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Position: Principal Investigator, Windows and Envelope Materials Group, LBNL. 2010 to Present

Past Positions: President, *Carli, Inc.* 1995 to 2010

Senior Research Fellow. *University of Massachusetts.* 1992-2008.

Research Associate: *University of Massachusetts.* 1987-1992

Senior Design and Software Engineer. Energoprojekt, Yugoslavia. 1983-1987

Degrees: Ph.D., Mechanical Engineering, 1992, *University of Massachusetts*, Amherst, MA

B.Sc., M.S., Mechanical Engineering, 1982, *University of Belgrade*, Yugoslavia

Selected Professional Experience and Consulting:

Research in thermal and optical performance of windows. 2010 to present. Principal Investigator, *Windows and Envelope Materials Group, LBNL.*

Expert analysis on court cases in windows energy performance. 1992-2016. Expert Analyst and Witness. *Independent Consultant.*

Software development and deployment of software tools for building energy performance. 1995 to 2010. Chief software architect. *Carli, Inc.*

Measurements and computer simulations services to over 100 fenestration and building materials manufacturers. 2000 to 2010. NFRC Certified simulator. *Carli, Inc.*

Design and R&D work for manufacturers of building products. 1992 to 2010. Principal Investigator. *University of Massachusetts and Carli.*

Research of the thermal performance of fenestration systems for *NFRC.* 2002 to 2010. Principal Investigator. *University of Massachusetts and Carli, Inc.*

Technical assistance to transitional economy countries in building energy efficiency for *U.S. DOE.* 2001 to 2008. Consultant. *University of Massachusetts and Carli, Inc.*

Energy Performance of Skylights for *AAMA Skylight Collaborative.* 2005 to 2006. Consultant. *Carli, Inc.*

Fenestration Thermal Performance Research for *U.S. DOE.* 1987 to 2005. Principal and Independent Investigator. *University of Massachusetts.*

Evaluations of energy related inventions for *NIST*, Gaithersburg, MD. 1993 to 1996. *Independent Consultant.*

Energy conservation in industrial buildings and processes. 1987 to 1989. Energy Auditor. *University of Massachusetts.*

Computer Aided Engineering Design in Buildings, 1983 to 1987. Senior Design and Software Engineer. *Energoprojekt-Energodata Co.,* Belgrade, Yugoslavia.

Professional and Scientific Organizations:

ASME, American Society of Mechanical Engineers, Member, 1989 to present.

ASHRAE, American Society for Heating, Refrigerating, and Air Conditioning Engineers, Inc., Member, 1985 to present.

ASTM, American Society for Testing and Materials, Member, 1996 to present

NFRC, National Fenestration Rating Council, Associate Member, 1995 to present

ISO, International Standards Organization, Member of TC163/WG2, WG11, and WG14, 1999 to present

IEA, International Energy Agency, U.S.A. representative and co-leader of project A1 for the Task 27.

Honors and Awards:

Distinguished Teaching Award - Honorable Mention, Mechanical Engineering Department, University of Massachusetts. 1993.

ASHRAE Grant-in-Aid, American Society of Heating, Refrigerating, and Air Conditioning Engineers, Inc. 1989.

Annual October Award for scientific work, Parliament of the City of Belgrade, Yugoslavia. 1985.

ASHRAE Best Paper Award for 1984, American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc. 1985.

Patents and Inventions:

Patent: IB-3155. 2014. Truss thermal break system for commercial window frames - "Berkeley Frame".

Papers and Publications:

Refereed Journal Papers:

Todorovic, B.; Curcija, D.; and Zivkovic, B. 1982. "Solar Radiation Through Glass Surface of Building". *New Sources of Energy*, RZNO Srbije, Belgrade, 1982.

Rubin, M.; Jonsson, J.; Kohler, C.; Klems, J.; Curcija, D.; and N. Stojanovic "Bidirectional Optical Properties of Slat Shading: Comparison Between Monte-Carlo And Radiosity Methods." *Solar Energy*. 2007.

