

• Vitae Overview

Contact Information

Keith Evan Green, R.A., Ph.D.
Professor of Architecture
Professor of Electrical & Computer Engineering
Director – The Institute for Intelligent Materials, Systems & Environments
Clemson University 165 Lee Hall, Box 340507, Clemson, SC 29634-0503 USA
 • website. www.keithevangreen.com • e-mail. kegreen@clemson.edu • tel. 864.650.4879

Areas of Specialization

Cyber-Physical Systems, Human-Computer/Robot Interaction, Design Thinking, User Experience

Education

1998 **Ph.D. in Architecture, University of Pennsylvania**
Advisors: Marco Frascari, David Leatherbarrow, Joseph Rykwert and Wendy Steiner
Thesis: *While Waiting*. In this thesis, the interaction of people and their intimate, physical surroundings is considered as a living system. The thesis offers theories and historical precedents underlying *interaction design*, drawing particularly on the writings and design output of post-War architects G. Ponti and C. Mollino.
 1993 **M.S., University of Pennsylvania**
 1990 **M. Arch., University of Illinois at Chicago** | Director Stanley Tigerman
 1985 **B.A. with Honors in Psychology, Minor in English, University of Pennsylvania**
Award: Member of PSI CHI, the National Honor Society in Psychology

Professional Registration

since 1992 **Registered Architect (South Carolina #6610 active; Washington State #6036 – inactive)**
 since 2002 **NCARB (IDP) Registration** – Certificate number 55269; File number 92879

Academic Appointments

since 1999 **Clemson University** (Clemson, South Carolina, USA)
Home Appointment • **Professor of Architecture**
Joint Appointment • **Professor of Electrical & Computer Engineering**
Other Affiliations • **Faculty, PhD Program in Planning, Design & the Built Environment [PDBe]**
 • **Faculty, Ph.D. Program in Rhetorics, Communication, and Information Design [RCID]**
 • **Faculty, Materials Science & Engineering** (courtesy appointment)
Promotions: To Full Professor (2009), To Associate Professor (2003)
 1994-99 **University of Auckland / New Zealand**
 • **Lecturer in Architecture with Tenure** (British equivalent to Assistant/Associate Professor)
Promotions: Tenured (1997)

Academic Administration

since 2010 **Director – The Clemson U. Institute for Intelligent Materials, Systems & Environments [CU-iMSE]**
 • CU-iMSE is a partnership of *Architecture, Electrical & Computer Eng., and Materials Science & Eng.*
 • The Directorship is a University-Level Administrative Appointment | homepage: www.CU-iMSE.org
 since 2012 **Director – Digital Ecologies Certificate Program** | M.Arch, MS and PhD
 since 2005 **Coordinator – Architectural Design, Technology + Construction Processes concentration** | PhD
 2001-03 **Director – Clemson University's International Design Program in Barcelona, Spain**

- **Key Sponsored Research Projects**

**The Animated Work Environment [AWE]**

AIM: To design, prototype and evaluate an articulated, programmable, interior environment embedded with information technologies facilitating productivity, connectedness and innovation across fluid assemblages of people working in a variety of locations and settings.

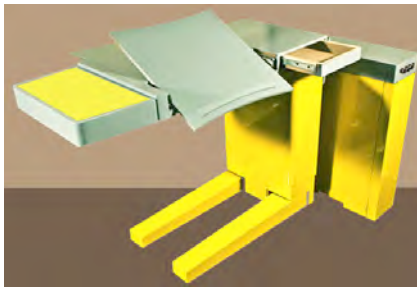
Period: 2005-2009

Sponsor: National Science Foundation | *Human-Centered Computing*

Award: \$400,000 (#IIS-0534423).

Principal Investigator: Keith Evan Green (PI, 34% share)

Co-PIs: L. Gugerty, Psychology; I. Walker, Electrical & Computer Engineering; J. Witte, Sociology.

**The Assistive Robotic Table [ART]**

AIM: To design, construct, field, and evaluate "ART," an Assistive Robotic Table supporting independent living. ART is one component in a suite of intelligent components collectively called *home+* that aims to increase the quality of life of healthy individuals as well as persons with impaired mobility, by intelligently supporting the physical organization of their immediate environment.

Period: 2011-2014

Sponsor: National Science Foundation | *Smart Health and Wellbeing*

Award: \$271,250 (#IIS-1116075).

Principal Investigator: Keith Evan Green (PI, 40% share)

Co-PIs: Ian Walker, Electrical & Computer Engineering; Johnell Brooks, Human Factors Psychology
Partners: Fraunhofer Institute, Kaiserslautern, Germany; Greenville Hospital System, South Carolina

**The LIT ROOM –and– The LIT KIT**

AIM: To develop an evocative, literacy support tool for read alouds. The LIT ROOM is a novel suite of user-friendly, networked, "architectural robotic" artifacts embedded in the library. The LIT KIT is its transportable extension. This physical-digital environment is transformed by words read so that the everyday space of the library or classroom "merges" with the imaginary space of the book: *The book is a room.*

Period: 2013-2015

Sponsor: National Science Foundation | *Human-Centered Computing*

Award: \$199,950 (#IIS-1352992).

Principal Investigator: Keith Evan Green (PI, 40% share)

Co-PIs: Ian Walker, Electrical & Computer Engineering, Susan Fullerton, Education
Partners: The Richland County Public Library (Columbia, SC)

- **Additional Research and Sponsorship**

Other Key Research Projects

2008-2011 **RoMo: An Intelligent, Robotic Monument for the Information World**

Aim: Historically, monuments may be characterized as static, physical entities that “petrify” memory of significant human events. **RoMo** reflects the dynamic and inclusive character of the Information Age. Rather than static, **RoMo** is a dynamic, Intelligent Environment “re-tuned” by historical information accumulating on the World Wide Web in the form of text, video and audio files.

Principal Investigator: **Keith Evan Green**

Co-PI: Ian D. Walker, Electrical & Computer Engineering

2011-date **Emergent, Nonverbal Communication Between Assistive-Robots and their Users**

Aim: To design and evaluate a nonverbal communication platform where user-defined gestures are learned by an assistive robot, and the robot in turn communicates to users via lights and sounds.

Principal Investigator: **Keith Evan Green & Ian D. Walker, Electrical & Computer Engineering**

Co-PI: Johnell Brooks, Human Factors Psychology

2013-date **CyberPLAYce: A Cyber-Learning environment fostering personal expression in classrooms**

Aim: To iterate our design of a novel, cyber-physical learning environment comprised of smart panels and modules, assembled into “constructionist environments” supporting classroom students in grades 3-5 (8-10 year-olds), and to evaluate this environment for learning efficacy as compared to a screen/tablet-based applications (e.g. Scratch) and educational robotics (e.g. LEGO Mindstorms)

Principal Investigator: Christina Gardner, Computer Science

Co-PIs: **Keith Evan Green** (leading iterative design of the Cyber-Learning artifact); Dani Herro, Education

Significant Gifts to My Lab

2011 **\$1,573,455 from Siemens PLM in software supporting research in intelligent environments**
This gift in-kind of software counted towards Clemson University’s “Will to Lead” capital campaign.

Larger Seed and Workshop Grants



ARCHIBOTS – An International Workshop

ARCHIBOTS was a full-day workshop offered on September 30, 2009 in Orlando, Florida as part of *Ubicomp, the International Conference on Ubiquitous Computing*. ARCHIBOTS identified opportunities and challenges in research and education in the emerging area of “Architectural Robotics” - intelligent and adaptable physical environments at all scales.

Period: **2008-2009**

Sponsor: **National Science Foundation | Small Grant for Exploratory Research**
Award: \$32,062 (#IIS-0925238).

