**Kathleen L. Mosier, Ph.D.**

Emeritus Professor

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**Dr. Kathleen Mosier** is the current President of the International Ergonomics Association. Dr. Mosier is an Emeritus Professor of Psychology from San Francisco State University and the Founder and Principal Scientist of *TeamScape LLC*, a company founded to conduct research on human and human-automation teams. Dr. Mosier received her Ph.D. in Industrial/Organizational Psychology from University of California, Berkeley, and her training in aviation human factors at NASA Ames Research Center. She spent seven years at NASA (1990-1997), and then was a professor of I/O Psychology at SFSU for 20 years (1997-2017).

Dr. Mosier is a past President of the Human Factors and Ergonomics Society (2009-2010) and of the Association for Aviation Psychology (1996-2000), and the former Vice-President and Secretary General of the International Ergonomics Association (IEA; 2015-2018). She served on the Editorial Boards of *Human* *Factors* and *International Journal of Aviation Psychology*, and was an Associate Editor of the *Journal of Cognitive* *Engineering and Decision Making*. Dr. Mosier has been conducting research on expert teams, automation, cognition, and decision making, for over 20 years, and is currently a Principal Investigator on NASA-funded space research. An early focus of her research was on the impact of automation on flight crew coordination and decision-making. With a colleague, she originated the term *automation bias*, and conducted seminal research on the phenomenon. Currently her research targets remote teams in space operations, examining the impact of communication time delay on space-ground teams, and the psycho-social aspects of crew autonomy in long duration space missions.

**Professional Experience**

Founder and Principal Scientist, TeamScape LLC, 2016-present

Professor of Psychology, San Francisco State University, 2006-2016

Chair of Psychology, Fall 2005-2008

Associate Professor of Psychology, San Francisco State University, 2002-Fall, 2006.

Assistant Professor of Psychology, San Francisco State University, Fall, 1997-2002.

**Selected Publications**

Mosier, K. L., & Manzey, D. (in press). Humans and automated decision aids: A match made in heaven? In M. Mouloua & P. Hancock (Eds.), *Human performance in automated and autonomous systems:  Current theory and methods.* CRC Press

Fischer, U., & Mosier, K. (in press). Teamwork in spaceflight operations. In P. Ward, J. M. Schraagen, J. Gore, & E. Roth (Eds.), *The Oxford Handbook of Expertise: Research & Application*. UK: Oxford University Press.

Burian, B. K., Mosier, K. L., Fischer, U. M., & Kochan, J.A. (in press). New teams on the flight deck: Humans and context-sensitive information automation. In E. Salas (Ed.), *Human Factors in Aviation, 3rd Ed.*

Orasanu-Engel, J., & Mosier, K. L. (2019). Flight crew decision making. In B. Kanki et al. (Eds.), *Crew resource management, 3rd Edition* (pp. 139-174). San Diego, CA: Academic Press.

Mosier, K., Fischer, U., Hoffman, R., & Klein, G. (2018). Expert professional judgments and “Naturalistic Decision Making.” In K. A. Ericsson, R. R. Hoffman, A. Kozbelt, & A. M. Williams (Eds.), *The Cambridge handbook on expertise and expert performance* (pp. 453-475). Cambridge University Press.

Banks, C. G., Mosier, K., Robertson, M., Honan, M., & Cascio, W. (2017). Enhancing business effectiveness and worker sustainability through HFE. *Proceedings of the 61st Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: HFES

Mosier, K. L., & Militello, L., (Eds.) (2016). Extending Naturalistic Decision Making: Reaching across domains, disciplines and applications. Special issue of *Journal of Cognitive Engineering & Decision Making.*

Mosier, K., & Fischer, U. (2015). Communication protocols to support collaboration in distributed teams under asynchronous conditions. *Proceedings of the 59th Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: HFES

Durso, F. T., Stearman, E. J.,\* Morrow, D. G., Mosier, K. L., Fischer, U, Pop, V. L.,\* & Feigh, K. M. (2015). Exploring relationships of human-automation interaction consequences on pilots: Uncovering subsystems. *Human Factors, 57,* 397-406.

Fischer, U., & Mosier, K. (2014). The impact of communication delay and medium on team performance and communication in distributed teams. *Proceedings of the Human Factors and Ergonomics Society 58th Annual Meeting.* Santa Monica, CA: HFES.

Mosier, K.L., Fischer, U., Morrow, D., Feigh, K., Durso, F., Sullivan, K., & Pop, V. (2013). Automation, task, and context features: Impacts on pilots’ judgments of human-automation interaction. *Journal of Cognitive Engineering and Decision Making, 7,* 377-399.

Mosier, K.L., & Fischer, U., Eds. (2011). *Informed by Knowledge:  Expert Performance in Complex Situations.* NJ: Taylor and Francis.

Mosier, K. L., & Fischer, U. M. (2010). Judgment and decision making by individuals and teams:  Issues, models and applications. In D. Harris (Ed.), *Reviews of Human Factors, Volume 6* (pp. 198-256)*.* Santa Monica, CA: Human Factors and Ergonomics Society.

Mosier, K. L., Skitka, L. J., Dunbar, M., & McDonnell, L. (2001). Air Crews and Automation Bias: The Advantages of Teamwork? *International Journal of Aviation Psychology, 11*, 1-14.

Skitka, L. J., Mosier, K. L., Burdick, M., & Rosenblatt, B. (2000). Automation bias and errors: Are crews better than individuals? *International Journal of Aviation Psychology, 10,* 83-95.

Mosier, K. L., Skitka, L. J., Heers, S., & Burdick, M. D. (1998). Automation bias: Decision making and performance in high-tech cockpits. *International Journal of Aviation Psychology, 8*, 47-63.

Mosier, K. L., & Skitka, L. J. (1996). Humans and Automation: Made for Each Other? In R. Parasuraman & M. Mouloua (Eds.), *Automation and Human Performance: Theory and Applications* (pp. 201-220). NJ: Erlbaum.

### **Selected External Grants and Contracts**

*Protocols for Asynchronous Communication in Space Operations: Communication Analyses and Experimental Studies.* NASA NRA grant, funded through GA Tech agreement, June, 2016-June, 2020. Kathleen L. Mosier, Co-Principal Investigator.

*Dynamic Information Management for Transport Operations.* Cooperative agreement/grant with NASA Ames Research Center, funded through San Jose State University Foundation. Kathleen L. Mosier, Principal Investigator. March 1, 2015-May 31, 2016.

*CRM Issues Surrounding Single-Pilot Operations for Transport Aircraft.* Cooperative agreement/grant with NASA Ames Research Center, funded through San Jose State University Foundation. Kathleen L. Mosier, Principal Investigator. April 1, 2013-June 31, 2014.

*Protocols for Asynchronous Communication in Space Operations: Communication Analyses and Experimental Studies.* NASA NRA grant, funded through GA Tech agreement, October, 2012-November, 2015. Kathleen L. Mosier, Co-Principal Investigator.