Gustavsen, A.; Arasteh, D.; Jelle, B.P.; Curcija, D.C.; Kohler, C. 2008. "Developing Low-conductance Window Frames: Capabilities and Limitations of Current Window Heat Transfer Design Tools State-of-the-Art Review". *Journal of Building Physics*. 2008, Vol. 32, pp 131.

Hart, R.H.; Goudy, C.W.; Arashteh, D.A., and Curcija, D.C. 2012. "Thermal Performance Impacts of Center-of-Glass Deflections in Installed Insulating Glazing Units." *Energy and Buildings*. June 2012.

Jonsson, J.C.; Goudey, C.W.; and Curcija, D.C. 2012. "An Edge-Heating Device for Optical Measurements of Thermochromic Glazing Materials and Recommended Test Procedure." *ASTM Journal of Testing and Evaluation*. October 2012.

Srinivasan, R.S.; Braham, W.W.; Campbell, D.E.; and Curcija, D.C. 2012. "Re(De)fining Net Zero Energy: Renewable Energy Balance in environmental building design." *Building and Environment*. 47 (2012) 300-315

Peng, J; Curcija, D.C.; Lu, L.; Selkowitz, S.E.; Yang, H; and Mitchell, R. 2015. "Developing a method and simulation model for evaluating the overall energy performance of a ventilated semi-transparent photovoltaic double-skin façade". *Progress in Photovoltaics: Research And Applications*. DOI: 10.1002/pip.2727

Peng, J.; Curcija, D.C.; Lu, L.; Selkowitz, S.E.; Yang, H.; and Zhang, W. 2015. "Numerical investigation of the Energy Saving Potential of a Semi-Transparent Photovoltaic Double-Skin Façade in a Cool-Summer Mediterranean Climate". *Applied Energy*. <http://dx.doi.org/10.1016/j.apenergy.2015.12.074>

Firlag, S. Yazdanian, M.; Curcija, C.; Kohler, C; Vidanovic, V; Hart, R.; and Czarnecki, S. 2015. "Control algorithms for dynamic windows for residential buildings." *Energy and Buildings*. 109 (2015) 157–173. <http://dx.doi.org/10.1016/j.enbuild.2015.09.069>

Hart, R.; Goudey H.; and Curcija, D.C. 2018. "Experimental validation for thermal transmittances of window shading systems with perimeter gaps." *Journal of Building Performance Simulation*, DOI: 10.1080/19401493.2018.143619

Hart, R.; Selkowitz, S.; and Curcija, C. 2018. "Thermal Performance and Potential Annual Energy Impact of Retrofit Thin-glass Triple-Pane Glazing in US." *Residential Buildings. Build. Simul.* (2019) 12: 79. <https://doi.org/10.1007/s12273-018-0491-3>

Peng, J; Curcija, D.C.; Thanachareonkit, A.; Lee, E.S.; Goudey, H.; Selkowitz, S.E. 2019. "Study on the overall energy performance of a novel c-Si based semitransparent solar photovoltaic window." *Applied Energy*, <https://doi.org/10.1016/j.apenergy.2019.03.107>

Refereed Conference Papers:

Todorovic, B; Curcija, D. 1982. "Cooling Loads from Solar Radiation Through Partially Shaded Windows Taking Heat Storage into Account". *ASHRAE Transactions*, Vol. 88, Part II, June 1982.

Todorovic, B; Curcija, D. 1984. "Calculative Procedure for Estimating Cooling Loads Influenced by Window Shadowing, Using Negative Cooling Load Method". *ASHRAE Transactions*, Vol. 90, Part II, June 1984.

Todorovic, B; Curcija, D. 1985. "Calculation of Cooling Loads in Buildings from Solar Radiation Using Negative Cooling Load Method". *KGH Journal*, Belgrade, Yugoslavia, 1985.

Curcija, D.; Ambs, L.L.; Goss, W.P. 1989. "Comparison of European and North American Window U-Value Calculation Procedures". *ASHRAE Transactions*, Vol. 95-1, January 1989.