Principal Investigator: **Keith Evan Green (PI)**

Co-PIs: Mark D. Gross, Carnegie Mellon University

URL: www.archibots.org

- **Grants, Patents and Formal Collaborations**

Larger Seed and Workshop Grants

2008 **Clemson University Research Investment Grant / \$10,510 for one year**
Aim: To characterize and develop intelligent behavior in R-TEX, a Smart, Sustainable Panel System
Principal Investigator: Keith Evan Green
Co-PIs: Michael Ellison (Materials Science and Engineering); Vincent Blouin (Structural Engineering)
Sponsor: Clemson University

Smaller Grants

2013-15 **AAH Research Grant, Clemson University**
 Course-release and \$3000 figure copyright costs towards my *Architectural Robotics* (MIT Press).
 2012 **AAH Research Grant, Clemson University**
 Support for pilot research in architectural robotics (that resulted in NSF Award).
 2005 **AAH Research Grant, Clemson University**
 \$3500 for RA support towards the publication of my book, *Gio Ponti and Carlo Mollino*.
 2002 **McMahan Research Stipend, Clemson University**
 \$3500 to pursue research in Santiago de Compostela, Spain.
 2002 **McClure Endowment Grant, Clemson University**
 \$3500 to develop teaching initiatives at Clemson's Center, Barcelona, Spain.
 1998 **Faculty Research Grant, University of Auckland**
 \$6940 to pursue post-doctoral research in Milan, Italy.
 1996 **New Faculty Research Grant, University of Auckland**
 \$8000 to pursue doctoral research in Milan and Turin, Italy.
 1994 **Italian Studies Research Fellowship, University of Pennsylvania**
 \$2500 to pursue doctoral research in Milan and Turin, Italy.

Patents and Industry Support for "RTex"

Patent Pending **#12/584,944: "Construction System and Resilient Non-woven Structural Building Panels."**
 2009 • Presented to the U.S. Department of Commerce for promotion to industry.
 2009 • Presented to Georgia Pacific and Milliken for licensing.
 2009 • Studied for Marketability by Clemson University's *Spiro Institute for Entrepreneurial Leadership*.

Formal Collaborations

2010-date **Member, Scientific Advisory Board, Technical University of Delft**
 For research conducted by faculty members of the *Hyperbody Research Group* (Henriette Bier).
 2010-date **Research Collaborator, University of Southern Denmark's Maersk Mc-Kinney Moller Institute**
 For research with USD's Modular Robotics Lab, *Maersk Mc-Kinney Moller Institute* (Ulrik P. Schultz)
 2010-date **Research Collaborator, Roger C. Peace Rehabilitation Hospital, Greenville Hospital System**
 For research with the *Greenville Hospital System University Medical Center*, S. Carolina (Stan Healy)
 2010-date **Member, Scientific Advisory Board, Institute of Smart Structures (ISS), University of Tennessee**
 For research conducted by faculty members of the *Institute of Smart Structures* (Edgar Stach).
 2009-date **Research Collaborator, the Fraunhofer Institute for Experimental Software Engineering**
 For research with the *Fraunhofer Institute IESE*, Kaiserslautern, Germany (Michael Eisenbarth)
 2004-09 **Member, Technical Advisory Committee, National Textile Center [NTC]**

- **Academic Honors**

- 2014 **Awarded the Fulbright Visiting Chair in Technology, Industry and the Environment**
One of three Visiting Chairs awarded across Canada.
host: *Hexagram Centre for Research-Creation in Media Arts and Technologies*
Concordia University, Montreal
- 2006-09, 2012-14 **AAH Faculty Research Fellowships, Clemson University**
Teaching release of 3 credits per semester or \$3000 to support research (book-writing).
- 2011 **Named "Creativity Professor" in the College of Architecture, Arts & Humanities**
Salary supplement and developmental funds rewarding creativity in teaching and scholarship.
- 2006,7,11,12,13 **Merit Performance Raises, Clemson University** | not offered by the University every year
- 2005 **Thesis Studio selected by AIA/COTE for "best practices in sustainable design education"**
link: http://www.aia.org/cote_tides
- 2004 **Clemson University Board of Trustees 2003 Award for Faculty Excellence**
link: <http://www.clemson.edu/awards/faculty/2003/facultylist.htm>
- 2001,2,11,12,13 **Merit Performance Raise, Clemson University**
Salary increase for "excellent performance" in at least two areas..."
- 2000 **Council of Principal Investigators, Clemson University**
One of five junior faculty members across the University to receive this recognition.
- 1992-94 **Fellowship, Ph.D. Program in Architecture, U. Pennsylvania**
Full tuition, fees, and living stipend for the two years in-residence
- 1989 **A.I.A. Roche Traveling Scholarship**
- 1989 **National A.I.A. Foundation, Certificate of Merit**
- 1989 **U. Illinois John Entenza Scholarship for Architecture**
- 1989 **Women's Architectural League of Chicago Scholarship**
- 1989-90 **Graduate College Fellowship, U. Illinois at Chicago**
Full tuition, fees, and living stipend for one academic year
- 1987 **Full-tuition scholarship, Academy of Art College, San Francisco**
- 1985 **Graduation with Distinction in Psychology, University of Pennsylvania**
- 1985 **Member, PSI CHI, the National Honor Society in Psychology**

- **Publications**

Books

- Forthcoming 2014 **Keith Evan Green and Mark D. Gross. *Architectural Robotics*. Cambridge, MA: MIT Press.**
- Forthcoming 2014 **T. H. Mokhtar, K. E. Green, and I. D. Walker. *How Robotics Will Change the Way We Design Monuments: Monumental-IT*. New York: Mellen Press.**
- 2011 **K. E. Green. *Gio Ponti and Carlo Mollino*. Trans. Y. Kishimoto. Tokyo: Kajima Press.**
- 2009 **H. Houayek, K. E. Green, and I. D. Walker. *The Animated Work Environment: An Architectural-Robotic System for a Digital Society*. Saarbrücken, Germany: Verlag.**
- 2006 **K. E. Green. *Gio Ponti and Carlo Mollino*. New York: Mellen Press.**

Chapters in Books

- In-press **K. E. Green, L. Gugerty, I. Walker, and J. Witte.**
AWE (Animated Work Environment): Ambient Intelligence in Working Life.
Ambient Intelligence. Hyderabad, India: Icfai University Press.
- 2009 **I.D.Walker and K.E.Green. Continuum Robots.**
The Encyclopedia of Complexity and Systems Science. New York: Springer, pp. 1475-1485.
- 2000 **K. E. Green. Aldo Rossi, Gio Ponti, Ernesto Rogers, Carlo Mollino, Domus, ... entries.**
Encyclopedia of Contemporary Italian Culture. London: Routledge.

Design Work Featured in Books

- 2004 **K. E. Green. House of Ivy.**
In David J. Brown, ed., *The HOME House Project: The Future of Affordable Housing*.
 Cambridge, MA: MIT Press, 2004.

Peer-Reviewed Papers, Videos & Posters

- In-press **Schafer, G, Green, K. E., Walker, I. D., Lewis, E., Fullerton, S., An Interactive, Cyber-Physical Read-Aloud Environment: Results and Lessons from an Evaluation Activity with Children and their Teachers.** In *Proceedings of DIS 2014, the ACM conference on Designing Interactive Systems*, Vancouver, B.C.
- In-press **Kapadia, A., Walker, I. D., Green, K. E., Manganelli, J., Houayek, H., James, A., Kanuri, V., Mokhtar, T., Siles I., and Yanik, P. "A Novel Approach to Rethinking the Machines In Which We Live: A Multidisciplinary Course in Architectural Robotics." *IEEE Robotics and Automation Magazine* [RAS].**
- In-press **Yanik, P.M., Threatt, A.L., Merino, J., Manganelli, J., Brooks, J.O., Green, K.E. and Walker, I.D. "A Method for Lifelong Gesture Learning Based on Growing Neural Gas." *Proceedings of HCI International 2014* (Crete, Greece, July 212-27, 2014). In C. Stephanidis, Ed., *Communications in Computer and Information Science*, 0xxx (xx). Springer, Heidelberg, 2014, xxx-xxx.**
- In-press **Houayek, H, Green, K. E., Gugerty, L. Walker, I. D. and Witte, J. "AWE: A robot-architecture for working with physical and digital tools and artifacts." *Springer Journal of Personal and Ubiquitous Computing* [JPUC].**
- 2014 **Dalton, N., Green, K. E., Dalton, R., Wiberg, M., Hölscher, C., Anijo, M., Schnädelbach, H. and Varoudis, T. "Interaction and Architectural Space." In *Proceedings of CHI 2014: the ACM Conference on Human Factors in Computing Systems*, Toronto, Ontario, Canada, pp. 29-32.**

