Symposium on Energy; Aberdeen, Scotland, United Kingdom, August 6-9, 2018.
- *Agee, P., McCoy, A., Zhao, D., Mo, Y., and Paige, F. (2018). "Multifamily Housing: Perspectives from a multi-year study evaluating rated versus measured performance." RESNET Building Performance Conference. Orlando, FL. February, 26-28.
- Martin, C., McCoy, A., Paige, F. and Latham, S. (February 2018). "Housing Technology and the Contemporary Policy Context in the U.S." Proceedings of the 4th Residential Building Design and Construction Conference (RBDCC 2018); Bethlehem, PA, February 28 - March 1, 2018.
- Paige, F., *Agee, P., Zhao, D., McCoy, A. (February 2018). "The Longitudinal Impact of Energy Education on Affordable Energy Efficient Multifamily Housing Units" Proceedings of the 4th Residential Building Design and Construction Conference (RBDCC 2018); Bethlehem, PA, February 28 - March 1, 2018.
- *Agee, A., Reichard, G. McCoy, A., Kleiner, B. and Hamm, T. (February 2018). "Closing the Post-Occupancy Performance Gap in Zero Energy Housing." Proceedings of the 4th Residential Building Design and Construction Conference (RBDCC 2018); Bethlehem, PA, February 28 - March 1, 2018.
- *Agee, P., Reichard, G., & A. McCoy. (2018). "Longitudinal Evidence of Inverter-Driven Heat Pump Performance in Low-Load Residential Buildings." Proc. ASHRAE 2018 Winter Conference. Chicago, IL, 20-24 January.
- Mo, Y., Zhao, D., McCoy, A., Du, J., and Agee, P. (2017). Latent Relationship between Construction Cost and Energy Efficiency in Multifamily Green Buildings, Computing in Civil Engineering 2017.
- McCoy, A., Zhao, D., and Agee, P. (2016). Impacts of Housing Technology and Behavior on Energy Efficiency for Housing in Virginia. International Association of Housing Science (IAHS) 41st IAHS World Congress on Housing: September 13th-16th, 2016; Albufeira, Portugal.
- McCoy, A. and Koebel, T. (2016). Mixed Public Policy and Market Provision of Affordable Housing: Building, Cost and Program Considerations. International Association of Housing Science (IAHS) 41st IAHS World Congress on Housing: September 13th-16th, 2016; Albufeira, Portugal.
- Zhao, D., McCoy, A., and Kleiner, B. (2016) Do Designers and Builders Share a Similar Understanding of Occupational Safety and Health Risks? Construction Research Congress 2016: pp. 2821-2830. doi: 10.1061/9780784479827.281
- Zhao, D., McCoy, A., and Sanderford, A. (2016). "Homebuilder's confidence: a new index of land, labor, capital, and opportunities." American Real Estate Society's Annual Conference, Denver, Colorado, March 29 - April 2, 2016.

Andrew Patton McCoy, Ph.D.

