

Curriculum Vitae

Ajla Aksamija, PhD, LEED AP BD+C, CDT, FTI Fellow



Professor
Distinguished Chair for Resilient Places
School of Architecture
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Dr. Ajla Aksamija is a Professor at the School of Architecture at the University of Utah. She is the Distinguished Chair for Resilient Places and directs Transforming Places, Practices and Pedagogies Collaborative (TP³C) research entity. She served as the Chair of the School of Architecture. Her interdisciplinary research expertise includes building science and sustainability, emerging building technologies, digital design and representations, and innovations in architecture. She has worked on developing building analysis and modeling applications, implementation of novel materials in architectural design, development of computational models, and has collaborated with researchers from material science, civil and environmental engineering and computational design. Her professional background includes Perkins&Will, where she directed Building Technology Laboratory (“Tech Lab”), one of the first practice-driven architectural research laboratories, as well as U.S. Army Corps of Engineers Construction Engineering Research Laboratory. Prior to joining the University of Utah, she was a Professor at the Department of Architecture at the University of Massachusetts Amherst.

Dr. Aksamija authored three books, *Research Methods for the Architectural Profession* (Routledge, 2021), *Integrating Innovation in Architecture: Design, Methods and Technology for Progressive Practice and Research* (John Wiley & Sons, 2016), and *Sustainable Facades: Design Methods for High-Performance Building Envelopes* (John Wiley & Sons, 2013). Her book on sustainable, high-performance facades was translated to Chinese language (China Architecture and Building Press, 2018). She has contributed to several other books, such as the *Case Study Strategies for Architects and Designers: Integrative Data Research Methods*, *The Changing Shape of Practice - Integrating Research and Design in Architectural Practice*, and *Architecture and Sustainability: Critical Perspectives for Integrated Design*. She has written numerous research articles and invited papers, and has presented at various national and international conferences. She is the founder the *Perkins and Will Research Journal*, the first peer-reviewed research journal coming from the architectural profession and served as its editor for fourteen years. She served as the President of the Facade Tectonics Institute (FTI) for two years, and has been recognized as the Fellow of the FTI. She has held many service roles within the academic and professional organizations, including regional, national and international entities. Her courses have received national recognition, and she is the recipient of several teaching awards, most notably by the Architecture 2030 organization for her innovative teaching methods on high-performance and sustainable design.



EDUCATION

University of Illinois at Urbana-Champaign

- PhD in Architecture, Technology and Environment Option (2008)
- Master of Architecture, Design Option (2005)
- Bachelor of Science in Architectural Studies with High Honors (2003)

Ecole Nationale Supérieure d'Architecture de Versailles, France (2000-2001), Study Abroad Program

ACADEMIC AND LEADERSHIP EXPERIENCE

1) University of Utah, School of Architecture (7/2023 to present)

Professor and Distinguished Chair for Resilient Places

Responsibilities:

- Directs Transforming Places, Practices and Pedagogies Collaborative (TP³C) research entity

Classes:

- ARCH 6613: Comprehensive Building Technology II (Graduate lecture course focusing on building systems and technologies, integrated with a graduate-level design studio)

2) University of Utah, School of Architecture (8/2021 to 8/2023)

Professor and Chair

Responsibilities:

- Provided administrative leadership for the School of Architecture (SoA)
- Managed budget and financial operations of the SoA
- Oversaw admissions processes for the undergraduate and graduate programs
- Coordinated and collaborated with local, regional and national architectural professionals
- Managed SoA's internal and external communication efforts
- Coordinated with the College of Architecture + Planning leadership.

Classes:

- ARCH 6613: Comprehensive Building Technology II (Graduate lecture course focusing on building systems and technologies, integrated with a graduate-level design studio)
- ARCH 6780: Architectural Internship
- ARCH 6879: Advanced Seminar (Research methods course for post-professional Master of Science in Architectural Studies program)
- CMP 7930: Qualifying Exam (Qualifying exam course for PhD students)
- CMP 7970: Dissertation (Dissertation course for PhD candidates).

3) University of Utah, Division of Multi-Disciplinary Design (1/2022 to 8/1/2022)

Interim Co-Chair

Responsibilities:

- Co-chaired the Division of Multi-Disciplinary Design (MDD)
- Coordinated with the College of Architecture + Planning leadership.

4) University of Massachusetts Amherst, Department of Architecture (1/2021 to 8/2021)

Professor

Classes:

- ARCH 601: Graduate Design Studio IV (Graduate design studio focusing on the design of complex building types)
- ARCH 605: Sustainable and High-Performance Facades Seminar (Graduate seminar course focusing on high-performing facade systems)

5) University of Massachusetts Amherst, Department of Architecture (9/2017 to 1/2021)

Associate Professor

Classes:

- ARCH 400: Design Studio III (Undergraduate design studio)
- ARCH 403: Design Studio V (Undergraduate design studio)



- ARCH 591S: Sustainable and High-Performance Facades Seminar (Graduate seminar course focusing on high-performing facade systems)
- ARCH 601: Graduate Design Studio IV (Graduate design studio focusing on the design of complex building types)
- ARCH 605: Sustainable and High-Performance Facades Seminar (Graduate seminar course focusing on high-performing facade systems)
- ARCH 700: Integration Studio (Graduate design studio focusing on integration of building systems and construction documentation)
- LLCAR 68: Sustainable and High-Performance Facades: Design Methods and Analysis (Professional continuing education course focusing on sustainable, high-performance facades).

6) University of Massachusetts Amherst, Department of Architecture (8/2013 to 9/2017)

Assistant Professor

Classes:

- ARCH 400: Design Studio III (Undergraduate design studio)
- ARCH 403: Design Studio V (Undergraduate design studio)
- ARCH 540: Analysis + Representation I (Undergraduate course focusing on digital technologies)
- ARCH 541: Analysis + Representation II (Undergraduate course focusing on advanced digital technologies)
- ARCH 591S: Sustainable and High-Performance Facades Seminar (Graduate seminar course focusing on high-performing facade systems)
- ARCH 601: Graduate Design Studio IV (Graduate design studio focusing on the design of complex building types)
- ARCH 602: Graduate Design Studio V (Graduate design studio focusing on the design of complex building types)
- ARCH 700: Integration Studio (Graduate design studio focusing on integration of building systems and construction documentation).

7) University of Massachusetts Amherst, Building Construction and Technology Program, Department of Environmental Conservation (1/2014 to present)

Adjunct Professor

Responsibilities:

- Advises doctoral students in Environmental Conservation with focus on Building Systems
- Taught independent studies relating to research methods, high-performance buildings and performance-based design.

8) University of Pennsylvania, Department of Architecture (1/2013 to 6/2013)

Lecturer

Classes:

- ARCH 534: Environmental Systems II (Advanced graduate course focusing on environmental building design and systems).

9) University of Cincinnati, Department of Art, Architecture and Planning (1/2011 to 12/2011)

Co-Instructor

Classes:

- ARCH 719: Performance Driven Design & Prototyping (Graduate seminar focusing on performance-based design and digital fabrication, taught by Ming Tang [University of Cincinnati], Dr. Ajla Aksamija [Tech Lab, Perkins&Will], Mike Hodge [Perkins&Will, Atlanta], Jonathon Anderson [University of North Carolina])
- ARCH 713: Re-skinning, Performance Driven Design & Parametric Correlation (Graduate design studio focusing on advanced computational design topics, sustainability, facade design and digital fabrication, taught by Ming Tang [University of Cincinnati], Dr. Ajla Aksamija [Tech Lab, Perkins&Will], Todd Snapp [Perkins&Will, Chicago], Mike Hodge [Perkins&Will, Atlanta]).



PROFESSIONAL EXPERIENCE

1) Perkins&Will, Chicago, IL (8/2008 to 9/2022)

Building Technology Researcher/Associate

Responsibilities: Directed Building Technology Laboratory ("Tech Lab"), Perkins&Will research center for building technology. Research work focused on advanced building technologies, materials, sustainability, renewable energy sources, and computational design. Conducted research and specific studies for various aspects of design and building technologies. Served as the founder and editor of the *Perkins&Will Research Journal* for fourteen years.

2) US Army Corps of Engineers Engineering Research Development Center (8/2006 to 10/2008)

Construction Engineering Research Laboratory, Champaign IL

Researcher

Responsibilities: Formulated computational representations of architectural design factors dependant on the physical and contextual aspects, supported development of methodology for building characterization, investigated relationships between knowledge-based and generative systems for automated building design.

3) City of Champaign (3/2004 to 8/2006)

Neighborhood Programs Coordinator

Responsibilities: Researched housing and community development needs, performed market analysis and data collection. Assisted in the development of the City of Champaign Consolidated Plan 2005-2010 for the Department of Housing and Urban Development.

4) University of Illinois at Urbana-Champaign, School of Architecture (8/2003 to 8/2005)

Research Assistant

Responsibilities: Researched topics in emerging technologies, such as nanotechnology and material science, as they relate to architectural design and practice. Investigated integrated practice in architecture.

5) Studio Doxat, Sarajevo, Bosnia and Herzegovina (6/2003 to 8/2003)

Architectural Intern

Responsibilities: Worked on the design of architectural projects and preparation of construction documentation.

PUBLICATIONS

BOOKS

1. Aksamija, A., (2021). *Research Methods for the Architectural Profession*, New York, NY: Routledge.
2. Aksamija, A., Kang, L., Xin, Y., and Ye, Z., (2018). *Facade Design for Sustainable Buildings: Design Methods for High-Performance Building Envelopes*, Beijing, China: China Architecture and Building Press (Chinese language translation of the *Sustainable Facades: Design Methods for High-Performance Building Envelopes*, published by John Wiley & Sons, 2013).
3. Aksamija, (2016). *Integrating Innovation in Architecture: Design, Methods and Technology for Progressive Practice and Research*, Chichester, UK: John Wiley & Sons.
4. Aksamija, A., Haymaker, J. and Aminmansour, A., eds. (2015). *Future of Architectural Research: Proceedings of the Architectural Research Centers Consortium Conference*, Chicago, IL: Perkins&Will, http://www.arcc-arch.org/wp-content/uploads/2015/04/ARCC2015_Perkins-Will-Conference-Proceedings.pdf.
5. Aksamija, A., (2013). *Sustainable Facades: Design Methods for High-Performance Building Envelopes*, New York, NY: John Wiley & Sons.



CHAPTERS IN BOOKS/CONTRIBUTIONS TO BOOKS

1. Aksamija, A., (2022). "Foreword: Future Building Skins", in *Rethinking Building Skins: Transformative Technologies and Research Trajectories*, Eugenia Gasparri, Arianna Brambilla, Gabriele Lobaccaro, Francesco Goia, Annalisa Andaloro and Alberto Sangiorgio, eds., Elsevier, Amsterdam: The Netherlands.
2. Milosevic, S., and Aksamija, A., (2022). "Sustainable Retrofit Strategies for an Existing and Historically Significant Residential Complex: Environmental Response and Facade Performance Analysis", in *Interdisciplinary Advances in Sustainable Development*, Tijana Tufek-Memišević, Maja Arslanagić-Kalajdžić and Naida Ademović, eds., Springer, Switzerland, pp. 237-252.
3. Aksamija, (2018). "BIM-Based Building Performance Analysis in Architectural Practice: Using Data to Drive Sustainable Design Strategies", in *Case Study Strategies for Architects and Designers: Integrative Data Research Methods*, Magi Sarvimäki, New York, NY: Routledge, pp. 116-122.
4. Aksamija, A., and Wang, Y., (2017). "Regenerative Design for Achieving Net-Zero Energy Commercial Buildings in Different Climate Types", in *Architectural Research Addressing Societal Challenges*, Manuel Couceiro da Costa, Filipa Roseta, Joana Pestana Lages and Susana Couceiro da Costa, eds., CRC Press/Taylor & Francis Group, Leiden, The Netherlands, pp. 527-534.
5. Haymaker, J., Aksamija, A., and Green, D., (2016). "Research Mechanisms and Projects at Perkins+Will", in *The Changing Shape of Practice - Integrating Research and Design in Architectural Practice*, Michael Hensen and Fredrik Nilsson, eds. New York, NY: Routledge, pp. 14-24.
6. Aksamija, A., (2014). "BIM-Based Building Performance Analysis in Architectural Practice: When, Why and How", in *Architecture and Sustainability: Critical Perspectives for Integrated Design*, Ahmed Khan and Karen Allecker, eds. Brussels, Belgium: Sint-Lucas Architecture Press, pp. 221-230.
7. Zisko-Aksamija, A., (2008). "Knowledge Management in Architecture and Construction Industry", in *Knowledge Management: Research and Applications*, Alex Koochang, Keith Harman and Johannes Britz, eds. Santa Rosa, CA: Informing Science Press, pp. 213-252.
8. Grobler, F., Aksamija, A., Kim, H., Krishnamurti, R., Yue, K., and Hickerson, C., (2008). "Ontologies and Shape Grammars: Communication Between Knowledge-Based and Generative Systems", in *Design Computing and Cognition '08: Proceedings of the Third International Conference on Design Computing and Cognition*, John S. Gero and Ashok Goel, eds. Heidelberg, Germany: Springer, pp. 23-40.
9. Aksamija, A., (2007). "Urban Infrastructure and Services: Livable Cities in Balance", in *The Skyscraper and the City: Design, Technology and Innovation*, Vol. 2, Lynn S. Beedle, Mir M. Ali and Paul J. Armstrong, Lewiston, NY: Edwin Mellen Press, pp. 411-462 (contributed).
10. Aksamija, A., (2007). "Megacities and Megastructures: Beyond Cities and Skyscrapers", in *The Skyscraper and the City: Design, Technology and Innovation*, Vol. 2, Lynn S. Beedle, Mir M. Ali and Paul J. Armstrong, Lewiston, NY: Edwin Mellen Press, pp. 679-736 (contributed).

