

## VITA ALFREDO FERNÁNDEZ GONZÁLEZ

Professor, UNLV School of Architecture  
Director, Natural Energies Advanced Technologies Laboratory  
University of Nevada, Las Vegas  
4505 Maryland Parkway, Box 454018  
Las Vegas, NV 89154-4018

Phone: (702) 895-0939  
Fax: (702) 895-1119  
E-mail: alfredo.fernandez@unlv.edu

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### Education

*Expected: Spring 2019*

*Doctorate of Philosophy - Architecture.*  
Dissertation: A Design Methodology for Building-integrated Sustainable Water Management.  
National Autonomous University of Mexico (UNAM). Faculty of Architecture. Mexico City, Mexico.

1999 *Master of Architecture.*  
University of Oregon. Department of Architecture. Eugene, OR.

1996 *Specialist in Helio-Architecture.*  
National Autonomous University of Mexico (UNAM). Faculty of Architecture. Mexico City, Mexico.

1993 *Bachelor of Architecture.*  
Universidad La Salle (ULSA). School of Architecture, Design & Communication. Mexico City, Mexico.

### Professional Registration

1995 – Present *Registered Architect.* Mexico City, Mexico. #2077896.

### Professional Experience

07/1995 – Present Firm: Alfredo Fernández-González Arquitecto, Mexico City, Mexico.  
Role: *Principal*

02/1992 – 06/1995 Firm: Terra Totum Arquitectos, Mexico City, Mexico.  
Role: *Designer (Fulltime)*

10/1991 – 01/1992 Firm: Ginarc S. A., Mexico City, Mexico.  
Role: *Designer / Draftsman (Part-time)*

12/1990 – 09/1991 Firm: Gares S. A. Construcciones, Mexico City, Mexico.  
Role: *Designer / Draftsman (Part-time)*

06/1990 – 08/1990 Firm: Arcosanti, Meyer, Arizona.  
Role: *Designer / Draftsman (Fulltime)*

### U.S. Teaching Experience

07/2013 – Present *Professor.* University of Nevada, Las Vegas.

07/2006 – 06/2013 *Associate Professor.* University of Nevada, Las Vegas.

01/2004 – 06/2006 *Assistant Professor.* University of Nevada, Las Vegas.

07/2000 – 12/2003 *Assistant Professor.* Ball State University.

09/1999 – 06/2000 *Full Time Lecturer.* California Polytechnic State University, San Luis Obispo.

09/1997 – 08/1999 *Graduate Teaching Fellow.* University of Oregon.

### International Teaching Experience

05/2016 – Present *Honorary Visiting Professor.* Universidad Nacional de La Plata (UNLP), La Plata, Argentina.

05/2001 – 07/2001 *Visiting Professor.* King Mongkut's University of Technology, Thonburi, Thailand.

09/1996 – 06/1997 *Adjunct Professor.* Universidad Nacional Autónoma de México (UNAM), Mexico City, Mexico.

### **Academic Leadership**

- 01/2016 – 07/2018 *Interim Director of the School of Architecture.*  
University of Nevada, Las Vegas.
- 08/2013 – 07/2014 *Inaugural Fellow of the Leadership Academy (Mentor: President Neal Smatresk).*  
University of Nevada, Las Vegas.
- 08/2010 – 07/2013 *Architecture Undergraduate Program Coordinator.*  
School of Architecture. University of Nevada, Las Vegas.
- 05/2005 – 07/2009 *Architecture Graduate Program Coordinator.*  
School of Architecture. University of Nevada, Las Vegas.
- 01/2004 – Present *Director, Natural Energies Advanced Technologies (NEAT) Laboratory.*  
University of Nevada, Las Vegas.

### **Membership in Learned & Professional Societies**

- 1998 – Present Society of Building Science Educators (SBSE) – *Lifetime Member (current President).*
- 1998 – Present American Solar Energy Society (ASES) – *Lifetime Member.*
- 1999 – Present American Collegiate Schools of Architecture (ACSA) – *Member.*
- 2007 – 2012 Green Roofs for Healthy Cities (GRHC) – *Water Conservation Research Committee, Member.*

### **Awards & Honors**

- 04/2015 *2014-2015 Alex G. and Faye Spanos Distinguished Teacher Award.*  
University of Nevada, Las Vegas.
- 12/2012 *Certificate of Recognition for Outstanding Service from Governor Brian Sandoval.*  
Office of the Governor, State of Nevada.
- 11/2012 *2012 Carnegie Foundation for the Advancement of Teaching Nevada Professor of the Year.*  
The Carnegie Foundation for the Advancement of Teaching  
& Council for Advancement and Support of Education.
- 04/2012 *2012 UNLV Foundation Distinguished Teaching Award.*  
University of Nevada, Las Vegas.
- 11/2011 *UNLV's Nominee to the 2012 Nevada System of Higher Education (NSHE) Regents' Teaching Award.*  
UNLV's Executive Vice President & Provost Office.
- 04/2011 *2011 UNLV Alumni Association Outstanding Faculty Award.*  
UNLV Alumni Association.
- 04/2010 *Design Citation Award: Harold R. Hay Pavilion (with Daniel J. Overbey).*  
American Institute of Architects – Las Vegas Chapter
- 12/2008 *2008 Leadership in Research Award*  
U.S. Green Building Council – Nevada Chapter
- 04/2008 *Distinguished as One of Las Vegas Top 10 Green Giants.*  
American Institute of Architects – Las Vegas Chapter
- 04/2007 *2006-2007 Alex G. and Faye Spanos Distinguished Teacher Award.*  
University of Nevada, Las Vegas.
- 05/2006 *2005 College of Fine Arts Outstanding Teacher of the Year.*  
College of Fine Arts, University of Nevada, Las Vegas.
- 05/2006 *Jane & Robert Fielden Medal.*  
School of Architecture, University of Nevada, Las Vegas.
- 08/2005 *NOMAS Certificate of Recognition.*  
National Organization of Minority Architecture Students Chapter.
- 11/2003 *ARCC Best Research Paper Award of 2003.*  
Architectural Research Centers Consortium.