- Zhao, D., McCoy, A., & Du, J. (2016). "An Empirical Study on the Energy Consumption in Residential Buildings after Adopting Green Building Standards." International Conference on Sustainable Design, Engineering and Construction, Tempe, Arizona May 18 - 20, 2016.
- Zhao, D., McCoy, A. P. and Kleiner, B. M. (2016). "Do Designers and Builders Share Similar Understanding of Occupational Safety and Health Risks? An Experimental Study." The Construction Research Congress (CRC2016); San Juan, Puerto Rico, May 31 - June 2, 2016.
- Wang, Zhulin, Bulbul, Tanyel and McCoy, Andrew (October, 2015). "A Comparative Case Study for Using COBie in Project Turnover." Proceedings of CIB W78 Conference, Eindhoven, The Netherlands, October 27th-29th 2015.
- Albassami, A. and McCoy, A.P. (2015). "Literature-Based Framework for International Commercialization of Product Innovation in Residential Construction." Proceedings of the Advances in Business-Related Scientific Research Conference (ABSRC), Venice, Italy, March 25-27, 2015.
- McCoy, A.P., Agee, P. and Adams, R. (October 2014). "Energy Efficiency in Affordable Rental Housing." Concurrent Session of Creating Healthy Communities Virginia Governor's Housing Conference; Norfolk, VA, October 29-31, 2014.
- *Short, K., Fiori, C., Pearce, A., Bulbul, T. and McCoy, A.P. (June, 2014). "The Influence of Internship Participation on Construction Industry Hiring Professionals When Selecting New Hires and Determining Starting Salaries for Construction Engineering Graduates." Proceedings of the American Society for Engineering Education Annual Conference (ASEE); Indianapolis, IN, June 14-17, 2014.
- Wakefield, R., Lingard, H., Blismas, N., Pirzadeh, P., Kleiner, B., Mills, T., McCoy, A. and Saunders, L. (June, 2014). Construction Hazard Prevention: The Need to Integrate Process Knowledge into Product Design." Proceedings of CIB W099 Achieving Sustainable Construction Health and Safety, Lund, Sweden, 2-3 June 2014.
- *Sanderford, A., *Keefe, M., Koebel, C. T., & McCoy, A. P. (2014). "Complementarity: Evidence from US Home Builders' Green Technology Use 2000-2010." Proceedings of the Conference of the American Real Estate Society; San Diego, CA, April 1-5, 2014. Won the conference's best paper prize for the topic of Sustainable Real Estate which is sponsored by the NAIOP Research Foundation.
- *Matthew Keefe, Andrew McCoy, Drew Sanderford, & *Dong Zhao (February 2014). "Adoption Patterns of Energy Efficient Housing Technologies 2000-2010: Builders as Innovators." Proceedings of the 2nd Residential Building Design and Construction Conference (RBDCC 2014); Bethlehem, PA, February 18-19, 2014.
- *Oluwateniola Ladipo, Andrew McCoy, Annie Pearce and Georg Reichard (February 2014). "An Effort to Refine Regional Energy Assessment Methods in Support of Energy Auditors to Increase Assessment Accuracy and Consumer Confidence." Proceedings of the 2nd Residential Building Design and Construction Conference (RBDCC 2014); Bethlehem, PA, February 18-19, 2014.
- McCoy, A.P., Koebel, C.T. and *Sanderford, A.R. (May 2013). "Narrowing the Chasm: Agile Patterns of Adoption and Diffusion of Innovation in the US Housing Industry from 2000-2010." Proceedings of the Ewing Marion Kaufman Foundation 2013 Industry Studies Conference; Kansas City, MO, May 28-31, 2013.
- *Sanderford, A., Koebel, C. T., & McCoy, A. P. (2013). "Bridging the green housing information chasm." Proceeding of the Conference of the American Real Estate Society; Kohala Coast, HI, April 9-13, 2013.
- *Nikkhoo, P., McCoy, A.P., Koebel, C.T. and *Sanderford, A.R. (February 2013). "Adoption of Innovative Products in the US Housing Industry: Builders' Practices 2000-2010." Proceedings of the 1st Residential Building Design and Construction Conference (RBDCC 2013); Bethlehem, PA, February 20-21, 2013.
- *Sanderford, A.R., Koebel, C.T. and McCoy, A.P. (November 2012). "Patterns of Adoption and Diffusion of Innovation in the US Housing Industry: High Performance Building Product Use from 1995-2010." Proceedings of the Association of Collegiate Schools of Planning (ACSP) 53rd Annual Conference, Cincinnati, OH; (2013).
- McCoy, A. P., Koebel, C. T., and Sanderford, A. R. (May 2012). "Establishing A Long-Term Research Agenda on Design, Construction and Technology: A Framing Paper for PD&R Research Conference." Department of Housing and Urban Development, Office of Policy Development and Research, Ed. Washington, D.C.
- *Saunders, L.W., Kleiner, B.M., McCoy, A.P., Mills, T., Cooke, T., Lingard, H., Blismas, N., and Wakefield, R. (May 2012). "Identifying Safety Critical Decision Points in the Construction Project Lifecycle", Proceedings of the Industrial and Systems Engineering Research Conference, (May 2012).
- *Bhattacharjee, S. and McCoy, A.P. (2011). "Factors Affecting the Diffusion of Energy Efficient Technologies." Proceedings of the Industrial Engineering Research Conference (IERC), Reno, NV, May 21-15.

Andrew Patton McCoy, Ph.D.