- 2014 **Threatt, A. L., Merino, J., Green, K. E. & Walker, I. D. "An Assistive Robotic Table for Older and Post-Stroke Adults: Results from Participatory Design and Evaluation Activities with Clinical Staff."** In *Proceedings of CHI 2014: the ACM Conference on Human Factors in Computing Systems*, Toronto, Ontario, Canada, pp. 673-682.
- 2014 **Soleimani, A., Smith, K., Zeng, J., Green, K. E., Herro, D., Santiago, J., Sharma, S. Tonapi, M., Vijaykumar, A., Walker, I., & Garder-McCune, C. "Learning with CyberPLAYce; a Cyber-Physical Learning Environment for Elementary Students Promoting Computational Expression (archival video)."** In *Proceedings of CHI 2014: the ACM Conference on Human Factors in Computing Systems*, Toronto, Ontario, Canada, p. 165 and archived video.
- 2014 **Yanik, P.M., Merino, J., Threatt, A.L., Manganelli, J., Brooks, J.O., Green, K.E. and Walker, I.D. "A Gesture Learning Interface for Simulated Robot Path Shaping with a Human Teacher."** *IEEE Transactions on Human Machine Systems*, 44(1): 41-54, 2014.
- 2013 **Schafer, G, Green, K. E., Walker, I. D., Lewis, E., Fullerton, S., Soleimani, A., Norris, M., Fumagali, K., Zhao, J., Allport, R., Zheng, X., Gift, R. and Padmakumar, A. "Designing the LIT KIT, an Interactive, Environmental, Cyber-Physical Artifact Enhancing Children's Picture-book Reading."** *Proceedings of IDC 2013: the 12th International Conference on Interaction Design and Children*, June 24-27, New York, pp. 281-284.
- 2013 **Mokhtar, T., Green, K. E. and Walker, I. D. "Giving Form to the Voices of Lay-Citizens: Monumental-IT, an Intelligent, Robotic, Civic Monument."** *Proceedings of HCI International 2013* (Las Vegas, July 21-26, 2013). In C. Stephanidis, Ed., *Communications in Computer and Information Science*, 0374 (39). Springer, Heidelberg, 2013, 243--247.
- 2013 **Yanik, P., Manganelli, J., Merino, Threatt, T., Brooks, J. O., Green, K. E. and Walker, I. D. "A Gesture Learning Interface for Assistive Robotics Employing a Growing Neural Gas Approach."** *The IUI 2013 Workshop on Interactive Machine Learning of the ACM Conference on Intelligent User Interfaces*, March 19-22, Santa Monica, California, pp. 283-290; <https://sites.google.com/site/iui2013imlw/program> [on-line].
- 2013 **Threatt, A. L., Green, K. E., Brooks, J. O., Merino, J. and Walker, I. D. "Design and Evaluation of a Nonverbal Communication Platform for Human-Robot Interaction."** *Proceedings of HCI International 2013* (Las Vegas, July 21-26, 2013). In N. Streitz and C. Stephanidis, Ed.s, *Springer Lecture Notes in Computer Science* (LNCS) 8082 (25), Springer, Heidelberg, 2013, 505-513.
- 2013 **Manganelli, J., Threatt, A., Brooks, J. O., Smolentzov, L., Mossey, M., Healy, S., Walker, I. and Green, K., "Examination of Overbed Tables: Healthcare Provider and User Preferences."** *Health Environments Research & Design Journal* [HERD], 2013 Spring; 6(3): 9-29.
- 2012 **Brooks, J.O., Walker, I.D., Green, K.E., Manganelli, J., Merino, J., Smolentzov, L., Threatt, T., Yanik, P.M., Ficht, S., Kriener, R., Mossey, M., Mutlu, A., Salvi, D., Schafer, G., Srikanth, P., & Xu, P. (2012). "Robotic alternatives for bedside environments in healthcare."** *International Journal of Systems Applications, Engineering & Development*. 4(6):308-316.
- 2012 **Merino, J., Threatt, A. L., Walker, I.D. and Green, K.E. "Forward Kinematic Model for Continuum Robotic Surfaces."** In *Proceedings of IROS 2012: the 2012 IEEE/RSJ International Conference on Intelligent Robots and Systems*, Vilamoura, Algarve, Portugal, October 2012, pp. 3453-3460.

- 2012 **Threatt, A. L., Merino, J., Green, K.E., Walker, I.D., Brooks, J. O. et. al. "A Vision of the Patient Room as an Architectural Robotic Ecosystem."** Video (IEEE archival) in *Proceedings of IROS 2012: the 2012 IEEE/RSJ International Conference on Intelligent Robots and Systems*, Vilamoura, Algarve, Portugal, October 2012, pp. 3322-3323.
- 2012 **Manganelli, J., Green, K., Brooks, J., Mocko, G., Walker, I., Healy, S., Kopera, K., Threatt, A., Merino, J., and Yanik, P. "Patterns in architecture, cognition, systems, and software: representing and analyzing cognition during the design process."** Poster session presented at the annual Academy of Neuroscience for Architecture Conference (ANFA), La Jolla, CA, September, 2012.
- 2012 **Schafer, G, Green, K. E., Walker, I. D. and Lewis, E. "A Networked Suite of Mixed-Technology Robotic Artifacts for Advancing Literacy in Children."** *Proceedings of IDC 2012: the 11th International Conference on Interaction Design and Children*, June 12-15, Bremen, Germany, Germany, pp. 168-171.
- 2012 **Brooks, J. O., Walker, I. D., Green, K. E., Manganelli, J., Merino, J., Smolentzov, L., Threatt, T. and Yanik, P. "Robot Bedside Environments for Healthcare."** *International Journal of Circuits, Systems and Signal Processing*, <http://www.naun.org/journals/circuitssystemssignal> [on-line]; and, *Proceedings of the 12th WSEAS International Conference on Signal Processing, Robotics and Automation, (ISPRA '12)*, Cambridge, U.K, pp. 32-37.
- 2012 **Yanik, P., Manganelli, J., Merino, Threatt, T., Brooks, J. O., Green, K. E. and Walker, I. D. "Use of Kinect Depth Data and Growing Neural Gas for Gesture Based Robot Control."** *Proceedings of PervaSense2012, the 4th International Workshop for Situation Recognition and Medical Data Analysis in Pervasive Health Environments*. May 21, San Diego, California, pp. 283-290.
- 2011 **Green, K. E., Walker, I. D., Brooks, J. O., Threatt, T., and Merino, J. "An Assistive Robotic Table (ART) Promoting Independent Living."** Poster paper for the *Workshop on New and Emerging Technologies in Assistive Robotics of IROS 2011: the IEEE/RSJ International Conference on Intelligent Robots and Systems*, San Francisco, CA.
- 2011 **Buckley, M. V., Ellison, M. E., Threat, T., Merino, J., Green, K. E., and Walker, I. D. "The Challenges of Material Selection for Compliant Robotic Surfaces."** Paper in *Proceedings of the Fiber Society Fall Conference*, Charleston, SC.
- 2011 **Walker, I. D., Brooks, J. O., Green, K. E., Manganelli, J., Smolentzov, L., Threatt, A., Yanik, P. M., and Merino, J. "Interactive Robotic Environments in Healthcare."** Poster paper in *WISH (Workshop on Interactive Systems in Healthcare)*, Washington, D.C.
- 2011 **Threatt A., Green, K. E., Merino, J., Walker, I. D., Buckley, M. V., and Ellison, M. S. "A Morphing Robotic Environment Shaped by and Shaping Kindergarteners, Reaching for the Stars."** Demo paper in the *Proceedings of ACM Creativity and Cognition 2011*, Atlanta, GA, pp. 419-420.
- 2011 **Brooks, J. O., Smolentzov, L., DeArment, A., Logan, W., Green, K., Walker, I., Honchar, J., Guirl, C., Beeco, R., Blakeney, C., Boggs, A., Carroll, C., Duckworth, K., Goller, L., Ham, S., Healy, S., Heaps, C., Hayden, C., Manganelli, J., Mayweather, L., Mixon, H., Price, K., Reis, A. & Yanik, P. (2011). "Toward a 'smart' nightstand prototype: An examination of nightstand table contents and preferences."** *Health Environments Research & Design Journal [HERD]*, 4(2), 91-108. 2011 Winter; 4(2): 91-108.
- 2011 **Yanik, P., Manganelli, J., Smolentzov, L., Merino, J., Walker, I. D., Brooks, J., and Green, K. E., (2011). "Sensor Placement for Activity Recognition: Comparing Video Data with Motion Sensor Data."** *International Journal of Circuits, Systems and Signal Processing*, Issue 3, vol. 5, 2011: 279-286; <http://www.naun.org/journals/circuitssystemssignal> [on-line].