- 10/2003 *Nomination to the ACSA/AIAS New Faculty Teaching Award.*  
College of Architecture and Planning, Ball State University.
- 05/1999 *ARCC / King Student Medal for Excellence in Research.*  
Architectural Research Centers Consortium.
- 05/1999 *Friendship Foundation for International Students Award.*  
University of Oregon.
- 11/1998 *Alfonso Caso Medal (best graduate thesis of 1996).*  
National Autonomous University of Mexico.
- 09/1998 *Top 20 – Poster Award.*  
5<sup>th</sup> World Renewable Energy Conference, Florence, Italy.
- 03/1996 *Honorable Mention (Specialist in Helio-Architecture).*  
National Autonomous University of Mexico (UNAM).
- 11/1993 *Award to the Best Student-Researcher (I Jornadas de Investigación).*  
Universidad La Salle, Mexico City.
- 05/1990 *Universidad La Salle - University of Arizona Student Exchange Diploma.*  
Universidad La Salle - University of Arizona.

### **Fellowships & Scholarships**

- 08/2013 *Inaugural Fellow - Leadership Academy* (program designed to prepare next generation of leaders).  
University of Nevada, Las Vegas.
- 08/2003 *Agents of Change Fellowship* (to participate in educators' workshop in Oberlin, OH).  
University of Oregon and FIPSE.
- 06/2001 *International Programs Fellowship* (award to participate in academic exchange in Thailand).  
Ball State University International Faculty Development Fund.
- 05/1999 *Graduate Student Travel Fellowship* (to attend the SOLAR 1999 Conference in Portland, ME).  
University of Oregon Graduate School Research Award.
- 05/1999 *A&AA Student Travel Fund* (to attend the SOLAR 1999 Conference in Portland, ME).  
University of Oregon College of Architecture & Allied Arts.
- 05/1998 *A&AA Student Travel Fund* (to attend the 5<sup>th</sup> WREN Conference in Florence, Italy).  
University of Oregon College of Architecture & Allied Arts.
- 06/1997 – 08/1999 *DGAPA Scholarship* (award to pursue graduate studies at the University of Oregon).  
National Autonomous University of Mexico (UNAM).

### **Funded Research**

- 06/2014 – 09/2014 *Adaption of Architecture 2030 Palette Swatches to the Latin American Region*  
Architecture 2030 Inc.  
Funding Amount: \$3,000.00 U.S.D.  
Role: Principal Investigator
- 01/2012 – 09/2013 *Solar Decathlon 2013*  
U.S. Department of Energy.  
Funding Amount: \$100,000.00 U.S.D.  
Role: Investigator (Principal Investigator: Prof. Eric Weber)
- 06/2011 – 09/2011 *Development of Five Passive Cooling Patterns for Architecture 2030*  
Architecture 2030 Inc.  
Funding Amount: \$5,000.00 U.S.D.  
Role: Principal Investigator
- 05/2009 – 05/2011 *Baselining the Energy Consumption of the Single-family Residential Sector in Las Vegas*  
National Renewable Energy Laboratory (UNLV's Renewable Energy Center Phase II Proposal).  
Funding Amount: \$10,000.00 U.S.D.  
Role: Investigator (Principal Investigator: Dr. Robert Boehm)

05/2008 – 05/2010	<i>Evaluation of the Indoor Thermal Conditions Produced by Green Roofs in Desert Environments</i> Hydrotech Inc. (in-kind donation of plants, construction materials, and labor). Funding Amount: \$5,000.00 U.S.D. Role: Co-Principal Investigator (with Dr. Lee-Anne Milburn)
05/2006 – 08/2006	<i>Modeling the Performance of a Solar Heated Sunroom: Heat Gain, Storage and Loss</i> Keck Foundation (Undergraduate Computational Science Educational Consortium) Funding Amount: \$4,000.00 U.S.D. Role: Co-Principal Investigator (with Dr. John Petersen)
11/2004 – 12/2011	<i>Thermal Evaluation of Skytherm™ Southwest Roofponds</i> H.R. and E.J. Hay Charitable Trust Funding Amount: \$90,000.00 U.S.D. Role: Principal Investigator
11/2004 – 11/2005	<i>Side-by-side Comparison of Building Assemblies and Materials for Insulation</i> H.R. and E.J. Hay Charitable Trust Funding Amount: \$10,000.00 U.S.D. Role: Principal Investigator
09/2003 – 08/2004	<i>Effect of the Mean Radiant Temperature on Thermal Comfort in Passive Solar Buildings (2<sup>nd</sup> Phase)</i> H.R. and E.J. Hay Charitable Trust Funding Amount: \$114,792.00 U.S.D. Role: Principal Investigator
11/2001 – 09/2003	<i>Effect of the Mean Radiant Temperature on Thermal Comfort in Passive Solar Buildings (1<sup>st</sup> Phase)</i> Evelyn and Harold Hay Fund / SBSE Program at Cal Poly Funding Amount: \$25,000.00 U.S.D. Role: Principal Investigator
07/2001 – 06/2002	<i>Determination of optimum test-cell scale to investigate thermal comfort in passive buildings</i> Ball State University New Faculty Internal Grants Program Funding Amount: \$2,515.00 U.S.D. Role: Principal Investigator
08/1996 – 07/1997	<i>Sustainable Architecture Laboratory (LAS-CIE): Program and Curriculum Materials</i> National Autonomous University of Mexico (UNAM) Funding Amount: \$30,000.00 MX Pesos Role: Investigator (Principal Investigator: Dr. Francisco E. Ávila)

### **Selected External & Professional Service**

#### INTERNATIONAL EXPERT REVIEWER:

01/2014 Asia-Pacific Economic Cooperation Project: Low Carbon Model Town Development Index System (Project # EWG 21 2013A), *Technical Reviewer*.

