
Christoph F. Reinhart

PROFESSOR



Massachusetts Institute of Technology

77 MASSACHUSETTS AVE,
RM 5-418, CAMBRIDGE,
MA 02139, USA

• TEL. (617) 253-7714
FAX. (617) 253-6152
• creinhart@mit.edu

• www.mit.edu/SustainableDesignLab
• www.solemma.com
• www.mapdwell.com

EDUCATION

- 2001 **Dr. Ing.** Architecture, Technical University of Karlsruhe, Germany
Dissertation: *Daylight Availability and Manual Lighting Control in Office Buildings*
- 1997 **Dipl.-Phys.**, Albert-Ludwigs Universität, Freiburg, Germany
M.Sc. Physics, Simon Fraser University, Vancouver, Canada

ACADEMIC POSITIONS HELD

- since 2017 **Professor in Building Technology**
Director Building Technology Program
Massachusetts Institute of Technology, Department of Architecture
- 2012 – 2017 **Associate Professor in Building Technology (with tenure)**
Massachusetts Institute of Technology, Department of Architecture
- 2008 – 2011 **Associate Professor of Architectural Technology**
Harvard University, Graduate School of Design
- 2005 – 2007 **Adjunct Professor**
McGill University, School of Architecture
- 2001 – 2008 **Research Officer (staff scientist)**
National Research Council Canada

NON ACADEMIC POSITIONS

- Since 2012 **Solemma LLC – CEO and Managing Member**
Harvard spinoff: Developers and distributors of the ClimateStudio, ALFA and (until 2020) DIVA-for-Rhino environmental performance analysis tool suites (www.solemma.com)
- 2013 – 2021 **mapdwell LLC – Founding Partner and Strategic Development Advisor**
MIT spinoff: Developers and distributor of urban solar mapping tools; joined Palmetto Clean Technology in 2021 (www.mapdwell.com)

RESEARCH PROJECTS

- Since 2022 Development of a Building Retrofit Adoption Model, PI
MIT Energy Initiative Future Low Carbon Center; \$350,000 over 2 yr
- Since 2021 Physics-based estimation of embodied energy and carbon in structural systems of urban building stocks, Co-PI with Caitlin Mueller
MIT Portugal Program Seed Grant; \$100,000 over 1 yr
- Since 2020 C-Tech CLIMATE DRIVEN TECHNOLOGIES FOR LOW CARBON CITIES, PI
MIT Portugal Program; \$900,000 over 3 yr
- 2020 – 2022 Towards Zero-Emissions Neighborhoods: A Novel Building-Grid Optimization Framework, Co-PI with Audun Botterud
MIT Energy Initiative; \$150,000 over 2 yr
- 2019 – 2021 FOOD FOR THOUGHT, PI
Center for Complex Engineering Systems (CCES) at KACST and MIT; \$330,000 over 2 yr
- 2019 – 2021 DEVELOPMENT OF A CO₂ BUILDING PORTFOLIO MANAGER, PI
Shell Germany; \$120,000 over 1 yr
- 2018 – 2020 URBAN FOOD ANALYSIS, PI
Arup Global Research Challenge; \$58,000 over 2 yr
- 2017 – 2020 ENERGY BAZAR, PI
Exelon Corporation; \$400,000 over 3 years
- 2017 – 2019 DECARBONIZED ENERGY SYSTEMS FOR NEW VOLPE CENTER, Co-PI
MIT Environmental Solutions Initiative; Seed grant over \$150,000 over 2 years; Co-PI with Prof Les Norford (MIT Architecture) and David Hsu (MIT Urban Planning)
- 2016 – 2019 STRATEGIC RESEARCH, PI
Behnisch Architekten; \$105,000 over 3 years
- 2017 – 2019 WATER| ENERGY | FOOD, PI
Center for Complex Engineering Systems (CCES) at KACST and MIT; \$330,000 over 2 yr
- 2017 – 2018 URBAN PERSONAS, PI
Philips Lighting; \$125,000 over 1 year
- 2014 – 2018 SUSCITY: URBAN DATA DRIVEN MODELS FOR CREATIVE AND RESOURCEFUL URBAN TRANSITIONS, CO-PI
MIT Portugal Program \$395,000 over 4 years; Co-PI with Prof John Fernandez, Leon Glicksman, Marta Gonzales, Kent Larson and Richard de Neufville
- Since 2002 DAYSIM, PI
Main developer of the daylighting design tool DAYSIM. (www.daysim.com); PI
- 2015 – 2017 RIYADH ENERGY STUDY, Co-PI
Center for Complex Engineering Systems (CCES) at KACST and MIT; \$450,000 over 2 years; Co-PI with Prof Marta Gonzales (MIT CEE)
- 2014 – 2017 MIT – MASDAR INSTITUTE SIGNATURE PROJECT: LINKING SENSOR NETWORKS TO URBAN ENERGY MODELS, Co-PI
Masdar Institute \$1,800,000 over 3 years; Co-PIs with Prof Les Norford and Steven Leeb (MIT EE)
- 2013 – 2016 KUWAIT SIGNATURE PROJECT - ENHANCED OPERATIONAL ENERGY EFFICIENCY AND LIFE CYCLE PERFORMANCE OF BUILDINGS AND NEIGHBORHOODS IN KUWAIT, Co-PI
Government of Kuwait \$3,700,000 over 3 yr for MIT; The project involve faculty in several MIT Department and is led by Prof Oral Buyukozturk (MIT Civil Engineering)
- 2014 – 2016 BOSTON ENRGY MODEL, PI
Massachusetts Clean Energy Center and the Boston Redevelopment Authority, \$75,000 over 1 yr; Development of a city-wide energy model for the City of Boston, PI
- 2013 – 2015 MIT-KACST - CITYSCHEMA, Co-PI

- Center for Complex Engineering Systems (CCES) at KACST and MIT; \$450,000 over 2 yrs; Co-PI with Kent Larson (MIT Media Lab)*
- 2012 – 2014 MIT ENERGY INITIATIVE SEED GRANT – URBAN MODELING INITIATIVE, PI
MITEI and United Technology Corporation \$150,000 over 2 years; Co-PI with Prof Les Norford
- 2010 – 2014 EFRI-SEED: CREATING OPPORTUNITIES FOR ADAPTATION BASED ON PULSE (POPULATION IN URBAN LANDSCAPE FOR SUSTAINABLE BUILT ENVIRONMENT), Co-PI
National Science Foundation \$2,000,000 over 4 year; Co-PI with Prof Jelena Srebric (Penn State) and Prof Jack Spengler (Harvard School of Public Health).
- 2012 US DOE – GPIC HUB- DEVELOPMENT OF A DAYSIM API, PI
US-DOE and GPIC \$75,000 over 1 year; PI
- 2010 – 2011 DEVELOPMENT OF A CERMAIC SHADING SYSTEM, Co-PI
ASCER (Tiles of Spain) \$100,000 over 1 yr; Co-PI with Prof Martin Bechthold (Harvard GSD)
- 2009 – 2011 THE USE OF BUILDING ENERGY SIMULATIONS DURING DESIGN, CONSTRUCTION AND OPERATION – AN OWNER’S PERSPECTIVE, PI
Development of Energy Modeling Guidelines for Harvard University; collaboration with the Harvard Office for Sustainability. Harvard Real Estate Academic Initiative \$37,000 over 2 yr; PI
- 2009 – 2010 VISUAL COMFORT IN OPEN PLAN ENVIRONMENTS, PI
Dean’s Annual Research Grant Program \$27,000 over 1 yr; PI
- 2009 – 2010 THE DAYLIGHTING DASHBOARD, PI
Daylight research funded by Autodesk; \$20,000 over 1 yr; PI
- 2009 – 2010 A RULE-OF-THUMB BASED DESIGN SEQUENCE FOR DAYLIGHTING, PI
William F Milton Fund. \$35,000 over 1 yr; PI
- 2008 – 2010 SUSTAINABLE DESIGN TUTORIALS
Development of teaching material for sustainable design. Office of the President \$18,000 over 3 yr; PI
- 2007 – 2009 DEVELOPMENT OF A VALIDATION METHODOLOGY FOR DAYLIGHT SIMULATION ENGINES
Development of test cases for software validation and compliance purposes. Autodesk \$100,000; PI
- 2007 – 2008 PIER PROGRAM - DAYLIGHTING METRICS PROJECT
Analysis of 61 daylit spaces. California Energy Commission and the New York State Energy Research and Development Authority \$1,800,000; Co-PI: Lisa Heschong and Prof Joel Loveland
- 2004 – 2008 OPTIMIZING OVERALL ENERGY USE AND OCCUPANT COMFORT IN THE PERIMETER ZONE
Field studies to monitor occupant use of lighting and shading controls in commercial buildings. Natural Resources Canada and BC Hydro; \$800,00 over 4 years; PI
- 2004 – 2008 DEVELOPMENT OF A DAYLIGHTING DESIGN GUIDE
Canadian Technology & Innovation Initiative \$290,000 over 4 yr; PI
- 2005 – 2006 DYNAMIC DAYLIGHT PERFORMANCE METRICS
Development of climate-based daylighting performance metrics. Kalwall \$30,000 over 2 yr; PI
- 2003 – 2005 MODELING CLASSROOMS IN LIGHTSWITCH WIZARD
BC Hydro and the Canadian Technology & Innovation Initiative \$60,000 over 3 yr; PI
- 2004 – 2005 DAYLIGHT SIMULATIONS OF A TRANSLUCENT GLAZING SYSTEM
Development of a Radiance model for a translucent panel. Kalwall \$60,000 over 1 yr; PI
- 2003 – 2005 TRANSLUCENT GLAZING SYSTEMS FOR DAYLIGHTING
Laboratory study on health and task performance in daylit spaces. Kalwall \$150,000 over 2 yr; Co-PI with Dr. Jennifer Veitch (National Research Council Canada)
- 2001- 2004 DAYLIGHTING CREDITS FOR CODES
Evaluation of daylighting technologies. Natural Resources Canada \$150,000 over 3 yr; PI
- 2002 - 2003 NEW NRC DAYLIGHTING LAB

Setup of NRC's daylighting laboratory (two identical south-facing test offices that are equipped with extensive monitoring equipment). National Research Council \$100,000 over 1 yr; PI

2003 **LIGHTSWITCH WIZARD, PI**
Development of an online daylighting tool. Natural Resources Canada \$70,000 over 1 yr; PI

AWARDS AND SCHOLARSHIPS

2018 **Fraunhofer Bessel Prize** by the Alexander von Humboldt Foundation

2017 **Best Paper Award 2017** Building and Environment Journal (with N L Jones)