- 2011 **Yanik, P., Manganelli, J., Smolentzov, L., Merino, J., Walker, I. D., Brooks, J., and Green, K. E. (2011). "Toward active sensor placement for activity recognition." *Proceedings of the 10th WSEAS International Conference on Signal Processing, Robotics and Automation, (ISPRA '11)*, Cambridge, U.K., February 2011, pp. 231-236.**
- 2011 **Giri, N., Threatt, A. L., & Walker, I. D. and Green, K. E., (2011). "RWal." Video (ACM Digital Library archival) in *Proceedings of CHI 2011: the ACM Conference on Human Factors in Computing Systems*, Vancouver, B.C, p. 493.**
- 2010 **Smolentzov, L., Brooks, J., Mayweather, L., Beeco, R., Manganelli, J., Green, K. E., & Walker, I. D. "Aging Individuals' Preferences for an Automated Nightstand." *Proceedings of the 2010 Gerontological Society of America Scientific Meeting*, New Orleans, LA.**
- 2010 **Kapadia, A., Walker, I. D., Green, K. E., Manganelli, J., Houayek, H., James, A., Kanuri, V., Mokhtar, T., Siles I., and Yanik, P. (2010). "Architectural Robotics": An Interdisciplinary Course Rethinking the Machines We Live In." *Proceedings of ICRA 2010: the 2010 IEEE International Conference on Robotics and Automation*, Anchorage, Alaska, pp. 48-53.**
- 2010 **Mokhtar, T., Green, K. E., Walker, I. D., Threatt, T., Murali, V., Apte, A., and Mohan, S. (2010). "Embedding Robotics in Civic Monuments for an Information World." *WiP Proceedings of CHI 2010: the ACM Conference on Human Factors in Computing Systems*, Atlanta, Georgia, pp. 3859-3864.**
- 2009 **Logan, W. C., Brooks, J. O., DeArment, A., Honchar, J., Green, K., Walker, I. & Smolentzov, L. (2009). "Contents of nightstands among older residents of skilled nursing facilities." Poster session presented at the *2009 Gerontological Society of America Scientific Meeting*, Atlanta, GA.**
- 2009 **Green, K. E., Walker, I. D., Gugerty, L., Witter, J. C., Houayek, H., Kowka, M., Johnson, J., Teja, K. and Kuntzi, N. (2009). "AWE: A Robotic Wall and Reconfigurable Desk Supporting Working Life in a Digital Society." Video (IEEE archival) in *Proceedings of IROS 2009: the 2009 IEEE/RSJ International Conference on Intelligent Robots and Systems*, St. Louis, MI, pp. 406-407.**
- 2009 **Smolentzov, L., Brooks, J., Walker, I., Green, K., Logan, W., Duckworth, K. & Goller, L. (2009). "Older and younger adults perceptions of 'smart' furniture." Poster session presented at the annual meeting of the Gerontological Society of America, Atlanta, GA.**
- 2009 **Green, K. E., Eckhoff, A., Rosenblith, S., and Walker, I. D. (2009). "Extending the Reggio Educational Approach to Creativity Support Environments." Poster and short paper in *Proceedings of ACM Creativity and Cognition 2009*, Berkeley, CA, pp. 375-376.**
- 2009 **Houayek, H. and Green, K. E. (2009). "The Animated Work Environment." Poster in the *Proceedings of the 2009 ACSA National Conference*, Portland, OR.**
- 2009 **Ellison, M. S., Green, K. E., Blouin, V. and Cox, C. L. (2009). "R-TEX: A Fiber-Based, Nonwoven, Mass-Customizable Building Construction System." *Proceedings of the Second World Conference on 3D Fabrics*, Greenville, SC.**
- 2009 **Green, K. E., Walker, I. D., Brooks, J. O., and Logan, W. C. (2009). "*comforTABLE: A Robotic Environment for Aging in Place*." Late-breaking paper, *ACM/IEEE Conference on Human-Robot Interaction HRI'09*, La Jolla, CA, pp. 223-224.**
- 2008 **Green, K. E., Gugerty, L. J., Witte, J. C., Walker, I. D., Houayek, H., Rubinstein, J., Daniels, R. Turchi, J., Kwoka, M., Dunlop, I. and Johnson, J. (2008). "Configuring an Animated Work Environment: A User-Centered Design Approach." *Proceedings of the IEEE/AAAI Conference on Intelligent Environments IE08*, Seattle.**

- 2008 Kwoka, M., Johnson, J., Houayek, H., Dunlap, I., Walker, I. D., and Green, K. E. (2008). "The AWE Wall: A Smart Reconfigurable Robot Surface." *Proceedings of the IEEE/AAAI Conference on Intelligent Environments IE08*, Seattle.
- 2008 Green, K. E. (2008). "AWE: An Intelligent Environment Supporting Digital and Tactile Design Manipulation." *Workshop Proceedings of DC+C [Design, Computing + Cognition] 2008*, Atlanta.
- 2008 Green, K. E., Gugerty, L. J., Witte, J. C., Walker, I. D., Houayek, H., Rubinstein, J., Daniels, R., Turchi, J., Kwoka, M., Dunlop, I. and Johnson, J. (2008). "The Animated Work Environment: A Design-Research Exemplar Supporting Social and Virtual Collaboration in an Increasingly Digital Society." *Proceedings of DESIRIST 2008, the ACM Conference for Design Science Research in Information Systems and Technology*, Atlanta: 287-292.
- 2008 Green, K. E. (2008). "The Interactive, Adaptive 'AWE' Work Station." *Interactive and Adaptive Furniture*, hosted by Microsoft Research/University of Aarhus, Denmark.
- 2008 Green, K. E. (2008). "Back to the Future: Three Educational Experiments in Interactive Environments Anticipated in 1960s Visionary Thinking." *Proceedings for the 2008 ACSA National Conference, Houston*: 839-845.
- 2007 Johnson, J., Kwoka, M., Houayek, H., Walker, I. D. and Green, K. E. (2007). "Design, Construction, and Testing of a Novel Robotic Workstation." *Proceedings of CIRAS 2007*, Palmerston North, New Zealand.
- 2007 Green, K. E., Gugerty, L., Walker, I., and Witte, J. C. (2007). "An Animated Work Environment Supporting Working Life in a Digital Society." Poster in the *Proceedings of ACADIA 2007*, Halifax, Nova Scotia.
- 2007 Green, K. E., Ellison, M. S. and Cox, C. L. (2007). "A Finite Element Analysis and a Measure of Piezoelectric Sensor Output in "R-TEX," a Construction System of Recycled Fiber." *Proceedings of the Fiber Society Spring 2007 Conference on Fibrous Materials and Products*, Greenville, South Carolina.
- 2007 Green, K. E., Ellison, M. S. and Cox, C. L. (2007). "R-TEX: A "Green" Construction System of Recycled Fiber." *Proceedings of the 9th International Conference on Advanced Materials and Technologies*, Palanga, Lithuania.
- 2006 Witte, J., Green, K. E., Gugerty, L. and Walker, I. D. (2006). "CREATING AWE: Formulating a Research Process for an Interdisciplinary Effort to Build an Animated Work Environment (AWE)." *Proceedings of the International Symposium on Intelligent Environments* hosted by Microsoft Research, Cambridge, UK.
- 2006 Green, K. E., Gugerty, L. J., Witte, J. C. and Walker, I. D. (2006). "Three Robot-Rooms / The AWE Project." *Proceedings of 2006 CHI [Computer Human Interaction]*, Montreal, Canada, April 2006, pp. 809-814.
- 2006 K. E. Green (2006). *Architecture Plus: The Collaborative Animated Work Environment*. *Proceedings for the 2006 ACSA National Conference, Salt Lake City*.
- 2005 Ellison, M. S. and Green, K. E. (2005). "Smart Textile Systems for the Intelligent, Sustainable Home." *Proceedings for Ambience 2005, a Conference on Intelligent Ambience and Well-Being, Tampere, Finland*.
- 2005 Green, K. E., Gugerty, L. J., Walker, I. D. and Witte, J. C., (2006). "AWE (Animated Work Environment): Ambient Intelligence in Working Life." *Proceedings for Ambience 2005, a Conference on Intelligent Ambience and Well-Being, Tampere, Finland*, pp. 1-7.