#### SCIENTIFIC COMMITTEES:

Multiple Years American Solar Energy Society, *Passive Conference Chair (2014); Technical Reviewer (2005-2007)*.  
2008 – 2010 Green Roofs for Healthy Cities, *Integrated Building Water Management Committee*.

#### JOURNAL ARTICLE REVIEWER:

2005 – 2015 Solar Energy Journal, *Technical Reviewer*.  
2007 – 2009 ASCE Energy Engineering Journal, *Technical Reviewer*.  
2007 – 2009 Journal of Zhejiang University SCIENCE, *Technical Reviewer*.  
2008 The International Journal of Energy, *Technical Reviewer*.  
2007 Journal of Sustainable Tourism, *Technical Reviewer*.

#### EXTERNAL SERVICE:

2013 – Present ACSA Representative in NAAB Accreditation Visits, *Visiting Team Member*.  
2011 – 2012 AIA Las Vegas Chapter, *AIA+2030 Professional Series Steering Committee Member*.

## Publications

### BOOK CHAPTERS:

- 2017 Fernández-González, A. Water Use and Conservation. *Low Carbon Low Energy Architecture: Recent Advances & Future Directions*. Ed. Khaled Al-Sallal. Leiden, Netherlands: CRC Press / Balkema (Francis & Taylor Group).
- 2003 Fernández-González, A. Historia de los Índices de Confort Térmico. *Estudios de Arquitectura Bioclimática*. Ed. Manuel Rodríguez Viqueira. Mexico City, Mexico: Editorial Limusa, Pages 161-179.

### BOOK CONTRIBUTIONS:

- 2011 Bainbridge, David, Ken Haggard: with contributions from Rachel Aljilani, Alfredo Fernandez-Gonzalez, Pliny Fisk, Steve Herckeroth, Richard Levine, and Erin Scholl. *Passive Solar Architecture - Heating, Cooling, Ventilation, Daylighting, and More Using Natural Flows*. 1st ed. White River Junction: Chelsea Green Publishing Company, 2011. Print.

### ARTICLES IN REFERRED JOURNALS:

- 2009 Fernández-González, A. Turning Your Building into a Water-Saving 'Living Oasis' – An Innovative Approach to Integrated Building Water Management. *Living Architecture Monitor*, February-Winter Issue, 26-29.
- 2007 Fernández-González, A. Analysis of the Thermal Performance and Comfort Conditions Produced by Five Different Passive Solar Heating Strategies in the U.S. Midwest. *Solar Energy*, 81(5), 581-593.
- 2007 Naticchia, B., Fernández-González, A., and Carbonari, A. Bayesian Network Model for the Design of Roofpond Equipped Buildings. *Energy and Buildings*, 39(3), 258-272.
- 1997 Fernández-González, A., and Morillón, D. Ganancia Térmica en las Techumbres Más Utilizadas Para Vivienda Social. *Energía Racional*, 23, 25-29.

### ARTICLES IN REFERRED (FULL-ARTICLE) CONFERENCE PROCEEDINGS:

- 2014 Noseck, R. and Fernández-González, A. Assessment of Passive Solar Heating Retrofit Opportunities in Existing Residential Buildings in Las Vegas, Nevada. *Proceedings of the 43<sup>rd</sup> American Solar Energy Society Annual Conference* (six pages). Boulder, CO: American Solar Energy Society. July 6-10, San Francisco, CA.
- 2014 Noseck, R. and Fernández-González, A. Water-wall Prototype for Passive Solar Heating Retrofit Applications. *Proceedings of the 43<sup>rd</sup> American Solar Energy Society Annual Conference* (six pages). Boulder, CO: American Solar Energy Society. July 6-10, San Francisco, CA.
- 2014 Fernández-González, A. Characterization of Thermal Comfort in a Passively Cooled Building Located in a Hot-Arid Climate. *Proceedings of the 8<sup>th</sup> Windsor Conference: Counting the Cost of Comfort in a Changing World* (thirteen pages). Network for Comfort and Energy Use in Buildings. April 10-13, Windsor, UK.
- 2013 Hu, X., Fernández-González, A. and Su, L. Evaluation of Exterior Wall Assemblies Using the Analytic Hierarchy Process Method for Value Engineering. In Celalettin Özdemir, Erkan Kalıpcı, Serkan Sahinkaya, Muhammed Kamil Öden and Miray Öztürk (Eds.), *Proceedings of the International Conference on Environmental Science and Technology, ICOEST 2013* (ten pages). Nevsehir, Turkey: Nevsehir University. June 18-21, Urgup, Turkey.
- 2012 Fernández-González, A. and Costache, F.I. Cooling Performance of a Wet Roofpond System in Las Vegas, Nevada. In Cheryl Fellows and The Fellows Group (Ed.), *Proceedings of the 2012 World Renewable Energy Forum* (eight pages). Boulder, CO: American Solar Energy Society. May 13-17, Denver, CO.
- 2012 Fernández-González, A., Passe, U., Kruse, R., and Rügemer, J. Simplicity and Integration: Passive Solar Design and Passive House in Integrated Practice and Education. In Cheryl Fellows and The Fellows Group (Ed.), *Proceedings of the 2012 World Renewable Energy Forum* (eight pages). Boulder, CO: American Solar Energy Society. May 13-17, Denver, CO.

