

CHRIS FLINT CHATTO

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PROFESSIONAL PRACTICE

PRINCIPAL, INTEGRATED DESIGNER AND SUSTAINABILITY SPECIALIST

ZGF ARCHITECTS

MAY 2007 - CURRENT

Lead sustainable design for numerous projects, incorporating climate, program, energy and daylight analysis appropriate through all phases of designs. Initiated and manage a firmwide effort to benchmark all projects in design and collect actual energy verification. Represented firm at industry conferences and articles in industry and research journals. Managed ZGF Project Performance Team weekly staff meetings and related issues, for a group representing over 50 staff people in six offices.

JOB CAPTAIN

WEBER + THOMPSON ARCHITECTS

SEP 2006 - MAY 2007

Responsible for design development and construction documents for an approximately 200,000 SF mixed-use concrete and wood-frame retirement community in Seattle.

RESEARCH FACULTY

ENERGY STUDIES IN BUILDINGS LABORATORY (ESBL)

NOV 2002 - APR 2006

Provided design recommendations and wrote reports for over 1,300,000 SF of buildings regarding architectural design, climate response and energy. Research included daylighting (model analysis, shading, glazing specification), natural ventilation, passive heating, outdoor microclimates, program analysis.

EXECUTIVE DIRECTOR

COALITION FOR SUSTAINABLE TRANSPORTATION (COAST)

JULY 2001 - MAY 2002

Founding director for local organization that advocates for transit and other more sustainable transportation alternatives. Incorporated organization, developed board and membership, successfully organized, advocated, and litigated for intercommunity public transportation in Santa Barbara County.

PROGRAM DIRECTOR

CITIZENS PLANNING ASSOCIATION (CPA).

JULY 1999 - JUNE 2001

Staff liaison and spokesperson for program committees, on issues ranging from architectural compatibility of individual projects to long-term comprehensive planning in Santa Barbara County. Researched issues, organized public events, and testified at public hearings.

WEB DESIGNER AND INTERNET ACTIVIST

THE STATE PUBLIC INTEREST RESEARCH GROUPS (PIRGs)

NOV 1996 - DECEMBER 1998

Developed and maintained web sites and activist email network for this national citizens organization, its state affiliates, and related organizations [<http://www/pirg.org/>].

RESEARCH ANALYST

CALIFORNIA CAMPAIGN FINANCE REFORM INITIATIVE (PROP. 212).

JULY 1996 - NOVEMBER 1996

COMMUNITY ORGANIZER

S.B. COUNTY COASTAL PROTECTION INITIATIVE (PROPOSTION A, 1996).

AUGUST 1996 - MAY 1996

TEACHING & ACADEMIC POSITIONS

Technical Advisor, Academy of Art Univesity School of Architecture & Allied Arts, sustainable design lectures and studio project critiques, Fall 2021, Spring 2022, Fall 2022, Fall 2023.

Instructor, School of Architecture & Allied Arts, University of Oregon (Portland Program), "The Design and Technology of Net Zero Energy Buildings", seminar (2 credits) and optional design studio supplement (additional 2 credits), Winter 2017

Adjunct Assistant Professor, School of Architecture, Portland State University, "Not Missing, Not Middling: New Paradigms for Transitional Scale Housing", Architecture Design Studio 5, Winter 2016

Adjunct Assistant Professor, School of Architecture, Portland State University, "Sustainable Mixed Use Housing for the Division Neighborhood Corridor", Architecture Design Studio 5, Winter 2015

Affiliate Assistant Professor, Department of Architecture, University of Washington, 2009-2022, "Climate Analysis for More Sustainable Architecture", Fall 2009, 2010, 2011

Faculty Researcher and Lecturer, School of Architecture and Allied Arts, University of Oregon, "Studio Plus", a sustainable design supplement for studio design projects, Spring 2005, Fall 2005, Winter 2006

EDUCATION

M. ARCH, UNIVERSITY OF OREGON 2005

Emphasis in ecological design, energy and architecture. Finance Director and Publications Director for the Ecological Design Center and HOPES Conference.

B.A., B.S., UNIVERSITY OF PENNSYLVANIA 1992

Dual degrees in English and Economics from Penn and the Wharton School of Business. Benjamin Franklin Scholar, Joseph Wharton Scholar, Phi Beta Kappa, summa cum laude.