- 2005 **Green, K. E. (2005). Contributions to *Ecological Literacy in Architectural Education*. AIA / Committee on the Environment Report on Sustainable Architecture.**
Reprinted in: Ann Thorpe, *Designer's Atlas of Sustainability*, <http://www.designers-atlas.net/teachguide.html>.
- 2005 **Ellison, M. S. and Green, K. E. (2005). "Architectural Systems + Advanced Materials."**
Proceedings of the 2005 Fiber Society Meeting, ETH, Switzerland.
- 2005 **Green, K. E. (2005). "The 'Bio-logic' of Architecture."** *Proceedings of the 2005 ACSA National Conference, Chicago.*
- 2005 **Green, K. E. (2005). "Cathedrals of Commerce."**
Proceedings of the Fourth Savannah Symposium: Architecture and Regionalism.
- 2004 **Green, K. E. (2004). "Symbiogenetic Architecture: New Directions for Architecture Theses."**
Proceedings of the 2003 ACSA SE Regional Conference, Tampa, pp. 136-143.
- 2003 **Green, K. E. (2003). "Architecture After Capitalism – Reply from Spain."**
Praxis 5, special issue on "Architecture after Capitalism."
- 2001 **Green, K. E. (2001). "West after West: Neutra's Los Angeles Home, Take 2."**
Proceedings of the 2000 ACSA SE Regional Conference, Charlotte, pp. 92-96.
- 2000 **Green, K. E. (2000). "Diabolik Headquarters: A whimsical return to the visionary 1960s."**
Proceedings of the 2000 ACSA SE Regional Conference, Charlotte, pp. 162-163.
- 2000 **Green, K. E. (2000). "The Fantasy of Precision."**
Proceedings of the 2000 ACSA CE Regional Conference, Ann Arbor, 5 pages.
- 1999 **Green, K. E. (1999). "From Milan to Auckland: The Strange Flight of the Pirelli Skyscraper."**
Proceedings of the 1999 ACSA International Conference, Rome, pp. 380-383.
- 1998 **Green, K. E. (1998). "Between Angels and Lovers: The Role of the Architect...."**
Architectural Theory Review, November, 1998, University of Sydney, pp. 32-44.
- 1996 **Green, K. E. (1996). "Whimsical Beginnings: A First-Year Design Studio."**
Review of the Committee of Heads of Architecture Schools of Australia, pp. 73-74.
- 1995 **Green, K. E. (1995). "Citadel: A Precise Anomaly."**
Interstices 3, July 1995, pp. 116-117.

Publications, Journals not-refereed

- 2013 **Green, K. E. "Giò Ponti and his fabulous Villa Planchart,"** *Italian 9: Ubiquitous Influences*. Volume 20. Number IX. 2013, in-print and on-line at <http://magazine.italianjournal.it/house-and-impermanence-milanese-architect-gio-pontis-unforgettably-philosophical-bent/>.
- 2012 **Gross, M. D. and Green, K. E. "Architectural Robotics, Inevitably,"** *interactions*, vol. xix.1 (January + February 2012), pp. 28-33. My article establishing "architectural robotics" as a research domain in the ACM CHI community. <http://mags.acm.org/interactions/20120102#pg1>.
- 2009 **Green, K. E. and Ellison, M. (2009) Non-Woven Fabrics as Structural Building Materials.**
 A paper selected for presentation at Clemson University's Summit on Advanced Materials.
- 2008 **Green, K. E. and Houayek, H. (2008) *An Animated Work Environment for the Info-World*.**
 [widely publicized on the internet, e.g. IEEE homepage]
- 2005 **Green, K. E. (2005). *House of Ivy in SOUTH*.** Clemson University Press. Clemson, SC.
- 2004 **Green, K. E. "Winning Designs,"** *Clemson World*, pp. 20-21.
<http://cworld.clemson.edu/archive/2004/spring04/feature4.htm>
- 2004 **Green, K. E. (2004). Art of the Machine: New Self-Sustaining "SURGE" Hospitals.**
Proceedings of the 2004 AIA Health Architecture Conference, Washington, 9 pages.

- Spring 04 **Green, K. E. (2004). Architecture is a Butterfly.** *CRiT* 57, pp. 32-34.
- 2000 **Green, K. E. (2000). Art of the Machine: A Mobile Medical Hospital.**
Proceedings of the 2000 AIA Health Architecture Conference, Vancouver, 9 pages.
- Sept. 98 **Green, K. E. (1998). Engaging Design: Salone 1998.** *Architecture New Zealand*, pp. 92-96.
- June 95 **Green, K. E. (1995). The Elevated Ship.** *Auckland Architecture Quarterly*, pp. 13-16.
- July/Aug. 92 **Green, K. E. (1992). The Fantasy of Architectural Detailing.** *Arcade*, p. 11.
- Dec. 91 **Green, K. E. (1991). Interview with Steven Holl** on his "Edge Cities" exhibition. *Arcade*.
- Aug. 91 **Green, K. E. (1991). Carlo Forcolini** (Review of lecture and exhibit). *Arcade*.
- Dec. 91 **Green, K. E. (1991). Mi[e]s perceptions.** *Arcade*, cover page, pp. 8-9.
- Sept. 91 **Green, K. E. (1990). The Reawakening of Constructivism,** *Arcade*. pp. 12-13.

Features on my Work in Magazines and Professional Journals, Not-refereed

- 2014 **Everyhope-Roser, J. "Vital Robotics with People in Mind,"** *Glimpse: Research and Creative Discovery*, Clemson University, (Spring), pp. 56-58, 67.
 Feature presenting a review of my research activities.
- 2012 **Croasmun, B. "Architectural Robotics: Intelligently Self-Configuring Spaces,"** *Innovaro Technology Foresight*, (Spring), pp. 1-11.
Innovaro offers, by subscription, "actionable technology foresight" to business leaders. For this feature, I was solicited by the author/editor as a leading figure defining this emerging area.
<http://innovaro.wordpress.com/about-innovaro/>
- 2010 **Fortmeyer, R. "Control Freaks,"** *Architectural Record*, (March), pp. 102-111.
 Continuing Ed article on intelligent environment research, featuring my work and words.
<http://continuingeducation.construction.com/article.php?L=5&C=653>

• Design Awards, Practice and Exhibitions

Design Awards

- 2008 **K. E. Green and H. Houayek. *An Animated Work Environment for Architects of the Info-World* for the “DI Designers’ Workstation” International Competition.**
A physical, robot-enabled workstation for the designers of an increasingly digital world.
Award: Competition Winner – Third Prize in Professional Category (and only USA winner)
Exhibition: Featured at “The Oporto Show” Trade Fair of Design, Interiors and Architecture, Portugal.
- 2003 **K. E. Green. *Houses of Ivy: An Affordable, Sustainable House Prototype.***
Award: Competition Winner, the HOME House project.
One of 25 winners from 440 design proposals in this international competition;
Touring exhibit, book publication, and potential for construction of design.
link: <http://www.secca.org>; also overviewed in *ArtNews*, *ArtPapers*, *Architectural Record*....
Catalog: D. Brown, *The HOME House Project: The Future of Affordable Housing* (MIT, 2004).
- 1997-99 **K. E. Green, D. Brand and Architectus. *Viaduct Basin, an Urban Waterfront Design for the America’s Cup*, Auckland, New Zealand.**
Award: International competition first-prize and contract for the work (completed).
Award: *New Zealand Institute of Architects/Auckland Award for Architecture* (2000).
- 1995-99 **K. E. Green. *Domus Farfalla: A residence across two disparate sites to accommodate a family after the death of a member.***
Award: Selected for exhibition at and part of the Collection of *The Art Institute of Chicago*.
- 1991 **K. E. Green as Project Designer at NBBJ. *Eddie Bauer Prototype Retail Store Prototypes.***
Award: Competition-winning design and contract for the work
- 1990-91 **K. E. Green as Project Architect at RAS. *Lake Pointe Condominiums*, Seattle, Washington.**
Award: Competition-winner for contract (completed)
Award: MAME-NW award for “Best Multi-Family Project” and “Best Floor Plan”
- 1990 **K. E. Green. *The Life Cycle House***
Award: The Schiff Prize in Architecture, the Art Institute of Chicago
First Prize (\$8000) for a design project, now in the Museum’s collection
link: http://www.artic.edu/aic/collections/dept_architecture/schiffwin.html
Award: *The O’Donnell Wicklund, Pigozzi & Peterson Prize*
“For An Outstanding Project Design in the Graduate Program at U. Illinois”