- 2012 Hossain, A. and Fernández-González, A. Development and Validation of a Thermal Network Model to Predict Indoor Operative Temperatures in Dry Roofpond Buildings. In Cheryl Fellows and The Fellows Group (Ed.), *Proceedings of the 2012 World Renewable Energy Forum* (eight pages). Boulder, CO: American Solar Energy Society. May 13-17, Denver, CO.
- 2010 Fernández-González, A. and Hossain, A. Cooling Performance and Energy Savings Produced by a Roofpond in the United States Southwest. In Campbell-Howe, R. (Ed.), *Proceedings of the 39th American Solar Energy Society Annual Conference* (eight pages). Boulder, CO: American Solar Energy Society. May 17-22, Phoenix, AZ.
- 2010 Fernández-González, A. and Kako, I. Empirically Derived Formulas to Predict Indoor Maximum, Average, and Minimum Temperatures in Roofpond Buildings Using Minimum Climatic Information. In Campbell-Howe, R. (Ed.), *Proceedings of the 39th American Solar Energy Society Annual Conference* (seven pages). Boulder, CO: American Solar Energy Society. May 17-22, Phoenix, AZ.
- 2010 Milburn, L., Fernández-González, A., Jones, T., Solano, F., and Martínez-Wong, E. Wasted Space: Assessing the Impacts and Survival of Green Roofs in the Mojave. In Carsjens, G. J. (Ed.), *Proceedings of the Landscape and Legacy: Landscape Architecture between Art and Science International Conference* (twelve pages). International Study Group on the Multiple Use of Lands (ISOMUL) and the Council of Educators in Landscape Architecture (CELA). May 12-14, Maastricht, Netherlands.
- 2009 Fernández-González, A. Living Oasis: An Innovative Approach to Integrated Building Water Management. In *Proceedings of the Greening Rooftops for Sustainable Communities Conference* (twelve pages). Toronto, Canada: Green Roofs for Healthy Cities. June 3-5, Atlanta, GA.
- 2009 Fernández-González, A. and Wilkins, A. Design Lessons Learned from the Lied Animal Shelter in Las Vegas, Nevada: A Post-Occupancy Evaluation of the Thermal and Luminous Environmental Conditions. In Campbell-Howe, R. (Ed.), *Proceedings of the 38th American Solar Energy Society Annual Conference* (seven pages). Boulder, CO: American Solar Energy Society. May 11-16, Buffalo, NY.
- 2009 Fernández-González, A. and Wilkins, A. The New UNLV Student Union: Design Lessons Learned from the Students, by the Students, for the Students. In Campbell-Howe, R. (Ed.), *Proceedings of the 38th American Solar Energy Society Annual Conference* (six pages). Boulder, CO: American Solar Energy Society. May 11-16, Buffalo, NY.
- 2008 Fernández-González, A. and Overbey, D. Heating and Cooling Performance of a Roofpond-Direct Gain Test Cell. In Campbell-Howe, R. (Ed.), *Proceedings of the 37th American Solar Energy Society Annual Conference* (six pages). Boulder, CO: American Solar Energy Society. May 3-8, San Diego, CA.
- 2008 Fernández-González, A. Demand Side Management Programs and Renewable Energy Generation to Avert the Installation of New Coal-Fired Power Plants. In Campbell-Howe, R. (Ed.), *Proceedings of the 37th American Solar Energy Society Annual Conference* (six pages). Boulder, CO: American Solar Energy Society. May 3-8, San Diego, CA.
- 2007 Givoni, B. and Fernández-González, A. Measured and Computed Indoor Maximum, Average and Minimum Temperatures of Passive Solar Heating Systems. In Dube, S.K., Muneer, T., and Tiwari, G.N. (Ed.), *Proceedings of 3<sup>rd</sup> International Conference on Solar Radiation and Day Lighting (SOLARIS 2007)*, Vol. 1: 432-448. February 7-9, New Delhi, India.
- 2007 Fernández-González, A. Measured Indoor Temperatures in Passive Solar Heating Systems in the United States. In Dube, S.K., Muneer, T., and Tiwari, G.N. (Ed.), *Proceedings of 3<sup>rd</sup> International Conference on Solar Radiation and Day Lighting (SOLARIS 2007)*, Vol. 1: 464-476. February 7-9, New Delhi, India.
- 2006 Fernández-González, A. and Overbey, D. Experimental Performance of the Roofpond System in Las Vegas, Nevada. In Campbell-Howe, R. (Ed.), *Proceedings of the 35th American Solar Energy Society Annual Conference* (six pages). Boulder, CO: American Solar Energy Society. July 8-13, Denver, CO.
- 2006 Fernández-González, A. and Overbey, D. Maximizing the Triple Bottom Line: The Potential to Green a High-End Suburban Community in Las Vegas, Nevada. In Campbell-Howe, R. (Ed.), *Proceedings of the 35th American Solar Energy Society Annual Conference* (six pages). Boulder, CO: American Solar Energy Society. July 8-13, Denver, CO.