TECHNICAL REPORTS

1. Aksamija, A., Brainard, G., Brown, T., and Milosevic, S., (2023). "The State of Facades Education in Academic Institutions: U.S.-Based Perspectives", Facade Tectonics Institute.
2. Aksamija, A., and Milosevic, S., (2021). "Condensation Study of Windows: Thermal Analysis of Various Window Types under Different Exterior Environmental Conditions", Technoform.
3. Aksamija, A., Knaack, U., Marshall, B., Milosevic, S., (2020). "Workshop: Imagining Future Innovative Facades", University of Massachusetts Amherst.
4. Aksamija, A., (2014). "Thermal Modeling, Performance Studies and Innovation in Rainscreen Facade Systems", Shildan.
5. Aksamija, A., (2014). "Tech Lab Annual Report 2013", Perkins&Will.
6. Aksamija, A., (2013). "Tech Lab Annual Report 2012", Perkins&Will.
7. Aksamija, A., (2012). "Tech Lab Annual Report 2011", Perkins&Will.
8. Aksamija, A., (2011). "Tech Lab Annual Report 2010", Perkins&Will.
9. Aksamija, A., (2010). "Tech Lab Annual Report 2009", Perkins&Will.



JOURNAL ARTICLES

1. Milosevic, S., and Aksamija, A., (2024). "Sustainable Retrofitting Strategies for Culturally Significant Brutalist Buildings: Energy-Efficient Strategies for a High-Rise Residential Complex in Sarajevo, Bosnia and Herzegovina", *Journal of Green Building*, Vol. 19, No. 2, pp. 95-122, DOI: 10.3992/jgb.19.1.95.
2. Aksamija, A., and Milosevic, S., (2023). "Post-pandemic Office Spaces: Considerations and Design Strategies for Hybrid Work Environments", *ENQ (Enquiry), Journal of the Architectural Research Centers Consortium (ARCC)*, Vol. 20, No. 1, pp. 41-64, DOI: 10.17831/enq:arcc.v18i1.1192.
3. Aksamija, A., and Milosevic, S., (2023). "Condensation Study: Thermal Analysis of Aluminum-Framed Window Systems under Different Environmental Conditions", *Journal of Architectural Engineering*, Vol. 29, No. 4, DOI: 10.1061/JAEIED/AEENG-1589. **(selected as Editor's Choice article)**
4. Milosevic, S., and Aksamija, A., (2022). "High-Performance Retrofit Strategies for Existing Science and Laboratory Buildings within Academic Institutions: Considerations and Design Strategies", *Perkins&Will Research Journal*, Vol. 25, No. 1, pp. 35-59.
5. Farid Mohajer, M., and Aksamija, A., (2021). "Impacts of Building Function on Normalized-Steam Consumption: Analysis of Floor Area Normalization vs. Linear Regression on Heating Degree-Days in Heating-Dominated Climate", *Journal of Green Building*, Vol. 16, No. 3, pp. 73-85, DOI: 10.3992/jgb.16.3.73.
6. Farid Mohajer, M., and Aksamija, A., (2019). "Area-Weighted vs. Additive Thermal Resistance in Building Facades: Assessment of Thermal Bridging Effects on Buildings' Energy Performance", *Perkins and Will Research Journal*, Vol. 11, No. 1, pp. 22-34.
7. Aksamija, A., Aksamija, Z., Counihan, C., Brown, D., Upadhyaya, M., (2019). "Experimental Study of Operating Conditions and Integration of Thermoelectric Materials in Facade Systems", *Frontiers in Energy Research, Special Issue on New Materials and Design of the Building Enclosure*, Volume 7, Article 6, DOI: 10.3389/fenrg.2019.00006 **(invited article)**.
8. Aksamija, A., and Brown, D., (2018). "Integration of Parametric Design Methods and Building Performance Simulations for High-Performance Buildings: Methods and Tools", *Perkins and Will Research Journal*, Vol. 10, No. 1, pp. 28-53.
9. Aksamija, A., (2018). "Thermal, Energy and Daylight Analysis of Different Types of Double Skin Facades in Various Climates", *Journal of Facade Design and Engineering*, Vol. 6, No. 1, pp. 1-39, DOI:10.7480/jfde.2018.1.1527.
10. Aksamija, A., (2017). "Impact of Retrofitting Energy-Efficient Design Strategies on Energy Use of Existing Commercial Buildings: Comparative Study of Low-Impact and Deep Retrofit Strategies", *Journal of Green Building*, Vol. 12, No. 4, pp. 70-88, DOI:10.3992/1943-4618.12.4.70.
11. Aksamija, A., (2017). "BIM in Architectural Education: Teaching Advanced Digital Technologies to Beginner Designers", *The International Journal of Architectonic, Spatial, and Environmental Design*, Vol. 11, No. 2, pp. 13-25, DOI:10.18848/2325-1662/CGP/v11i02/13-25..
12. Aksamija, A., and Peters, T., (2016). "Climate Change and Performance of Facade Systems: Analysis of Thermal Behavior and Energy Consumption in Different Climate Types", *Perkins and Will Research Journal*, Vol. 8, No. 2, pp. 52-79.
13. Aksamija, A., (2016). "Regenerative Design and Adaptive Reuse of Existing Commercial Buildings for Net-Zero Energy Use", *Journal of Sustainable Cities and Society*, Vol. 27, pp. 185-195, DOI: 10.1016/j.scs.2016.06.026.
14. Aksamija, A., and Peters, T., (2016). "Heat Transfer in Facade Systems and Energy Use: Comparative Study of Different Exterior Wall Types", *Journal of Architectural Engineering*, Vol. 23, No. 1, DOI: 10.1061/(ASCE)AE.1943-5568.0000224.
15. Aksamija, A., (2015). "Design Methods for Sustainable, High-Performance Building Facades", *Advances in Building Energy Research*, Vol. 10, No 2, pp. 240-262, DOI: 10.1080/17512549.2015.1083885.
16. Aksamija, A., (2015). "A Strategy for Energy Performance Analysis at the Early Design Stage: Predicted vs. Actual Building Energy Performance", *Journal of Green Building*, Vol. 10, No. 3, pp. 161-176, DOI:10.3992/jgb.10.3.161.



17. Aksamija, A., (2015). "Regenerative Design of Existing Buildings for Net-Zero Energy Use", *Procedia Engineering*, Vol. 118, pp. 72-80, DOI: 10.1016/j.proeng.2015.08.405.
18. Aksamija, A., (2015). "Integrating Building Performance Analysis with Design for High-Performing Facades", *Journal of the National Institute of Building Sciences*, Vol. 3, No. 2, pp. 20-25.
19. Aksamija, A., (2013). "Building Simulations and High-Performance Buildings Research: Use of Building Information Modeling (BIM) for Integrated Design and Analysis", *Perkins and Will Research Journal*, Vol. 5, No. 1, pp. 19-38.
20. Tang, M., Aksamija, A., Hodge, M., and Anderson, J., (2012). "Performative Computation-Aided Design Optimization", *Architectural Research Centers Consortium (ARCC) Journal*, Vol. 9, No. 1, pp. 62-67, DOI:10.17831/enq:arcc.v9i1.68.
21. Aksamija, A., Snapp, T., Hodge, M., and Tang, M., (2012). "Re-Skinning: Performance-Based Design and Fabrication of Building Facade Components: Design Computing, Analytics and Prototyping", *Perkins and Will Research Journal*, Vol. 4, No. 1, pp. 15-28.
22. Abdullah, A., and Aksamija, A., (2012). "Sustainable Design Strategies and Technical Design Development: Rush University Medical Center Entry Pavilion", *Perkins and Will Research Journal*, Vol. 4, No. 1, pp. 51-81.
23. Tang, M., Aksamija, A., Hodge, M., and Anderson, J., (2012). "Data Driven Transmutation: an Investigation of Performance Based Design and Adaptive System", *AIA Forward Journal*, Summer 2012 Issue, pp. 95-105 (**invited article**).
24. Tang, M., Aksamija, A., Hodge, M., and Anderson, J., (2011). "Performance-Driven Design and Prototyping: Design Computation and Fabrication", *Perkins and Will Research Journal*, Vol. 3, No. 2, pp. 42-49.
25. Aksamija, A., Guttman, M., Rangarajan, H., and Meador, T., (2011). "Parametric Control of BIM Elements for Sustainable Design in Revit: Linking Design and Analytical Software Applications through Customization", *Perkins and Will Research Journal*, Vol. 3, No. 1, pp. 32-45.
26. Aksamija, A., and Iordanova, I., (2010). "Computational Environments with Multimodal Representations of Architectural Design Knowledge", *International Journal of Architectural Computing*, Vol. 8, No. 4, pp. 439-460, DOI:10.1260/1478-0771.8.4.439 (**invited article**).
27. Aksamija, A., and Mallasi, Z., (2010). "Building Performance Predictions: How Simulations Can Improve Design Decisions", *Perkins and Will Research Journal*, Vol. 2, No. 2, pp. 7-32.
28. Aksamija, A., (2010). "Analysis and Computation: Sustainable Design in Practice", *Design Principles and Practices: An International Journal*, Vol. 4, No. 4, pp. 291-314, DOI: 10.18848/1833-1874/CGP/v04i04/37919.
29. Aksamija, A., (2010). "Comparative Analysis of Flooring Materials: Environmental and Economic Performance", *Perkins and Will Research Journal*, Vol. 2, No. 1, pp. 55-66.
30. Aksamija, A., Kui, Y., Kim, H., Grobler, F., and Krishnamurti, R., (2010). "Integration of Knowledge-Based and Generative Systems for Building Characterization and Prediction", *Artificial Intelligence for Engineering Design, Analysis and Manufacturing Journal*, Special Issue, Design Computing and Cognition 09, Vol. 24, Special Issue No. 1, pp. 3-16.
31. Aksamija, A., (2009). "Integration in Architectural Design: Methods and Implementations", *Design Principles and Practices: An International Journal*, Vol. 3, No. 6, pp. 151-160, DOI:10.18848/1833-1874/CGP/v03i06/37777.
32. Aksamija, A., (2009). "Computational Representations of Architectural Design for Tall Buildings", *Complexity Journal*, Vol. 15, No. 2, pp. 45-53, DOI:10.1002/cplx.20271 (**invited article**).
33. Aksamija, A., (2009). "Building Commissioning: Strategies, Criteria and Applications", *Perkins and Will Research Journal*, Vol. 1, No. 1, pp. 7-13.
34. Aksamija, A., (2009). "Context-Based Design of Double Skin Facades: Climatic Considerations During the Design Process", *Perkins and Will Research Journal*, Vol. 1, No. 1, pp. 54-69.
35. Mir, A., and Aksamija, A., (2009). "Low-Cost Housing in Megacities of the Developing World: A Challenge for the 21st Century", *Housing & Building National Research Center (HBRC) Scientific Journal*, Vol. 5, No. 2, pp. 70-81.
36. Zisko-Aksamija, A., (2008). "Information Modeling in Architectural Design: Collaborative Environment for Decision-Making Process", *Design Principles and Practices: An International Journal*, Vol. 2, No. 2, pp. 79-88, DOI: 10.18848/1833-1874/CGP/v02i02/38273.