PROFESSIONAL ACCREDITATIONS

- Licensed architect, State of Oregon
- AIA
- LEED AP BD+C
- ILFI Living Future Ambassador

SELECTED PROJECTS

Akridge Building
Allenby Office Building, State of California
BaiXiang Mixed Use Development Study
Bay Area Hospital Expansion
BioMed Realty Trust 500 Fairview Phase 2
Boeing North Towers Design
CGL-Wuhan Mixed Use Project
ChangHong- ChengDu Research Ctr
Children's Hospital of Saskatchewan BS
The Children's Hospital East Wing Addition
Clif Bar Headquarters
Corp. office (conf.), Mountain View, CA
Corp. Wellness Bldg. (conf.), Mountain View, CA
Department of Homeland Security Headquarters
Everett Clinic
The Evergreen State College Lecture Bldg
Exempla St Joseph Hospital
Fairbanks Memorial Hospital Surgery
Fred Hutchinson Cancer Research Building
Fresno Athletic Sports Medicine Facility
GCCD Tiandi Plaza Urban Complex Yantai
Google Moffett Park Thermal Plant
Green City Best Living Building
GSA DHS West Campus
GSA Federal Center South Complex Phase II
ISU ABE/Bio Renewables
JBG L'Enfant Office Building - Fees
King County Offices Goat Hill
Legacy Mount Hood ED Expansion
Li Ka-Shing Biomed&Health Sciences
The Mark, Seattle
Max Planck Research Bldg
Microsoft Building 83 Core and Shell
Multnomah County Health Department HQ
Nike Office and Fitness Center, Beaverton, OR
Nintendo Site/Buildings
North Lot Mixed Use Projects
PAE Living Building
Pearl Izumi HQ
PDX Next Terminal Renovation, Port of Portland
Princeton University Healthier and Low Embodied Carbon Materials
Princeton University TIGER Central Utility Plant
Princeton University TIGER CUB
Providence Everett New Tower
Rocky Mountain Institute Innovation Center
S Waterfront Climate Positive Roadmap
Sacramento Valley Station
Santa Clara University STEM Facility
Saskatoon Children's Hospital
Seattle Children's Hosp MIMP & Phase 1 Bedtower
Sound Transit, Green Design & Material
St. Anthony Hospital- Pendleton
Stanford Central Energy Plant
Stanford University, Redwood City Campus
State of Washington Pro-Arts General Office
Surrey Center Mixed Use Tower
U of MN Biomed Discovery Lab
U of MN Nanotechnology Lab
U of O Student Success Ctr - Concepts
UC Davis Aggie Square
UCSD Health Science Research Unit 2
UNCH Hillsborough
University of Colorado, Anschutz Health Sciences Building
UMass Chan School New Education Research Building
Urban Visions, Stadium East
US Dept of State Asuncion Paraguay
US Dept of State Bangkok Thailand Rajdamri
US Dept of State Chengdu China Staff Housing
US Dept of State Colombo
US Dept of State Monterrey Mexico
US Dept of State Manila
US Dept of State Mongolia
US Dept of State NEC Paramaribo Suriname - Labor
US Dept of State Vientiane Laos
USACE BACH
USACE Public Health Command Lab-Aberdeen
USAG-Walker Troop Medical Clinic
UT, Arlington Engineering Research Building
UW Molecular Engineering Building
VA Loma Linda Clinic
Washington State Department of Agriculture Labor & Industries
WenJiang South Industrial District Plan
Xiang An Central Business District

TECHNICAL SKILLS

Computer media: Sketchup, AutoCAD, Rhino, Grasshopper, Revit, Illustrator, Photoshop, InDesign, Excel.

Hand media: drafting, pen & ink, water colors, colored pencils

Performance analysis: LCA (industry and proprietary tools), Climate Studio, DIVA, eQuest and IES, in addition to many individual tools developed for the purpose of climate, energy and LCA analysis

PUBLICATIONS

- Construction Specifier, January 2022, "Concrete carbon emissions: Real challenges, real opportunities", Co-Author.
- ZGF Concrete LCA tool, October 2019
- Seattle Daily Journal of Commerce, "More Buildings Set Their Sights on Net Zero," September 2018
- *Transforming Architecture: A Festschrift in Honor of Professor G.Z. "Charlie" Brown*, July 2017, "Climate + Program + Design + Systems: Integrated Design (Four Case Studies)", Co-Author
- ASHRAE High Performance Buildings, Fall 2014, "Shaped to Perform: Federal Center South Building 1202," Co-Author
- AIA Health Summit, April 2014, "Biophilic Design: Strategies to Generate Wellness and Productivity", Co-Author.
<http://www.aia.org/aiaucmp/groups/aia/documents/pdf/aia104696.pdf>
- Workspace Design Magazine, July 2012, "Behind the Curtain: U.S. Army Corps of Engineers HQ,"
- ASHRAE Conference, January 2011, "Integrated Design-Build Delivery Team Achieves Aggressive Building Energy Performance Goals", Co-Author
- American Laboratory, July 2010, "Implementing Natural Ventilation in the Offices of a Research Laboratory Building"
- International Institute for Sustainable Laboratories (I2SL), Electronic Library, December 2009, "Implementing Natural Ventilation in the Offices of a Research Laboratory Building"
- Laboratory Design Newsletter, December 2009, "Implementing Natural Ventilation in the Offices of a Research Laboratory Building"
- Urban Land Institute, fall 2009, "Retrofitting Office Buildings to be Green and Energy-Efficient", peer reviewer and contributing author
- Environmental Design + Construction, May 2009, "Sensible Strategies: Joseph Vance Building", Co-Author
- Sustainable Industries, November 2007, "Designing the Next Sustainable Buildings"
- American Solar Energy Society, 2006, "The Synergistic Benefits of Integrated Design: A Classroom Prototype for the Pacific Northwest", Co-Author
- Connector, Spring 2006, "The Economy of Structure and the Structure of Economy", Co-Author
- American Solar Energy Society, 2006, "A Comparison of Simulations, Physical Models, and a Full-scale Prototype in Predicting Daylighting Performance of a Complex Space", Co-Author