2017 **Commended Paper Award** Passive Low Energy Architecture (PLEA) 2017 in Edinburgh (with I Turan, J E Fernández, P Ferrão and E Olivetti)

2016 **IBPSA-USA Award for Distinguished Achievement in Building Simulation**

2016 **Georgios Kazas Best Paper Award** 8th International Conference on Sustainability in Energy and Buildings, SEB-16 (with C S Monteiroa, A Pinaa, C Cerezo Davila and P Ferrãoa)

2015 **SUSTAINIA 10 2015:** winner of the IT category (with mapdwell LLC)

2014 **FastCompany Design by Innovation Award 2014:** category Data Visualization for mapdwell Solar *Systems* (with mapdwell LLC)

2013 **Star of Building Science**, Inaugural Virtual Academy of Excellence, Buildings4Change magazine

2011 **Best Paper Award** Symposium on Simulation for Architecture and Urban Design (with J Niemasz and J Sargent)

2010 **Leon Gaster Award** for the Best Lighting Application Paper of the Year, awarded by the CIBSE Society of Light and *Lighting* (with V LoVerso)

2009 **Faculty of the Year**, Harvard Graduate School of Design, Architecture

2009 **ARUP Prize** - Best paper on the Application of Building Performance Simulation in the Design Process (with H Wasilowski)

2005 **Lorne W. Gold Award** for the best IRC publication of the year

2005 **NRC Industrial Partnership Award** (with COPE team)

2004 **IRC Public Awareness Award** (with A Laouadi)

2004 **IRC Industrial Partnership Award** (with COPE team)

1998 - 2001 **Deutsche Forschungs Gesellschaft (DFG)doctoral scholarship**

1994 **DAAD scholarship (German Academic Exchange Service)**

1993 **Erasmus Scholarship (European Union)** (to study for a year in Paris)

TEACHING EXPERIENCE

- Since 2012 **Massachusetts Institute of Technology**
4.4s46 Food for Thought (2019)
4.401./4.464 Environmental Technologies in Buildings (2012 – 2021)
4.430 Daylighting & Solar Gain Control – High Performance Facades (2012, 2014, 2019)
4.433 Modeling Urban Energy Flows – Towards Sustainable Cities and Neighborhoods (2013, 2015, 2016, 2017, 2020, 2022)
4.481 Building Technology Seminar (since 2012)
4.4s42 Comfort in Motion (2015)
- 2008 – 2011 **Harvard University, Graduate School of Design**
GSD 6112.m2 Energy Technology and Buildings
GSD 6205 Environmental Technologies in Buildings
GSD 6332 Daylighting Buildings
GSD 6417 Building Performance Simulation – Energy
GSD 6420 Thermal Analysis of Buildings
HBS Harvard Advanced Management Development Program - Sustainable Building Design
- 2005 – 2007 **McGill University, School of Architecture**
ARCH 447 Lighting (with C. Sampson)
ARCH 676 Building Simulation

ACADEMIC PROFESSIONAL AND PUBLIC SERVICE

- Ongoing **Member of the Editorial Board**
Building and Environment (since 2020)
Building Research and Information (2018)
Building Simulation – An International Journal (since 2008)
Journal of Building Performance Simulation (2008 – 2017)
- External Reviewer for the following journals**
ASHRAE Journal, Energy & Buildings, Building and Environment, Building Research & Information, Journal of Building Performance Simulation, Building Simulation – An International Journal, Solar Energy, LEUKOS, Lighting Research & Technology
- 2006 – 2017 **Member of the IESNA and CIE Daylighting Committees**
- 2013 **Organizer of the Symposium on Sustainable Urban Design at MIT**
- 2011 – 2013 **IBPSA-USA Board of Directors**
- 2010 **Expert Witness: National Academy of Sciences Institute of Medicine**
- 2005, 2009 **Organizer of the International Radiance Workshop**
- 2008 **Scientific Chair for esim 2008**
- 2006 – 2008 **IBPSA-Canada Board of Directors**
- 2005 – 2007 **Member of the Technical Advisory Group for LEED-Canada**
- 2006 **Guest Editor *Energy & Buildings Journal* (with S Selkowitz, LBNL)**
Special issue on “Daylighting”, Energy & Buildings 38:7, 2006.
- 2002 – 2005 **Subtask Leader, IEA Task 31 *Daylighting Buildings in the 21st Century***

POSTDOC AND STUDENTS

POSTDOCS AND RESEARCH SCIENTISTS SUPERVISED

Name	Program	Time Period
Sam Letellier-Duchesne	Postdoc	Jan 2020 – Jul 2021
Khadija Benis	Research Scientist	Jan 2018 – Jul 2021
Carlos Cerezo	Research Scientist	Oct 2017 – Jul 2018
Jay Dhariwal	Postdoc	Jan 2016 – Jul 2017
Cody Rose	Research Scientist	Jul 2015 – Jun 2016
Valerio LoVerso	NSERC Postdoctoral Fellow	Aug 2006 – Jul 2007
Denis Bourgeois	NSERC Postdoctoral Fellow	Jun 2005 – Dec 2006

GRADUATE STUDENTS (CO-) SUPERVISED

Student	Degree Program	Graduated
Yu Qian Ang	PhD Building Technology, MIT	2022
Alpha Arsano	PhD Building Technology, MIT	2021
Irmak Turan	PhD Building Technology, MIT	2020
Shreshth Nagpal	PhD Building Technology, MIT	2019
Nathaniel Jones	PhD Building Technology, MIT	2017
Carlos Cerezo	PhD Building Technology, MIT	2017
Nan Zhao	PhD MIT Media Lab (co-advise J Paradiso)	2017
Timur Dogan	PhD Building Technology, MIT	2015
Tarek Rakha	PhD Building Technology, MIT	2015
Matt Aldrich	PhD MIT Media Lab (co-advise J Paradiso)	2014
J. Alstan Jakubiec	PhD Building Technology, MIT	2014
Diego Ibarra	Doctor in Design Studies, Harvard	2014
Memo Cedeno	Harvard School of Public Health (co-advise J Spengler)	2014
Holly W Samuelson	Doctor in Design Studies, Harvard	2013
Huang Jianxiang	Doctor in Design Studies, Harvard (co-advise S Pollalis)	2013
Elizabeth Young	SMBT	2021
Mariana Lieman-Pelaez	SMBT	2020
Jiamin Sun	SMArchS BT	2018
Jamie Farrell	SMArchS	2017
Bradley Tran	SMBT	2017
Alpha Arsano	SMArchS	2017
Norhan Bayomi	SMArchS (co-advise J Fernandez)	2017
Jamie Bemis	Master in City Planning, MIT	2016
Irmak Turan	SMArchS (co-advise J Fernandez)	2016
Cody Rose	SMBT	2015
Manos Saratsis	SMArchS	2015
Jeff Geisinger	SMArchS	2015
Chris Mackey	MArch I/SMBT, MIT (co-advise S Tibbits)	2015
Trygve Vasted	MArch, MIT (co-advise J Lamere)	2015
Carlos Cerezo	Master in Design Studies, Harvard	2013
Krista Palen	Master in Design Studies, Harvard	2013
Amanda Webb	SMARCHS, MIT (Fernandez)	2012
Timur Dogan	Master in Design Studies, Harvard	2012
Debashree Pal	Master in Design Studies, Harvard	2012
Elliot Glassman	Master in Design Studies, Harvard	2012
Jeff Niemasz	Master in Design Studies, Harvard	2011

Christoph F. Reinhart

Jon Sargent	Master in Design Studies, Harvard	2011
Seth Holmes	Master in Design Studies, Harvard	2011
Azadeh Omidfar	Master in Design Studies, Harvard	2011
Rashida Mogri	Master in Design Studies, Harvard	2011
Eduardo Berlin	Master in Design Studies, Harvard	2011
Andrea Dorotan	Master in Design Studies, Harvard	2011
Rohit Manudhane	Master in Design Studies, Harvard	2010
Tiffany Otis	Master in Design Studies, Harvard	2010
Diego Ibarra	Master in Design Studies, Harvard	2009
Holly Wasilowski	Master in Design Studies, Harvard	2009
Jennifer Sze	Master in Design Studies, Harvard	2009
Cynthia Kwok	Master in Design Studies, Harvard	2009

EXTERNAL EXAMINER/READER

Student	Degree Program	Defense Date
Ata Chokhachian	Technical University of Munich	2022
Daniele Santucci	Technical University of Munich	2021
Niloufar Emami	PhD, University of Michigan	2018
Khadija Benis	Instituto Superior Técnico Lisbon	2018
Claudia Sousa Monteiro	Instituto Superior Técnico Lisbon	2018
Nelson Soares	PhD, Universidad de Coimbra	2015
Frederic Haldi	PhD, Ecole Polytechnique Fédérale de Lausanne	2009
Sian Kleindienst	PhD, Massachusetts Institute of Technology	2009
Denis Bourgeois	PhD, Université de Laval	2005

PRESENTATIONS

KEYNOTE LECTURES

Jun 22	<i>European Façade Network Conference, Lisbon, Portugal</i>
Oct 21	<i>ITECON CEES 2021, Coimbra, Portugal</i>
Sep 19	<i>Building Simulation 2019, Rome, Italy</i>
Sep 18	<i>IBPSA Regional Conference - South America, Santiago, Chile</i>
Sep 17	<i>National Conference on Comfort in the Built Environment (ENCAC) 2017, Brazil</i>
Sep 16	<i>Urban Transitions, Shanghai</i>
Jul 16	<i>BauChina 2016, Beijing</i>
May 16	<i>esim 2016, McMaster University, Canada</i>
Oct 14	<i>Syracuse Center of Excellence, Annual Symposium, Syracuse, NY, USA</i>
Mar 14	<i>Urban Integration 2014, Sheffield Hallam University, Sheffield, UK</i>
Aug 12	<i>SimBuild 2012, University of Wisconsin, Madison, USA</i>
May 12	<i>esim 2012, Dalhousie University, Halifax, Canada</i>
Apr 11	<i>Simulation for Architecture and Urban Design, Boston, USA,</i>
Nov 09	<i>1st Swiss Building and Urban Simulation Conference, organized by IBPSA-CH, CH</i>
Oct 09	<i>2nd Symposium on Sustainable Healthy Buildings, Seoul, South Korea</i>
Aug 07	<i>IX National Meeting on Environmental Comfort in Buildings, Ouro Preto, Brazil</i>
May 06	<i>esim 2006, University of Toronto, Toronto, Canada</i>