- McCoy, A.P., *Lilly, J., Blismas, N., and Lingard, H. (2011). "Application of OSHRC Granata Pilot Projects to r2p2r Cyclical Research Translation Model." Proceedings of CIB W099 Conference: Prevention - Means to the End of Safety and Health Injuries, Illnesses, and Fatalities, Washington, DC, August 24-26.
- Pearce, A.R., McCoy, A.P., Smith-Jackson, T., Edwards, M., Pruden, A., and Bagchi, R. (2011). "Designing a Sustainable Built Environment: A Hazards Analysis and Critical Control Points (HACCP) Approach." Proceedings of CIB W099 Conference: Prevention - Means to the End of Safety and Health Injuries, Illnesses, and Fatalities, Washington, DC, August 24-26.
- *Saunders, L.W., McCoy, A.P., Kleiner, B.M., Mills, T., Cooke, T., "How Do Project Manager's View Construction Safety in Australia Versus the United States?" Proceedings of CIB W099: International Council for Research and Innovation in Building and Construction, August 2011
- *Saunders, L.W., Kleiner, B.M., Mills, T., McCoy, A.P., Linguard, H., Blismas, N., and Wakefield, R., "Safety Decision Points in the Construction Supply Chain," Proceedings of the Industrial Engineering Research Conference, May 2011
- McCoy, A.P., Schubert, R., Dunay, R., and Wheeler, J. (2010). "lumenHAUS: Uses and Benefits of ICT for Educational Achievement and Market Advantage." Proceedings of CIB W78 Conference: 27th Annual Conference on Applications of IT in AEC Industry and BIM Research Workshop, Cairo, Egypt, November 16-19.
- *Taiebat, M., Ku, K. and McCoy, A.P. (2010). "BIM in Integrated Learning Environments for Construction: A Student Perspective." Proceedings of EcoBuild America Conference: Implementing BIM into the Higher Education Curriculum-Focused BIM Courses, Washington, DC, December 7, 2010.
- *Nandgaonkar, C.A, Mills, T.H. and McCoy, A.P. (2010). "The iBuilder Wheel: A Decision Making Tool to Aid in the Selection of Innovative Residential Construction Strategies." Proceedings of the Associated Schools of Construction Conference: Wentworth Institute of Technology; Boston, MA (2010).
- McCoy, A.P. (April, 2009). "Towards Establishing an Innovativeness Index for Construction Sites." Construction Research Congress, Seattle, Washington: April 2009.
- Blismas, N., McCoy, A.P. and Lingard, H. (2009). "Academic arrogance or industry intransigence: Innovation inertia in the construction industry." Global Innovation in Construction Conference Proceedings, Loughborough, England:13-16 September 2009.
- McCoy, A. P., Badinelli, R.D. and Thabet, W. (September, 2006). "Establishing a Framework for Commercializing Innovation in the Residential Construction Industry." Proceedings of the 6th European Conference on Product and Process Modeling (ECPPM): Valencia, Spain; September 2006.
- Pearce, A.R. and McCoy, A.P. (May, 2007). "Creating an Educational Ecosystem for Construction: A Model for Research, Teaching and Outreach Integration." Proceedings of the Construction Research Congress, Bahamas, USVI: May 2007.
- McCoy, A. P., Badinelli, Ralph B. and Thabet, Walid (September, 2008). "Concurrent Commercialization and New-Product Adoption for Construction Products." Proceedings of the RICS COBRA Conference, Dublin, Ireland: September 2008.
- Gangwar, S. S. and McCoy, A. P. (September, 2008). "Establishing an Interactive Resource Application for Commercialization of BIM." Proceedings of the RICS COBRA Conference, Dublin, Ireland: September 2008.

PROFESSIONAL PUBLICATIONS

- Nicole Jacobsen, Santiago Ossa, Christopher Rausch, Jisang Lee, Jeehoon Kim, Nirjara Bongurala, Andrew McCoy, Tanyel Bulbul, and Vida Babajaniniashirvani (December 2024). "Housing Production in Texas: Mapping the Value Chain and Evaluating the Role of Industrialized Construction." For The US Department of Housing and Urban Development by The Equitable Technologies for Housing Innovation Center (ETHIC): a HUD Hispanic Serving Institution Center of Excellence, December 2024.
- Jisang Lee, Jeehoon Kim, Nirjara Bongurala, Christopher Rausch, Vida Babajaniniashirvani, Andrew McCoy, Santiago Ossa, Nicole Jacobsen, Tanyel Bulbul (September 2024). "Industrialized Construction Technology for the Housing Supply Chain: An Academic Review Report." For The US Department of Housing and Urban Development by The Equitable Technologies for Housing Innovation Center (ETHIC): a HUD Hispanic Serving Institution Center of Excellence, September 2024.
- McCoy, Andrew (April 2024). "Building the future: How workforce development can make Southwest Virginia an industrialized housing construction hub." VTC: Virginia Town and City Magazine, the Magazine of the Virginia Municipal League; Volume 59, Number 3, April 2024.