- 2005 Fernández-González, A. and Ugursal, A. Economic Analysis of the Cost Effectiveness of Passive Solar Heating Strategies in the Midwest of the United States. In Campbell-Howe, R. (Ed.), *Proceedings of the 2005 Solar World Congress / 34th American Solar Energy Society Annual Conference* (Paper No. 1549, six pages). Boulder, CO: American Solar Energy Society. August 6-12, Orlando, FL.
- 2005 Fernández-González, A. and Overbey, D. Proposed Fine Arts Pavilion at the University of Nevada, Las Vegas: The Beauty of Green Design. . In Campbell-Howe, R. (Ed.), *Proceedings of the 2005 Solar World Congress / 34th American Solar Energy Society Annual Conference* (Paper No. 1552, six pages). Boulder, CO: American Solar Energy Society. August 6-12, Orlando, FL.
- 2004 Lawrence A. and Fernández-González, A. Preferred Design Features of Southwest United States Housing Products. In Ural, O., Frattari, A., and Albatici, R. (Ed.), *Proceedings of XXXII IAHS World Congress on Housing*. Gainsville, FL: International Association for Housing Science. September 21-25, Trento, Italy.
- 2004 Fernández-González, A. Programa de Cómputo para la Simulación Térmica de Sistemas de Techo con Estanque para Latitudes Altas (Skytherm North Roofponds). In Vázquez, M. and Seara, J. F. (Ed.), *Proceedings of the XII Congreso Ibérico and VII Congreso Íbero Americano de EnergíaSolar* (pp. 1349-1354). Vigo, Spain: Universidad de Vigo. September 14-18, Vigo, Spain.
- 2004 Fernández-González, A. Evaluación Experimental del Comportamiento Térmico de Cinco Estrategias Diferentes de Calentamiento Pasivo en Indiana, Estados Unidos. In Vázquez, M. and Seara, J. F. (Ed.), *Proceedings of the XII Congreso Ibérico and VII Congreso Íbero Americano de EnergíaSolar* (pp. 79-84). Vigo, Spain: Universidad de Vigo. September 14-18, Vigo, Spain.
- 2004 Fernández-González, A. Comfort and Thermal Performance of Passive Solar Test Rooms in Muncie, Indiana. In Campbell-Howe, R. (Ed.), *Proceedings of the 33<sup>rd</sup> American Solar Energy Society National Conference* (pp. 587-592). Boulder, CO: American Solar Energy Society. July 9-14, Portland, OR.
- 2004 Fernández-González, A. RP\_Performance: A Design Tool to Simulate the Thermal Performance of Skytherm North Roofpond Systems. In Campbell-Howe, R. (Ed.), *Proceedings of the 33<sup>rd</sup> American Solar Energy Society National Conference* (pp. 611-616). Boulder, CO: American Solar Energy Society. July 9-14, Portland, OR.
- 2003 Fernández-González, A. Revisiting Passive Solar Heating: A Direct Comparison of Five Different Passive Solar Test-rooms in Muncie, Indiana. In Campbell-Howe, R. (Ed.), *Proceedings of the 32<sup>nd</sup> American Solar Energy Society National Conference* (pp. 587-592). Boulder, CO: American Solar Energy Society. June 21-26, Austin, TX.
- 2003 Fernández-González, A. Defining the Optimum Dimensions of Test-cells to Research Thermal Comfort in Passive Solar Buildings: A Direct Comparison Study. In Campbell-Howe, R. (Ed.), *Proceedings of the 32<sup>nd</sup> American Solar Energy Society National Conference* (pp. 581-586). Boulder, CO: American Solar Energy Society. June 21-26, Austin, TX.
- 2003 Fernández-González, A. Characterizing Thermal Comfort in Five Different Passive solar Heating Strategies. In *Proceedings of the Architectural Research Centers Consortium 2003 Conference* (pp. 63-64). April 10-12, Tempe, AZ.
- 2003 Fernández-González, A. How Small is Too Small? Investigating the Use of Scaled Prototypes to Research Thermal Comfort in Buildings. In *Proceedings of the Architectural Research Centers Consortium 2003 Conference* (pp. 79-80). April 10-12, Tempe, AZ.
- 2002 Fernández González, A. Propuesta de un Modelo de Adaptación para Predecir la Temperatura de Neutralidad en Edificios de Oficinas Ventilados de Manera Natural con Base en los Resultados del Proyecto de Investigación ASHRAE RP-884. *XXVI Annual Solar Energy Reunion* (pp. 155-160), November 11-15, Chetumal, Quintana Roo, Mexico.
- 2002 Fernández González, A. Utilización de Muros Trombe y Chimeneas Solares para Limitar la Ganancia Solar y Ventilar de Manera Natural Edificaciones Localizadas en Climas Cálido-húmedos. *XXVI Annual Solar Energy Reunion* (pp. 713-718), November 11-15, Chetumal, Quintana Roo, Mexico.