INVITED PRESENTATIONS AND LECTURES

Jan 22	<u>DOE Solid State Lighting workshop</u> Lighting Application Efficiency
Oct 21	<u>XLIII (43rd) MIT Global Change Forum</u> Urban Transition Session
Oct 21	<u>Misui Mission</u> Invited research Presentation
Oct 21	<u>University of California Berkeley</u> Virtual Window View Quality Symposium
Sep 21	<u>DOE Lighting R&D Program</u> LED Advanced Luminaires and Manufacturing
May 21	<u>Bauhaus of the Seas</u> Roundtable, Circular Economy for Coastal Regions, Lisbon
May 21	<u>The Architect's Newspaper Tech+ Panel</u> Future of Simulation in Design
May 21	<u>University of Oregon</u> Invited lecture on Daylighting
May 21	<u>Climate Information for Adaptation Workshop</u> Caltech Climate Modeling Alliance
Apr 21	<u>MIT Center for Energy and Environmental Policy Research</u> Decarbonizing Heating
Mar 21	<u>KPF Tech week</u> Enabling a net-zero global building stock through simulation, NYC
Feb 21	<u>MIT Industrial Liaison Program</u> Energy Talks, Decarbonizing Building
Feb 21	<u>MIT Alumni Energy Environment & Sustainability Network</u>
Jan 21	<u>Florida Atlantic University</u> spring lecture series: Technology in Architecture
Dec 20	<u>YPO@MIT</u> program: Technology + Innovation: real estate in a time of change
Jul 20	C. R.E Retrofitting buildings, <u>MIT Center for Real Estate Annual Conference</u>
Oct 20	<u>MIT Global Change Forum</u>

Nov 19 ConCave Talks, [Georgia Tech](#), Atlanta

Nov 19 Panel Presentation, [GreenBuild](#), Atlanta

Nov 19 Panel Presentation, [MIT Energy Initiative Annual Conference](#)

Oct 19 Public Lecture, [ETH Zürich ITA](#), Zürich, Switzerland

Oct 19 International Daylighting Symposium, [VELUX Foundation](#), Paris

Sep 19 Annual Research Conference, [MIT Portugal Program](#), The Azores

May 19 Building for the Future Panel, [MIT Center for Real Estate Annual Conference](#)

Mar 19 Panel Presentation, [CERA Week](#), Houston

Dec 18 Archizoom Lecture Series, [Ecole Polytechnique Federale de Lausanne](#), Switzerland

Nov 18 Panel Presentation, [GreenBuild](#), Chicago

Oct 18 Solemma Symposium, [Cornell University](#), New York City

Apr 18 Public Lecture, [University College London](#), UK

Apr 18 Public Lecture, Summer School on Computing Resilience, [TU Munich](#), Germany

Apr 18 Brown Bag Seminar, [Karlsruhe Institute of Technology](#), Germany

Apr 18 Invited Lecture, [Fraunhofer Institute for Solar Energy Systems](#), Germany

Oct 17 DIVA Day Daylighting Symposium, [University of California Berkeley](#), CA, USA

Oct 17 Department Lecture Series, [Roger Williams University](#), Bristol, RI

May 17 International Daylighting Symposium, [VELUX Foundation](#), Berlin

Oct 16 DIVA Day Daylighting Symposium, [University of Toronto](#), Canada

Jul 16 Research Seminar, [Tsinghua University](#), Beijing, China

Dec 15 Research Seminar, [IIT Bombay](#), Mumbai, India

Dec 15 Research Seminar, [Universidade de Coimbra](#), Portugal

Oct 15 Plenum Presentation, [New England Clean Energy Center](#), Boston

Oct 15 DIVA Day Daylighting Symposium, [Architecture Association](#), London

Sep 15 International Daylighting Symposium, [VELUX Foundation](#), London

Sep 15 MIT Solar Day, [MIT Energy Initiative](#)

Sep 15 Urbanization and Sustainable Development, [China World Development Bank](#)

Aug 15 Sustainable Urban Modeling, [MIT Executive Education Program](#)

Jun 15 Beyond Smart Cities Symposium, [MIT Media Lab](#)

Jun 15 Smart Buildings Symposium, [German American Chamber of Commerce](#)

Apr 15 Book Talk, [PG&E Center](#), San Francisco

Apr 15 EFRI Closing Panel, [National Science Foundation Workshop](#), San Francisco

Mar 15 Department Lecture Series, [University of British Columbia](#), BC, Canada

Jan 15 Internal Research Seminar, [ViewGlass](#), CA, USA

Oct 14 Inaugural Department Lecture, [University of Washington](#), Seattle, WA, USA

Oct 14 Smart Cities Symposium, [French American Chamber of Commerce](#) Boston

Sep 14 Brown Bag Lunch, [Synpase Energy](#), Cambridge, Ma, USA

Feb 14 Designing For Future Weather, online seminar organized by [BuidingGreen](#) Inc.

Feb 14 Executive Education Seminar, [Charles Institute](#), Cambridge, MA

Feb 14 Lunch Series, [MIT Concourse](#) – Freshmen Organization

Feb 14 Annual Meeting of the [North American Glass Association](#), Orlando, FL

Jan 14 Energy Accounts: Designing the Future, [University of Pennsylvania](#)

Dec 13 Stars of Building Science, [Royal Academy of Engineering](#), London, UK

Oct 13 External Advisory Board Meeting, [MIT Energy Initiative](#)

Sep 13 Guest Lecture, [Yale University](#)

Jun 13 MIT 20th [Reunion Dinner](#) Evening Speaker

May 13 [b_TEC/CIT UPC](#) Annual Meeting, Barcelona, Spain

May 13 Daylighting Symposium, [Velux Foundation](#), Copenhagen Denmark

May 13 Lighting Institute at [Lightfair](#) 2013, Philadelphia, USA

Apr 13 Lunch Series [MIT City Science Lab](#)

Mar 13 Interdisciplinary Student Sustainability Summit, [Harvard University](#)

Nov 12 Guest Lecture, [Northeastern University](#)

Nov 12 Software as a Design Choice, Women in Design Panel, [ABX Boston](#)

Oct 12 External Advisory Board Meeting, [MIT Energy Initiative](#)

Sep 12 Cambridge Public Library, Release of the Cambridge Solar Map

Aug 12 Evening Lecture, [IBPSA New York Chapter](#)

Jun 12 Das Haus, Building Technology Forum, [German Chamber Network](#)

Jun 12 Cambridge Day, [City of Cambridge](#), MA, USA

May 12 Brown Bag Seminar, [EYP Architecture & Engineering](#), Boston

Apr 12 Symposium on Sustainability and the Built Environment, [Harvard University](#)

Apr 12 Guest Lecture, [University of Pennsylvania](#), PA, USA

Apr 12 Panel on Energy and the Built Environment, [MIT Energy Initiative](#)

Mar 12 Building Technology Lecture Series, [MIT](#), MA, USA

Feb 12 Guest Lecture, [Boston Society of Architects](#), Sustainable Education Committee

Jan 12 Guest Lecture, [Transsolar](#), New York Office, New York, USA

Jan 12 Guest Lecture, [Atelier Ten](#), New York Office, New York, USA

Dec 11 Ted Talk “Harvard Thinks Green”, [Harvard University](#)

May 11 VELUX 4th Daylight Symposium, [Velux Foundation](#), Lausanne, Switzerland

Apr 11 Guest Lecture, [Catholic University of America](#), Washington DC, USA

Mar 11 Seminar Series, [Lawrence Berkeley National Laboratory](#), Berkeley, CA, USA

Mar 11 Advanced Management Development Program in Real Estate – Class X

Feb 11 School for Year 2030, GSD/HGSE Advanced Research Seminar, [Harvard GSD](#)

Feb 11 [IBPSA USA](#) – Boston Regional Chapter Kickoff Meeting

Nov 10 Ecological Practices: New Directions in Sustainability Research, [Harvard GSD](#)

Nov 10 National Science Foundation: When Engineering Design Meets Architecture, [University of Pennsylvania](#), USA

Oct 10 Building Technology Lecture Series, [University of Toronto](#), ON

Oct 10 Seminar, [National Organization of Minority Architects](#) (NOMA) conference

Oct 10 Building Technology Lecture Series, [MIT](#), MA, USA

Jul 10 Guest Lecture, [University of California at Berkeley](#), CA, USA

- Jun 10 Climate Change & Indoor Environment Workshop, [National Academy of Sciences](#), Washington DC, USA
- May 10 Daylighting Forum, [IESNA](#), Las Vegas, NV, USA
- Apr 10 Panel Discussion at Design, Infrastructure Sustainability & Social Responsibility,
- Mar 10 Materials Science Seminar Series, [Harvard FAS](#), Cambridge, MA, USA
- Mar 10 Faculty Seminar Series on Sustainable Housing, [Joint Center for Housing Studies](#), USA
- Feb 10 Guest Lecture, Advanced Management Development Program in Real Estate
- Feb10 Evening Lecture, [Harvard Club of New York City](#), NY, USA
- Jan 10 Building Ecology, S & T Lecture Series, [University of Toronto](#), Canada
- Sep 09 Building Technology Lecture Series, [MIT](#)
- Sep 09 [Harvard](#) Graduate Consortium on Energy and the Environment
- Aug 09 [Fraunhofer](#) Institute for Solar Energy Systems, Freiburg, Germany
- Aug 09 Panel Discussion at Building Simulation Conference 2009, Glasgow, UK
- Aug 09 Building Simulation Conference 2009, [IBPSA](#), Glasgow, UK
- May 09 [AIA Philadelphia Chapter](#), Philadelphia, PA, USA
- May 09 Full-day workshop at [KlingStubbins](#), Philadelphia, PA, USA
- May 09 Daylighting Institute at Lightfair 2009, New York City, NY, USA
- May 09 Daylight Boston 1 - Lecture Series on Daylighting, [Harvard University](#), MA, USA
- Apr 09 Panel Leader Ecological Urbanism conference, [Harvard University](#), MA, USA
- Mar 09 Brownbag Seminar at [Simpson Gumbertz & Heger](#), Waltham Office, MA, USA
- Nov 08 [Greenbuild](#) 2008 Offsite Educational Session at the GSD (with a MDesS students)
- Oct 08 Public GSD Panel Discussion (with J. Kayden, C. Werthmann & T. Schroepfer)
- Oct 08 Policy Advisory Board, [Harvard Center for Housing Studies](#) (with J. Spengler)
- Oct 08 MArch II Proseminar (with Lluís Ortega), [Harvard University](#), MA, USA
- Jul 08 Seminar [Universitaet Stuttgart](#), Stuttgart, Germany,
- May 08 Daylighting Institute at Lightfair 2008, Las Vegas, USA
- Dec 07 [Canadian Green Building Council](#), Ottawa Chapter, Ottawa, Canada
- Oct 07 MArch II Proseminar (with Toshiko Mori), Harvard University, MA, USA
- Oct 07 [CIE/Canada and CIE/USA](#) Annual Technical Conference, Ottawa, Canada
- Jun 07 Building Technology Transfer Forum, Annual meeting, Toronto, Canada
- Apr 07 [Harvard University](#), Cambridge, MA, USA
- Mar 07 [Cornell University](#), Ithaca, NY, USA
- Jan 07 [University of Toronto](#), Toronto, Canada
- Nov 06 [IEA Task 31](#), Final presentation to the Executive Committee , Rome, Italy
- Sep 06 Canada-Japan Research & Development Workshop, Ottawa, Canada
- Sep 06 Professional Engineers of Ontario, Ottawa, Canada
- May 06 Lighting Institute at Lightfair 2006 (with Lisa Heshong), Las Vegas, USA
- Apr 06 Green Building Exposition, Ottawa, Canada
- Mar 06 [McGill University](#), Montreal, Canada