Andrew Patton McCoy, Ph.D.

- McCoy, Andrew P. and Yeganeh, Armin J. (March 2021). "An Overview of Emerging Construction Technologies." NAIOP, *Commercial Real Estate Development Association and Research*. Washington, D.C.
- Martin, C. and McCoy, A. (June 2019). "Building Even Better Homes: Strategies for Promoting Innovation in Homebuilding." A Report by Urban Institute and the Virginia Center for Housing Research for The US Department of Housing and Urban Development (HUD) Office of the Secretary. June, 2019.
- Jones, M., McCoy, A., Clower, T., Sanchez, T., Swan, S., Pearson, R, Suen, I. and Howell, K.(2017). "Addressing the Impact of Housing For Virginia's Ecopnomy." A Report by the Virginia Coalition of Housing and Economic Development Researchers for The Housing Policy Advisory Committee of the Office of the Governor of Virginia. November 15, 2017.
- McCoy, A. Zhao, D., Agee, P., Mo, Y., & Paige, F. (2017). "Educating for Energy Efficiency: Longitudinal Evidence of Sustained Energy Savings in Virginia's Affordable Housing." A Report by the Virginia Center for Housing Research (VCHR) at Virginia Tech for Housing Virginia. October 6, 2017.
- Trachtenberg, A., Hill, S., Lapido, T. and McCoy, A.P. "The Impact of Green Affordable Housing: LEED for Homes and Green Building Certification Costs in the Southeast." Greenbuild International Conference and Expo: Washington D.C.; Nov. 18-19, 2015.
- McCoy, A.P., Agee, P., Adams, B., Koebel, C. T., Franck, Koebel, C. T., *Scott, S., *Ladipo, T. and *Zhao, D. (2015). "The Impact of Energy Efficient Construction for LIHTC Housing in Virginia." A Report by the Virginia Center for Housing Research (VCHR) at Virginia Tech for Housing Virginia. February 10, 2015.
- Lewis, J., McCoy, A.P., Franck, C. and *Keefe, M. (2014). "WDMA Window and Entry Door Industry US Pulse Report 2014." Window and Door Manufacturer's Association, Chicago, IL, October 24, 2014.
<http://archive.constantcontact.com/fs131/1102482301929/archive/1118969357022.html>
- *Drew Sanderford, Kevin Boyle, Andrew McCoy, Weibin Xu and Melissa Jones (2014). "2014 Virginia Residential Real Estate Appraiser Remuneration: Survey and Report." Prepared for the Virginia Coalition of Appraisal Professionals, October 9, 2014. <http://www.vchr.vt.edu/appraising-appraisals-new-study-released-on-remuneration-for-real-estate-appraisals-in-virginia/>
- Lewis, J., McCoy, A.P., Franck, C. and *Keefe, M. (2014). "WDMA Window and Entry Door Industry 2014 US Market Study." Window and Door Manufacturer's Association, Chicago, IL, June 1, 2014.
<http://www.wdma.com/?page=MarketStudy>
- McCoy, A.P. (2013) "Toward a New Model of Service Management for Electrical Contractors." ELECTRI International Research Report, 2013. <http://www.electri.org/research/toward-new-model-service-management-electrical-contractors>
- McCoy, A.P., O'Brien, P.J., *Novak, V. and Cavell, M. (2012). "Towards Understanding Roles for Education and Training in Improving Green Jobs Skills Development." Created for CREATES Southwest Virginia Grant, Community Housing Partners.
- McCoy, A. P. (2011). "Review of Factory Design for Modular Homebuilding: Equipping the Modular Factory for Success by Michael A. Mullens. Winter Park, FL: Constructability Press, 2011." ASCE Journal of Architectural Engineering. 18(2), 198-198(2012).