Architectural Practice Overview

- since 1992 **Keith Evan Green, Architect**
- 1991-92 **NBBJ Architects and Planners** (Seattle) / *Urban Designer*
- 1990-91 **RAS / Kenn Ruppard Architects** (Seattle) / *Project Architect; Intern Architect*
- 1989-90 **Hinds Schroeder Whitaker Architects** (Chicago) / *Intern Architect*
- 1988-89 **Urban Investments Developing Company / JMB** (Chicago) / *Intern Architect*
- 1986-87 **Anshen + Allen Architects** (San Francisco) / *Intern Architect*

Selected Exhibitions of My Design Work

- **Keith Evan Green with Henrique Houayek, *Designers Workspace* Competition Winner**
2008 Featured at “The Oporto Show” Trade Fair of Design, Interiors and Architecture, Portugal.
- **Keith Evan Green, “Houses of Ivy”**
2003-6 Arizona State U.; U. Minnesota; El Paso Museum of Art; University of Maryland, and 5 others
- **Keith Evan Green, “Life-Cycle House” and “Domus Farfalla”**
1999-00 The Art Institute of Chicago

- **Service Leadership Activities**

Invited Lecturer

- 2013 **Carnegie Mellon University, School of Computer Science** • "Architectural Robotics"
- 2013 **University of North Carolina - Charlotte, CS/MArch Dual-Degree Launch** • "Architectural Robotics"
- 2012 **University of Texas Arlington, ECE Department Lecture Series** • "Architectural Robotics"
- 2012 **Clemson University** • "Architecture-in-Motion | Emotion Architecture" as *AAH Creativity Professor*
- 2009 **University of Tennessee** • "Animated Architecture"
- 2008 **North Carolina State University** • "Animated Architecture"
- 2007 **RPI (Rensselaer Polytechnic University)** • "Animated Architecture"
- 2005 **Virginia Tech** • "Animated Architecture"
- 2005 **Art Institute of Chicago** • "Animated Architecture"
- 2005 **Auburn University** • "Science and Design"

Workshops Convened | all accepted by peer-review

- 2014 **Interaction and Architectural Space – at CHI 2014** (Toronto, Ontario)
<http://architectureinteractionworkshop2012.blogspot.com>
 Co-Convener with Nick Dalton (Open U.), Christoph Hoelscher (U. Freiburg), Ruth Dalton (Northumbria U.), Anijo Mathew (Illinois Institute of Technology), Gerd Kortuem (Open U.), William Hazlewood (Indiana U.), and Tasos Varoudis (The Bartlett School, London)
- 2012 **Ar-CHI-itecture – at CHI 2012** (Austin, Texas, USA)
<http://architectureinteractionworkshop2012.blogspot.com>
 Co-Convener with Nick Dalton (Open U.), Mikael Wiberg (Umeå U.), Ruth Dalton (Northumbria U.), Christoph Hoelscher (ETH Zurich), Anijo Mathew (Illinois Institute of Technology), Holger Schnädelbach (U. Nottingham), and Tasos Varoudis (University College London)
- 2011 **Graduate Student Symposium – at ACM Creativity & Cognition 2011** (Atlanta, Georgia, USA)
 Co-Convener with Ellen Do (Georgia Tech) for the peer-reviewed Graduate Student Symposium
- 2009 **ARCHIBOTS – at UBICOMP 2009** (Orlando, Florida, USA)
www.ARCHIBOTS.org
 Co-Convener with Mark Gross (Carnegie Mellon University)
Funded for \$32,062 by NSF-CISE SGER (Small Grant for Exploratory Research) #IIS-0925238.

Peer Reviewer / Program Committee Member / Session Chair

- 2014 **UIST: The ACM Symposium on User Interface Software and Technology**
 Peer-reviewer of papers.
- 2009, 2014 **FOOTPRINT 9 and 15: Digitally Driven Architecture; Dynamics in Data-Driven Design**
 Peer-reviewer of papers for this academic journal of Delft Technical U.'s School of Design.
- 2013 **The Netherlands Organization for Scientific Research**
 Invited reviewer of faculty proposals in interactive architecture funded by Dutch government.
- 2013 **ETH Zurich Research Commission**
 Invited reviewer of faculty proposals in interactive architecture funded by this Swiss university.
- 2013 **The Fiber Society International Meeting**
 Invited Session Chair for the "Smart Textiles in Clothing and the Built Environment" session
- 2012-date **CHI: The ACM Conference on Human Factors in Computing Systems**
 Peer-reviewer of papers.

- 2012-date ***The ACM Conference on Tangible, Embedded, and Embodied Interaction, TEI 2013***
Member of Program Committee (2013), and Peer-reviewer of papers.
- 2009-date ***ACM Creativity & Cognition Conference***
Member of Program Committee (2009, 11) and Peer-reviewer of papers
- 2012 ***Special Issue on “Architectural Robotics” – International Journal of Architectural Computing***
Peer-reviewer of papers submitted for possible publication.
- 2012 ***Pervasive 2012: the Tenth International Conference on Pervasive Computing***
Peer-reviewer of papers submitted for possible presentation/publication.
- 2011-12 ***Meeting of the Assoc. of Collegiate Schools of Architecture, ACSA 2012 – “Digital Aptitudes”***
Session Chair–selected through peer review–for “4D Architecture” at M.I.T., Cambridge, MA.
- 2007, 2009, 2011 ***Member, NSF Proposal Review Panel in CISE (Computing)***
Peer-reviewer of research proposals for funding, meeting at NSF, Washington, D.C.
- 2010-date ***IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2010, 2011***
Peer-reviewer of papers submitted for possible presentation/publication.
- 2010-date ***IEEE International Conference on Robotics and Automation, ICRA 2010, 2011***
Peer-reviewer of papers submitted for possible presentation/publication.
- 2006-date ***Human-Robot Interaction, HRI 2007/8/9/10/11/12 Conferences***
Peer-reviewer of papers submitted for possible presentation/publication.
- 2010 ***The Conference on Tangible, Embedded, and Embodied Interaction, TEI 2011***
Peer-reviewer of papers submitted for possible presentation/publication.
- 2010 ***IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2010***
Co-chair of the session, "Novel Designs and Architectures," meeting in Anchorage, Alaska.
- 2010 ***Design of Interactive Systems, DIS 2010 Conference***
Peer-reviewer of papers and Member of Program Committee, meeting in Aarhus U., Denmark.
- 2006 ***1:1, Journal of Architectural Education***
Peer-Reviewer of papers submitted for possible publication in this JAE issue on design research.
- 2006 ***Delirious New Orleans by Stephen Verderber***
Peer-Reviewer of this book-manuscript for University of Texas Press.
- 2005 ***Association of Collegiate Schools of Architecture ACSA 2006 National Conference • Salt Lake City***
Peer-reviewer of papers.
- 2003 ***ACSA 2003 International Conference • Helsinki***
Peer-reviewer of papers.

Workshop Participant – By Invitation

- 2013 ***The NSF-SHB [Smart Health and Wellbeing] Workshop, Arlington, VA.***
Meeting of all PI's of active cross-cutting SHB research towards establishing this NSF area.
- 2013 ***“Interactive Technologies that Enhance Children’s Creativity” Workshop, IDC 2013, New York.***
My position paper “Designing the LIT KIT” accepted for presentation.
- 2011 ***“Evaluating Children’s Interactive Technology” Workshop, CHI 2011, Vancouver, B.C.***
- 2006 ***The NSF-HRI [Human-Robot Interaction] Workshop, USC, Los Angeles, CA.***
Meeting of all PI's of active human-centered robotics research towards establishing this NSF area.