- Oct 05 Massachusetts Institute of Technology, Cambridge, MA, USA
- Jul 05 University of Washington, Seattle, WA, USA
- Apr 05 Lawrence Berkeley National Laboratory, Berkeley, CA, USA
- Jun 04 Dalhousie University, Halifax, Canada
- Jun 04 Building Technology Transfer Forum, Annual meeting, Halifax, Canada
- Oct 03 École Polytechnique, Mechanical Engineering, Montréal, Canada
- Oct 03 CIE/Canada and CIE/USA Annual Technical Conference, Montreal, Canada
- Jan 03 Dalhousie University, Halifax, Canada
- Apr 02 International Energy Agency, Workshop of Task 27 and 31, Copenhagen, Denmark
- Oct 01 International Energy Agency, Expert meeting of Task 31, Berlin, Germany
- Aug 01 Illuminating Engineering Society of North America, Annual Meeting, Ottawa
- Oct 00 Lecture Series at Goethe Institutes in Beirut, Damascus, and Amman

CONFERENCE PRESENTATIONS

- Nov 11 “Learning by doing - Teaching energy simulation as a game”, *IBPSA Conference 2011*, Sydney, Australia
- Nov 11 “Shaderade: Combining Rhinoceros and EnergyPlus for the design of static exterior shading devices”, *IBPSA Conference 2011*, Sydney, Australia
- Nov 11 “Climate change risks form a building owner's perspective: Assessing future climate and price scenarios”, *IBPSA Conference 2011*, Sydney, Australia
- Nov 11 “A 'PICASA' for BPS – An interactive data organization and visualization system for building performance simulation”, *IBPSA Conference 2011*, Sydney, Australia
- Sep 07 “Daylight 1-2-3 – A state-of-the-art daylighting design software for initial design investigations”, *IBPSA Conference 2009*, Beijing, China.
- Sep 07 “The daylight coefficient method and complex fenestration”, *IBPSA Conference 2008*, Beijing, China.
- Aug 05 “A simulation-based review of the ubiquitous window-head-height to daylit zone depth rule of thumb”, *IBPSA Conference 2005*, Montreal, Canada.
- Aug 05 “Development and Validation of a Radiance model for a Translucent Panel”, *4th Annual Radiance Workshop*, Montreal, Canada.
- Aug 05 “A file format for Dynamic Daylight Simulations”, *4th Annual Radiance Workshop*, Montreal, Canada.
- Sep 04 “The Use of Daysim in Building Design”, École Polytechnique, Turin, Italy.
- June 04 “Key findings from an online survey on the use of daylight simulation programs”, *esim 2004* conference, Vancouver, Canada.
- June 04 “Lightswitch – DOE2: A comparison of two manual blind control algorithms”, *esim 2004* conference, Vancouver, Canada.
- Mar 04 “Key findings from a survey on the use of daylight simulation programs”, *IEA International Daylighting Symposium*, Tokyo, Japan.
- Oct 03 “Lightswitch: A Model for Manual Control of Lighting and Blinds.” *CISBAT conference*, Lausanne, Switzerland.

- Aug 03 “The Lightswitch Wizard – Reliable daylight simulations for initial design investigation.” *IBPSA Conference 2003*, Eindhoven, The Netherlands.
- Aug 02 “Effects of interior design on the daylight availability in open plan offices.”, *ACE³ 2002 Summer Study on Energy Efficient Buildings*, Pacific Grove, California.
- Oct 02 “Effects of Blind Control on the Electric Lighting Energy Demand in Offices.” *Joint meeting of Task 31 and CIE Division 3*, Ottawa, Canada.
- Jan 01 “Monitoring and Analysis of Manual Control Strategies for Artificial Lighting and Venetian Blinds of 20 users – Experimental Setup and Preliminary Results.”, *7th Symposium on Lighting Buildings* in Staffelstein, Germany.
- Aug 00 “Lean buildings: Energy Efficient Commercial Buildings in Germany.”, *ACE³ 2000 Summer Study on Energy Efficient Buildings*, Pacific Grove, California.
- Jan 00 “RADIANCE – Jahressimulationen des Tageslichtangebotes in Gebäuden – Ein Raytracer viele Ergebnisse.” *6th Symp. on Lighting Buildings*, Staffelstein, Germany.
- Sep 99 “An Evaluation of RADIANCE Based Simulations of Annual Indoor Illuminance Distributions due to Daylight.” *IBPSA Conference 99*, Kyoto, Japan.
- Jun 99 “Die Beleuchtungskonzepte der SolarBau:MONITOR TK 3 Projekte – Eine Übersicht.” *SolarBau:MONITOR daylighting workshop*, Kassel, Germany.
- Jan 99 “Planung eines Büroneubaus – Tageslichtsimulation als Entscheidungshilfe in der Entwurfsphase.” *5th Symposium on Lighting Buildings*, Staffelstein, Germany.

EXHIBITIONS

- Apr 11 “Ceramic Futures”, *Harvard University GSD* (with M Bechthold)
- Nov 08 “Modeling Gund Hall”, *Harvard University GSD*

PUBLICATIONS

BOOKS AND BOOK CHAPTERS

1. Reinhart C F, *Daylighting Handbook II – Daylight Simulations & Dynamic Facades*, Building Technology Press, Cambridge, www.BuidingTechnologyPress.com October 2018
2. Reinhart C F and Davila Cerezo, “Urban Building Energy Modeling,” book chapter in *Building Performance Simulation for Design and Operation*, 2nd edition, Editors J Hensen and R Lamberts, Taylor & Francis, 2019
3. Reinhart C F, “Daylight Performance Predictions,” book chapter in *Building Performance Simulation for Design and Operation*, 2nd edition, Editors J Hensen and R Lamberts, Taylor & Francis, 2019
4. Reinhart C F, *Daylighting Handbook I – Fundamentals & Designing with the Sun*, Building Technology Press, Cambridge, www.BuidingTechnologyPress.com, April 2014
5. Reinhart C F, “Simulation-based Daylight Performance Predictions,” book chapter in *Building Performance Simulation for Design and Operation*, Editors J Hensen and R Lamberts, Taylor & Francis, 2011
6. Reinhart C F, Wambsganß M, “Zusammenspiel Kunstlicht/Tageslicht.“ chapter in *Bürogebäude mit Zukunft – Konzepte, Erfahrungen, Analysen*, TÜV Verlag, Colon, Germany, pp.118-130, 2005 (The book won the 2005 Innovation Price of the German Printing Industry.)
7. Reinhart C F, “Energy Efficient Solar Buildings.” chapter in *The Future for Renewable Energies: Prospects and Directions*, James & James, London, pp. 79-114 , 2002
8. Reinhart C F, *Daylight Availability and Manual Lighting Control in Office Buildings – Simulation Studies and Analysis of Measurements*. Fraunhofer IRB Verlag, Stuttgart, Germany, 2001

PAPERS IN REFEREED JOURNALS

1. Y Q Ang, Z Berzolla, S Letellier-Duchesne, V Jusiega and C Reinhart, 2022, UBEM.io: A web-based Framework to Rapidly Generate Urban Building Energy Models for Carbon Reduction Technology Pathways, Sustainable Cities and Society, 2022, 77, <https://doi.org/10.1016/j.scs.2021.103534>
2. E Young, P Kastner, T Dogan, A Chokhachian, S Mokhtar and C Reinhart, 2022, Modeling Outdoor Thermal Comfort Along Cycling Routes At Varying Levels Of Physical Accuracy To Predict Bike Ridership In Cambridge, MA, Building and Environment, 208, <https://doi.org/10.1016/j.buildenv.2021.108577>
3. J T Szcześniak, Y Q Ang, S Letellier-Duchesne and C F Reinhart, 2022, “A Method for Using Street View Imagery to Auto-extract Window-To-Wall Ratios and its Relevance for Urban-level Daylighting and Energy Simulations,” *Building and Environment*, 207, Part B, <https://doi.org/10.1016/j.buildenv.2021.108108>
4. M Liebman-Pelaez, J Kongoletos, L K Norford and C F Reinhart, 2021, “Validation of a Building Energy Model of a Hydroponic Container Farm and its Application in Urban Design,” *Energy and Buildings*, 250, <https://doi.org/10.1016/j.enbuild.2021.111192>
5. I Turan, A Chegut, D Fink and C Reinhart, 2021, “Development of View Analysis Metrics and Their Financial Impacts on Office Rents,” *Landscape and Urban Planning*, 215, <https://doi.org/10.1016/j.landurbplan.2021.104193>
6. N Buckley, G Mills, C Reinhart and Z M Berzolla, 2021, “Using Urban Building Energy Modelling (UBEM) to support the new European Union’s Green Deal:

- Case study of Dublin Ireland,” *Energy and Buildings*, 247, 2021, 111115, <https://doi.org/10.1016/j.enbuild.2021.111115>
7. K Benis, W Alhayaza, A Alsaati and C Reinhart, 2021, “What's the carbon content of your food?": Development of an interactive online foodprint simulator,” *WIT Transactions on Ecology and the Environment*, 243, 2020, pp. 123 – 132, <https://doi.org/10.2495/UA200111>
 8. Y Q Ang, Z M Berzolla and C Reinhart, 2020, “From concept to application: A review of use cases in urban building energy modeling,” *Applied Energy*, 279:1, <https://doi.org/10.1016/j.apenergy.2020.115738>
 9. R Weber, N Oxman, C Reinhart, 2020, “Photon Mapping of Geometrically Complex Glass Structures: Methods and Experimental Evaluation,” *Building and Environment*, Volume 180, <https://doi.org/10.1016/j.buildenv.2020.106957>
 10. I Turan, A Chegut, D Fink and C Reinhart, 2020, “The Value of Daylight in Office Spaces,” *Building and Environment*, 168, <https://doi.org/10.1016/j.buildenv.2019.106503>
 11. Schweiker, M., Abdul-Zahra, A., André, M. et al., 2019, “The Scales Project, a cross-national dataset on the interpretation of thermal perception scales,” *Sci Data*, 6, 289, <https://doi.org/10.6084/m9.figshare.9805289>
 12. E Barbour, C Davila Cerezo, S Gupta, C Reinhart, J Kaur and M Gonzalez, 2019, “Planning for sustainable cities by estimating building occupancy with mobile phones,” *Nature Communications*, 10, <https://doi.org/10.1038/s41467-019-11685-w>
 13. S Nagpal, J Hanson and C F Reinhart, 2019, “A framework for using calibrated campus-wide building energy models for continuous planning and greenhouse gas emissions reduction tracking,” *Applied Energy*, 241, pp. 82-96, <https://doi.org/10.1016/j.apenergy.2019.03.010>
 14. N L Jones and C F Reinhart, 2019, “Effects of real-time simulation feedback on design for visual comfort,” *Journal of Building Performance Simulation*, 12:3, pp. 343-361, <https://doi.org/10.1080/19401493.2018.1449889>
 15. J Dhariwal, P Manandhar, L Bande, P Marpu, P Armstrong and C F Reinhart, 2019, Evaluating the effectiveness of outdoor evaporative cooling in a hot, arid climate, *Building and Environment*, 150, pp. 281–288, <https://doi.org/10.1016/j.buildenv.2019.01.016>
 16. S Nagpal and C F Reinhart, 2018, “A comparison of two modeling approaches for establishing and implementing energy use reduction targets for a university campus,” *Energy and Buildings*, 173, pp. 103–116, <https://doi.org/10.1016/j.enbuild.2018.05.035>
 17. P Gianniou, C F Reinhart, D Hsu, A Heller and C Rode, 2018, “Estimation of temperature setpoints and heat transfer coefficients among residential buildings in Denmark based on smart meter data,” *Building and Environment*, 139, pp. 125–133, <https://doi.org/10.1016/j.buildenv.2018.05.016>
 18. S Nagpal, C Mueller, A Aijazi and C F Reinhart, 2018, “A methodology for auto-calibrating urban building energy models using surrogate modeling techniques,” *Journal of Building Performance Simulation*, 12:1, pp. 1–16, <https://doi.org/10.1080/19401493.2018.1457722>
 19. S Letellier-Duchesne, S Nagpal, M Kummert and C F Reinhart, 2018, “Balancing demand and supply: Linking neighborhood-level building load calculations with detailed district energy network analysis models,” *Energy*, 150, pp. 913-925, <https://doi.org/10.1016/j.energy.2018.02.138>
 20. K Benis, I Turan, C F Reinhart and P Ferrão, 2018, “Putting Rooftops to Use – a Cost-Benefit Analysis of Food Production vs. Energy Generation under

- Mediterranean Climates,” *Cities*, 78, pp. 166-179, <https://doi.org/10.1016/j.cities.2018.02.011>
21. Freitas, C F Reinhart, M C Brito, 2018, "Minimizing storage needs for large scale photovoltaics in the urban environment," *Solar Energy*, 159:1, pp.375–389, <https://doi.org/10.1016/j.solener.2017.11.011>
 22. C F Reinhart , J Dhariwal and K Gero, 2017, “Biometeorological indices explain outside dwelling patterns based on Wi-Fi data in support of sustainable urban planning,” *Building and Environment*, 137, pp. 422-430, <https://doi.org/10.1016/j.buildenv.2017.10.026>
 23. K Benis, R Gashgari, A Alsaati and C F Reinhart, 2018, "Urban Foodprints (UF) – Establishing baseline scenarios for the sustainability assessment of high-yield urban agriculture," *International Journal of Design & Nature and Ecodynamics*, 13:4, pp. 349-360, <https://doi.org/10.2495/DNE-V13-N4-349-360>
 24. C Cerezo, J Sokol, S AlKhaled, C F Reinhart, A Al-Mumin, A Hajjiah, 2017, “Comparison of four building archetype characterization methods in urban building energy modeling (UBEM): A residential case study in Kuwait City,” *Energy and Buildings*, 154: 1, pp. 321–334, <https://doi.org/10.1016/j.enbuild.2017.08.029>
 25. C De Wolf, C Cerezo, Z Murtadhawi, A Hajjiah, A Al Mumin, J Ochsendorf, C F Reinhart, 2017, “Life Cycle Building Impact of a Middle Eastern Residential Neighborhood,” *Energy*, 134, pp. 336–348, <https://doi.org/10.1016/j.energy.2017.06.026>
 26. T Dogan and C F Reinhart, 2017, “Shoeboxer: An algorithm for abstracted rapid multi-zone urban building energy model generation and simulation,” *Energy and Building*, 140, pp. 140–153, <https://doi.org/10.1016/j.enbuild.2017.01.030>
 27. K Benis, C F Reinhart and P Ferrão, 2017, “Development of a simulation-based decision support workflow for the implementation of Building-Integrated Agriculture (BIA) in urban contexts,” *Journal of Cleaner Production*, 147, pp. 589–602, <https://doi.org/10.1016/j.jclepro.2017.01.130>
 28. N Soares and C F Reinhart, 2017, “Simulation-based analysis of the use of PCM-wallboards to reduce cooling energy demand and peak-loads in low-rise residential heavyweight buildings in Kuwait,” *Building Simulation: An International Journal*, 10, pp. 481–495, <https://doi.org/10.1007/s12273-017-0347-2>
 29. J A Sokol, C Cerezo and C F Reinhart, 2017, “Validation of a Bayesian-Based Method for Defining Archetypes for Urban Building Energy Modeling,” *Energy and Buildings*, 134, pp. 11–24, <https://doi.org/10.1016/j.enbuild.2016.10.050>
 30. C Cerezo Davila, C F Reinhart and J Bemis, 2017, “Modeling Boston: A workflow for the efficient generation and maintenance of urban building energy models from existing geospatial datasets,” *Energy*, 117, pp. 237-250, <https://doi.org/10.1016/j.energy.2016.10.057>
 31. E Saratsis, T Dogan and C F Reinhart, 2017, “Daylit Density – A simulation-based framework for the development of urban zoning rules for daylighting,” *Building Research and Information*, 45:5, pp. 478-491, <https://doi.org/10.1080/09613218.2016.1159850>
 32. C F Reinhart and C Cerezo Davila, 2016, “Urban Building Energy Modeling – A Review of a Nascent Field,” *Building and Environment*, 97, pp. 196-202, <http://dx.doi.org/10.1016/j.buildenv.2015.12.001>
 33. J A Jakubiec and C F Reinhart, A Concept for Predicting Occupants’ Long-term Visual Comfort within Daylit Spaces, *LEUKOS*, pp. 1-19, 12:4, pp. 185-202, <https://doi.org/10.1080/15502724.2015.1090880>

34. T Dogan, P Michelatos and C F Reinhart, 2015, "Autozoner: An algorithm for automatic thermal zoning of buildings with unknown interior space definitions," *Journal of Building Performance Simulation*, 9:2, pp. 176-189, <https://doi.org/10.1080/19401493.2015.1006527>
35. H W Samuelson, A Ghorayshi and C F Reinhart, 2015, "Analysis of a Simplified Calibration Procedure for 18 Design-Phase Building Energy Models," *Journal of Building Performance Simulation*, 9:1, pp. 17-29, <https://doi.org/10.1080/19401493.2014.988752>
36. C F Reinhart, "Opinion: Climate-based daylighting metrics in LEEDv4 – A fragile progress," *Lighting Research and Technology*, 47, p. 388, 2015
37. C F Reinhart, T Rakha and D Weissman, 2014, "Predicting the Daylit Area — A Comparison of Students Assessments and Simulations at Eleven Schools of Architecture," *LEUKOS*, 10[4], pp. 193-206, <https://doi.org/10.1177/1477153515587613>
38. J A Jakubiec and C F Reinhart, 2014, "Assessing Disability Glare Potential of Reflections from New Construction," *Transportation Research Record: Journal of the Transportation Research Board* 2449.1, pp. 114-122, <https://doi.org/10.3141/2449-13>
39. J Niemasz, J Sargent and C F Reinhart, 2013, "Solar Zoning and Energy in Detached Residential Dwellings," *Environment & Planning B: Planning and Design*, 40[5], pp. 801–813, <https://doi.org/10.1068/b38055>
40. J A Jakubiec and C F Reinhart, 2013, "A Method for Predicting City-Wide Electricity Gains from Photovoltaic Panels Based on LiDAR and GIS Data Combined with Hourly Daysim Simulations", *Solar Energy*, 94, pp. 127-143, <https://doi.org/10.1016/j.solener.2013.03.022>
41. S H Holmes and C F Reinhart, 2013, "Assessing future climate change and energy price scenarios for institutional building investment and HVAC operation", *Building Research and Information*, 41[2], pp. 209-222, <https://doi.org/10.1080/09613218.2013.769297>
42. C F Reinhart, T Dogan, D Ibarra and H W Samuelson, 2012, "Learning by doing - Teaching energy simulation as a game", *Journal of Building Performance Simulation*, 5[6], pp 359-368, <https://doi.org/10.1080/19401493.2011.619668>
43. H W Samuelson, A Lantz and C F Reinhart, 2012, "Non-technical barriers to energy model sharing and reuse", *Building and Environment*, 54, pp. 71-76, <https://doi.org/10.1016/j.buildenv.2012.02.001>
44. C F Reinhart and D Weissman, 2012, "The Daylit Area – Correlating architectural student assessments with current and emerging daylight availability metrics", *Building and Environment*, 50, pp. 155-162, <https://doi.org/10.1016/j.buildenv.2011.10.024>
45. J A Jakubiec and C F Reinhart, 2011, "The 'adaptive zone' – A concept for assessing glare throughout daylit spaces", *Lighting Research and Technology*, 44, pp. 149-170, <https://doi.org/10.1016/j.buildenv.2011.10.024>
46. C F Reinhart and J Wienold, 2011, "The Daylighting Dashboard - A Simulation-Based Design Analysis for Daylit Spaces", *Building & Environment*, 46:2, pp. 386-396, <https://doi.org/10.1016/j.buildenv.2010.08.001>
47. C F Reinhart and V LoVerso, 2010, "A Rules of Thumb Based Design Sequence for Diffuse Daylight". *Lighting Research and Technology*, 42:1, pp.7-32, <https://doi.org/10.1177/1477153509104765>
48. C F Reinhart and P-F Breton, 2009, "Experimental Validation of Autodesk® 3ds Max® Design 2009 and Daysim3.0". *LEUKOS*, 6:1, <https://doi.org/10.1582/LEUKOS.2009.06.01001>