PRESENTATIONS (selected)

- ACSA + AIA Intersections, October 2023, "Material Economies", conference co-chair
- Portland Sustainable Building Week, October 2023, Fortis Construction's Low Carbon Concrete Round Table, "Seattle Storm Concrete Case Study"
- BuildingGreen webinar, July 2023, "Getting Low-Carbon Concrete into Your Next Project: A Virtual Roundtable"
- AIA Central Valley Net Zero Day, March 2023, Clifford B. Allenby presentation and tour
- I2SL, October 2022, "Comparing Approaches for Ultra-Low Carbon Research Labs in Cold Climates"
- CLF Washington DC, June 2021 Reducing Embodied Carbon in Design Pt 2 Process and Strategy - ,
- Greenbuild, November 2020, "The Carbon Diet: Approaches for Reducing Embodied Carbon"
- ACSA + AIA Intersections, September 2020, "Carbon + Design: New Baselines", moderator
- Carbon Positive, March 2020, "Not Just Less Bad: Design at the Nexus of Operational and Embodied Carbon"
- Green Technology's Sustainable Facilities Forum, May 2019, "Transforming the Delivery of Zero Net Energy Buildings for the State of California"
- Biophilic Design Cascadia Summer Series, Portland Zoo, August 2018, "Biophilia and Performance-Optimized Design"
- BD+C Accelerate Live!, May 2018, "The Next Frontier of Post-Occupancy Evaluations"
- Greenbuild, November 2017, "RMI's Innovation Center: First Year Operations Lessons Learned"
- Greenbuild, October 2016, "RMI's Progressive Office Design: Efficient, Sustainable, Adaptable"
- AIA+2030 Online Series, May 2015 (filmed), "Accentuate the Positive: Climate Responsive Design", co-presenter
- Practice Greenhealth webinar, April 2015, "Biophilic Design in Healthcare: Opportunities, Challenges, and Pathways to Success", co-presenter
- Oregon Design Conference, May 2014, "Proof in the Performance: Performance oriented contracting is the wave of the future for the AEC industry", co-presenter
- Center for the Built Environment Industry Advisory Board Conference, April 2014, "Designing for Occupant Engagement, Without Occupant Engagement", co-panelist
- Innovación en infraestructura sostenible, February 2014, "Towards the Net Zero Energy Laboratory", presenter
- Living Future Conference, May 2013, "Biophilia Across Project Types", co-presenter and moderator
- AIA Portland, December 2012, "Daylight in Context for High Performance Buildings", co-presenter
- AIA 2012 Western Mountain, Northwest & Pacific Region Conference, October 2012, "Interdisciplinary Collaboration for a New Economy: How Integrated Design Strategies Can Improve Performance and Increase Value," Co-Presenter
- Portland AIA, April 2012, AIA+2030 "Climate Responsive Design", presenter
- ASHRAE High Performance Buildings Conference, March 2012, "GSA Case Study Part 1: Form Shaped by Performance – optimizing orientation and façade to enable energy efficient systems", presenter
- Seattle AIA, 2012, AIA+2030 "Climate Responsive Design", presenter
- AIA TAP, Build Boston Conference, 2011, "Aggressive Performance Goals Met through IPD", co-presenter
- Seattle AIA, 2011, AIA+2030 "Climate Responsive Design", presenter
- Portland AIA, 2011, AIA+2030 series, moderator
- Living Future, 2011, "A Living Future Begins with Sustainability: Three Seattle Case Studies", moderator
- Greenbuild, 2010, "Sustainability Begins with Preservation", moderator

REFERENCES

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