Curcija, D.; Goss, W.P. 1993. "Two Dimensional Natural Convection Over the Isothermal Indoor Fenestration Surface - Finite Element Numerical Solution." *ASHRAE Transactions*, Vol. 99, Part I, January 1993.

Curcija, D.; Goss, W.P. 1994. "Two-Dimensional Finite Element Model of Heat Transfer in Complete Fenestration Systems." *ASHRAE Transactions*, Vol. 100, Part II, June 1994.

Curcija, D.; Goss, W.P. 1995. "Two-Dimensional Forced Convection Perpendicular to the Outdoor Fenestration Surface - FEM Solution." *ASHRAE Transactions*, Vol. 101, Part I, January 1995.

Curcija, D.; Goss, W.P. 1995. "Three-Dimensional Finite Element Model of Heat Transfer in Complete Fenestration Systems" *Window Innovations Conference '95*, Toronto, Canada, June 1995.

Arasteh, D.; Finlayson, E.; Rubin, M.; Sadlier, J.; Huizenga, C.; and Curcija, D. 1995. "Recent Technical Improvements to the WINDOW Computer Program" *Window Innovations Conference '95*, Toronto, Canada, June 1995.

Curcija, D.; Goss, W.P. 1995. "New Correlations for Convective Heat Transfer Coefficient on Indoor Fenestration Surfaces - Compilation of More Recent Work." *ASHRAE/DOE/BTECC Conference, Thermal Performance of the Exterior Envelopes of Buildings VI*, 1995.

Finlayson, E.; Arasteh, D.; Sadlier, J.; Sullivan, R.; Huizenga, C.; Curcija, D.; and Beall, M. 1995. "Advancements in Thermal and Optical Simulations of Fenestration Systems: The Development of WINDOW 5." *ASHRAE/DOE/BTECC Conference, Thermal Performance of the Exterior Envelopes of Buildings VI*, 1995.

Zhao, Y.; Curcija, D.; Goss, W.P. 1996. "Condensation Resistance Validation Project - Detailed Computer Simulations Using Finite Element Methods" *ASHRAE Transactions*, Vol. 102, Pt. 2. June 1996.

Zhao, Y.; Curcija, D.; Goss, W.P. 1997. "Prediction of the Multicellular Flow Regime of Natural Convection in Fenestration Glazing Cavities." *ASHRAE Transactions*, Vol. 103, Pt. 1. January, 1997.

Gatland, S.D.; Goss, W.P.; and Curcija, D. 1997. "The Design and Calibration of a Research Hot Box." *ASTM Conference Proceedings*, Ottawa, June 1997.

Zhao, Y.; Curcija, D.; and Goss, W.P. 1997. "A New Set of Correlations for Predicting Convective Heat Transfer in Fenestration Glazing Cavities Based on Computer Simulations Using Finite Element Method." *CLIMA 2000 conference in Brussels, Belgium*. September 1997

Refereed Conference Papers (Cont.):

Zhao, Y; Curcija, D.; Power, J.P.; and Goss, W.P. 1998. "Improved Heat Transfer Correlations For Quantifying Laminar Natural Convection Across Fenestration Glazing Cavities." *Thermal Performance of Building Envelopes VII*, Clearwater, FL. December, 1998.

Power, J.P. Goss, W.P.; and Curcija, D. 1998. "A Comparison Between Two-Dimensional Laminar and Turbulent Flow Heat Transfer Models with Experimental Results for Transition Regime Condition in Tall Glazing Cavities." *Thermal Performance of Building Envelopes VII*, Clearwater, FL. December, 1998.

Curcija, D.; Zhao, Y.; and Goss, W.P. 1998. "The Effect of Realistic Boundary Conditions in Computer Modeling of Condensation Resistance for Fenestration Systems." *Thermal Performance of Building Envelopes VII*, Clearwater, FL. December, 1998.

Branchaud, T; Curcija, D.; Goss, W.P. 1998. "Local Heat Transfer in Open Frame Cavities of Fenestration Systems." *Thermal Performance of Building Envelopes VII*, Clearwater, FL. December, 1998.