49. A Laouadi, C F Reinhart and D Bourgeois, 2008, "Efficient calculation of daylight coefficients for rooms with dissimilar complex fenestration systems," *Journal of Building Performance Simulation*, 1:1 pp. 3-15, <https://doi.org/10.1080/19401490701868299>
50. C F Reinhart, 2008, "Discussion of Mardaljevic and Nabil's paper: Electrochromic glazing and facade photovoltaic panels: a strategic assessment of the potential energy benefits", *Lighting Research & Technology*, 40:1, pp. 55-76, <https://doi.org/10.1177/1477153507083906>
51. A D Galasiu and C F Reinhart, 2008, "Current Daylighting Design Practice: A Survey", *Building Research & Information*, 36:2 pp. 159 – 174, <https://doi.org/10.1080/09613210701549748>
52. D Bourgeois, C F Reinhart and G Ward, 2008, "A Standard Daylight Coefficient Model for Dynamic Daylighting Simulations," *Building Research & Information*, 36:1 pp. 68 – 82, <https://doi.org/10.1080/09613210701446325>
53. C F Reinhart, J Mardaljevic and Z Rogers, 2006, "Dynamic Daylight Performance Metrics for Sustainable Building Design", *LEUKOS*, 3:1, pp. 7 – 31, <https://doi.org/10.1582/LEUKOS.2006.03.01.001>
54. C F Reinhart and S E Selkowitz, 2006, "Guest Editorial: Daylighting – Light, Form, and People", *Energy and Buildings*, 38:7 pp. 715-717, <https://doi.org/10.1016/j.enbuild.2006.03.005>
55. C F Reinhart and M Andersen, 2006, "Development and validation of a Radiance model for a translucent panel", *Energy and Buildings*, 38:7 pp. 890-904, <https://doi.org/10.1016/j.enbuild.2006.03.006>
56. C F Reinhart and A Fitz, 2006, "Findings from a survey on the current use of daylight simulations during building design", *Energy and Buildings*, 38:7 pp. 824-835, <https://doi.org/10.1016/j.enbuild.2006.03.012>
57. D Bourgeois, I MacDonald and C F Reinhart, 2006, "Adding advanced behavioral models in whole building energy simulation: a study on the total energy impact of manual and automated lighting control", *Energy and Buildings*, 38:7 pp. 814-823, <https://doi.org/10.1016/j.enbuild.2006.03.002>
58. C F Reinhart, 2004, "Discussion of Mardaljevic's paper: Verification of Program Accuracy for Illuminance Modelling: Assumptions, Methodology and an Examination of Conflicting Findings", *Lighting Research & Technology*, 36:3 pp. 239-240, <https://doi.org/10.1177/136578280403600312>
59. C F Reinhart, 2004, "Lightswitch 2002: A model for manual control of electric lighting and blinds", *Solar Energy*, 77:1 pp. 15-28, <https://doi.org/10.1016/j.solener.2004.04.003>
60. C F Reinhart and K Voss, 2003, "Monitoring manual control of electric lighting and blinds." *Lighting Research & Technology*, 35:3 pp. 243-260, <https://doi.org/10.1191/1365782803li064oa>
61. C F Reinhart, 2002, "Comment on Mardaljevic's: Simulation of annual daylighting profiles for internal illuminance." *Lighting Research & Technology*, 34:1 pp.79-81, <https://doi.org/10.1191/1365782802li032xx>
62. O Walkenhorst, J Luther, C F Reinhart and J Timmer, 2002, "Dynamic annual daylight simulations based on one-hour and one-minute means of irradiance data," *Solar Energy*, 72:5 pp. 385-395, [https://doi.org/10.1016/S0038-092X\(02\)00019-1](https://doi.org/10.1016/S0038-092X(02)00019-1)
63. C F Reinhart and O Walkenhorst, 2001, "Dynamic RADIANCE-based daylight simulations for a full-scale test office with outer venetian blinds." *Energy & Buildings*, 33:7 pp. 683-697, [https://doi.org/10.1016/S0378-7788\(01\)00058-5](https://doi.org/10.1016/S0378-7788(01)00058-5)
64. Reinhart C F and S Herkel, 2000, "The simulation of annual daylight illuminance distributions- A state of the art comparison of six RADIANCE based methods,"

- Energy & Buildings*, 32:2 pp. 167-187, [https://doi.org/10.1016/S0378-7788\(00\)00042-6](https://doi.org/10.1016/S0378-7788(00)00042-6)
65. M L W Thewalt, D A Harrison, C F Reinhart, J A Wolk and H Lafontaine, 1997, "Type II band alignment in Si_{1-x}Gex/Si(001) quantum wells: The ubiquitous type II luminescence results from band bending," *Physical Review Letters*, 79:2 pp. 269-273, <https://doi.org/10.1103/PhysRevLett.79.269>
66. W F J Evans, C F Reinhart and E Puckrin, 1995, "A ground-based measurement of the anomalous cloud absorption effect," *Geophysical Research Letters*, 22:16, pp. 2135-38, <https://doi.org/10.1029/95GL02084>

Papers in Refereed Conference Proceedings

1. R E Weber, C Mueller and C F Reinhart, 2021, Generative Structural Design for Embodied Carbon Estimation, Proceedings of the IASS Annual Symposium 2020/21 and the 7th International Conference on Spatial Structures Inspiring the Next Generation, 23 – 27 August 2021, Guilford, UK
2. G Mills, N Buckley, C Reinhart, J Ching, D Niyogi and D Aliaga, "Generating Urban - Scale Building Data To Support Climate Modeling," Proceedings of the 100th American Meteorological Society Annual Meeting, Boston , January 2020
3. A Y Arsano, C Cerezo Davila, C Reinhart, 'Early-Design Optimization of Target Ventilation Rates for Hybrid Buildings Using Single-Node Analytical Model, Building simulation 2019, 16th International IBPSA Conference, Rome, Italy, Sep 2019
4. I Turan, M Kocher, C Reinhart, "A New Framework for Evaluating Views throughout Open Plan Work Spaces, " Building simulation 2019, 16th International IBPSA Conference, Rome, Italy, Sep 2019
5. S Nagpal, J Hanson and C F Reinhart, 2018, Auto-Calibrated Urban Building Energy Models as Continuous Planning Tools, Proceedings of the Symposium on Simulation for Architecture and Urban Design 2018, Delft, The Netherlands, June 4 – 7 2018
6. J Min Han, C F Reinhart, "Development of the Urban Surfacer Management Software for PVs and Stormwater with Connectivity to Urban Modeling Interface," Proceedings of 2018 Building Performance Analysis Conference and SimBuild, Chicago, IL, Sep 26-28, 2018
7. N L Jones and C F Reinhart, 2017, "Speedup Potential of Climate-Based Daylight Modelling on GPUs," Proceedings of *Building Simulation 2017*, San Francisco, August 2017
8. C Cerezo Davila, N L Jones, C F Reinhart, A Al Mumin and A Hajiah, 2017, "Implementation of a Calibrated Urban Building Energy Model (UBEM) for the Evaluation of Energy Efficiency Scenarios in a Kuwaiti Residential Neighborhood," Proceedings of *Building Simulation 2017*, San Francisco, August 2017
9. T Rakha, P Zhand and C F Reinhart, "A Framework for Annual Outdoor Thermal Comfort Simulation," Proceedings of *Building Simulation 2017*, San Francisco, August 2017
10. K Benis, C F Reinhart and Paulo Ferrão, 2017, "Building-Integrated Agriculture (BIA) in Urban Contexts: Testing a Simulation-Based Decision Support Workflow," Proceedings of *Building Simulation 2017*, San Francisco, August 2017
11. A Yacob Arsano and C F Reinhart, 2017, "A Comparison of Climate-File and Energy-Simulation Based Methods for Evaluating the Natural Ventilation Cooling Potential of Buildings," Proceedings of *Building Simulation 2017*, San Francisco, August 2017

12. I Turan, A Chegut and C F Reinhart, 2017, "Connecting Environmental Performance Analysis to Cash Flow Modeling for Financial Valuation of Buildings in Early Design," Proceedings of *Building Simulation 2017*, San Francisco, August 2017
13. I Turan, J E. Fernández, C F Reinhart, P Ferrão, E Olivetti, 2017, "From Sink to Stock: The Potential for Recycling Materials from the Existing Built Environment," *33rd International Conference on Passive and Low Energy Architecture*, Edinburgh, July 2017, pp. 1-8
13. N L Jones and C F Reinhart, "Real-time visual comfort feedback for architectural design," *32nd International Conference on Passive and Low Energy Architecture*, Los Angeles, California, July 11-13, pp. 1-6, 2016
14. N L Jones and C F Reinhart, "Parallel multiple-bounce irradiance caching," *Computer Graphics Forum* 35:4, pp. 57-66, 2016
15. S Monteiroa, A Pinaa, C Cerezo Davila, C F Reinhart, P Ferrãoa, 2016, "The use of multi-detail building archetypes in urban energy modelling," *8th International Conference on Sustainability in Energy and Buildings*, SEB-16, 11-13 September 2016, Turin, ITALY
16. C F Reinhart, J Geisinger, T Dogan and E Saratsis, 2015, "Lessons learned from a simulation-based approach to teaching building science to designers," Proceedings of *Building Simulation 2015*, Hyderabad, India, December 2015
17. J A Jakubiec, C F Reinhart and K Van Den Wymelenberg, 2015, "Towards an Integrated Framework for Predicting Visual Comfort Conditions from Luminance-based Metrics in Daylit Spaces," Proceedings of *Building Simulation 2015*, Hyderabad, India, December 2015
18. T Dogan, E Saratsis and C F Reinhart, 2015, "Towards An Energy Simulation-Informed Design Process," Proceedings of *Building Simulation 2015*, Hyderabad, India, December 2015
19. C M Rose, E Saratsis, S Aldawood, Salma, T Dogan and C F Reinhart, 2015, "A Tangible Interface for Collaborative Urban Design for Energy Efficiency, Daylighting, and Walkability," Proceedings of *Building Simulation 2015*, Hyderabad, India, December 2015
20. C Cerezo Davila, J A Sokol, C F Reinhart and A Al-Mumin, 2015, "Comparison Of Three Methods For The Characterization Of Building Archetypes In Urban Scale Energy Simulation. The Case Study Of A Residential Neighborhood In Kuwait," Proceedings of *Building Simulation 2015*, Hyderabad, India, December 2015
21. T Dogan, E Saratsis and C F Reinhart, 2015, "The Optimization Potential Of Floorplan Typologies In Early Design Energy Modeling," Proceedings of *Building Simulation 2015*, Hyderabad, India, December 2015
22. N L Jones and C F Reinhart, 2015, "Validation of GPU Lighting Simulation in Naturally and Artificially Lit Spaces", Proceedings of *Building Simulation 2015*, Hyderabad, India, December 2015
23. N L Jones and C F Reinhart, 2015, "Fast Daylight Coefficient Calculation using Graphics Hardware", Proceedings of *Building Simulation 2015*, Hyderabad, India, December 2015.
24. A Nakano, B Nueno, L Norford and C F Reinhart, 2015, "Urban Weather Generator – A Novel Workflow for Integrating Urban Heat Island Effect Within Urban Design Process", Proceedings of *Building Simulation 2015*, Hyderabad, India, December 2015
25. A Nakano, Bruno Bueno L Norford, C F Reinhart, 2015, "Urban Weather Generator User Interface Development: New Workflow for Integrating Urban Heat Island Effect in Urban Design Process," *9th International Conference on Urban Climate* jointly with 12th Symposium on the Urban Environment, July 24, 2015