RECENT MAGAZINE PUBLICATIONS (Please view all work since 2011 at the [EC Magazine Website](#))

- "Selling Electrical Service Agreements Has Never Been Easy. Electrical Service & Maintenance 2.0 Can Change That." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, January, 2024.
- "The Incredible Power of Weak Relationships. Their Surprising Influence on Workforce Development in Service & Maintenance." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, February, 2024.
- "Emerging Markets in Service & Maintenance. An Open Secret to Building the Value of Your Company." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, March, 2024.
- "The Future of Smart Lighting and What It Could Mean to Electrical Contractors. A Conversation with Brad Koerner, Award-Winning Lighting Designer, Amsterdam, Netherlands." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, April, 2024.
- "Coffee Break with Brenda Henwood, President/CEO of FTBA, Valencia, PA. Service & Maintenance Will Never Be Safe." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, May, 2024.
- "Gaining a Competitive Edge in NFPA 70B Maintenance. This New NETA Program Will Verify the Qualifications of Contractors and Electricians." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, June, 2024.

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- "New Construction is Only the Beginning. There's Much More Business in What Follows." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, June, 2024.
- "Coffee Break with Sam Houchins, Safety Director/HR Manager, Chewning & Wilmer, Richmond, VA." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, August, 2024.
- "Coffee Break with Brian DiBella, CEO & President, Legrand North and Central America. An Upbeat Look at the Electrical Industry." By Andrew P. McCoy and Fred Sargent for Line Contractor Magazine, September, 2024.
- "Four New Guidelines to Success in Service & Maintenance." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, October, 2024.
- "A New Category of Electrical Business. Kroon Electric Created It in Canada and Is Replicating It in the US" By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, November, 2024.
- "A Great Holiday Gift for You and Your Family, Especially for Electrical Service & Maintenance Contractors." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, December, 2024.
- "The Electrification of Everything: Six Big Takeaways for Electrical Contractors." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, January, 2023.
- "A Wonder Drug for Service Electricians; What It Could Mean to Everyone." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, February, 2023.
- "An Exciting New Look at Building Automation: Our Interview Guest Became a National Celebrity Just Weeks Ago." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, March, 2023.
- "EXCLUSIVE FOR MILLENNIALS: Here's a Perfect Career-Building Opportunity! Learn Wireless Lighting Control Systems Via Gamification." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, April, 2023.
- "Coffee Break with Patrick Stewart, President, TMX Compliance. How to Avoid a Common Service & Maintenance Safety Risk: The Answer is on Every Milk Carton." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, May, 2023.
- "The Barber's Secret to Guaranteed Recurring Revenues. It's Not Enough That Everyone Routinely Needs a Haircut." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, June, 2023.
- "Coffee Break with Cathy Lagomarsino and Caren Ferrari at ASF Electric; Their Simple Secret to Tackling New Technologies." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, July, 2023.
- "Introducing Electrical Service & Maintenance 2.0; It Will Bring a Bold New Dimension to the Business." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, August, 2023.
- "How to Make the Most of the NECA Show; Hint: Pretend It's a Vacation at a Luxury Resort." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, September, 2023.
- "The Carrington Event: The Great Geomagnetic Storm of September 1859. If It Reoccurred Today, It Would Destroy Electrical Systems Worldwide." By Andrew P. McCoy and Fred Sargent for Line Contractor Magazine, September, 2023.
- "The Expanding Universe of Emerging Markets: What NASA Can Teach Us About Exploring Them." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, October, 2023.
- "The Flip Side of Electrical Construction." By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, November, 2023.
- "Find a Need and Fill It" By Andrew P. McCoy and Fred Sargent for Electrical Contractor Magazine, December, 2023. https://www.ecmagdigital.com/ecmag/library/page/electrical_contractor_december_2023/26/

EXHIBITIONS OF WORK

- Wheeler, J., Dunay, R., Schubert, R. and McCoy, A.P. (June, 2010). "US Department of Energy Solar Decathlon Europe 2010" Student Exhibition, June 18 - 27, 2010. Villa Solar, Madrid, Spain. www.sdeurope.org
- McCoy, A.P. and Fiori, C. (September 18, 2009) "Pass Christian, Mississippi: Architecture of Relief." Roanoke Technology Exposition. Roanoke, VA.
- Wheeler, J., Dunay, R., Schubert, R. and McCoy, A.P. (October, 2009). "US Department of Energy Solar Decathlon 2009" Student Exhibition, October 8 – 13, 2009. The Capitol Mall, Washington, D.C. www.solardecathlon.org/about.cfm
- Wheeler, J., Dunay, R., Schubert, R. and McCoy, A.P. (September, 2009). "Green Communities Related Programming: lumenHAUS" Exhibit, September 5 – September 30, 2009. The National Building Museum: Washington, D.C. www.nbm.org/exhibitions-collections/exhibitions/green-community/green-community.html

Andrew Patton McCoy, Ph.D.