• Teaching at Clemson University | Thesis Supervision

Ph.D. Thesis Supervision (Committee Chair) – Ph.D. PDBE and RCID Programs

since 2012	Chair for Arash Soleimani, PDBE • <i>CyberPLAYce</i> : A Learning Tool for Elementary Classrooms
since 2011	Chair for George Schafer, PDBE • <i>The LIT KIT</i> : A Cyber-Physical Environment Supporting Literacy
Graduated 2013	Chair for Joe Manganelli, PDBE • A Model-Based, Human-Centered, Design & Analysis Method/Tool
Graduated 2013	Chair for Anthony Threatt, PDBE • <i>ART</i> : An Assistive, Robotic Table for Post-Stroke Patients
Graduated 2011	Chair for Tarek Mokhtar, PDBE • <i>Monumental-IT</i> : A Robotic Monument Configured by Lay Citizens
Graduated 2009	Chair for Henrique Houayek, PDBE • <i>AWE</i> : A Robotic “Animated Work Environment”

Ph.D. Thesis Committees – Electrical & Computer Engineering and other programs

since 2012	Committee Member for Niraj Poudel, PhD PDBE • Phase-Change Materials for Architecture
since 2009	Committee Member for Stan Healy, PhD Health Admin., MUSC • Smart Healthcare Technology
Graduated 2013	Committee Member for Paul Yanik, PhD ECE • Emergent Gesture Recognition for Arch. Robotics
Graduated 2010	Committee Member for Vidya Murali, PhD ECE • Mobile Robot Navigation Using Low-Res Vision

M.S. Thesis Committees – Electrical & Computer Engineering and Psychology

since 2012	Committee Member for Sean Reinaldo Gift (ECE) • Continuum Robots
Graduated 2013	Committee Member for Jessica Merino (ECE) • Kinematics for the ART Continuum Robot Surface
Graduated 2012	Committee Member for Alper Mutlu (ECE) • Design of an Aquatic Continuum Robot
Graduated 2011	Committee Member for Nivedhitha Giri (ECE) • Low-Resolution Vision for Mobile Robots
Graduated 2010	Committee Member for Linnea Smolentzov (Psychology) • Evaluation of Assistive Robotics - Elderly
Graduated 2008	Committee Member for Martha Kwoka (ECE) • Motion Planning for the Animated Work Environment

M. Arch. Design Thesis Supervision / Thesis no longer a requirement for the M.Arch after 2006-7

Since 1999	Served as Thesis Committee Chair for 17 Theses
Since 1999	Serving as Committee Member for 21 Theses
2003-4 Award:	<i>McClure Award for Best Clemson M.Arch. Thesis Project</i> (Billy Zion)

Landscape Arch. Design Thesis Committees

2012	Served as Committee member for Geoff Taylor (MLA) • Urban Design by Crowd Sourcing
2000	Serving as Committee Chair for Jamie Sittig (BLA) • “Third Avenue (Brooklyn) Competition”
Awards:	<i>ASLA Certificate of Honor</i> , Clemson University Honors Research Grant

B.S. Thesis Committees – Electrical & Computer Engineering and other programs

2011-12	Everett Love – Materials Science & Engineering
2010-11	Michelle Buckley – Materials Science & Engineering
2009-10	Jessica Merino – Electrical & Computer Engineering
2009-10	Andrew Ries – Electrical & Computer Engineering
2008-9	William Lui – Materials Science & Engineering

EUREKA Research Supervisor for *Calhoun Honors* Freshman Undergraduates

Summer 2013	Maggie Boyd and Tyler Berkey – Electrical & Computer Engineering
Summer 2012	Zack Hewitt – Electrical & Computer Engineering
Summer 2010	Megan Milam – Electrical & Computer Engineering
Summer 2008	Alyssa Simpson – Digital Production Arts
Summer 2007	Mary Rutland – Electrical & Computer Engineering
Summer 2006	Dominic Leali – Electrical & Computer Engineering

- **Teaching at Clemson University | Coursework**

Ph.D. Seminars in Planning, Design, and the Built Environment [PDBE]

2005-12	PDBE 801: Advanced Theory – Ph.D. Core Seminar (co-taught with M. Luria)
since 2005	PDBE 805: Readings in Technologies, Materials & Fabrications – a full-year PhD seminar
since 2005	PDBE 991: Ph.D. Dissertation
since 2005	PDBE 816: Ph.D. Research Design
since 2005	PDBE 990: Ph.D. Independent Study (Fall, Spring and required Summers)

M.Arch. / B.A. Advanced Seminars

2008-date	ECE/ARCH 868: Architectural Robotics (Cross-listed) see > www.CU-IMSE.org > academics A research lab course taught with Dr. Ian Walker of Electrical & Computer Engineering <i>National Publication:</i> <i>Proceedings of 2008 ACSA (Association of Collegiate Schools of Architecture) Conference.</i> <i>National Publication:</i> <i>Proceedings of ICRA 2010: the 2010 IEEE International Conference on Robotics and Automation</i> <i>National Publication:</i> <i>The 2011-12 ACSA Steel Design Competition Winners.</i>
2011	CPSC 281/481 CREATIVE INQUIRY: Designing and Developing a New Instructor's Station A multi-disciplinary course taught with faculty from School of Computing, Industrial and Mechanical Engineering, Psychology, Student Disabilities Service, and CCIT
2005-7	ARCH 699: ANIMATED ARCHITECTURE: Emerging Technologies & Intelligent Systems <i>National Publication:</i> <i>Proceedings of CHI 2010: the ACM Conference on Human Factors in Computing Systems.</i>
2001-3	ARCH 414: The Art of Building: Arch. Detailing and the Construction of Culture
2001-3	ARCH 416: Ways of Seeing, Ways of Thinking, Ways of Constructing
Fall 00	ARCH 603/403: Ideas and Forms in Modern Architecture

Design Studios, Architecture

2008-date	M.Arch. Design Studio IV DIGITAL ECOLOGIES see > www.CU-IMSE.org > academics <i>Award:</i> <i>Honorable Mention, 2011-12 ACSA Steel Design Competition</i> <i>(303 entries, 7 awards – a 2% acceptance rate)</i>
2003-7	ANIMATED ARCHITECTURE LAB • M.Arch Thesis-Year Research Studio <i>Award:</i> <i>These studios selected by AIA as among the "best practices in sustainable design education"</i> <i>Award:</i> <i>McClure Award for best M.Arch. Thesis in 2003-4 (Billy Zion)</i> <i>National Publication:</i> <i>2005 ACSA Conference (Chicago, IL) for my M.Arch thesis studio of 2003-04</i> <i>National Publication:</i> <i>2008 ACSA Conference (Houston, TX) for my M.Arch. studio of Fall 2005.</i>
2002-3	Fluid Spaces in Barcelona: Immigration & the Public Realm • B.A. 3rd/B.L.Arch 4th-yr.
Fall 01	ISoC: Institute for Surrealism of Catalunya • B.A. 3rd/4th-yr.
Spring 01	Reassessing a Machine for Living In: A Hospice • M.Arch. "Arch. + Health"
Fall 00	Architecture is a Butterfly: Clemson Institute of Entomology • M.Arch. <i>Award:</i> <i>St. Petersburg Prize for Excellence in Design (Lukas Kohl)</i>
Summer 00	Whimsical Beginnings • B.A. 1st-yr.
Spring 00	Pacific Cancer Center • M.Arch.
Fall 99	Headquarters for <i>Diabolik</i> for Milan, Italy • M.Arch.

Program and Curriculum Development

created 2011-12	"Digital Ecologies" Certificate Program within the M.Arch., M.S. Arch. and Ph.D. PDBE Degrees
developed 2001-3	Clemson's Arch/L.Arch. Program in Barcelona
created 2005-6	3-Year M.Arch. Curriculum, servings as Chair of the Architecture Curriculum Committee
since 2000	Planning and Development of Ph.D. in Planning, Design and the Built Environment

- **Teaching at University of Auckland**

B. Arch. Thesis Supervision

- 1995 **Serving as Chair for Martin King** • "Making Architecture: A Matter of the Copy"
Award: The Cavalier Bremworth Prize (\$8000 Travel Grant)
 "The most theoretically adept of the award-winning projects."
 - *Architecture New Zealand* (January/February 1996) p. 70.

B. Arch. Design Studios, Architecture

- Spring 98 **Headquarters for *Diabolik*: a Mixed-Use Building for Milan, Italy** • B.Arch. 5th-yr.
 Fall 98 **Istituto per l'immagine in movimento: a Museum for Milan, Italy** • B.Arch. 5th-yr.
 Spring 97 **Cultural Spaces: The Hong Kong Consulate of Auckland** • B.Arch. 3rd-yr.
 Fall 97 **Reassessing "A Machine for Living In": a Hospice for Auckland** • B.Arch. 5th-yr.
 Spring 96 **Architecture is a butterfly: the New Zealand Institute of Entomology** • B.Arch. 5th-yr.
 Fall 96 **Whimsical Beginnings: 4 Follies and a Cafe/Gallery** • B.Arch. 1st-yr.
 Spring 95 **Spaces for Collectors: A Mixed-Use Urban Building for Auckland** • B.Arch. 3rd-yr.
 Fall 95 **Whimsical Beginnings: 4 Follies and an Exhibition Space** • B.Arch. 1st-yr.
 Spring 94 **Citadel: A Precise Anomaly – A Visitors' Center for Auckland** • B.Arch. 3rd-yr.