26. N. Zhao, M. H. Aldrich, C. F. Reinhart and J. A. Paradiso, "A Multidimensional Continuous Contextual Lighting Control System Using Google Glass," Proceedings of the 2nd ACM International Conference, Seoul, South Korea, November 2015, pp. 1–10
27. T Rakha, C M Rose, and C F Reinhart, 2014, "A Framework for Modelling Occupancy Schedules and Local trips based on Activity Based Surveys," 2014 *ASHRAE/IBPSA-USA Building Simulation Conference*, Atlanta, GA, September 10-12, 2014
28. H W Samuelson , A Ghorayshi and C F Reinhart, 2014, "Post-Occupancy Evaluation and Partial-Calibration of 18 Design Phase Energy Models," *ASHRAE/IBPSA-USA Building Simulation Conference*, Atlanta, GA, September 10-12, 2014
29. N L Jones and C F Reinhart, 2014, "Irradiance Caching for Global Illumination Calculation On Graphics Hardware," 2014 *ASHRAE/IBPSA-USA Building Simulation Conference*, Atlanta, GA, September 10-12, 2014
30. C Cerezo, T Dogan and C. Reinhart, 2014, "Towards standardized building properties template files for early design energy model generation," *ASHRAE/IBPSA-USA Building Simulation Conference*, Atlanta, GA, September 10-12, 2014
31. N L Jones and C F Reinhart, 2014, "Physically Based Global Illumination Calculation Using Graphics Hardware," *esim 2014*, IBPSA Canada, Ottawa, ON, May 7-10, 2014
32. T Dogan, C F Reinhart and P Michelatos, 2014, "Automated multi-zone building energy model generation for schematic design and urban massing studies," *esim 2014*, IBPSA Canada, Ottawa, ON, May 7-10, 2014
33. C F Reinhart, T Dogan, J A Jakubiec, T Rakha and A Sang, "umi – An urban simulation environment for building energy use, daylighting and walkability", Proceedings of *Building Simulation 2013*, Chambéry, France, August 2013
34. C F Reinhart J A Jakubiec and D Ibarra, "Definition of a Reference Office for standardized evaluations of façade and lighting technologies", Proceedings of *Building Simulation 2013*, Chambéry, France, August 2013
35. J A Jakubiec and C F Reinhart, "Predicting visual comfort conditions in a large daylit space based on long-term occupant evaluations: A field study", Proceedings of *Building Simulation 2013*, Chambéry, France, August 2013
36. E Glassman and C F Reinhart, "Facade Optimization Using Parametric Design and Future Climate Scenarios", Proceedings of *Building Simulation 2013*, Chambéry, France, August 2013
37. C Cerezo Davila and C F Reinhart, "Urban energy lifecycle: An analytical framework to evaluate the embodied energy use of urban developments", Proceedings of *Building Simulation 2013*, Chambéry, France, August 2013
38. M Street, C F Reinhart, L Norford and J Ochsendorf, "Urban Heat Island Effect in Boston – An evaluation of urban temperature models for predicting building energy use", Proceedings of *Building Simulation 2013*, Chambéry, France, August 2013.
39. D Ibarra and C F Reinhart, "Teaching Daylight Simulations – Improving Modeling Workflows For Simulation Novices", Proceedings of *Building Simulation 2013*, Chambéry, France, August 2013
40. T Dogan and C F Reinhart, "Automated conversion of architectural massing models into thermal 'shoebox' models", Proceedings of *Building Simulation 2013*, Chambéry, France, August 2013
41. T Rakha and C F Reinhart, "A carbon impact simulation-based framework for land use planning and non-motorized travel behavior interactions", Proceedings of *Building Simulation 2013*, Chambéry, France, August 2013

42. J A Jakubiec and C F Reinhart, "Towards validated urban solar radiation maps based on LiDAR measurements, GIS data and hourly Daysim simulations", Proceedings of *SimBuild 2012*, Madison, Wisconsin, USA, 2012
43. T Dogan, C F Reinhart and P Michelatos, "Urban daylight simulation: Calculating the daylight area of urban designs", Proceedings of *SimBuild 2012*, Madison, Wisconsin, USA.
44. T Rakha and C F Reinhart, "Generative Urban Modeling: A Design Work Flow for walkability-optimized cities", Proceedings of *SimBuild 2012*, Madison, Wisconsin, USA, 2012
45. H Jianxiang, J G Cedeño Laurent, J Spengler and C F Reinhart, "A GIS-based assessment method for mean radiant temperature in dense urban areas", Proceedings of *SimBuild 2012*, Madison, Wisconsin, USA, 2012
46. B Wang, T Dogan, D Pal and C F Reinhart, "Simulating naturally ventilated buildings with detailed CFD-based wind pressure database", "Proceedings of *SimBuild 2012*, Madison, Wisconsin, USA, 2012
47. K Dondeti and C F Reinhart, "A 'PICASA' for BPS – An interactive data organization and visualization system for building performance simulation", Proceedings of *Building Simulation 2011*, Sydney, Australia, 2011
48. D Ibarra and C F Reinhart, "Solar availability: A comparison study of irradiation distribution methods", Proceedings of *Building Simulation 2011*, Sydney, Australia, 2011
49. S H Holmes and C F Reinhart, "Climate change risks form a building owner's perspective: Assessing future climate and price scenarios", Proceedings of *Building Simulation 2011*, Sydney, Australia, 2011
50. J A Jakubiec and C F Reinhart, "The adaptive zone – A concept for assessing glare throughout daylight spaces", Proceedings of *Building Simulation 2011*, Sydney, Australia, 2011
51. J A Jakubiec and C F Reinhart, "DIVA-FOR-RHINO 2.0: Environmental parametric modeling in Rhinoceros/Grasshopper using Radiance, Daysim and EnergyPlus", Proceedings of *Building Simulation 2011*, Sydney, Australia, 2011
52. A Bakshi, J A Jakubiec, "A simple cost-benefit estimation for daylighting design and analysis during the design process", Proceedings of *Building Simulation 2011*, Sydney, Australia, 2011
53. C F Reinhart, T Dogan, D Ibarra and H W Samuelson, "Learning by doing - Teaching energy simulation as a game", Proceedings of *Building Simulation 2011*, Sydney, Australia, 2011
54. H W Samuelson, A Lantz and C F Reinhart, "Identifying non-technical barriers to energy model sharing and reuse", Proceedings of *Building Simulation 2011*, Sydney, Australia, 2011
55. J Sargent, J Niemasz and C F Reinhart, "Shaderade: Combining Rhinoceros and EnergyPlus for the design of static exterior shading devices", Proceedings of *Building Simulation 2011*, Sydney, Australia, 2011
56. M Bechthold, J King, A Kane, J Niemasz and C F Reinhart, Integrated Environmental Design and Robotic Fabrication Workflow for Ceramic Shading Systems, Proceedings of the *International Symposium on Algorithms and Computation (ISAAC 2011)* in June, South Korea, 2011
57. J Niemasz, J Sargent, C F Reinhart, "Solar Envelope and Energy in Single Family Detached Housing", *SimAUD 2011*, April 2011, Boston, 2011
58. R Manudhane and C F Reinhart, "Daylighting Nomographs Revisited - Rules-of-Thumb to Predict Energy Savings from Photocell Controlled Dimming Systems", Proceedings of *SimBuild 2010*, New York City, August 2010