Wheeler, J., Dunay, R., Schubert, R. and McCoy, A.P. (June, 2009). "Eclipsis/ lumenHAUS" Exhibit, June 12 – August 23, 2009. Taubman Museum of Art: Roanoke, Virginia. www.lumenhaus.com McCoy, A.P. and Fiori, C. Student International Service Activity Showcase exhibition for "Paul Farmer, A Call to Global Citizenship and Service: Partnerships that make a Difference." April 27, 2009.

*Bhattacharjee, S., Reichard, G. and McCoy, A.P. (August 12th-14th, 2009): "Factors Affecting the Diffusion of Energy Efficient Technologies." International Energy Program Evaluation Conference (IEPEC) Poster presentation, Portland, Oregon: August 12th-14th, 2009.

McCoy, A.P. and Fiori, C. Student International Service Activity Showcase exhibition for "Paul Farmer, A Call to Global Citizenship and Service: Partnerships that make a Difference." April 27, 2009.

PROFESSIONAL SERVICE

- 2024: Scientific Committee Member of *HACBAC2025: The 6th Ibero-American Congress on Special Concretes (concrete and sustainability)*.
- 2019: Scientific Committee Member of *INCREESE: International Conference on Engineering and Sustainability in the XXI Century*.
- 2017: Scientific Committee Member of *INCREESE: International Conference on Engineering and Sustainability in the XXI Century*.
- Since 2012: Scientific Committee Member of *Pennsylvania State University's Residential Design and Building Construction Conference*.
- 2016 - 2021: Editor-in-Chief of ASC's *International Journal of Construction Education and Research*.
- 2016: Scientific Committee Member of *41st IAHS World Congress*.
- 2014-2015: Associate Editor of ASC's *International Journal of Construction Education and Research*.
- 2012-2014 Chair of *National Consortium of Housing Research Centers*.
- 2010-2012 Vice Chair of Technology Transfer of *National Consortium of Housing Research Centers*.
- Session Chair (2010). "Managing IT Adoption." Proceedings, CIB W78 Conference 2010: 27th Annual Conference on Applications of IT in AEC Industry and BIM Research Workshop, Cairo, Egypt, November 16-19.
- Since 2009: Reviewer of *Construction Innovation Journal*.
- January - May, 2009: Pass Christian, Mississippi: An Architecture of Relief. Coordinated 5 students in a design build studio for the aid of a local non-profit organization called "Project Reclaim," which provides inexpensive housing solutions to those displaced by Hurricane Katrina.
- January - May, 2009: Our Lady of Bella Vista: An Architecture of Relief. Coordinated 5 students in a design build studio for the aid of a local non-profit organization called "Peaceworks," which provides inexpensive housing solutions to those in need in Belize.
- Since 2009: Reviewer of *Journal of Construction Management and Economics*.
- April 27, 2009: Faculty Co-Sponsor Student International Service Activity Showcase presentation for "Paul Farmer, A Call to Global Citizenship and Service: Partnerships that make a Difference."
- Since 2009: Editorial Review Board Member of *Royal Institute of Chartered Surveyors RICS International COBRA Conference*.
- Since 2008: Reviewer of *Proceedings of the RICS COBRA Conference*.
- Since 2008: Reviewer of *Proceedings of Construction Research Congress*.
- Since 2008: Reviewer of *Proceedings of Associated Schools of Construction 45th Annual Conference*.

SCIENTIFIC AND PROFESSIONAL SOCIETIES

- National Consortium of Housing Research Centers (NCHRC)- Past Chair
- American Society of Civil Engineers (ASCE)
- CIB International
- Associated Schools of Construction (ASC)- Past Board Member
- American Council on Construction Education (ACCE)