B. Arch. Lecture Courses

- Fall Terms **An Introduction to Modern Architecture** • B.Arch. 130 (Lectures to 120 students)
 Spring Terms **Theories of Architecture** • Arch. 131 (Lectures to 120 students)
 Contributions to: **Urban Design 1** • Arch. 202/302 (Seminar Format)
 Research Methods for Graduate Students • Arch. 700 (Seminar Format)

Independent Course Supervision

- 1997 **A Cabinet for a Magician / Guy Davies**
Award: First Prize, The Bestwood Furniture Competition
 1996 **A Cabinet for a Calligrapher / Melinda Trask**
Award: Jurors' Citation, The Bestwood Furniture Competition
 1996 **A House for an Alchemist / Rachel Venables**
 1996 **Collage in 20th Century Art and Architecture / Phillip Matz**
 1995 **Louisa Tuthill: One Woman's Architectural History / Robyn Hill**
 1995 **Threshold: The Enigma of Arriving / Kent Nixon**
 1995 **A House in Flight / Phillip Matz**

- **Publications of Students' Outcomes**

- 2014 **Soleimani, A., Green, K. E., Walker, I. D., Gardner-McCune, C., Herro, D. "CyberPLAYce -- A Play Space of Creative Intelligent Tools Promoting Personal Expression; Collaboration and Computational Thinking for Early Learners."** In *Proceedings of DIS 2014, the ACM conference on Designing Interactive Systems*, Vancouver, B.C. (Doctoral Consortium).
- 2013 **Schafer, G, Green, K. E., Walker, I. D., Lewis, E., Fullerton, S. "The LIT ROOM: Advancing Literacy in Children Through a Networked Suite of Architectural Robotic Artifacts."** *Proceedings of IDC 2013: the 12th International Conference on Interaction Design and Children*, June 24-27, New York, pp. 643-646 (Doctoral Consortium).
- 2012 **Jingjie Zhao, "Futuritst.Culinary.Matrix."**
The 2011-12 ACSA Steel Design Competition Winners. Printed book and on-line at
<http://www.acsa-arch.org/programs-events/competitions/competition-archives/2011-12-steel-competition/2011-12-steel-winners>.
- Award: *Honorable Mention, 2011-12 ACSA Steel Design Competition.*
(303 entries, 7 awards – 2% acceptance rate)
- 2008 **Henrique Houyak, "The Animated Work Environment: A Vision for Working Life....,"**
 In the *Proceedings of Design Science Research in Information Systems and Technology DESIRIST 2008*, Atlanta: "Doctoral Colloquium," 429-430. Student received a \$500 NSF stipend to participate.
- 2007 **Students' thesis work featured in the First AIA-COTE Biomimicry Student Work Gallery**
 The work of 2 of the 5 students selected from nation-wide entries was from my thesis studio.
- Jury: *"Both of these examples really engage the life principles [studied], dig into the notion of function, and then seek ways to apply that in the designs."* – Dayna Baumeister and Rose Tocke (Biomimicry Guild), Tom Fisher (Dean of the College of Design at University of Minnesota), and others.
- 2006 **Coverage of my 2003-4 Thesis Studio. In the ECO LITERACY REPORT. AIA-COTE**
 Selected from 49 faculty submissions of Sustainable Architecture coursework.
- Excerpt: *"[Green's] studio represents some of the most compelling work submitted to the Ecological Literacy in Architectural Education program, demonstrating that design excellence measured by any standard need not be sacrificed to address ecology."*
- 2005 **Coverage of my 2003-4 Thesis Studio. In Dennis Dullens. Design Biomimetics: An Inquiry and Proposal for Architecture and Industrial Design. Barcelona: UIC.**
- Excerpt: *"The year-long, thesis option, headed by Keith Evan Green...comes as a surprise when you understand that Green is talking about environmental life, life systems, and biological life within the matrix of urban and suburban sprawl.[...] Other university design laboratories need to follow Green's studio experiments in architectural thinking, analyzing, and extrapolating design from nature."*
- 2005 **Architectural models from three of my design students.**
In Criss B. Mills, Designing with Models. New York: Wiley.
- Spring 04 **Keith Evan Green. "Architecture is a Butterfly." In CRiT 57, pp. 32-34.**
 Critical reflection on my M.Arch. studio course, taught in Fall 2000.
- 2000 **Diabolik Headquarters: A whimsical return to the visionary 1960s....,**
Proceedings of the 2000 ACSA SE Regional Conference, Charlotte, pp. 162-163.
- 1995-96 **Whimsical Beginnings: A First-Year Design Studio**
 Review of the *Committee of Heads of Architecture Schools of Australasia*.
- Jan. 1996 **Clever Distortions, New Zealand Architect**, pp. 67-71.
- July 1995 **Citadel: A Precise Anomaly, Interstices 3**, p. 116-117.

- **Service, Memberships and Development**

Service to Clemson University and General Public

2013-14	Chair, School of Architecture Committee, Revising Bylaws & Faculty Assessment Standards
2014	Member, School of Architecture Endowed Chair Search Committee
2014	Presenter, Clemson U. "PI Pointers" video http://www.youtube.com/watch?v=LwO6DVO_k5c
2013	Member, College of AAH Peer Review (Tenure & Promotions) Committee for two Chair hires
2012	Panel Member, "Architectural Leadership," AIAS South Quad Conference
2010-date	Member, Architecture Peer Review (Tenure & Promotions) Committee
2010-date	Member, Clemson University Research Council Committee [URCC]
2010-12	Chair, Architecture Peer Review (Tenure & Promotions) Committee
2009-2012	Member, Clemson University Research Grant Committee [URGC]
2007-date	College of AAH Research Consultants Committee (mentoring faculty)
2007-2011	Representative of the School of Architecture, the College of AAH Research Committee
2004-10, 2011-date	Member, Advisory Committee, Ph.D. Program in Environmental Design & Planning
2008-date	Mentor to Junior Faculty Members, School of Architecture
2010	Participant, "Plan Stone Avenue" Design Charrette for Greenville, SC
2009-10	Member, Architecture Peer-Review (Tenure & Promotions)
2009-10	Member, Facilities Committees
2008-9	Chair, Architecture Faculty Search Committee
2008-9	Member, Chair Review Committee
2005-6	Member, Post-Tenure Review Committee, Clemson School of Architecture
2006-7	Member, <i>School of Design and Building</i> Advisory Council to the Dean
2007	Organizer, School Event entitled "Drawing from Nature in Architecture, Science and Engineering"
2007	Performance Judge, First Lego League Regional Competition
2005-7	Member, Curriculum Review Committee, College of Architecture, Arts & Humanities
2005-7	Chair, Curriculum Review Committee, Clemson School of Architecture
2005-date	Member, Admissions Committee, Ph.D. Program in Environmental Design & Planning
2005	Participant, Expert Panel Visioning Session, CU Materials Science and Engineering
2004-5	Member, Architect Selection Jury for the Charleston Center Competition
2003-4	Member, Architecture Faculty Search Committee
2002	Host, Meetings of CU (Provost, Dean, Chairs) with Barcelona universities
2001-3	Author, Handbook for Directing Clemson's Barcelona Program
2000-1	Coordinator, 2000-2001 Architecture Lecture Series
2000-1	Co-Chair, Architecture Faculty Search Committee
1999-2001	Member, Faculty/Student Advisory Committee
1999-2005	Member, Graduate Curriculum Committee
1999-2005	Member, Graduate Admissions Committee and Honors and Awards Committee

Membership

IEEE / Robotics and Automation Society #90609014
 ACM-SIGCHI / Association for Computing Machinery - Computer-Human Interaction #9050700
 NCARB / The National Council of Architectural Registration Boards #5562

Professional Development

Since 1992	Annual "Continuing Education" for Professional (Registered) Architects
Since 1995	Biannual IRB Research Compliance Certification
Since 2009	Sponsored Program Certifications – every three years

Foreign Language Skills

Italian	• 2-years of course work, U. Auckland • Ph.D. exam • 2 years of life experience in Italy.
Spanish	• 2-years of course work, U. Pennsylvania • Ph.D. exam • 2 years of life experience in Spain. • 2 summers of Intensive Spanish Courses, University of Santiago de Compostela, Spain.