PEER-REVIEWED CONFERENCE ARTICLES

1. Aksamija, A., (2024). "Innovations in Architecture: Research, Design and Technology", *Proceedings of the STEPGRAD 2024: International Conference on Contemporary Theory and Practice in Construction XVI*, Banjaluka, Bosnia and Herzegovina, June 12-13 (**in review, invited article**).
2. Aksamija, A., Brainard, G., Brown, T., and Milosevic, S., (2024). "Facades Education in the United States: Current State and Recommendations for Improvements", *Proceedings of the Facade World Congress 2024*, Salt Lake City, UT, October 8-10 (in review).
3. Farid Mohajer, M., and Aksamija, A., (2024). "Design and Energy Analysis: Assessment of Workflows and Simulation Tools", *Proceedings of the Facade World Congress 2024*, Salt Lake City, UT, October 8-10 (in review).
4. Aksamija, A., and Milosevic, A., (2024). "User-Centric Renovation Design Strategies of Traditional Offices for Supporting Hybrid Work: Engaging Employees Through Research", *Proceedings of the Environmental Design Research Association (EDRA) 2024 Conference*, Portland, OR, June 19-22 (accepted).
5. Farid Mohajer, M., and Aksamija, A., (2024). "Building Information Modeling (BIM) and Building Energy Modeling (BEM): Assessment of BIM to BEM Workflows and Energy Simulation Tools", *Proceedings of the International Building Performance Simulation Association (IBPSA) SimBuild 2024 Conference*, Denver, CO, May 21-23 (accepted).
6. Milosevic, S., and Aksamija, A., (2023). "Vaccination Accessibility Analysis: Modeling Historical Patterns of Redlining and Access to Healthcare Services", *Proceedings of the Symposium on Simulation for Architecture and Urban Design (SimAUD) 2023*, The Society for Modeling and Simulation International, Ontario, Canada, May 23 to 26, pp. 448-461.
7. Aksamija, A., Farid Mohajer, M., and Aksamija, Z., (2022). "Novel Active Facade Systems and Energy Performance of Commercial Buildings: Impact of Thermoelectric Materials on Heating and Cooling in Different Climates", *Proceedings of the Facade World Congress 2022*, Los Angeles, CA, October 12-13.
8. Aksamija, A., Milosevic, S., Sanders, H., and Blakeslee, A., (2022). "Condensation Study of Windows: Comparative Analysis of Different Window Systems under Various Exterior Conditions", *Proceedings of the Facade World Congress 2022*, Los Angeles, CA, October 12-13.
9. Milosevic, S., and Aksamija, A., (2022). "Sustainable Retrofit Strategies for an Existing Laboratory Building: Analysis of Building Performance", *Proceedings of the Facade World Congress 2022*, Los Angeles, CA, October 12-13.
10. Aksamija, A., and Farid Mohajer, M., (2022). "Thermoelectric Facades: Modelling Procedure and Comparative Analysis of Energy Performance in Various Climate Conditions", *Proceedings of the Architectural Research Centers Consortium/European Association for Architectural Research (ARCC/EAAE) 2022 International Conference*, Florida International University, March 2-5, pp. 407-414.
11. Milosevic, S., and Aksamija, A., (2021). "Performance Study of a Historically Significant Brutalist Building: Thermal and Moisture Analysis of Building Skin", *Proceedings of the Architectural Research Centers Consortium (ARCC) 2021 Conference: Performative Environments*, University of Arizona, April 7-10, pp. 15-22.
12. Farid Mohajer, M., and Aksamija, A., (2021). "Comparison of Energy Usage Intensity in Higher-Education Buildings: Benchmarking Actual Case Study Buildings vs. CBECS Baselines", *Proceedings of the Architectural Research Centers Consortium (ARCC) 2021 Conference: Performative Environments*, University of Arizona, April 7-10, pp. 119-126.
13. Mahmoud, H., and Aksamija, A., (2021). "Cost-Effective Energy-Efficiency Retrofit Measures for Existing Buildings: Analysis for Reaching Net-Zero Energy Goals in Heating-Dominated Climate", *Proceedings of the Architectural Research Centers Consortium (ARCC) 2021 Conference: Performative Environments*, University of Arizona, April 7-10, pp. 77-84.
14. Aksamija, A., Aksamija, Z., Farid Mohajer, M., Upadhyaya, M., and Vignaeu, G., (2020). "Thermoelectric Facades: Simulation of Heating, Cooling and Energy Generation Potential for Novel Intelligent Facade Systems", *Proceedings of the Facade World Congress 2020*, Los Angeles, CA, August 5-27.



15. Farid Mohajer, M., and Aksamija, A., (2020). "Effects of Thermal Bridging in Facades on Buildings' Energy Consumption: Area-Weighted vs. Additive Thermal Resistance", *Proceedings of the Facade World Congress 2020*, August 5-27.
16. Minaei, M., and Aksamija, A., (2020). "Performance-Based Facade Design: New Approach for Multi-Objective and Automated Simulation and Optimization", *Proceedings of the Facade World Congress 2020*, August 5-27.
17. Minaei, M., and Aksamija, A., (2020). "Performance-Based Facade Framework Automated and Multi-Objective Simulation and Optimization", *Proceedings of the of the Symposium on Simulation for Architecture and Urban Design (SimAUD) 2020*, Vienna, Austria, May 25-27, pp. 479-486.
18. Farid Mohajer, M., and Aksamija, A., (2019). "Integration of Building Energy Modeling (BEM) and Building Information Modeling (BIM): Workflows and Case Study", *Proceedings of the Building Technology Educators Society (BTES) 2019 Conference*, Amherst, MA, June 19-22.
19. Minaei, M., and Aksamija, A., (2019). "Framework for Performance-Based Facade Design: Optimization of Energy, Comfort and Energy Costs", *Proceedings of the Building Technology Educators Society (BTES) 2019 Conference*, Amherst, MA, June 19-22.
20. Aksamija, A., (2018). "Integrating Parametric Design and Building Performance Simulations", *Proceedings of the Mongeometrija 2018: 6th International Conference on Geometry and Graphics*, Novi Sad, Serbia, June 6-9, pp. 526-535.
21. Aksamija, A., (2018). "Methods for Integrating Parametric Design with Building Performance Analysis", *Proceedings of the European Association for Architectural Education/Architectural Research Centers Consortium (EAAE/ARCC) 2018 International Conference*, Philadelphia, PA, May 16-18.
22. Aksamija, A., Aksamija, Z., Counihan, C., Brown, D., and Upadhyaya, M., (2018). "Experimental Study on Integration of Thermoelectric Materials in Exterior Walls for Heating and Cooling in High-Performance Buildings", *Proceedings of the Building Enclosure Science and Technology (BEST) 5 Conference*, National Institute of Buildings Sciences (NIBS), Philadelphia, PA, April 16-18.
23. Aksamija, A., Aksamija, Z., Counihan, C., Brown, D., and Upadhyaya, M., (2018). "Thermoelectric Materials in Exterior Walls: Experimental Study on Using Smart Facades for Heating and Cooling in High-Performance Buildings", *Proceedings of the Facade World Congress 2018*, Los Angeles, CA, March 12-13, pp. 171-180.
24. Aksamija, A., (2017). "Energy Performance of Different Types of Double Skin Facades in Various Climates", *Proceedings of the Architectural Research Centers Consortium (ARCC) 2017 Conference*, University of Utah, June 14-17, pp. 500-509.
25. Aksamija, A., (2017). "Integration of Parametric Design in Architecture and Building Performance Simulations: Applications for Facade Design", *Proceedings of the 3rd International Biodigital Architecture & Genetics Conference*, Barcelona, Spain, June 7-10.
26. Aksamija, A., (2017). "Double-Skin Facades and Daylight Simulations: Comparative Study of Facade Typologies and Effects on Natural Light in Different Climate Types", *Proceedings of the Symposium on Simulation for Architecture and Urban Design (SimAUD) 2017*, The Society for Modeling and Simulation International, Toronto, Canada, May 22-24, pp. 203-210.
27. Aksamija, A., (2017). "Thermal and Energy Performance of Double Skin Facades in Different Climate Types", *Proceedings of PowerSkin 2017 Conference*, Technical University of Munich, Germany, January 19, pp. 71-82.
28. Aksamija, A., (2016). "Double Skin Facades: Thermal and Energy Performance in Different Climate Types", *Proceedings of the Facade Tectonics 2016 World Congress*, Los Angeles, CA, October 10-11, pp. 483-501.
29. Aksamija, A., and Peters, T., (2016). "Impact of Climate Change on Thermal and Energy Performance of Facade Types in Different Climates", *Proceedings of the Facade Tectonics 2016 World Congress*, Los Angeles, CA, October 10-11, pp. 235-244.
30. Peters, T., and Aksamija, A., (2016). "Passive Solar Facades, Thermal Comfort and Climate Change: Predictive Simulations with Near and Distant Weather Patterns", *Proceedings of the Passive and Low Energy Architecture (PLEA) 2016 Conference (Cities, Buildings, People: Towards Regenerative Environments)*, Los Angeles, CA, July 11-13.



31. Aksamija, A., and Wang, Y., (2016). "Regenerative Design for Achieving Net-Zero Energy Commercial Buildings in Different Climate Types", *Proceedings of the European Association for Architectural Education/Architectural Research Centers Consortium (EAAE/ARCC) 2016 International Conference*, Lisbon, Portugal, June 15-18.
32. Aksamija, A., (2015). "Regenerative Design of Existing Buildings for Net-Zero Energy Use", *International Conference on Sustainable Design, Engineering and Construction 2015*, Chicago, May 10-13.
33. Aksamija, A., (2015). "High-Performance Building Envelopes: Design Methods for Energy-Efficient Facades", *Proceedings of the Building Enclosure Science and Technology (BEST) 4 Conference*, National Institute of Buildings Sciences (NIBS), Kansas City, MO, April 12-15.
34. Wang, Y., and Aksamija, A., (2015). "Net-Zero Energy Retrofits for Commercial Buildings", *Proceedings of the Architectural Research Centers Consortium (ARCC) 2015 Conference*, Chicago, April 6-9, pp. 222-230.
35. Tabataabae, S., Weil, B., and Aksamija, A., (2015). "Negative Life-Cycle Emissions Growth Rate through Retrofit of Existing Institutional Buildings", *Proceedings of the Architectural Research Centers Consortium (ARCC) 2015 Conference*, Chicago, April 6-9, pp. 212-221.
36. Aksamija, A., (2015). "Innovation and BIM in Architectural Education: Teaching Advanced Digital Technologies to Beginner Designers", *Proceedings of the 31st National Conference on the Beginning Design Student 2015*, University of Texas, Houston, February 26-28, pp. 28-35.
37. Aksamija, A., (2014). "Design of Sustainable, High-Performance Building Facades", *Proceedings of the 9th Energy Forum on Advanced Building Skins*, October 28-29, Bressanone, Italy, pp. 217-234 (invited article).
38. Aksamija, A., Abdullah, A., and Cross, B., (2014). "Whole Building Energy Analysis: A Comparative Study of Different Simulation Tools and Applications in Architectural Design", *Proceedings of the 2014 ACEEE Summer Study on Energy Efficiency in Buildings*, Pacific Grove, CA, August 17-22.
39. Aksamija, A., and Abdullah, A., (2013). "Building Technology Research in Architectural Practice: Lessons Learned from Implementations of Energy-Efficient Advanced Building Technologies", *Proceedings of the 2013 ACEEE Summer Study on Energy Efficiency in Industry*, Niagara Falls, NY, July 23-26.
40. Aksamija, A., and Green, D., (2013). "Visibility of Research in Design Practice: Current and Emerging Trends", *Proceedings of the Architectural Research Centers Consortium (ARCC) 2013 Conference*, Charlotte, NC, March 27-30, pp. 661-668.
41. Aksamija, A., (2012). "BIM-Based Building Performance Analysis: Evaluation and Simulation of Design Decisions", *Proceedings of the 2012 ACEEE Summer Study on Energy Efficiency in Buildings*, Pacific Grove, CA, August 12-17.
42. Tang, M., Aksamija, A., Hodge, M., and Anderson, J., (2012). "Performance-Based Generative Design Process: An Investigation of the Parametric Nature of Architecture", *Proceedings of the 100th ACSA Annual Conference: Digital Aptitudes*, Boston, MA, March 1-4.
43. Aksamija, A., (2011). "Building Technology Research in Architectural Practice: Emerging Trends", *Proceedings of the 2011 ARCC Spring Research Conference*, Architectural Research Centers Consortium, Plowright, P. and Gamper, B., eds., Detroit, MI: Lawrence Technological University, pp. 585-594.
44. Aksamija, A., and Iordanova, I., (2009). "Multimodal Representations of Architectural Design Knowledge", *Proceedings of the CAAD Futures 2009 Conference: Joining Languages, Cultures and Visions*, Montreal, Canada: Les Presses de l'Universite de Montreal, pp. 642-655.
45. Aksamija, A., and Ali, M., (2008). "Information Technology and Architectural Practice: Knowledge Modeling Approach and BIM", *Proceedings of AIA IL Conference: Breaking New Ground*, Moline, IL, November 7-8.
46. Grobler, F., Zisko-Aksamija, A., and Kim, H., (2008). "Ontological Representation of Design Knowledge", *Proceedings of the 12th International Conference on Computing in Civil and Building Engineering, 2008 International Conference on Information Technology in Construction, ICCCBE-XII*, Beijing, China, October 16-18.