Griffith, B.; Curcija, D.; Turler, D.; Arasteh, D. 1998. "Improving Computer Simulations of Heat Transfer For Projecting Fenestration Products: Using Radiation View Factor Models." *ASHRAE Transactions*, Vol. 104, Pt. 1. January, 1998.

Arasteh, D., Finlayson, E.U.; Curcija, D.; Baker, J; Huizenga, C. 1998. "Guidelines For Modeling Projecting Fenestration Products." *ASHRAE Transactions*, Vol. 104, pt. 1. January, 1998.

Huizenga, C.; Arasteh, D.; Finlayson, E.U.; Mitchell, R.; Griffith, B.; Curcija, D. 1999. "Teaching Students About Two-Dimensional Heat Transfer in Building Components, Equipment, and Appliances Using THERM 2.0." *ASHRAE Transactions*, Vol. 105, Pt. 1. January, 1999.

Zhao, Y.; Curcija, D.; Goss, W.P. 1999. "Convective Heat Transfer Correlations for Fenestration Glazing Cavities: A Review." *ASHRAE Transactions*, Vol. 105, Pt. 2. June, 1999.

Huizenga, C.; Arasteh, D.; Finlayson, E.; Mitchell, R.; Griffith, B.; and Curcija, D. 1999. "THERM 2.0: A Building Component Model for Steady-State Two-Dimensional Heat Transfer." *Building Simulation '99*. Kobe, Japan. August, 1999.

Arasteh, D.; Mitchell, R.; Kohler, C.; Huizenga, C.; and Curcija, D. 2001. "Improving Information Technology to Maximize Fenestration Energy Efficiency." *Thermal Performance of Building Envelopes VIII*, Clearwater, FL. December, 2001.

Curcija, D.; Arasteh, D.; Huizenga, C.; Kohler, C.; Mitchell, R., and Bhandari, M. 2001. "Analyzing Thermal Performance of Building Envelope Components Using 2-D Heat Transfer Tool with Detailed Radiation Modeling." *Building Simulation '01*. Rio De Janeiro, Brasil. August, 2001.

Shah, B.; Curcija, D.; Taylor, S. 2001. "Rating and Labeling of Energy Performance of Windows as a Tool for Promoting Energy Efficiency Practices in Buildings" *Building Simulation '01*. Rio De Janeiro, Brasil. August, 2001.

Curcija, D.; Shah, B. 2001. "Labeling and Certification Procedures for Energy Rating in North America and The Impact on Market for Energy Efficient Products". *XXV Solar Conference*. San Luis Potosi, Mexico. October 2001.

Powels, R.; Curcija, D.; Kohler, C. 2002. "Solar Absorption in Thick and Multilayered Glazings". The World Renewable Energy Congress 2002. Cologne, Germany. August 2002.

Curcija, D.; Bhandari, M. 2002. "Role of Computer Simulation in Window Ratings and Design". Energy Efficient Windows and Building Design Conference and Workshop. New Delhi, India. November 2002.

Curcija, D. 2004. "New Rating System for Non-Residential Fenestration Products". Energy Efficient Windows - 4 Conference. Krasnoyarsk, Russia. September 2004.

Curcija, D.; Bhandari, M.; Manteghi, M.; and Shah, B. 2004. "Component Modeling Methodology for Predicting Thermal Performance of Non-Residential Fenestration Systems". *Thermal Performance of Building Envelopes IX*, Clearwater, FL. December, 2004.

Refereed Conference Papers (Cont.):