59. C F Reinhart and J Wienold, "The Daylighting Dashboard - A Simulation-Based Design Analysis for Daylit Spaces", Proceedings of *SimBuild 2010*, New York City, August 2010
60. K Lagios, J Niemasz and C F Reinhart, "Animated Building Performance Simulation (ABPS) - Linking Rhinoceros/Grasshopper with Radiance/Daysim", Proceedings of *SimBuild 2010*, New York City, August 2010
61. Lo Verso V R M, Reinhart, C F, "Validation of the Lynes mean daylight factor formula and the daylight feasibility study in toplit spaces, Conf. Proceedings of *Lighting Quality & Energy Efficiency* (CIE conference), Vienna, Austria, March 17-17 2010
62. Reinhart C F, Breton PF, "Experimental Validation of 3ds Max® Design 2009 and Daysim 3.0", Proceedings of Building Simulation 2009, Glasgow, July 2009
63. Wasilowski H A, Reinhart C F, "Modeling an existing building using customized weather data and internal load schedules as opposed to default assumptions - A Case Study", Proceedings of Building Simulation 2009, Glasgow, July 2009
64. Ibarra D, Reinhart C F, "Daylight factor simulations - 'How close do simulation beginners 'really' get?'"', Proceedings of Building Simulation 2009, Glasgow, July 2009
65. Reinhart C F, Bourgeois D, Dubrous F, Laouadi A, Lopez P, Stelescu O, "Daylight 1-2-3 – A stat-of-the-art daylighting design software for initial design investigations". *Proceedings of the Buildings Simulation 2007 (IBPSA)*, Beijing, China, September 3-6 2007
66. Bourgeois D, Reinhart C F. 2007. "Multiple time scale solutions for dynamic boundary conditions within whole-building energy simulation", *Proceedings of the Buildings Simulation 2007 (IBPSA)*, Beijing, China, September 3-6 2007
67. Laouadi A, Reinhart C F, Bourgeois D, "The daylight coefficient method and complex fenestration". *Proceedings of the Buildings Simulation 2007 (IBPSA)*, Beijing, China, September 3-6 2007
68. Bourgeois D, Reinhart C F, Ward G, "An inter-model comparison of DDS and Daysim Daylight coefficient methods", *Proceedings of the European Conference on Energy Performance & Indoor Climate in Buildings (EPIC)*, Lyon, France, November 2006
69. Reinhart C F, "A simulation-based review of the ubiquitous window-head-height to daylit zone depth rule of thumb", *Proceedings of the Buildings Simulation 2005*, Montreal, Canada, August 15-18 2005
70. Bourgeois D, Reinhart C F, Macdonald I A, "Assessing the total energy impact of occupant behavioral response to manual and automated lighting systems", *Proceedings of the Buildings Simulation 2005*, Montreal, Canada, August 15-18 2005
71. Reinhart C F, Jones C, "Lightswitch – DOE2: A comparison of two manual blind control algorithms", *Proceedings of esim 2004*, pp. 183-189, Vancouver, Canada, June 2004
72. Reinhart C F, Fitz A, "Key findings from a survey on the use of daylight simulation programs", *Proceedings of esim 2004*, pp. 175-182, Vancouver, Canada, June 2004
73. Bourgeois D, Reinhart C F, Hand J, MacDonald I, "Adding sub-hourly occupancy prediction, occupancy-sensing control and manual environmental control to whole-building energy simulation", *Proceedings of esim 2004*, pp. 119-126, Vancouver, Canada, June 2004
74. Veitch J A, Charles K E, Newsham G N, Bradley J S, Shaw C, Sander D M, Reinhart C F, "The intersection of disciplines: NRC's cost-effective-open-plan-environments", Canadian Psychological Association 65th Annual Convention, June 2004

75. Bourgeois D, MacDonald I, Hand J, Reinhart C F, “Adding sub-hourly occupancy prediction, occupancy-sensing control and manual environmental control to whole-building energy simulation”, *Proceedings of IAQVEC 2004*, the 5th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings, held during the CIB World Building Congress 2004, Toronto, Canada, May 2004
76. Reinhart C F, Morrison M, Dubrous F, “The Lightswitch Wizard – Reliable daylight simulations for initial design investigation.” *Proceedings of the Buildings Simulation 2003*, III pp.1093-1100, Eindhoven, The Netherlands, August 11- 14, 2003
77. Reinhart C F, “Effects of interior design on the daylight availability in open plan offices.” *Proceedings of the ACE³ 2002 Summer Study on Energy Efficiency in Buildings*, 14 pp., Pacific Grove, USA, August 2002
78. Reinhart C F, Voss K, Wagner A, Löhnert G, “Lean buildings: Energy-efficient commercial buildings in Germany.”, *Proceedings of the ACE³ 2000 Summer Study on Energy Efficiency in Buildings* 3 pp. 3.287-3.298, Pacific Grove, USA, August 2000
79. Reinhart C F, Herkel S, “An evaluation of RADIANCE based simulations of annual indoor illuminance distributions due to daylight.” *Proceedings of the IBPSA '99 Buildings Simulation*, II pp. 563 - 570, Kyoto, Japan, September 1999

Other Major Publications

1. Reinhart C F and E Saratsis, “Evaluating Urban Resource-Efficiency,” chapter in *Energy Accounts: Architectural Representations of Energy, Climate, and the Future*, Editors D Willis, W Braham, K Muramoto and D Barber, to be published by *Routledge* in 2017
2. Reinhart, C.F, “Simulation-based Daylight Performance Predictions“ book chapter in *Building Performance Simulation for Design and Operation*, Editors J. Hensen, and R. Lamberts, Taylor & Francis, 2011
3. Reinhart, C.F, “Energy Efficient Solar Buildings. ”chapter in *The Future for Renewable Energies: Prospects and Directions*, James & James, London, pp. 79-114, 2002
4. J.A, Jakubiec, C.F, Reinhart, “The Use of Glare Metrics in the Design of Daylit Spaces: Recommendations for Practice”, *9th International Radiance Workshop* in Freiburg, Germany, September 2010
5. Reinhart, C.F, Lagios, K., Niemasz, J., “ABPS - Animated Building Performance Simulation”, in *A View On Harvard GSD2*, published by Tank, London, vol. 2, 2010.
6. Wasilowski ,H.A., Reinhart, C.F, *Simulating Gund Hall*, in *A View On Harvard GSD*, published by Tank, London, vol. 1 p. 645, 2009
7. LoVerso VRM, Reinhart , C.F, Bourgeois, D., Dubrous, F., Laouadi, A., Lopez, P., Stelescu .O, *Daylight 1-2-3: a text guide and a software as integrated tools for initial daylight/energy design*, CISBAT conference, Lausanne, Switzerland, September 2007
8. LoVerso VRM, Reinhart, C.F, *A 3-steps sequence for early daylight design*, CISBAT conference, Lausanne, Switzerland, September 2007
9. Tzempelikos, A., Laouadi, A., Reinhart, C.F, Athienitis, A., “Determining the Optical Properties of Shading Devices: Current Modeling Approaches and Future Directions”, *Solar Building Conference*, Montreal, Canada, August 2006
10. Reinhart, C.F, Wambsgan, M., “Zusammenspiel Kunstlicht/Tageslicht.“ chapter in *Bürogebäude mit Zukunft–Konzepte, Erfahrungen, Analysen*, TÜV Verlag, Colon,

- Germany, pp. 118-130, 2005 (The book won the 2005 Innovation Price of the German Printing Industry.)
11. Veitch, J.A, Reinhart, C.F, "Researchers study effects of daylighting with translucent sandwich panels." *Construction & Innovation*, Fall 2005
 12. Newsham, G.R, Veitch, J.A, Reinhart, C.F, Sander, D.M, "Lighting Design for Open-Plan Offices", *Construction Technology Update*, (62), pp. 4, October 01, 2004
 13. Reinhart, C.F, "Daylighting Prediction Tool Online", *Architecture Weeks Notes* No.193, www.ArchitectureWeek.com/2004/0519/tools_1-1.html
 14. Reinhart, C.F, Fitz, A., "Key findings from a survey on the use of daylight simulation programs", *International Daylighting Symposium (IEATask31)*, pp. 1-13, Tokyo, Japan, March 25th 2004
 15. Reinhart, C.F, "Lightswitch Wizard provides reliable daylight simulations for design investigation." *Construction & Innovation*, Spring 2003
 16. Reinhart, C.F, Bourgeois, D., Dubrous, F., "Lightswitch: A Model for Manual Control of Lighting and Blinds." *CISBAT conference*, 1 pp. 253-258, Lausanne, Switzerland, October 8th 2003
 17. Reinhart, C.F, Laouadi, A., Galasiu, A., "Recent daylighting activities at the Institute for Research in Construction." *Construction & Innovation*, 8 (1) pp.4, March 2003.
 18. Reinhart, C.F, "Towards realistic daylighting energy savings in office buildings." *Construction & Innovation*, Spring 2002
 19. Reinhart, C.F, Wienold, J., "Monitoring user behavior: monitoring and analysis of manual control strategies for lighting and blinds." *International Daylighting*, pp.1-3, 2001
 20. Reinhart, C.F, "Monitoring and analysis of the manual control strategies for artificial lighting and venetian blinds of 20 users—Experimental setup and preliminary results." *Proceedings 7th Symposium on Innovative Lighting Systems in Buildings*, Staffelstein, Germany, January 2001
 21. Walkenhorst, O., Reinhart, C.F, Timmer, J., "Jahres simulation en des Tageslichtangebotes in Gebäuden auf der Basis von stündlichen und minütlichen Strahlungsdaten." *Proceedings 7th Symposium on Innovative Lighting Systems in Buildings*, Germany, January 2001
 22. Voss, K., Reinhart, C.F, Löhnert, G., Wagner, A., "Energie effizien zund Solar energie nutzung im Nicht wohnungsbau – Erfahrung genund Ergebnisse aus Demonstrations projekten.", *Proceedings German Solar Energy Society Sonnenforum*, Freiburg, Germany, July 2000
 23. Voss, K., Reinhart, C.F, Löhnert, G., Wagner, A., "Towards Lean Buildings – Examples and Experience from a German Demonstration Program for Energy Efficiency and Solar Energy use in Commercial Buildings." *Proceedings EUROSUN*, June 2000
 24. Reinhart, C.F, Herkel, S., "RADIANCE – Jahres simulation endes Tageslichtangebotes in Gebäuden—Ein Raytracerviele Ergebnisse." *Proceedings 6th Symposium on Innovative Lighting Systems in Buildings*, pp. 189-194, Staffelstein, Germany, January 2000
 25. Voss, K., Reinhart, C.F, "10 Projekte/10 Konzepte – Tageslicht und Beleuchtungs konzepte aus der Praxis." *Proceedings 6th Symposium on Innovative Lighting Systems in Buildings*, pp.279-283, Staffelstein, Germany, January 2000
 26. Voss, K., Reinhart, C.F, Altmann, K., Apian-Bennwitz, P., Herkel, S., Wienold, J., "Neubau des Fraunhofer Institutes für Solare Energie systeme—Ein Demonstrations projekt im Rahmen der IEA Task 21, Daylight in Buildings." *Proceedings: Daylighting in Buildings*, Berlin, Germany, July 1999

27. Reinhart, C.F, Altmann, K, Apian-Bennewitz, P., Herkel, S., Wienold, J., Voss, K.,
“Planung eines Büroneubaus–Tageslicht simulationals Entscheidung shilfeinder
Entwurfsphase.” Proceedings 5th Symposium on Innovative Lighting Systems in
Buildings pp. 193–197, Staffelstein, Germany, January 1999
28. Wienold, J., Beckinger, K., Apian-Bennewitz, P., Reetz, C, Reinhart C.F, “Stationary
Virtual Reality (SVR) – a new method for predicting user acceptance o f daylighting
systems.” CIE Symposium, Ottawa, Canada, pp. 178–182, May 1998



Christoph Reinhart, Tuesday, May 17, 2022