47. Grobler, F., Kim, H., and Zisko-Aksamija, A., (2008). "Generation of Parametric Building Models", *Proceedings of the 12th International Conference on Computing in Civil and Building Engineering, 2008 International Conference on Information Technology in Construction, ICCCBE-XII*, Beijing, China, October 16-18.
48. Aksamija, A., (2008). "Knowledge-Based Representation of Architectural Design Process", *Proceedings of Architectural Engineering Institute 08 Conference: Building Integration Solutions*, Denver, CO, September 25-27.
49. Ali, M., and Aksamija, A., (2008). "Toward a Better Urban Life: Integration of Cities and Tall Buildings", *Proceedings of the 4th Architectural Conference on the High-Rise*, Amman, Jordan, June 9-11 **(invited article)**.
50. Aksamija, A., and Ali, M., (2007). "Emerging Technologies and Sustainability Practices in Architecture: Aiming for Zero-Energy Buildings", *Europa 11: Digital Thinking in Architecture, Urban Planning, Civil Engineering and Archeology*, Montreal, Canada, September 19-21, pp. 279-290.
51. Aksamija, A., and Grobler, F., (2007). "Architectural Ontology: Development of Machine-Readable Representations for Building Design Drivers", *Proceedings of Computing in Civil Engineering Conference*, Pittsburgh, PA, July 24-27, pp. 168-175.
52. Aksamija, A., and Whalley, L., (2007). "Sustainable Architecture: Social, Cultural and Technological Aspects in Reconstruction of War-Torn Societies", *Proceedings of Rebuilding Sustainable Communities in Iraq: Policies, Programs and Projects*, University of Massachusetts at Boston, July 23-26.
53. Ali, M., and Aksamija, A., (2007). "Low-Cost Housing in the Megacities of the Developing World: A Challenge for the 21st Century", *Proceedings of International Conference "Towards Low Cost Housing"*, Housing and Building National Research Center, Cairo, Egypt, May 29-31.
54. Ali, M., and Zisko-Aksamija, A., (2007). "Application of Innovative Technology to Sustainable Tall Buildings", *Proceedings of the 18th CAA Conference on Society, Architects & Emerging Issues*, Commonwealth Association of Architects and Institute of Architects, Bangladesh, Dhaka **(invited article)**.
55. Aksamija, A., and Grobler, F., 2007. "Architectural Ontology: Knowledge Management Resource for Building Design", *Proceedings of Construction Research Congress 2007*, American Society of Civil Engineers, Grand Bahamas Island, May 6-8.

PROFESSIONAL MAGAZINE ARTICLES

1. Aksamija, A., (2023). "Focus on Facade Education", *SKINS Newsletter*, Facade Tectonics Institute, November, <https://www.facadetectonics.org/articles/focus-on-facades-education> **(guest edited this issue, focusing on facades education)**.
2. Aksamija, A., (2022). "Looking Back at the 2022 World Congress", *SKINS Newsletter*, Facade Tectonics Institute, December 9, <https://www.facadetectonics.org/articles/looking-back-at-the-2022-world-congress>.
3. Aksamija, A., (2021). "Spotlight on Research: R&D and Innovation in Building Skins", *SKINS Newsletter*, Facade Tectonics Institute, April 27, <https://www.facadetectonics.org/articles/spotlight-on-research> **(guest edited this entire issue, focusing on research and development in facade systems)**.
4. Aksamija, A., (2020). "Facades Education in the Time of the Pandemic: Perhaps We Can Learn Something from This?", *SKINS Newsletter*, Facade Tectonics Institute, July 25, <https://www.facadetectonics.org/articles/facades-education-in-the-time-of-the-pandemic-perhaps-we-can-learn-something-from-this>.
5. Aksamija, A., (2014). "Climate Considerations for Facades: Design Methods for Sustainable Facades", *High-Performing Buildings*, ASHRAE, Winter, 48-58.
6. Aksamija, A., and Toman, B., (2011). "Current Trends in Fire Safing: Complex Curtain Wall Geometry and Material Selection for Passive Fire Protection", *Fire Protection Engineering Magazine*, October, pp. 10-20.
7. Aksamija, A., Kuttaiah, K., and Glazer, B., (2011). "Research and Knowledge Leadership: Three Reasons for Needing Continuous Explorations in Design Practice", *Engineering Design+Construction*, September.



8. Aksamija, A., and Kuttaiah, K., (2011). "Research in Practice: New Direction for Architectural and Design Research", *World Architecture News*, July, http://www.worldarchitecturenews.com/index.php?fuseaction=wanappln.commentview&comment_id=257
9. Aksamija, A., and Kuttaiah, K., (2011). "Perkins+Will Research Journal: Integration of Design and Research within a Global Practice", *Contract Magazine*, February, <http://www.contractdesign.com/contract/design/features/Designing-for-Health-4255.shtml>

PATENTS

1. Aksamija, A., and Aksamija, Z. "Façade System for Thermally Conditioning Buildings", U.S. Patent Application No.: 63/226,442, Filed July 28, 2021 (patent pending).

PRESENTATIONS

1. Aksamija, A., (2024). "Sustainable Architecture and High-Performance Building Design", Bosnian American Academy of Arts and Sciences (BHAAS) and Mozaik Foundation, October 17, **(invited scheduled presentation)**.
2. Aksamija, A., (2024). "Innovations in Architecture: Research, Design and Technology", STEP-GRAD 2024: Contemporary Theory and Practice in Construction XVI, Faculty of Architecture, Civil Engineering and Geodesy, Banjaluka, Bosnia and Herzegovina, June 13 **(scheduled keynote presentation)**.
3. Aksamija, A., (2024). "Research and Development in Facade Systems", Ceraclad Special Event, May 16 **(invited scheduled presentation)**.
4. Aksamija, A. (2024). "Post-pandemic Office Spaces: Renovation Design Strategies for Hybrid Work Environments", CA+P Research Symposium, February 13.
5. Aksamija, A., (2023). "Regenerative Design: Achieving Net-Zero Energy in Existing Buildings through Energy-Efficient Retrofits", Transforming the Built Environment: Accelerating Circular and Digital Transition Symposium, Istanbul, Turkey, November 21 **(invited presentation)**.
6. Aksamija, A., (2023). "Decarbonizing the Built Environment: Improving Building Performance through Regenerative Design", AIA Building Performance Knowledge Community, November 8 **(invited presentation)**.
7. Aksamija, A., (2023). "Innovations in Facade Design and Technologies", Ceraclad Special Event, September 28 **(invited presentation)**.
8. Aksamija, A., (2023). "Role of Innovation and R&D in Facade Design, Research and Education", ERASMUS+ Transforming Architectural and Civil Engineering Education Towards a Sustainable Model (TACEESM) Program, May 19, **(invited presentation)**.
9. Aksamija, A., (2023). "Facades Education: From High-Performance Building Envelope Design to Integrated Building Technology Courses", Facades Tectonics Institute Education Forum, May 15 **(invited presentation)**.
10. Aksamija, A., (2023). "Principles of Sustainable Design", Engineers Without Borders, University of Utah, January 31 **(invited presentation)**.
11. Aksamija, A., (2022). "Thermal Behavior and Moisture Transport in High-Performance Facades: Design Considerations", Ceraclad Special Event, December 8 **(invited presentation)**.
12. Aksamija, A., (2022). "Innovations in High-Performance Facade Systems", BIM4TURKEY, November 16 **(invited presentation)**.
13. Aksamija, A., (2022). "Novel Active Facade Systems and Energy Performance of Commercial Buildings: Impact of Thermoelectric Materials on Heating and Cooling in Different Climates", Facade World Congress 2022, Los Angeles, CA, October 12-13.
14. Aksamija, A., Milosevic, S., Sanders, H., and Blakeslee, A., (2022). "Condensation Study of Windows: Comparative Analysis of Different Window Systems under Various Exterior Conditions", Facade World Congress 2022, Los Angeles, CA, October 12-13.
15. Milosevic, S., and Aksamija, A., (2022). "Sustainable Retrofit Strategies for an Existing Laboratory Building: Analysis of Building Performance", Facade World Congress 2022, Los Angeles, CA, October 12-13.



16. Aksamija, A., (2022). "Sustainable and High-Performance Facades: Design Methods and Technologies", AIA Utah Conference, September 27 (**invited presentation**).
17. Aksamija, A., (2022). "Research in Architectural Profession: Role of R&D in Contemporary Practice", AIA Utah Conference, September 27 (**invited presentation**).
18. Aksamija, A., (2022). "Research Methods in Architecture", University of North Carolina at Charlotte, September 7 (**invited presentation**).
19. Aksamija, A., (2022). "Decarbonizing the Built Environment for Sustainable Future", International Conference on Sustainable Development ICSD 2022, Symposia on Designing Smart, Inclusive and Resilient Cities, Sarajevo, Bosnia and Herzegovina, June 23-26 (**invited presentation**).
20. Milosevic, S., and Aksamija, A., (2022). "Sustainable Retrofit Strategies for an Existing and Historically Significant Residential Complex: Environmental Response and Facade Performance Analysis", International Conference on Sustainable Development ICSD 2022, Symposia on Designing Smart, Inclusive and Resilient Cities, Sarajevo, Bosnia and Herzegovina, June 23-26.
21. Aksamija, A., (2022). "Sustainable and High-Performance Facades: A Decade of Educational Programs", European Facade Network Conference: Teaching Facades for a Sustainable Future, Lisbon, Portugal, June 14 (**invited presentation**).
22. Aksamija, A., (2022). "Thermoelectric Facades: Modelling Procedure and Comparative Analysis of Energy Performance in Various Climate Conditions", Architectural Research Centers Consortium (ARCC) 2022 Conference, May 23.
23. Aksamija, A., (2022). "Decarbonizing Built Environment through Regenerative Design: Achieving Net-Zero Energy in Existing Buildings", Designing Carbon Neutral Cities Symposium, April 12 (**invited presentation**).
24. Aksamija, A., (2021). "Decarbonizing Built Environment: High-Performance Retrofits of Existing Buildings", Symposium on Circular Economy in Architecture, Istanbul Technical University, Turkey, November 17 (**invited presentation**).
25. Aksamija, A., (2021). "Wood Enclosure Systems: Design and Research Considerations", Mass Timber Symposium, November 16 (**keynote presentation**).
26. Aksamija, A., (2021). "Sustainable and High-Performance Building Facades", Arch Next, October 21 (**invited presentation**).
27. Aksamija, A., (2021). "Innovations in Building Skins and the Role of R&D", General Services Administration (GSA) Building Enclosure Workshop, August 5 (**invited presentation**).
28. Aksamija, A., (2021). "Building Science Research: Impacts on High-Performance Buildings", College of Architecture, Illinois Institute of Technology, April 9 (**invited presentation**).
29. Aksamija, A., (2021). "Future of Building Performance Research: Innovations in Simulations, Modeling and Applications", Building Performance Symposium, University of Illinois at Urbana-Champaign, April 2 (**invited presentation**).
30. Aksamija, A., (2021). "Future of Architectural Education: Integrating Innovation, Design and building technology Research", College of Architecture, Illinois Institute of Technology, March 30 (**invited lecture**).
31. Aksamija, A., (2021). "Introduction to Architectural Education and Profession", Kingswood Oxford High School, West Hartford, CT, February 18 (**invited presentation**).
32. Aksamija, A., (2021). "Future of Architectural Education", College of Architecture+Planning, University of Utah, January 28 (**invited presentation**).
33. Aksamija, A., (2021). "Impacts of Climate Change on Facade Performance and Advanced Facade Materials", High-Performance Facades Workshop, January 15, online (**professional workshop**).
34. Aksamija, A., (2021). "Thermal Behavior and Moisture Resistance in High-Performance Facades", High-Performance Facades Workshop, January 13, online (**professional workshop**).
35. Aksamija, A., (2021). "Facades' Impact on Buildings' Energy Consumption and Occupants' Comfort.", High-Performance Facades Workshop, January 8, online (**professional workshop**).
36. Aksamija, A., (2021). "Passive Design Strategies for High-Performance Facades", High-Performance Facades Workshop, January 6, online (**professional workshop**).
37. Aksamija, A., (2020). "Design Methods for High-Performance Facades in Warm Climates", Facades Plus, Design and Construction in the Southeast, December 15 (**invited presentation and panel**).