- Gustavsen, A.; Kohler, C.; Arasteh, D.; Curcija, D. 2004. "Two-Dimensional Computational Fluid Dynamics and Conduction Simulations of Heat Transfer in Window Frames with Internal Cavities - Part 1: Cavities Only". *ASHRAE Transactions*, Vol. 110, Pt. 1. January, 2004.
- Curcija, D.; Dukovski, I.; Velthuis, H.; Fairman, J.; and Doll, M. 2005. "Real-time simulations of the durability of Insulating Glass Units". *10DBMC International Conference on Durability of Building Materials and Components*. Lyon, France. April 2005.
- Gustavsen, A.; Arasteh, D.; Kohler, C.; Curcija, D. 2005. "Two-Dimensional Conduction and CFD Simulations of Heat Transfer in Horizontal Window Frame Cavities". *ASHRAE Transactions*, Vol. 111, Pt. 1. February, 2005.
- Curcija, D.; Bhandari, M.; and Jacobson, M. 2005. "Simulation of the radiative performance of laminated glass". *The International Society for Optical Engineering Proceedings*. August, 2005. San Diego, CA.
- Arasteh, D.K.; Curcija, D.C.; Huang, Y.J.; Huizenga, C.; and Kohler, C.J. 2006. "Evaluating Fenestration Products for Zero-Energy Buildings: Issues for Discussion". *SimBuild 2006 Conference*. MIT, Cambridge. July, 2006.
- Bhandari, M.; and Curcija, D. 2006. "Investigation of the Effects of Fenestration Systems on the Energy Performance of a Typical Commercial Building". *SimBuild 2006 Conference*. MIT, Cambridge. July, 2006.
- Stojanovic, N.; and Curcija, D. 2006. "A Method For Calculation of Bi-Directional Solar Properties of A Venetian Blind". *BauSIM 2006 Conference*. October, 2006.
- Stocki, M.; Curcija, D.; Bhandari, M. 2007. "The Development of Standardized Whole Building Simulation Assumptions for Energy Analysis for a Set of Commercial Buildings". *ASHRAE Transactions*. Vol. 113, Pt. 1. January 2007.
- Shah, B.V.; Curcija, D.C.; and Bhandari, M.S. 2007. "Role of Building Simulation to Quantify The Energy Savings From Advanced Glazing Systems". *Glass Performance Days China 2007*.
- Shah, B.V.; Bhandari, M.S.; and Curcija, D.C. 2008. "A study of energy performance calculation comparison of fenestration products using environmental conditions and procedures used by various country codes". *Glass Performance Days China 2008*.
- Srinivasan, R.S.; Braham, W.W.; Campbell, D.E.; and Curcija, D.C. 2011. "Energy Balance Framework for Net Zero Energy Buildings." *Proceedings of the 2011 Winter Simulation Conference (WSC)*. DOI: 10.1109/WSC.2011.6148032
- Srinivasan, R.S.; Braham, W.W.; Campbell, D.E.; and Curcija, D.C. 2012. "Building Envelope Optimization Using Energy Analysis." *Proceedings of Building Simulation 2011: 12th Conference of International Building Performance Simulation Association*, Sydney, 14-16 November
- Jonsson, J.C.; Curcija, D.C. 2012. "Inter-laboratory comparison using integrating sphere spectrophotometers to measure reflectance and transmittance of specular, diffuse, and light-redirecting glazing products." *Proc. SPIE 8495, Reflection, Scattering, and Diffraction from Surfaces III, 849509*. October 15, 2012.
- Jonsson, J.C.; Goudey, H.; and Curcija, D.C. 2013. "An Edge-Heating Device for Optical Measurements of Thermochromic Glazing Materials and Recommended Test Procedure", *ASTM Journal of Testing and Evaluation* 2013.
- Goudey, C.W.; Curcija, D.C.; Hart, R.H; Le, Q.V.; Wang, N.; and Miyakawa, A. 2013. "Average Visual Transmittance of Light Redirecting Fenestration." *Proceedings of the Thermal Performance of Building Envelopes XII*, Clearwater Beach, Fl. December, 2013
- Hart, R.H.; and Curcija, D.C. 2013. "Modeling of Vacuum Insulating Glazing." *Proceedings of the Thermal Performance of Building Envelopes XII*, Clearwater Beach, Fl. December, 2013

Refereed Conference Papers (Cont.):