- 2002 Fernández González, A. Harvesting the Sun: A Method to Optimize the Design of Energy Producing Building Envelopes. *Open Building: Balancing Resources and Quality in Housing* (pp. 68-82), October 3-6, Mexico City, Mexico.
- 2002 Fernández-González, A. Regionalism and Comfort... A Proposal for an Adaptive Model of Thermal Comfort for Thailand. In Campbell-Howe, R. (Ed.), *Proceedings of the 31<sup>st</sup> American Solar Energy Society National Conference* (pp. 611-616). Boulder, CO: American Solar Energy Society. June 15-20, Reno, NV.
- 2001 Fernández-González, A. What Every College Student Should Know: A Course Proposal to Stimulate Environmental Awareness in Every-day Life. *Proceedings of the Greening of the Campus 4 Conference* (pp. 129-133), September 20-22, Muncie, IN.
- 2001 Fernández-González, A. An Empirical Model for the Prediction of Indoor-Environmental Conditions in Office Buildings Based on the Results of the ASHRAE RP-884. In Campbell-Howe, R. (Ed.), *Proceedings of the 30<sup>th</sup> American Solar Energy Society National Conference* (pp. 611-618). Boulder, CO: American Solar Energy Society. April 21-25, Washington, D.C.
- 1999 Fernández-González, A. and Morales Ramírez, J. Designing in a Mild Climate: The Importance of Solar Control Before the Use of Passive Cooling Strategies. In Campbell-Howe, R. (Ed.), *Proceedings of the 28<sup>th</sup> American Solar Energy Society National Conference* (pp. 629-634). Boulder, CO: American Solar Energy Society. June 14-16, Portland, ME.
- 1999 Fernández-González, A., Gaba, P. and Kowitanupong, C. Symmetry or Asymmetry... Comfort Is the Question. In Campbell-Howe, R. (Ed.), *Proceedings of the 28<sup>th</sup> American Solar Energy Society National Conference* (pp. 561-566). Boulder, CO: American Solar Energy Society. June 14-16, Portland, ME.
- 1998 Ávila, F.E., Fernández-González, A. and Sandoval, C. Sustainable Architecture Laboratory, Energy Research Center – National University of Mexico. *Proceedings of the V World Renewable Energy Conference* (pp. 1313-1316). September 21-25, Florence, Italy.
- 1997 Ávila, F.E. and Fernández González, A. Proyecto para la creación de un laboratorio de arquitectura sustentable. *Proceedings of the XVIII National Reunion for the Rational Use of Energy* (pp. 199-204). November 24-28, Mexico City, Mexico.
- 1997 Morales Ramírez, J. D. and Fernández González, A. Comparación del desempeño térmico de dos cubículos ubicados en diferentes ciudades de la República Mexicana. *Proceedings of the XXI Annual Solar Energy Reunion* (pp. 478-482). October 1-3, Chihuahua, Chihuahua, Mexico.
- 1996 Fernández González, A. and Morillón, D. Comparación de la ganancia térmica de los sistemas de cubierta más comúnmente utilizados en la vivienda social de baja densidad en México. *Proceedings of the XVII National Reunion for the Rational Use of Energy* (pp. 477-483). November 25-29, Mexico City, Mexico.
- 1996 Fernández González, A. and Morales Ramírez, J. D. Climatización natural de una vivienda en san Pedro Mártir, Tlalpan, D.F. *Proceedings of the XX Annual Solar Energy Reunion* (pp. 119-124). October 2-4, Xalapa, Veracruz, Mexico.
- 1996 Fernández González, A. and Morales Ramírez, J. D. Evaluación y comparación de tres métodos distintos de simulación térmica con base en los resultados obtenidos tras la medición de parámetros interiores en tres puntos distintos de una edificación. *Proceedings of the XX Annual Solar Energy Reunion* (pp. 171-175). October 2-4, Xalapa, Veracruz, Mexico.
- 1996 Fernández González, A. Factores que intervienen en la obtención del confort térmico humano. *Proceedings of the 1996 Annual Solar Energy Actualization Conference* (pp. 471-475). April 15-19, Temixco, Morelos, Mexico.
- 1995 Fernández González, A. Análisis y evaluación de estrategias de diseño bioclimático para el estado de Baja California Sur. *Proceedings of the XIX Annual Solar Energy Reunion* (pp. 219-223). October 2-6, La Paz, B. C. S., Mexico.
- 1994 Fernández González, A. Importancia de la eficiencia energética en el diseño urbano. *Proceedings of the XVIII Annual Solar Energy Reunion* (pp. 150-153). October 5-7, Hermosillo, Sonora, Mexico.

#### PUBLICATIONS ON THE WEB:

- 1997 Fernández González, A., P. Gaba, and Ch. Kowitanupong, "Symmetry or asymmetry... Comfort is the question", *Vital Signs web site*:  
[http://www.arch.ced.berkeley.edu/vitalsigns/bld/Casestudies/Abstracts/Oregon\\_water\\_ab.html](http://www.arch.ced.berkeley.edu/vitalsigns/bld/Casestudies/Abstracts/Oregon_water_ab.html)

#### ARTICLES IN NEWSPAPERS:

- 1997 Fernández González, A. "Mitos y realidades: El valor de la permanencia en la Arquitectura", *REFORMA (Suplement Entremuros)*, Mexico City, August 11, p. 5.
- 1997 Fernández González, A. "Selección y diseño de protecciones solares", *REFORMA (Suplement Entremuros)*, Mexico City, July 14, p. 5.
- 1997 Fernández González, A. "La ventana", *REFORMA (Suplement Entremuros)*, Mexico City, June 9, p. 3.
- 1997 Fernández González, A. "Protección de ventanas y tragaluces", *REFORMA (Suplement Entremuros)*, Mexico City, May 12, p. 2.
- 1997 Fernández González, A. "Explote la sombra como recurso térmico", *REFORMA (Suplement Entremuros)*, Mexico City, March 10, p. 2.
- 1997 Fernández González, A. "La sombra: Estrategia de diseño bioclimático", *REFORMA (Suplement Entremuros)*, Mexico City, February 10, p. 3.
- 1996 Fernández González, A. "Arquitectura bioclimática por regiones", *REFORMA (Suplement Entremuros)*, Mexico City, December 9, p. 2.
- 1996 Fernández González, A. "Ahorro de energía a través de la historia", *REFORMA (Suplement Entremuros)*, Mexico City, November 18, p. 3.
- 1996 Ruiz de Chávez, C., and A. Fernández González, "Arquitectura bioclimática para su hogar", *REFORMA (Suplement Entremuros)*, Mexico City, October 21, p. 12.

