



ALLAN DALY, P.E.

Allan Daly is a registered mechanical engineer with a B.S. in Civil Engineering from Stanford University and an M.S. in Civil Engineering and a pending M.S. in Architecture from the University of California, Berkeley. He specializes in energy efficient and environmentally responsible HVAC system designs that maximize occupant health and comfort. He is very experienced in the use of computer programs to simulate buildings and systems to predict building energy consumption, thermal performance, natural ventilation, and occupant comfort.

At Taylor Engineering, Mr. Daly employs his broad experience from government, research, academia, teaching, and consulting engineering to design and analyze innovative and sustainable mechanical systems. Representative “green” building projects include:

Palm Inc. Campus, San Jose, California

When fully developed, this campus will include over 1.5 million square feet of office space conditioned with a highly efficient, innovative “double effect” evaporative pre-cooling system, underfloor air-distribution, and operable windows.

S.T. Dana Building, University of Michigan, Ann Arbor, Michigan

This historic renovation of the S.T. Dana building, home for the University of Michigan’s School of Natural Resources and Environment, incorporates natural ventilation through operable windows in concert with mechanical conditioning among its many green features.

Jasper Ridge Biological Preserve Field Station, Stanford University, Stanford, CA

This biological field station includes natural ventilation, solar hot-water-heating, and a photovoltaic on-site electricity generating system.

Sunshine Building, Gig Harbor, Washington

The Sunshine Building was designed for “dual mode” operation, allowing users to select either mechanical underfloor air-conditioning or natural ventilation. Natural ventilation systems were evaluated using a computer simulation of the building.

Teledesic Headquarters, Bellevue, Washington

This project, which was a warehouse-to-office space retrofit, uses underfloor air distribution, one of the first such systems in the Seattle area.



Taylor Engineering^{LLC}

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Education

- 1995 – 1998 University of California at Berkeley
M.S., Architecture. Thesis pending. Anticipated 8/2005.
M.S., Civil Engineering. Emphasis in Structural Engineering
- 1987 – 1992 Stanford University
B.S., Civil Engineering
B.A., Drama with Honors.

Registration

- 2000 – present State of California: Mechanical Engineer M31302

Experience

- 2000 – present Taylor Engineering, Alameda, CA
Principal. Projects include Palm, Inc. Corporate Campus, San Jose, 1.6 Million ft² of under-floor HVAC design in a landmark green building.
- 1998 – 1999 Ove Arup and Partners California, San Francisco, CA
Mechanical Engineer. Projects included green building projects S.T. Dana Building, University of Michigan; Jasper Ridge Biological Preserve, Stanford University; Sunshine Building, Sunshine Foundation, Gig Harbor, WA; Teledesic Headquarters, Bellevue, WA
- 1996 – 1998 Center for Environmental Design Research, University of California, Berkeley, CA
Graduate Student Researcher, Vital Signs Curriculum Materials Development Project. Training material and web site developer for project to make building physical-performance analysis an integral part of architecture education.
- 1996 – 1997 Center for Environmental Design Research, University of California, Berkeley, CA
Graduate Student Instructor, Architecture Department. Prepared course materials and taught a discussion section for Architecture 140: *Building Energy and Environmental Management*.
- 1992 – 1995 SocioTechnical Research Applications, Inc., Washington, DC.
Associate, Energy and Environment Division. Researched environmental and energy policy and developed databases for a small government consulting firm. Projects included supporting the U.S. EPA's *Building Air Quality Alliance*, research for *National Environmental Policy Act* (NEPA) implementation in the Department of Energy
- 1992 Stanford University, Stanford, California.
Teaching Assistant, Building Energy Laboratory. Only undergraduate among eight teaching assistants.

Professional Associations

American Society of Heating, Refrigeration, and Air-conditioning Engineers
Member, 1996 to present

National Society of Professional Engineers
Member, April, 2000.

Publications

Bauman, F., Daly, A., Underfloor Air Distribution (UFAD) Design Guide. ASHRAE. 2003. ISBN 1-931862-21-4.

Burke, W., Benton, C., Daly, A., *Monitoring Building Performance*, Chapter 21 in *Time Saver Standards for Architectural Design Data*, 7th Edition, Watson, D., editor, McGraw-Hill, 1997.

Presentations

Building "Green" at Colleges and Universities, to be presented at the Society of College and University Planners 36th Annual Conference (SCUP-36), Boston, MA, July 2001. Co-presenters will be Carl Elefante, AIA, (Quinn|Evans Architects, Washington DC) and Doug Koepsell, Project Architect (University of Michigan, Ann Arbor, MI).

What Does It Take To Score All 17 LEED Energy Points?—How to Effectively Integrate Energy Modeling into Architectural Design, EnvironDesign5 conference, April 2001, Atlanta, Georgia.

The Greening of Dana: A Classroom and Laboratory for Sustainable Design for the Society of College and University Planners 35th Annual Conference. Presented with Rusell Perry (William McDonough + Partners), Carl Elefante (Quinn Evans | Architects), and Marie Logan (School of Natural Resources and Environment, University of Michigan).

Teaching

Pacific Gas and Electric Energy Center, *Underfloor Design Workshop*
California College of Arts and Crafts, guest lecturer
Stanford University, guest lecturer, graduate student teacher
University of California, Berkeley, guest lecturer, graduate student teacher
University of Michigan, guest lecturer

Honors and Awards

ASHRAE, Golden Gate Chapter, Student Travel Grant for Outstanding Student Involvement in HVAC & R, 1996
Douglas Russell Award for Excellence in Theatrical Design, Stanford University, 1991
National Merit Scholar Finalist, 1987
Gannett Foundation Merit Scholarship Recipient, 1987

Representative Design Projects

UC Santa Cruz Humanities & Social Sciences Building, Santa Cruz, California
UC Merced Classroom/Office Building, Merced, California
Palm Inc. Campus, San Jose, California
S.T. Dana Building, University of Michigan, Ann Arbor, Michigan
Jasper Ridge Biological Preserve Field Station, Stanford University, Stanford, California
Sunshine Building, Sunshine Foundation, Gig Harbor, Washington
Wurster Hall Seismic Retrofit, University of California, Berkeley, California
Teledesic Headquarters, Bellevue, Washington