38. Aksamija, A., (2020). "Future of Building Performance Research", 5th International Graduate Student Symposium: Human Behavior, Performance, and Built Environments, Illinois Institute of Technology, November 13 (**keynote presentation and panel**).
39. Aksamija, A., (2020). "Sustainable Design and Research in Practice", University of Michigan at Ann Arbor, November 11 (**invited presentation**).
40. Aksamija, A., (2020). "Augmented and Virtual Reality (AR/VR) in Architectural Education: Implementation and Methods", 14th International Conference on Design Principles & Practices, Pratt Institute, New York, NY, November 11 (originally scheduled on March 16-18, presented online due to COVID-19).
41. Aksamija, A., (2020). "Innovations in AEC and the Role of Interdisciplinary Research", AEC Tech 2020, October 19 (**invited presentation**).
42. Aksamija, A., (2020). "High-Performance Design and Building Science in Practice and Research", University of Maryland, October 13 (**invited presentation**).
43. Aksamija, A., (2020). "Towards Future Solutions", Taking Action: A Conversation on Climate Change and Architecture in Canada, Royal Architectural Institute of Canada, October 5 (**invited presentation and panel**).
44. Aksamija, A., (2020). "Thermoelectric Facades: Simulation of Heating, Cooling and Energy Generation Potential for Novel Intelligent Facade Systems", Facade World Congress 2020, Los Angeles, CA, August 19.
45. Aksamija, A., (2020). "Innovations in Facade Materials", Imagining Innovative Facades Workshop, August 18 (**professional workshop**).
46. Aksamija, (2020). "Innovations in Architecture: Role of Research and Building Technologies", International Academic Conference on Architecture and Design (IACAD) 2020, Singapore, June 4-5 (**keynote presentation**, presented online due to COVID-2019).
47. Aksamija, A., (2020). "Sustainable and High-Performance Facades", Western Massachusetts American Institute of Architects, May 14 (**invited presentation**).
48. Aksamija, A., (2020). "Innovations in Architecture: Building Technology Research and Building Science in Contemporary Practice", BH Future Foundations Webinar, May 12 (**invited presentation**).
49. Aksamija, A., (2019). "Innovations in Architecture: Role of Digital Technologies and Research in Contemporary Practice", DR_SoM: Design Research Series on Method, Digital Practice and Emerging Possibilities in a Shifting Architectural Profession, Graz University of Technology, Austria, October 24-26.
50. Aksamija, A., (2019). "Designing for Well-Being: Building Science and Innovation in Healthcare Design", Design for Living Research Symposium, Drexel University, October 11 (**invited presentation**).
51. Aksamija, A., (2019). "Innovations in Architecture", Architectural Engineering Lecture Series, Worcester Polytechnic Institute, September 19 (**invited lecture**).
52. Aksamija, A., (2019). "Design Methods for Sustainable, High-Performance Facades", Sistemas & Tecnologias Para Cerramientos de Edificios: SISTECCER XI, Buenos Aires, Argentina, September 5-7 (**invited presentation**).
53. Aksamija, A., (2019). "Innovative Technologies for Facade Systems", Sistemas & Tecnologias Para Cerramientos de Edificios: SISTECCER XI, Buenos Aires, Argentina, September 5-7 (**invited presentation**).
54. Aksamija, A., (2019). "Innovations in Architecture: Role of Science and Technology in Contemporary Architectural Design", ROBOKIDS STEM Academy, Banjaluka, Bosnia and Herzegovina, August 14 (**invited presentation**).
55. Aksamija, A., (2019). "Virtual/Augmented Reality in Architectural Profession and Education", Data Science Center Research Symposium, University of Massachusetts Amherst, April 24 (**invited presentation**).
56. Aksamija, A., (2019). "Research Work/Women in Architecture", Art+Math Symposium, University of Massachusetts Museum of Contemporary Art, April 4 (**invited presentation and panel**).
57. Aksamija, A., (2019). "Innovations in Architecture", University of Akron, Ohio, January 25 (**invited presentation**).



58. Aksamija, A., (2019). "Sustainable Design and Building Science in Practice and Research", University of Akron, Ohio, January 25 (**invited presentation**).
59. Aksamija, A., (2018). "Use of Augmented and Virtual Reality in Architectural Practice", AR/VR Working Group Meeting, University of Massachusetts Amherst, December 13 (**invited presentation**).
60. Aksamija, A., and Aksamija, Z., (2018). "Thermoelectric Facades: Smart System for Localized Heating, Cooling and Energy Generation", Massachusetts Clean Energy Center, Boston, MA, December 10.
61. Aksamija, A., (2018). "Double Skin Facades: Thermal, Energy and Daylight Performance in Different Climates", Architectural Research Symposium, Amherst, MA, October 9.
62. Aksamija, A., (2018). "Integrating Parametric Design and Building Performance Simulations", Mongeometrija 2018: 6th International Conference on Geometry and Graphics, Novi Sad, Serbia, June 6-9.
63. Aksamija, A., (2018). "Methods for Integrating Parametric Design with Building Performance Analysis", EAAE/ARCC International 2018 Conference, Philadelphia, PA, May 16-18.
64. Aksamija, A., and Aksamija, Z. (2018). "Experimental Study on Integration of Thermoelectric Materials in Exterior Walls for Heating and Cooling in High-Performance Buildings", Building Enclosure Science and Technology (BEST) 5 Conference, National Institute of Buildings Sciences (NIBS), Philadelphia, PA, April 16-18.
65. Aksamija, A., (2018). "Designing Sustainable Facades: Research and Education", Facade Forum, Jefferson University, Philadelphia, PA, April 13 (**invited lecture**).
66. Aksamija, A., (2018). "Technological Advancements and Emerging Trends in Architectural Profession: How to Form, Organize and Operate Innovative Practice", Christopher Kelly Leadership Development Program, The American Institute of Architects (AIA) Miami Chapter, Miami, FL, April 6 (**invited professional training workshop**).
67. Aksamija, A. and Aksamija, Z., (2018). "Thermoelectric Materials in Exterior Walls: Experimental Study on Using Smart Facades for Heating and Cooling in High-Performance Buildings", Facade World Congress 2018, Los Angeles, CA, March 12-13.
68. Aksamija, A., (2018). "Integrating Innovations in Architecture", New Jersey Institute of Technology, College of Architecture and Design, February 15 (**invited lecture**).
69. Aksamija, A., (2018). "Sustainable and High-Performance Building Facades", Worcester Polytechnic University, Architectural Engineering Department, February 1 (**invited lecture**).
70. Aksamija, A., (2017). "Research in Practice: Methods", Yale University, October 17 (**invited presentation**).
71. Aksamija A., (2017). "Sustainable Building Facades", Architecture 2030 Net-Zero Energy Training Program, Shanghai, China, September 21 (**invited professional training workshop**).
72. Aksamija, A., (2017). "Energy Performance of Different Types of Double Skin Facades in Various Climates", Architectural Research Centers Consortium (ARCC) 2017 Conference, University of Utah, June 14-17.
73. Aksamija, A., (2017). "Integration of Parametric Design in Architecture and Building Performance Simulations: Applications for Facade Design", 3rd International Biodigital Architecture & Genetics Conference, Barcelona, Spain, June 7-10.
74. Aksamija, A., (2017). "Double-Skin Facades and Daylight Simulations: Comparative Study of Facade Typologies and Effects on Natural Light in Different Climate Types", Symposium on Simulation for Architecture and Urban Design (SimAUD) 2017, Toronto, Canada, May 22-24.
75. Aksamija, A., (2017). "Integrating Innovation in Architecture", University of Massachusetts Amherst, March 7 (**invited lecture**).
76. Aksamija, A., (2017). "Innovations in Architecture", SpaArc 2017, New Orleans, LA, March 13 (**keynote presentation**).
77. Aksamija, A., (2017). "Thermal and Energy Performance of Double Skin Facades in Different Climate Types", PowerSkin 2017 Conference, Technical University of Munich, Germany, January 19.
78. Aksamija, A., (2017). "Sustainable, High-Performance Building Facades", Technoform, Pinothek der Moderne, Munich, Germany, January 18 (**keynote presentation**).



79. Aksamija, A., (2016). "Double Skin Facades: Thermal and Energy Performance in Different Climate Types", Facade Tectonics 2016 World Congress, Los Angeles, CA, October 10-11.
80. Aksamija, A., and Peters, T., (2016). "Impact of Climate Change on Thermal and Energy Performance of Facade Types in Different Climates", Facade Tectonics 2016 World Congress, Los Angeles, CA, October 10-11.
81. Aksamija, A., (2016). "Regenerative Design for Achieving Net-Zero Energy Commercial Buildings in Different Climate Types", EAAE/ARCC 2016 Conference, Lisbon, Portugal, June 15-18.
82. Aksamija, A., (2015). "Effects of Building Envelope on HVAC and Lighting", AIA/Architecture 2030 Online Series, Course 4 – Skins: The Importance of the Thermal Envelope, Washington, DC, November 18 **(filmed interview)**.
83. Aksamija, A., (2015). "Innovations in Architecture: Materials, Design and Technology", SpArc Canada, Toronto, Canada, October 18-20 **(keynote presentation)**.
84. Aksamija, A., (2015). "Regenerative Design of Existing Buildings for Net-Zero Energy Use", International Conference on Sustainable Design, Engineering and Construction 2015, Chicago, May 10-13.
85. Aksamija, A., (2015). "High-Performance Building Envelopes: Design Methods for Energy-Efficient Facades", Building Enclosure Science and Technology (BEST) 4 Conference, National Institute of Buildings Sciences (NIBS), Kansas City, MO, April 12-15.
86. Aksamija, A., and Haymaker, J., (2015). "State of Research in Architecture", Architectural Research Centers Consortium 2015 Conference, Future of Architectural Research, Chicago, IL, April 6-9 **(keynote presentation)**.
87. Aksamija, A., (2015). "Net-Zero Energy Retrofits for Commercial Buildings", Architectural Research Centers Consortium (ARCC) 2015 Conference, Chicago, IL, April 6-9.
88. Aksamija, A., (2015). "Innovation and BIM in Architectural Education: Teaching Advanced Digital Technologies to Beginner Designers", 31st National Conference on the Beginning Design Student 2015, University of Texas, Houston, February 26-28.
89. Aksamija, A., (2015). "Design Methods and Performance Analysis for Innovative Facade Systems", Kent State University, College of Architecture & Environmental Design, February 5 **(invited presentation)**.
90. Aksamija, A., (2015). "Integrating Research and Design for Innovative Practice", University of North Carolina Charlotte, School of Architecture, January 14 **(invited presentation)**.
91. Aksamija, A., (2014). "Design of Sustainable, High-Performance Building Facades", 9th Energy Forum on Advanced Building Skins, October 28-29, Bresannone, Italy **(invited presentation)**.
92. Aksamija, A., Abdullah, A., and Cross, B., (2014). "Whole Building Energy Analysis: A Comparative Study of Different Simulation Tools and Applications in Architectural Design", 2014 ACEEE Summer Study on Energy Efficiency in Buildings, Pacific Grove, CA, August 17-22.
93. Aksamija, A., (2014). "Research in Practice: Methods and Models", University of Illinois at Urbana-Champaign, School of Architecture, April 22 **(invited presentation)**.
94. Aksamija, A., (2014). "Environmental Building Design in Practice and Innovation", University of Massachusetts Amherst, Building Construction and Technology, February 24 **(invited presentation)**.
95. Aksamija, A., (2013). "Building Technology Research in Practice and Innovation", Architecture+Construction Alliance, Rhode Island School of Design, Providence, RI, November 14 **(invited presentation)**.
96. Aksamija, A., (2013). "Daylight and Energy Use: Simulations and Modeling", University of Massachusetts Amherst, MA, November 6 **(invited presentation)**.
97. Aksamija, A., (2013). "Interdisciplinary Research: Building, Technology and Environment", Drexel Smart House, Drexel University, Philadelphia, PA, October 24 **(invited lecture)**.
98. Aksamija, A., (2013). "Sustainable and High-Performance Facades: Design Methods, Analysis, and Case Studies", GreenExpo365 Webinar, October 16 **(invited presentation)**.
99. Aksamija, A., (2013). "Emerging Technologies in Architectural Design and Innovation: Lessons Learned from Practice", Architecture+Design Lecture Series, University of Massachusetts Amherst, October 8.