#### Software & Multimedia

- 2012 *RP\_Performance v. 2* – Thermal simulation Program for *Skytherm™ North Roofpond* buildings. (available upon request)
- 2011 *DG\_Performance v. 1* – Thermal simulation program for *Direct Gain* buildings. (available upon request)
- 2007 *The 2030 Challenge: Environmental Design in the Face of Climate Change*  
Interactive DVD with contributions from: Ed Mazria, Pliny Fisk III, John Reynolds, and Susan Roaf. (available for download at: <http://web.unlv.edu/labs/neatl/2030/>)
- 2006 Modeling the Performance of a Solar Heated Sunroom: Heat Gain, Storage and Loss (available for download at: <http://www.capital.edu/cs-environmental-science/>)

#### Public Presentations

##### PROFESSIONAL WORKSHOPS:

- 11/2016 *Concibiendo Edificaciones con Emisiones Netas Cero: Plataforma 2030 Palette* (12-hr. workshop)  
Seminario Internacional de Posgrado en Diseño Bioclimático y Sustentabilidad, Universidad Autónoma Metropolitana, Mexico City, Mexico.
- 07/2016 *Designing Zero Net Emissions Buildings (ZNE) Using the 2030 Palette*  
(4-hr. workshop co-presented with Anthony Guida)  
Passive and Low Energy Architecture 2017 Conference, Los Angeles, CA.
- 05/2016 *Concibiendo Edificaciones con Emisiones Netas Cero: Plataforma 2030 Palette* (4-hr. workshop)  
I Encuentro Nacional Sobre Ciudad, Arquitectura y Construcción Sustentable, La Plata, Argentina.
- 10/2015 *Concibiendo Eco-Distritos: Plataforma Sustentable 2030 Palette* (3-hr. workshop)  
Buildgreen Education Day - VII Buildgreen International Conference, Buenos Aires, Argentina.
- 10/2015 *Concibiendo Eco-Edificios: Plataforma Sustentable 2030 Palette* (3-hr. workshop)  
Buildgreen Education Day - VII Buildgreen International Conference, Buenos Aires, Argentina.

- 10/2012 *Aggressively Passive: Employing Passive Systems for Load Reduction*  
(4-hr. workshop co-presented with Ken Haggard)  
AIA+2030 Professional Series, Las Vegas, NV.
- 06/2012 *Accentuate the Positive: Climate Responsive Design*  
(4-hr. workshop co-presented with Sim Van der Ryn and Mike Ogden)  
AIA+2030 Professional Series, Las Vegas, NV.
- 05/2010 *Passive Solar Heating Design and Construction Guidelines*  
(8-hr. workshop co-presented with Daniel J. Overbey)  
Solar 2010 National Conference, Phoenix, AZ.
- 05/2009 *Passive Solar Heating Design and Construction Guidelines*  
(8-hr. workshop co-presented with Daniel J. Overbey)  
Solar 2009 National Conference, Buffalo, NY.
- 05/2008 *Roofpond Building Design: Heating and Cooling Applications* (4-hr. workshop)  
Solar 2008 National Conference, San Diego, CA.
- 05/2006 *Daylighting Case Studies* (90 min. seminar)  
LIGHTFAIR International 2006, Las Vegas NV.
- 07/2004 *Roofpond Building Design: Heating and Cooling Applications*  
(4 hr. workshop co-presented with Harold Hay)  
Solar 2004 National Conference, Portland, OR.
- 04/2004 *Roofpond Building Design: Heating and Cooling Applications* (4 hr. workshop)  
HOPES Conference, University of Oregon, Eugene, OR.
- 06/2001 *Methodology to Design Naturally Ventilated Buildings in Thailand* (4 hr. workshop)  
King Mongkut's University of Technology Thonburi, Bangkok, Thailand.
- 07/1997 *Introduction to the Thermal Simulation of Buildings Using TRNSYS 3.11*  
(5-day workshop with a total duration of 15 hr.)  
Universidad Autónoma Metropolitana, Mexico City, Mexico.
- 06/1997 *Thermal Balance of Buildings: Heat Gain and Heat Loss Calculations* (8 hr. workshop)  
Universidad Michoacana de San Nicolás Hidalgo, Morelia, Mexico.
- 02/1997 *Bioclimatic Architecture* (8 hr. workshop)  
Universidad Marista, Mexico City, Mexico.

INVITED LECTURES:

- 05/2016 *En Ruta Hacia Edificaciones con Emisiones Netas Cero*  
I Encuentro Nacional Sobre Ciudad, Arquitectura y Construcción Sustentable, La Plata, Argentina.
- 10/2015 *Road to Zero: Introduction of the 2030 Palette to Latin America*  
VII Buildgreen International Conference, Buenos Aires, Argentina.
- 01/2014 *Building Envelope Considerations for Passive Solar Design*  
International Seminar on New Skins for Green Buildings, Tianjin University. Tianjin, China.
- 10/2011 *Competition Site Investigation (CSI) of the 2011 Solar Decathlon*  
UNLV School of Architecture, Las Vegas, NV.
- 01/2009 *The Living Oasis: Integrated Building Water Management for the Southwest*  
Ferguson's Green Day (co-sponsored by the SNWA), Las Vegas, NV.
- 11/2008 *Sustainability Issues for Las Vegas: Water and Energy*  
Southern Nevada Mensa (SNvM) Chapter, Las Vegas, NV.
- 02/2008 *Urban Heat Island Effect*  
Green Roof Market Development Symposium, Las Vegas, NV.
- 03/2006 *Passive Survivability: Designing Buildings for Climate Change*  
U.S. Green Building Council Las Vegas Chapter, Las Vegas, NV.
- 03/2006 *Natural Building Systems: Finding Solutions to the Environmental Crisis*  
American Planning Association – Southern Section, Las Vegas, NV.