- Shah, A.; Mulchandani, H; Rawal, R.; and Curcija, C. 2015. "Daylight Performance Evaluation of Laser Cut Panels In Office Buildings- A Case of Indian Cities." *Proceedings of BS2015: 14th Conference of International Building Performance Simulation Association*, Hyderabad, India, Dec. 7-9, 2015.
- Košny, J.; Curcija, C.; Fontanini, A.D; Liu, H.; and Kossecka, E. 2016. "A New Approach for Analysis of Complex Building Envelopes in Whole Building Energy Simulations. Buildings XIII – Thermal Performance of the Exterior Envelope of Whole Buildings Conference. Dec. 8th 2016, Clearwater Beach, FL
- Peng, J; Jonsson, J.; Hart, R.; Curcija, D.C. Selkowitz, S.E. 2017. "Parametric study of window attachment impacts on building heating/cooling energy consumption". Building Simulation Conference 2017. San Francisco, CA.
- Lyons, P.; Curcija, D.C. 2017. "A New Method of Representing Highly-Conducting Window Frames in Building Simulation Models." Building Simulation Conference 2017. San Francisco, CA.
- Curcija, D.C.; and Hart, R. 2018. "Modeling Thermal Performance of VIG: WINDOW and THERM software tools". *The First International Vacuum Glass & Equipment Technology Symposium*. Qingdao, China. August, 2018.
- Burns, E.; Phan-Gruber, E.; Rivett, B; Hart, R.; and Curcija, C. 2018. "New Rating Opening Windows to a World of Comfort, Opportunity, and Cost-Effective Saving". *2018 ACEEE Summer Study on Energy Efficiency in Buildings*. Pacific Grove, CA. August 2018.
- Selkowitz, S.; Hart, R.; and Curcija, C. 2018. "Breaking the 20 Year Logjam to Better Insulating Windows." *2018 ACEEE Summer Study on Energy Efficiency in Buildings*. Pacific Grove, CA. August 2018.
- Burns, E.; Phan-Gruber, E.; Rivett, B.; Hart, R.; and Curcija, D.C. 2018. "New Rating Opening Windows to a World of Comfort, Opportunity, and Cost-Effective Savings." *2018 ACEEE Summer Study on Energy Efficiency in Buildings*. Pacific Grove, CA, 2018
- Kohler, C.; Lyons, P.; Hart, R.; and Curcija, C. 2019. "A Comparison of the Latest Window Modeling Methods in EnergyPlus." *2019 IBPSA Building Simulation Conference Rome*, September 2019.
- Curcija, D.C; Hart, R.G, Goudey, H. 2019. "Experimental Setup for the Measurement of Detailed Heat Transfer in Window Attachments". *Thermal Performance of Building Envelopes XIV*, Clearwater Beach, Fl. December, 2019
- Hart, R.; Curcija, D.C.; and Selkowitz, S. 2019. "Determining the Value of Occupant Comfort from Highly Insulating Windows." *Thermal Performance of Building Envelopes XIV*, Clearwater Beach, Fl. December, 2019
- Curcija, D.C; Peng, J.Q., Goudey, H. 2019. "Energy Savings from PV-Integrated Window Glazing". *Thermal Performance of Building Envelopes XIV*, Clearwater Beach, Fl. December, 2019
- Curcija, D.C; Peng, J.Q., Goudey, H.; Kohler, C.J.; and Hart, R.G. 2019. "Local Ventilation Energy Recovery Unit for Windows". *Thermal Performance of Building Envelopes XIV*, Clearwater Beach, Fl. December, 2019

Other Papers and Publications:

- Curcija, D. 1992. *Three-Dimensional Finite Element Model of Overall Night Time Heat Transfer Through Fenestration Systems*. Ph.D. Dissertation, University of Massachusetts, Amherst, MA. 1992.
- Finlayson, E.; Arasteh, D.; Huizenga, D.; Curcija, D.; Beall, M.; and Mitchell, R. 1996. *THERM 1.0: A PC Program for Analyzing Two-Dimensional Heat Transfer Through Building Products*. Windows and Daylighting Group, Lawrence Berkeley National Laboratory, Berkeley, CA. April, 1996.
- Finlayson, E.; Mitchell, R. Arasteh, D.; Huizenga, D.; and Curcija, D. 1998. *THERM 2.0: A PC Program for Analyzing Two-Dimensional Heat Transfer Through Building Products*. Windows and Daylighting Group, Lawrence Berkeley National Laboratory, Berkeley, CA. June, 1998.