100. Aksamija, A., and Raines, K., (2013). "Design-Integrated Computation and Building Performance Modeling", 1st Stanford Workshop on Computational Methods for Sustainable Building Design, Stanford University, Stanford, CA, September 26.
101. Aksamija, A., (2013). "Tools for Design Research", Perkins&Will, Chicago, IL, June 16.
102. Aksamija, A., (2013). "Sustainable Facades and Emerging Facade Technologies", Perkins&Will, Chicago, May 14.
103. Aksamija, A., and Abdullah, A., (2013). "Building Technology Research in Architectural Practice: Lessons Learned from Implementations of Energy-Efficient Advanced Building Technologies", 2013 ACEEE Summer Study on Energy Efficiency in Industry, Niagara Falls, NY, July 23-28.
104. Aksamija, A., (2013). "Sustainable and High-Performance Facades: Design Methods, Analysis, and Case Studies", AIA National Convention, Denver, CO, June 20.
105. Aksamija, A., and Arnold, A., (2013). "How Integrated Project Delivery and BIM are Used and Provide Value for Your Capital Projects", International Facility Management Association, Building Information Modeling Community of Practice (BIMLO COP), June 12 (**invited presentation**).
106. Aksamija, A., (2013). "Sustainable and High-Performance Facades: Design Methods, Analysis, and Case Studies", AIA National Convention, Denver, CO, June 20.
107. Aksamija, A., (2013). "Tech Lab Research and Projects", Drexel University, April 23 (**invited presentation**).
108. Aksamija, A., (2013). "Materials as the Channel for Innovation: Impact of Emerging Building Technologies in Architecture", ArchiSpec 2013 Summit, Savannah, GA, March 18 (**keynote presentation**).
109. Aksamija, A., and Green, D., (2013). "Visibility of Research in Design Practice: Current and Emerging Trends", Architectural Research Centers Consortium (ARCC) 2013 Conference, Charlotte, NC, March 27-30.
110. Aksamija, A., (2012). "BIM-Based Building Performance Analysis", Ecobuild America 2012, Washington, DC, December 3-7.
111. Aksamija, A., (2012). "Sustainable and High-Performance Facades: Design Methods, Analysis and Case Studies", Facade Design and Delivery 2012, Chicago, September 19-21.
112. Aksamija, A., and Toman, B., (2012). "Design and Delivery of High Performance Facades: Design Methods, Analysis, Evaluation and Testing", Workshop at the Facade Design and Delivery 2012, Chicago, September 19-21.
113. Aksamija, A., (2012). "BIM-Based Building Performance Analysis: Evaluation and Simulation of Design Decisions", 2012 ACEEE Summer Study on Energy Efficiency in Buildings, Pacific Grove, August 13-17.
114. Aksamija, A., (2012). "Perkins+Will Tech Lab/High Performance Buildings Research", 2nd NSF Workshop on Architecture and Engineering of Sustainable Buildings, Chicago, July 26-27.
115. Tang, M., and Aksamija, A., (2012). "Performance-Based Generative Design Process: An Investigation of the Parametric Nature of Architecture", ACSA Digital Aptitudes Conference, Boston, March 1-4.
116. Tang, M., Anderson, J., Aksamija, A., and Hodge, M., (2012). "Performance-Based Generative Design", Project presentation, ACSA Digital Aptitudes Conference, Boston, March 1-4.
117. Aksamija, A., (2011). "Building Technology Research in Architectural Practice: Emerging Trends", Architectural Research Centers Consortium (ARCC) 2011 Conference, Lawrence Technological University, Detroit, April 20-24.
118. Aksamija, A., (2011). "Building Simulations and Sustainability in Architectural Practice: Use of BIM for Integrated Design and Analysis", The U.S. National Science Foundation and The Scientific and Technological Research Council of Turkey, Workshop on the Architecture and Engineering of Sustainable Buildings, Istanbul, Turkey, May 16-20 (**invited presentation**).
119. Aksamija, A., (2011). "Building Technology Laboratory: Research", Georgia Institute of Technology, College of Architecture, High-Performance Buildings Research Group, August 17.
120. Aksamija, A., (2011). "Performance-Based Design of Building Skins: Parametric Modeling", DAAP, University of Cincinnati, April 5.



121. Guttman, M., Aksamija, A., Meador T. and Rangarajan, H., (2010). "Autodesk® Ecotect® to Microsoft® Excel® to Revit®: A Computational Approach to Sustainable Design", Autodesk University 2010 Conference, Las Vegas, December 3.
122. Aksamija, A., (2010). "Analysis and Computation: Sustainable Design in Practice", Design Principles and Practice 2010, University of Chicago, IL, February 15-17.
123. Rangarajan, H., and Aksamija, A., (2009). "Parametric Modeling of Shading Devices in Maya", AIA DesignDC 09, Washington, DC, July 15-17.
124. Aksamija, A., and Iordanova, I., (2009). "Multimodal Representations of Architectural Design Knowledge", CAAD Futures 2009 Conference: Joining Languages, Cultures and Visions, Montreal, Canada, June 17-19.
125. Aksamija, A., (2009). "Transfer of Design Intent to Building Performance: Strategies, Criteria and Applications", AIA Vision 2009 Building Commissioning Symposium, Washington DC, March 5.
126. Aksamija, A., (2009). "Integration in Architectural Design: Methods and Implementations", Third International Conference on Design Principles and Practices, Technical University of Berlin, Germany, February 15-17.
127. Aksamija, A., (2008). "Knowledge-Based Representation of Architectural Design Process", Architectural Engineering Institute 08 Conference: Building Integration Solutions, Denver, CO, September 25-27.
128. Grobler, F., Aksamija, A., Kim, H., Krishnamurti, R., Yue, K., and Hickerson, C., (2008). "Ontologies and Shape Grammars: Communication Between Knowledge-Based and Generative Systems", Design Computing and Cognition (DCC 08) Conference, Georgia Institute of Technology, GA, June 23-25.
129. Aksamija, A., and Ali, M. M., (2007). "Emerging Technologies and Sustainability Practices in Architecture: Aiming for Zero-Energy Buildings", Europa 11: Digital Thinking in Architecture, Urban Planning, Civil Engineering and Archeology, University of Montreal, Canada, September 19-21.
130. Aksamija, A. and Grobler, F., (2007). "Architectural Ontology: Development of Machine-Readable Representations for Building Design Drivers", ASCE Computing in Civil Engineering Conference, Carnegie Mellon University, Pittsburgh, PA, July 24-27.
131. Aksamija, A. and Grobler, F., (2007). "Architectural Ontology: Knowledge Management Resource for Building Design", Construction Research Congress 2007, American Society of Civil Engineers, Grand Bahamas Island, May 6-8.
132. Zisko-Aksamija, A., (2007). "A Computer Modeling Strategy for Sustainable High-Rises", Environmental Council, Environmental Horizons 2007, University of Illinois at Urbana-Champaign, IL, April 20-21.
133. Zisko, A., (2006). "Smart and Nano Materials in Architecture", Center for Nanoscale Science and Technology, Nanotechnology Workshop 2006, Beckman Institute, IL, May 4-5.
134. Zisko, A., (2006). "Smart and Nano Materials in Architecture: New Technologies for Sustainable Design", *Environmental Council, Environmental Horizons 2006*, University of Illinois at Urbana-Champaign, April 18-19.
135. Elvin, G., and Zisko, A., (2005). "Small Plans: Nanotechnology, Architecture and Future of the Built Environment", MNTL and Center for Nanoscale Science and Technology Workshop 2005, Beckman Institute, IL, May 5-6.

POPULAR PRESS/MEDIA COVERAGE/BOOK REVIEWS

1. Farid Mohajer, M., (2024). "Could 'Smart' Building Facades Heat and Cool Buildings?", Stantec Ideas, February 13, <https://www.stantec.com/en/ideas/market/residential/could-smart-building-facades-heat-cool-buildings>.
2. University of Utah, (2023). "Provost's Banner Project Highlights Researchers", @THEU, May 17, <https://attheu.utah.edu/facultystaff/provosts-banner-project-highlights-researchers/>.
3. AIA Utah, (2023). "Highlighting Dr. Ajla Aksamija", *Reflexion: AIA Utah Magazine*, Vol. 3, No. 2, pp. 20-23, <https://reflexion.thenewslinkgroup.org/highlighting-dr-ajla-aksamija/>.
4. Moreira Neto, E., (2022). "Métodos de Pesquisa Para a Profissão Arquitetônica - Uma Resenha Crítica", *Cadernos de Arquitetura e Urbanismo | Paranoá*, No. 32, pp. 1-10 (book review).



