

## Gail S. Brager

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**Education**                      Ph.D., Mechanical Engineering, University of California, Berkeley, 1984  
M.S., Mechanical Engineering, University of California, Berkeley, 1982  
B.S., Mechanical and Environmental Engineering, University of California,  
Santa Barbara, 1980

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**Academic Appointments**                      University of California, Berkeley – current (beginning date)  
Professor of Architecture, Bldg Science, Technology & Sustainability (1984)  
Associate Director, Center for the Built Environment (1997)  
Director, Center for Environmental Design Research (2017)  
Associate Dean, Graduate Division (2018)

University of California, Berkeley – past, selected  
Interim Chair, Department of Architecture, 2009-2010  
Associate Director, Center for Environmental Design Research, 2004-2017

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**Selected Publications**  
*(out of 96 total – 67 journal pub's, 23 conference pub's, and 3 book chapters)*

Nudging the Adaptive Comfort Model. Parkinson, T., R. de Dear, G. Brager. Building and Environment (*in press*).

A data-driven approach to defining acceptable temperature ranges in buildings .Li, P., T. Parkinson, G. Brager, S. Schiavon, T. Cheung, T. Froese. Building and Environment, Volume 153, pp. 302-312. April 2019.

A study of indoor thermal parameters for naturally ventilated occupied buildings in the warm-humid climate of southern India. Doctor-Pingel, M., V. Vardhan, S. Manu, G. Brager, and R. Rawal. Building and Environment. Vol 151, pp 1-14. March 2019.

Ceiling fans in commercial buildings: in situ airspeeds & practitioner experience. Present, E., P. Raftery, G. Brager, and L.T Graham. Building and Environment 147, 241-257. Jan 2019.

Ventilation, thermal and luminous autonomy metrics for an integrated design process. Ko, W.H., S. Schiavon, G. Brager, and B. Levvit. Building and Environment. November 2018.

A conversation on adaptation in the built environment. Aijazi, A., and G. Brager. ASHRAE Journal, 60(1). October, 2018.

Development of the ASHRAE Global Thermal Comfort Database II. Földváry, V., T. Cheung, H. Zhang, R. deDear, T. Parkinson, E. Arens, C. Chun, S. Schiavon, M. Luo, G. Brager, et al. Building and Environment, Volume 142, pp. 502-512. September 2018.

Indoor climate experience, migration, and thermal comfort expectation in buildings. Luo, M., Z. Wang, G. Brager, B. Cao, and Y. Zhu. Building and Environment, 141: 262-272. August 2018.

Performance, prediction, optimization and user behavior of night ventilation. Landsman J., G. Brager, and M. Doctor-Pingel. Energy and Buildings, Vol. 166, pp. 60-72. May 2018.

Post-occupancy evaluation: State-of-the-art analysis and state-of-the-practice review. Li, Peixian, T.M. Froese, and G. Brager. Building and Environment, Volume 133, Pages 187-202. April 2018.

Predicting individuals' thermal preference using occupant heating and cooling behavior and machine learning. Kim, J., Zhou, Y., Schiavon, S., Raftery, P., Brager, G. Building and Environment. Volume 129, 1 pp 96-106. February 2018.

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- Personal comfort models – A new paradigm in thermal comfort for occupant-centric environmental control. Kim, J., S. Schiavon, and G. Brager. Building and Environment, Volume 132, 2018, Pages 114-124. January 2018.
- Adaptive comfort and mixed-mode conditioning. de Dear, R and Brager, G; Encyclopedia of Sustainability Science and Technology, R. A. Meyers (ed.), Springer Science+Business Media LLC. November 2017
- Indoor environmental quality and occupant satisfaction in green-certified buildings. Altomonte, S., Schiavon, S., Kent, M.G., Brager, G. Building Research & Information. November 2017.
- Assessment of thermal environmental conditions and quantification of thermal adaptation in naturally ventilated buildings in composite climate of India. Dhaka, S., Mathur, J., Brager, G., Honnekeri, A. (2015). Building and Environment, Volume 86, pp 17-28. April 2015,
- Evolving opportunities for providing thermal comfort. Brager, Gail; Zhang, Hui; & Arens, Edward. Building Research & Information, 43(3), 274 – 287, January 2015.
- Progress in thermal comfort research over the last twenty years. de Dear, RJ, Akimoto T, Arens EA, Brager G, Candido C, Cheong KW, Li B, Nishihara N, Sekhar SC, Tanabe S, Toftum J, Zhang H, and Y. Zhu. Indoor Air. (6):442-61. April 2013.
- Historical and Cultural Influences on Comfort Expectations Brager, G.S. and R.J. de Dear. (2003). Chap. 11 in Buildings, Culture and Environment: Informing local and global practices, R. Cole and R. Lorsch (eds.), Blackwell Publishing, October 2003.
- The Adaptive Model of Thermal Comfort and Energy Conservation in the Built Environment. De Dear, R.J. and Brager, G.S. International Journal of Biometeorology, Vol. 45, No. 2, pp. 100-108, July 2001.
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**Selected Recent Presentations**

- “The Experiential Perimeter Zone”, GreenBuild, Chicago, November 2018
- “The Value of Variability”, invited keynote, Indoor Air, Philadelphia, July 2018
- “Healthy and Sustainable Glazing”, Façade Tectonics, Vancouver, July 2018
- “The Energy/Comfort Nexus: making buildings work for people and the planet”. UT Austin, March 2018 and MIT, April 2017.
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**Selected Recent Awards**

- Best Paper Awards – co-author on all 3 Best Paper Awards given by Building and Environment for 2018 (out of 2965 submissions)
- Best of Decade – Research Paper Award for 1998-2007, from Energy and Buildings (*awarded in 2019, based on papers that withstand the test of time, reflected by their frequency of citations, and comments from the citing papers*)
- Faculty Award for Outstanding Mentorship of GSIs, Spring 2016.
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**Selected Synergistic Activities**

- Well Living Lab, Mayo Clinic, Scientific Advisory Board, June 2016-present
- Building and Environment. Editorial Advisory Board, 2016-present
- Passive Low Energy Architecture (PLEA), Associate, January 2015-present
- Building Research & Information. Editorial Board, 2007-2018
- U.S. Green Building Council. Founding Chair, Research Committee, 2006-2009. Member, 2006-201.
- Vital Signs Curriculum Materials Development Project. Co-PI, 1994-1997.
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