Other Papers and Publications (Cont.):

- Curcija, D.C.; Collins, M. duPont, W.C.; Hogan, J.F.; Klems, J.H.; Laouadi, A.; McCluney, W.R.; and Shah, B.V. 2005. "Chapter 27: Fenestration." *ASHRAE Handbook of Fundamentals*. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Atlanta GA. June 2005.
- Robin, D.M.; Kohler, C.J.; Klems, J.H.; Rubin, M.D.; Arasteh, D.K.; Huizenga, C.; Yu, T.; and Curcija, D.C. 2008. *WINDOW 6.2/THERM 6.2 Research Version User Manual* LBNL Report. January 2008.
- Hart, R.G.; Curcija, D.C.; Arasteh, D.K.; Goudey, H.; Kohler, C.J.; and Selkowitz, S.E. 2011. "Research Needs: Glass Solar Reflectance and Vinyl Siding." LBNL-5022E. July 2011.
- Lee, E. S.; Fernandes, L.L.; Goudey, H.; Jonsson, J.C. ; Curcija, D.C.; Pang, X.; DiBartolomeo, D.L.; and Hoffmann, S. 2012. A Pilot Demonstration of Electrochromic and Thermo-chromic Windows in the Denver Federal Center, Building 41, Denver, Colorado. 2012.
- Curcija, D.C.; Goudey, C.W.; Mitchell, R.D.; and Dickerhoff, E. 2013. *Highly Insulating Window Panel Attachment Retrofit*. Green Proving Ground Report to the General Services Administration, 2013.
- Curcija, D.C.; Yazdanian, M.; Kohler, C.J.; Hart, R.H.; Mitchell, R.D.; and Vidanovic, D. 2013. *Energy Savings from Window Attachments*. Report for Building Technologies Office of the Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy. October 2013.
- Curcija, D. C.; Yazdanian, M.; Kohler, C.; Hart, R.; Mitchell, R.; Vidanovic, D. 2013. *Energy Savings from Window Attachments*. Building Technologies Office, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy. DOE/EE PUB 0969. 2013.
- Curcija, D.C.; Goudey, C.W.; Mitchell, R.D.; and Dickerhoff, E. 2013. *Highly Insulating Window Panel Attachment Retrofit*. Green Proving Ground Report to the General Services Administration, 2013.
- Curcija, D.C.; Goudey, C.W.; Mitchell, R.D.; Manes, L.; and Selkowitz, S. 2014. *Solar Control Window Film Retrofit*. Green Proving Ground Report to the General Services Administration. 2014.
- Robert, H.; Curcija, D.C.; 2014. *Highly Insulating Commercial Frame Development*. LBNL Internal report. 2014.
- Hart, R.; Goudey, H.; Mitchell, R.; Yazdanian, M.; and Curcija, D.C. 2016. *Secondary Glazing System (SGS) Thermal, Moisture, and Solar Performance Analysis and Validation*. LBNL report. February 2015.
- Curcija, D.C., Goudey, H., Mitchell, R., 2017. *Low-e Applied Film Retrofit Window Film Retrofit for insulation and Solar Control*. Green Proving Ground Report to the General Services Administration, Feb. 2017. <https://www.gsa.gov/portal/getMediaData?mediaId=155930>
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- Curcija, D.C., Vidanovic, S.; Hart, R.; Jonsson, J.; and Mitchell, R. 2018. *WINDOW Technical Documentation*. Windows and Envelope Materials Group Lawrence Berkeley National Laboratory Berkeley, California.
- Lee, E.S.; Thanachareonkit, A.; Curcija, D.C.; Ward, G.; Wang, T.; Geisler-Moroder, D.; Gehbauer, C.; Breshears, J.; Fernandes, L.L.; Selkowitz, S.E.; Hart, R.; Kohler, C.; Blum, D.; Peng, J.; and Goudey, H. 2020. *High-Performance Integrated Window and Façade Solutions for California*. California Energy Commission report CECF-500-2020-001.