5. AIA Utah, Building Enclosure Council and the Committee on the Environment, (2022). "A Building Technology Conversation with Ajla Aksamija" Podcast, <https://www.aia.org/articles/6473109-a-building-technology-conversation-with-aj>.
6. (2021). Architecture and Innovation Podcast, <https://ceraclad.com/podcasts/240574>.
7. Burns, W., (2021). "How are Research Organizations Supporting the Decarbonization of Buildings in Europe?", <https://resorg.news/2021/09/15/how-are-research-organizations-supporting-the-decarbonization-of-buildings-in-europe/> (interview).
8. Green, D., (2021). "Book Review: Research Methods for the Architectural Profession", *Perkins&Will Research Journal*, Vol. 13, No. 1, pp. 64-65 (book review).
9. Patterson, M., (2021). "Book Review of Research Methods for the Architectural Profession", *SKINS Newsletter*, April 27, <https://www.facadetronics.org/articles/book-review-of-research-methods-for-the-architectural-profession> (book review).
10. (2021). "High-performance Building Facades Workshop Organized by the Department of Architecture for Industry Professionals", University of Massachusetts News & Media Relations, February 21, <https://www.umass.edu/newsoffice/article/high-performance-building-facades-workshop>.
11. (2020). "Ajla Aksamija Elected as the Vice President of the Facade Tectonics Institute", University of Massachusetts News & Media Relations, December 21, <https://www.umass.edu/newsoffice/article/ajla-aksamija-elected-vice-president>.
12. (2020). "The Science of Staying Cool", Interview on National Public Radio (NPR) Science Show "The Pulse", May 29, <https://whyy.org/episodes/the-science-of-staying-cool/>.
13. Carolan, M., (2019). "Fruitful Facade: Research Duo Poised to Make Buildings Greener than Ever", *UMass Magazine*, <https://www.umass.edu/magazine/fall-2019/facade>.
14. (2019). "Smart Façades: Working from the Outside In to Make Buildings More Energy Efficient", University of Massachusetts News & Media Relations, June 20, <https://www.umass.edu/newsoffice/article/smart-fa%C3%A7ades-working-outside-make>.
15. (2019). Interview for Book Oxford Handbook of Ethics of AI, "Intersection of Architectural Design and AI integration", February 7.
16. (2018). Interview on WMUA 91.1 Radio Show "Lab Talk with Laura", March 6, <https://soundcloud.com/labtalkwithlaura/ep-7-francis-ajla-and-kim-3618>.
17. (2018). "Shaping the Next Generation of Architects", *Architecture2030*, March 6, <http://architecture2030.org/shaping-the-next-generation/>.
18. (2017). "Aksamija Speaks on Sustainable Building Facade Systems in Shanghai", University of Massachusetts News & Media Relations, October 10, Available from <http://www.umass.edu/newsoffice/article/aksamija-speaks-sustainable-building>.
19. (2017). "2030 Curriculum Project: New Courses", February 9, Available from <http://architecture2030.org/2030-curriculum-project-new-courses/> (overview of award-winning courses in sustainable design).
20. Davis, D., (2015). "Three Top Firms That are Pursuing Design Research", *Architect: The Journal of the American Institute of Architects*, February, Available from http://www.architectmagazine.com/technology/three-top-firms-that-are-pursuing-design-research_o (interview and review of research work).
21. Senko, J., (2014). "Ajla Aksamija – Sustainable Facades", *Architectural Research Centers Consortium (ARCC)*, November 2, Available from <http://www.arcc-arch.org/ajla-aksamija-sustainable-facades/> (book review).
22. Curtland, C., (2014). "Climate Based Design for Sustainable Facades", *Buildings Magazine*, June, (interview).
23. (2014). "Super BIM: 7 Award-Winning BIM/VDC-Driven Projects", *Building Design+Construction*, May 1, Available from <http://www.bdcnetwork.com/super-bim-7-award-winning-bimvdc-driven-projects> (media coverage).
24. (2014). "Architecture + Design Students Win First Place in Net Zero Energy Design Competition", University of Massachusetts News & Media Relations, March 13, Available from <http://www.umass.edu/newsoffice/article/architecture-design-students-win-first> (media coverage for student design competition).



25. Senko, J., (2013). "Book Review – Sustainable Facades: Design Methods for High-Performance Building Envelopes", Spacing, November 5, Available from: <http://spacing.ca/national/2013/11/05/book-review-sustainable-facades-design-methods-high-performance-building-envelopes/> (book review).
26. Groat, L., and Wang, D., (2013). Architectural Research Methods, 2nd edition, Hoboken, NJ: Wiley, pp. 343-344 (review of research work).
27. (2013). "Green Building Design Research Expert Dr. Ajla Aksamija to Speak at Drexel", Drexel-NOW, October 7, Available from <http://drexel.edu/now/news-media/releases/archive/2013/October/Ajla-Aksamija/> (media coverage).
28. Nayar, J., (2013). "Windows of Opportunity", SNAP: The Magazine of Sweets, August/September, pp. 34-37, Available from http://www.nxtbook.com/nxtbooks/mh/snap_20130809/index.php?startid=34 (interview).
29. Sullivan, C., and Sullivan, A., (2013). "Energy-Efficient Glazing", Building Design+Construction, August, pp. 49-45, Available from http://www.bdcuniversity.com/sites/default/files/AIA_BDC0813.pdf (interview).
30. (2011). "Perkins+Will Research Journal Looks at Evidence-Based Design, Information Content of BIM & More", GreenArchITEXT, December 11, Available from <http://www.greenarchitext.com/2011/12/perkins-will-research-journal-looks-at-evidence-based-design-information-content-of-bim-more.html> (review of research work).
31. Mazzocco, M., (2010). "Sustainable Facades: Natural Evolution Rather Than a Desperate Revolution", Architectural Products: Green Issue, March, pp. 41-46 (interview).

SERVICE, OUTREACH AND COMMUNITY INVOLVEMENT

COMMITTEES AND SERVICE ROLES/DEPARTMENT AND COLLEGE

- Transforming Places, Practices and Pedagogies Collaborative (TP³C), University of Utah, Director (2021-present)
- School of Architecture, Graduate Admissions Review Committee (2024)
- School of Architecture, Retention Promotion Tenture (RPT) Advisory Committee (2023-2024)
- Leadership Committee, College of Architecture + Planning, University of Utah (2021-2023)
- UMass Architecture Research Collaborative, Director (2020-2021)
- UMass College of Humanities and Fine Arts, College Personnel Committee Member (2020-2021)
- Honors Program Director, Department of Architecture, University of Massachusetts Amherst (2018-2021)
- UMass Department of Architecture, Department Personnel Committee Chair (2018 to 2019, 2020 to 2021)
- UMass Department of Architecture, Department Personnel Committee Member (2017 to 2019, 2020 to 2021)
- UMass Department of Architecture, Research Committee (2015 to 2021)

COMMITTEES AND SERVICE ROLES/UNIVERSITY

- University of Utah, Senate Advisory Committee on University Strategic Planning (2024 to present)
- University of Massachusetts Amherst, Faculty Senate, District 7 Representative (2019 to 2021)
- University of Massachusetts Amherst, Energy Transition Institute, Building Committee Co-Chair (2020 to 2021)
- University of Massachusetts Amherst, Energy Transition Institute (2019 to 2021)
- University of Massachusetts Amherst, Carbon Mitigation Taskforce (2018 to 2021)
- University of Massachusetts Amherst Virtual Reality/Augmented Reality Working Group (2018 to 2021)
- Center for Personalized Health Monitoring, UMass Institute for Applied Life Sciences, Affiliated Faculty (2017 to 2021)
- University of Massachusetts Amherst, Chancellors' Sustainability Advisory (CSAC) Committee, (2016 to 2021)



- MSP Pre-tenure Workshop Trainer (2017)
- University of Massachusetts Amherst, CSAC Sustainability Fund Review Sub-Committee, UMass Sustainability Engagement Innovation Fund, (2016 to 2021)
- University of Massachusetts Amherst Faculty Research/Healy Endowment Grants, Reviewer, Office of Vice Chancellor for Research and Engagement (2016)
- University of Massachusetts Amherst, Chancellors' Sustainability Committee, Green Subcommittee Member (2013 to 2016)

SCIENTIFIC AND TECHNICAL COMMITTEES/CONFERENCES

- Facade World Congress 2024, Salt Lake City, Organizing Committee
- Design Research Society (DRS) 2024 Conference, "Reimagining Care Through Evidence: Design Research, Patient Centered Solutions, and Culture of Care for Healthy Societies", rack co-Organizer and Reviewer,
- Annual Modeling and Simulation Conference (ANNSIM) 2024 Conference, Society for Modeling and Simulation International (SCS), Scientific Committee
- Facade Tectonics Institute (FTI) Education Forum 2023, co-Organizer
- Symposium on Simulation for Architecture and Urban Design (SimAUD) 2023, Scientific Committee
- Facade World Congress 2022, Los Angeles, Organizing Committee Chair
- Facade World Congress 2022, Los Angeles, Chair of the Scientific Committee
- Valenica International Biennial of Research in Architecture, 2022, Scientific Committee
- Symposium on Simulation for Architecture and Urban Design (SimAUD) 2022, Scientific Committee
- Architectural Research Centers Consortium (ARCC) 2022 Conference, Florida International University, Scientific Committee
- Facade Tectonics Institute, Facade Tectonics Forum: Simulation vs. Reality (2021), Moderator
- Architectural Research Centers Consortium (ARCC)/European Association for Architectural Education (EAAE) 2020 Conference, Scientific Committee
- 7th International Conference moNGeometrija2020, Faculty of Mechanical Engineering, University of Belgrade, Scientific Committee
- Facade World Congress 2020, Los Angeles, Scientific Committee
- Architectural Research Centers Consortium (ARCC) 2019 Conference, Ryerson University, Scientific Committee
- Building Technology Educators Society 2019 Conference, University of Massachusetts Amherst, Scientific Committee
- Architectural Research Centers Consortium (ARCC)/European Association for Architectural Education (EAAE) 2018 Conference, Temple University, Scientific Committee
- Architectural Research Centers Consortium (ARCC 2017) Conference, University of Utah, Scientific Committee
- Architectural Research Centers Consortium (ARCC)/European Association for Architectural Education (EAAE) 2016 Conference, Session Chair
- Architectural Research Centers Consortium (ARCC) 2015 Conference "Future of Architectural Research", Conference Chair, Chicago, April 6-9, 2015
- International Conference on Sustainable Design, Engineering and Construction 2015, Scientific Committee
- Association of Collegiate Schools of Architecture, Scientific Committee (2015)
- 9th Energy Forum 2014: Advanced Building Skins, Technical Committee and Session Chair
- Perkins&Will, Excellence in Execution Committee Member (2008 to 2015)
- Perkins&Will, Sustainable Design Initiative Committee Member (2008 to 2014)
- 2nd NSF Workshop on Architecture and Engineering of Sustainable Buildings, Workshop Co-Chair (2013)
- American Council on Energy Efficient Economy, Scientific Committee (2011, 2012, 2013)
- Informing Science and IT, Scientific Committee (2007-2010)



PROFESSIONAL SERVICE/ADVISORY ROLES/JURY PANELS/GUEST CRITIC

- CoStar Impact Award Jury Member (2024)
- Natural Sciences and Engineering Research Council of Canada (NSERC) Grant Proposal Reviewer (2023-2024)
- Utah System of Higher Education, Program Reviewer (2023)
- CoStar Impact Award Jury Member (2023)
- Facade Tectonics Institute, President (2021-2024)
- AIA Utah, Board Member (2021-2023)
- Facade Tectonics Institute, Vice President (2020-2021)
- 3 Minute Thesis Competition, BH Futures Foundation, Jury Member (2020, 2021)
- Facade Tectonics Institute, Strategic Planning Committee (2020-present)
- Facade Tectonics Institute, Board Member (2019-present)
- Facade Tectonics Institute, Chair of the Education Committee (2019-2024)
- Massachusetts Executive Office of Energy and Environmental Affairs, 80X50 Study Steering Committee (80% reduction of GHG by 2050), (2019-2021)
- Facade Tectonics Institute, Research Committee Member (2018-2021)
- International Urban Design & Architecture Design Awards 2018, Architecture Press Release (APR), Jury Member
- Netherlands Organisation for Scientific Research (NWO), Grant Proposal Reviewer (2018)
- Technical Advisory Group for High-Insulating Windows Research Projects, Lawrence Berkeley National Laboratory (2017-2020)
- Massachusetts Department of Energy Resources (DOER) Zero Energy Advisory Council (2017-2021)
- The American Institute of Architects (AIA)/National Institute of Building Sciences (NIBS) Building Research Information Database (BRIC) UMass Partner Leader (2017-2021)
- Western Massachusetts Chapter, American Institute of Architects Committee on the Environment (2016-2021)
- Facade Tectonics Institute, Founding Member (2016-present)
- American Institute of Architects (AIA), Research Committee (2015)
- American Institute of Architects (AIA) Technology in Practice (TAP) BIM Award 2014, Jury Member
- American Institute of Architects (AIA), Research Committee (2013)
- Tenure and Promotion Reviewer: University of Cincinnati, University of North Carolina at Charlotte, University of Massachusetts Amherst, Carnegie Mellon University, Texas A&M University, New Jersey Institute of Technology, Technion – Israel Institute of Technology
- Design Critic: Carnegie Mellon University (School of Architecture), University of Illinois at Urbana-Champaign (School of Architecture), University of Cincinnati (DAAP), Columbia College, University of Massachusetts Amherst, Rhode Island School of Design, University of North Carolina at Charlotte, Rensselaer Polytechnic Institute

EDITORIAL WORK/TECHNICAL REVIEWS

- *Simulation Journal*, Associate Editor (2023-present)
- *Perkins and Will Research Journal*, Founder and Editor (2008 to 2022)
- *Design Principles and Practices: An International Journal*, Associate Editor (Vol. 2, 2010 and Vol. 8, 2016)
- *Journal of Asian Architecture and Building Engineering* (2024-present)
- *Energy and Buildings*, Technical Reviewer (2020 to present)
- *Journal of Architectural Engineering*, Technical Reviewer (2018 to present)
- *The Plan Journal*, Reviewer (2018 to present)
- *Sustainability*, Technical Reviewer (2017 to present)
- *Journal of Architectural Education*, Technical Reviewer (2016 to present)
- *Journal of Green Building*, Technical Reviewer (2015 to present)
- *Journal of Building Engineering*, Technical Reviewer (2014 to present)