- 12/2005 *The Value of Design: Finding Solutions to the Environmental Crisis*  
Athenaeum Lecture Series, Honors College – UNLV, Las Vegas, NV.
- 11/2002 *Passive Solar Design Basics*  
Department of Architecture – Ball State University, Muncie, IN.
- 06/2002 *Effect of the Mean Radiant Temperature on Thermal Comfort in Passive Buildings*  
Commercialization of Roofponds Workshop, Reno, NV.
- 03/2002 *Globalization and Architecture*  
Democracy, Civil Society & Environmental Design Symposium, Muncie, IN.
- 06/2001 *Naturally Ventilated Office Buildings: Lesson Learned From European Buildings*  
King Mongkut's University of Technology Thonburi, Bangkok.
- 05/2001 *Contemporary Workspaces in Europe: Towards a Green Architecture*  
Warsaw University of Technology, Warsaw, Poland.
- 02/1997 *Thermal Comfort Issues in the Different Climate Zones of Mexico*  
1<sup>st</sup> International Encounter on Architecture and Energy  
Universidad Iberoamericana, Mexico City, Mexico.
- 04/1996 *Variables That Affect Thermal Comfort*  
Annual Solar Energy Actualization Conference, Temixco, Mexico.

#### PANEL & FORUM PRESENTATIONS:

- 07/2016 *Carbon Neutral Design: Is This The Future?*  
The Los Angeles Chapter of The American Institute of Architects, Los Angeles, CA.
- 05/2015 *Oregon Taught Educators*  
John S. Reynolds Sustainability Symposium, Eugene, OR.
- 10/2014 *Integrated Building Water Management in the Hospitality Sector*  
Lodging Green & Sustainability Conference, Las Vegas, NV.
- 06/2009 *Principles and Practices of Integrated Water Management: the Water- Energy Dynamic*  
Greening Rooftops for Sustainable Communities, Atlanta, GA.
- 10/2007 *Sustainability in Community Development & Architecture*  
Shaping the Future of Southern Nevada, Las Vegas, NV
- 07/2004 *1974–2004: Thirty Years of the Solar Heating and Cooling Demonstration Act:  
Recapturing the Legislative Vision*  
SOLAR 2004 National Conference, Portland, OR.
- 04/2004 *Implementing Appropriate Materials and Technologies*  
HOPES Conference – University of Oregon, Eugene, OR.
- 10/2001 *Ventilation Cooling* (discussant)  
Cooling Frontiers Symposium – Arizona State University, Tempe, AZ.

#### **Institutional Service**

##### SERVICE IN UNIVERSITY LEVEL COMMITTEES:

- 2016 – Present UNLV Campus Wayfinding and Branding Committee, *Member*.
- 2014 – 2016 Top Tier Advisory Committee (i.e., Carnegie's Very High Research Activity), *Member*.
- 2014 – 2015 Digital Measures Implementation Committee, *Faculty Representative*.
- 2006 – 2009 Graduate College Faculty and Student Issues Committee, *Chair*.
- 2006 – 2009 Graduate College Executive Committee, *Member*.
- 2005 – 2009 Graduate Council, *Member*.
- 2006 – 2007 University Research Council, *Member*.
- 2005 – 2007 Honors College Council, *Member*.
- 2005 – 2006 Graduate College Faculty and Student Issues Committee, *Member*.

Fall of 2005 UNLV Foundation Distinguished Teaching Award Selection Committee, *Member*.  
 Spring of 2005 Spanos Distinguished Teaching Award Selection Committee, *Member*.  
 Spring of 2005 11<sup>th</sup> University Planning Retreat, *Participant*.

SERVICE IN COLLEGE LEVEL COMMITTEES:

2016 – Present CFA Executive Committee, *Member*.  
 2014 – 2015 CFA Bylaws Committee, *Member*.  
 2013 – 2015 CFA Merit Committee, *Member*.  
 2010 – 2013 CFA Undergraduate Curriculum Committee, *Member*.  
 2005 – 2009 CFA Graduate Curriculum Committee, *Member*.  
 2006 – 2008 CFA Personnel Committee, *Member*.

SERVICE IN DEPARTMENT LEVEL COMMITTEES:

Multiple Years Executive Committee, *Member* (2005-2009 and 2010-2013).  
 2010 – 2014 Undergraduate Admissions and Student Affairs Committee, *Chair*.  
 2011 Preparation of the UNLV School of Architecture 2011 NAAB Accreditation exhibit.  
 Multiple Years Curriculum Committee, *Chair* (2011-2012); *Member* (2005-2009).  
 Multiple Years Personnel Committee, *Chair* (2013-2015); *Member* (2010-2012).  
 Multiple Years Lectures & Exhibits, *Chair* (2005-2007); *Member* (2010-2011).  
 2005-2009 Graduate Admissions and Student Affairs Committee, *Chair*.  
 Multiple Years Technology & Applied Science Committee, *Member* (2006-2008 and 2010-2011).  
 2008 – 2009 Merit Committee, *Chair*.  
 2008 – 2009 By-laws Committee, *Member*.  
 2008 Preparation of the UNLV School of Architecture 2008 NAAB Focused Evaluation exhibit and visit.  
 2007 – 2008 Self-assessment Committee, *Member*.  
 Multiple Years Academic Standards Committee, *Chair* (2006-2007); *Member* (2005-2006).  
 Multiple Years Faculty Search Committee, *Chair* (2005-2007); *Member* (2007-2009).  
 2005 – 2007 Reading and Writing in the Curriculum Ad-Hoc Committee, *Member*.  
 2008 – 2009 Architectural Research Centers Consortium, *Faculty Liaison*.  
 2005 – 2007 Association of Collegiate Schools of Architecture, *Faculty Liaison*.