- *Energies Journal*, Technical Reviewer (2013 to present)
- *Buildings Journal*, Technical Reviewer (2013 to present)
- Francis & Taylor (Routledge), Editorial Reviewer (2013, 2015, 2019, 2020, 2021, 2022, 2023, 2024)
- John Wiley & Sons, Editorial Reviewer (2014, 2016, 2022)

OUTREACH, EDUCATIONAL AND COMMUNITY INVOLVEMENT

- “Winter Faculty Writing Retreat” Mentor, University of Utah, February 17, 2022
- “High-Performance Building Facades” Workshop Co-Organizer, January 6-15, 2021
- “Imagining Future Innovative Facades” Workshop Co-Organizer, August 14-20, 2020
- Goodwin Memorial Library, Hadley, Massachusetts, Sustainability Committee for new library building (2018-2020)
- Jones Library Design and Addition Study, community involvement with students, Amherst, Massachusetts (2017)
- New York Professional Outreach Program, Faculty Leader for Graduate Design IV (Spring 2016)
- Northeast Sustainable Energy Association (NESEA) Net Zero Energy Design Competition, Faculty Advisor (2013-2014)
- Champaign County Homeless Consortium (Member, 2003-2005)
- East St. Louis Affordable Housing Design: Designed sustainable housing for low-income families (2004-2005)

EXHIBITIONS

- “Beyond the Building”, UMass Department of Architecture Exhibit, New York, January 3-February 10, 2017
- “Timber in New York”, New York, September 16-October 21, 2016

PROFESSIONAL CERTIFICATIONS

- Construction Technologist Specialist (CDT): Construction Specifications Institute, 2010
- Leadership in Energy and Environmental Design (LEED) Accredited Professional (Specialty: Building Design + Construction): US Green Building Council, 2008

AWARDS/RECOGNITION

- American Society of Civil Engineers (ASCE), Journal of Architectural Engineering (JAE) Editor’s Choice Selection of Research Article Publication, 2024
- University of Utah, Recognition of Research Work through Provost’s Banner Project, 2023
- Facade Tectonics Institute (FTI) Fellow, 2022
- Massachusetts Clean Energy Center, Catalyst Program Award, Finalist, 2018
- UMass Distinguished Teaching Award Finalist, 2018
- Green Giant Award, Western Massachusetts American Institute of Architects (AIA) Committee on the Environment and USGBC-West Branch, 2017
- 2017: Architecture2030 Curriculum Project Award, Graduate Design IV and Sustainable Facades Seminar (most innovative sustainable design courses in the nation)
- 2016: Design Honor Award for Parkland College Student Union, Perkins&Will Design Leadership Council 2016 Biennale
- Distinguished Teaching Award Nominee, 2014 and 2017
- 2011: AIA College of Fellows Latrobe Prize (Finalist)
- 2007: Edward L. Ryerson Traveling Fellowship in Architecture
- 2007: Frank B. and Jennie B. M. Long Traveling Award
- 2005-2006: Francis J. Plym Doctoral Fellowship in Architecture
- 2005: US Achievement Academy Collegiate Architecture Award
- 2000: Ashby Memorial Scholarship in Architecture
- 2000: White Prize in Architectural Practice
- 1999-2003: George M. Pullman Scholarship
- 1999-2001: Fred S. Bailey Scholarship



DESIGN COMPETITIONS

- 2020: Massachusetts Clean Energy Center, Triple Decker Design Challenge (Honorable Mention: Most Innovative Design Award)
- 2014: NESEA Net Zero Energy Design Competition First Prize (Faculty advisor)
- 2005: Champaign County Historical Museum Lot Project Competition (1st prize recipient)
- 2004: Groen Hoek Design Competition
- 2002: Pilkington Glass House Competition

STUDENT ADVISING

PhD

- Suncica Milosevic, Doctoral Dissertation Advisor (University of Utah), 2022-present
- Suncica Milosevic, Doctoral Dissertation Advisor (University of Massachusetts Amherst), 2020-2022
- Hernan Castadena, Doctoral Dissertation Committee Member (University of Massachusetts Amherst), 2020-2022
- Ksenia Ruuska, Doctoral Dissertation Committee Member (University of Massachusetts Amherst), 2020-2022
- Zhaoyun Zeng, Doctoral Dissertation Committee Member (Georgia Institute of Technology), 2019-2020
- Hossam Mahmoud, Doctoral Dissertation Advisor (University of Massachusetts Amherst), 2017-present
- Mahsa Farid Mohajer, Doctoral Dissertation Advisor (University of Massachusetts Amherst), 2016-2022
- Mahsa Minaei, Doctoral Dissertation Advisor (University of Massachusetts Amherst), 2015-2020
- Troy Peters, Doctoral Dissertation Advisor (University of Massachusetts Amherst), 2014-2019
- Somayeh Tabatabaee, Doctoral Dissertation Committee Member (University of Massachusetts Amherst), 2013-2017
- Paola Sanguinetti, Doctoral Dissertation Committee Member (Georgia Institute of Technology), 2006-2012

Masters

- Jami Quesenberry, Master of Science in Architectural Science Advisor (University of Utah), 2022-present
- David Kirk, Master of Science in Architectural Science Advisor (University of Utah), 2021-2022
- Paula Elizabeth Esquinca, Masters of Science in Building and Architectural Engineering Committee Member (Politecnico di Milano), 2021-2024
- Stephen Fink, Master of Architecture Advisor (University of Massachusetts Amherst), 2020-2021
- Andrew Wueling, Masters of Architecture Advisor (University of Massachusetts Amherst), 2020-2021
- Guy Vignaeu, Master of Architecture Advisor (University of Massachusetts Amherst), 2018-2019
- Erica Shannon, Master of Architecture Advisor (University of Massachusetts Amherst), 2017-2018
- Ryan Rendano, Master of Architecture Committee Member (University of Massachusetts Amherst), 2017-2018
- Lukasz Czarniecki, Master of Architecture Advisor (University of Massachusetts Amherst), 2016-2017
- Sara Jandaghi Jafari, Master of Architecture Advisor (University of Massachusetts Amherst), 2016-2017
- Dylan Brown, Master of Architecture Advisor (University of Massachusetts Amherst), 2016-2017
- Mohsen Daemi, Master of Science in Design Advisor (University of Massachusetts Amherst), 2014-2016
- Yi Wang, Master of Architecture Advisor (University of Massachusetts Amherst), 2014-2015
- Young Duk Kim, Master of Architecture Advisor (University of Massachusetts Amherst), 2014-2015



- Tianye Song, Master of Architecture Advisor (University of Massachusetts Amherst), 2014-2015
- Mahsa Gholamhosseinzadeh, Master of Architecture Advisor (University of Massachusetts Amherst), 2013-2015
- Adam Casteli, Master of Architecture Advisor (University of Massachusetts Amherst), 2013-2014
- Maryam Shafiee, Master of Architecture Advisor (University of Massachusetts Amherst), 2013-2014
- Olaoluwa Silva, Master of Architecture Advisor (University of Massachusetts Amherst), 2013-2014
- Daniel Heckman, Master in Interior Architecture Committee Member (Columbia College), 2010-2011

Honors Senior Theses

- Jordan Luther, Advisor, Department of Architecture, Commonwealth Honors College, University of Massachusetts Amherst (2020-2021)
- Tamara Malhas, Committe Member, Department of Architecture, Commonwealth Honors College, University of Massachusetts Amherst (2020-2021)
- Caroline Dolan, Committe Member, Department of Architecture, Commonwealth Honors College, University of Massachusetts Amherst (2019-2020)
- Michael Caine, Committe Member, Department of Architecture, Commonwealth Honors College, University of Massachusetts Amherst (2018-2019)

Bachelor's Degree with Individual Concentration Program

- Sophia Kramer, Advisor, Mechanical and Industrial Engineering, Biomimetic Design (2019-2021)

Independent Studies

- Jami Quesenberry, (School of Architecture, University of Utah), Spring 2023
- David Kirk, (School of Architecture, University of Utah), Fall 2021, Spring 2022
- Suncica Milosevic, (Department of Environmental Conservation, University of Massachusetts Amherst), Spring 2021
- Pranav Amin, (Department of Architecture, University of Massachusetts Amherst), Spring 2021
- Jordan Luther, (Department of Environmental Conservation, University of Massachusetts Amherst), Spring 2021
- Nicholas Martin, (Department of Architecture, University of Massachusetts Amherst), Spring 2021
- Lora Marks, (Department of Architecture, University of Massachusetts Amherst), Spring 2021
- Yael Liebman, (Department of Environmental Conservation, University of Massachusetts Amherst), Fall 2020 and Spring 2021
- Guy Vignaeu, (Department of Architecture, University of Massachusetts Amherst), Spring 2019
- Hossam Mahmoud, (Environmental Conservation, University of Massachusetts Amherst), Spring 2018
- Mahsa Farid Mohajer, (Environmental Conservation, University of Massachusetts Amherst), Spring 2017
- Yi Wang, (Environmental Conservation, University of Massachusetts Amherst), Spring 2016
- Mahsa Minaei, (Environmental Conservation, University of Massachusetts Amherst), Spring 2016
- Mohsen Daemi, (Department of Architecture, University of Massachusetts Amherst), Spring 2015
- Troy Peters, (Environmental Conservation, University of Massachusetts Amherst), Fall 2014
- Mrunmayee Beke, (Building Construction and Technology, University of Massachusetts Amherst), Fall 2014
- Mohsen Daemi, (Department of Architecture, University of Massachusetts Amherst), Fall 2014
- Opalia Meade, (Architecture+Design, University of Massachusetts Amherst), Spring 2014
- Mohsen Daemi, (Architecture+Design, University of Massachusetts Amherst), Spring 2014
- Stephanie Cano, (Architecture+Design, University of Massachusetts Amherst), Fall 2013



RELEVANT ARCHITECTURAL PROJECTS EXPERIENCE

King Saul Abdulaziz University
Riyadh, Kingdom of Saudi Arabia

RUSH University Medical Center
Chicago, Illinois

Princess Nora Bint Abdulrahman
University for Women
Riyadh, Kingdom of Saudi Arabia

Wilson Hospice Center
Albany, Georgia

Spaulding Rehabilitation Hospital
Boston, Massachusetts

King Abdullah Financial District
Riyadh, Kingdom of Saudi Arabia

Duke Medical Pavilion
Durham, North Carolina

George Mason University, Science+Technology
Buildings
Fairfax, Virginia

St. Elizabeth's Campus
Washington, DC

Thomas Jefferson Independent Dayschool
Joplin, Missouri

Ballou High School
Washington, DC

Kenya Women and Children's Wellness Center
Nairobi, Kenya

Calexico Port of Entry
Calexico, Mexico

San Jose University Student Center
San Jose, California

Atlanta Beltline
Atlanta, Georgia

Zirakpur Phase 1 Development Project
New Delhi, India

University of Virginia, Commonwealth Center
for Advanced Manufacturing Building
Charlottesville, Virginia

Resurrection University
Chicago, Illinois

Parkland College Student Services Addition
Champaign, Illinois

Case Western Reserve University
Cleveland, Ohio

Genzyme Operations Center
Northborough, Massachusetts

Inova Mount Vernon Hospital
Alexandria, VA

Kauffman School
Kansas City, Missouri

Shipra Zirakpur Phase 1 Development Project
New Delhi, India

University of Minnesota Amundson Hall
Minneapolis, Minnesota

University of South Carolina Student Health
Services Building
Columbia, South Carolina

Valley Health Page Memorial Hospital
Luray, Virginia

Wright State University Neuroscience Engineering
Collaboration Building
Dayton, Ohio

Medical Center of Plano
Dallas, Texas

Reliant Norwood
Norwood, Ohio

Highland Park High School Renovation
Highland Park, Illinois

University of Cincinnati Gardner Neuroscience
Institute
Cincinnati, Ohio

Invensys
Foxborough, Massachusetts

University of Virginia Hospital Expansion Project
Charlottesville, Virginia

