Kathleen L. Mosier, Ph.D.
Emeritus Professor of Psychology, San Francisco State University
Past President, International Ergonomics Association

TeamScape LLC
5669 Keith Avenue
Oakland, CA 94618, USA
Phone: 510.735.4846 Email: kmosier@sfsu.edu; kathleenmosier@yahoo.com

Education

University of California, Berkeley
Ph.D., Industrial/Organizational Psychology, December, 1990
Dissertation: *Decision Making on the Air Transport Flight Deck: Process and Product*
San Jose State University, San Jose, California
M.A., Psychology, 1983
University of Detroit, Detroit, Michigan
BA/MA, English, 1971, summa cum laude

Professional Experience

~ Founder and Principal Scientist, TeamScape LLC, 2016-present
~ Emeritus Professor of Psychology, San Francisco State University, 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.
Sample Courses:
Graduate Seminar in Organizational Psychology
Graduate Research Methods
Introduction to Industrial/Organizational Psychology
Human Motivation
~ Lecturer, University of California, Berkeley
Sample Courses:
Organizational Behavior (Graduate and Undergraduate courses), 1991-1992.
Introduction to Industrial/Organizational Psychology (Undergraduate course), 1995.
Expertise and Decision Making (Graduate seminar), 1996.
~ Senior Research Associate, San Jose State University Foundation (at NASA, ARC), 1994-1997.
~ Research Associate, Stanford University Center of Excellence (at NASA, ARC), 1990-1993.
~ Research Associate, San Jose State University Foundation (at NASA, ARC), 1989; 1983-1984.

Honors and Awards

Fellow, International Ergonomics Society
Fellow, Human Factors and Ergonomics Society
President's Award for Probationary Faculty, SFSU, Fall, 2001
Psi Chi National Honors Society, 1981-1983
National Honor Society, University of Detroit, 1967-1971
Dean's Key, University of Detroit, 1967-1971
President's Grant, University of Detroit, 1967-1971
General Motors Scholarship, University of Detroit, 1967-1971

Professional and Civic Activities

Professional Offices and Service

Chair of Awards Committee, International Ergonomics Association, 2021-2024

President, International Ergonomics Association, 2018-2021

Vice President and Secretary General, International Ergonomics Association, 2015-2018

President, Human Factors and Ergonomics Society, 2009-2010
Executive Council, Human Factors and Ergonomics Society, 2004-2007, 2008-2011
Associate Editor, *Journal of Cognitive Engineering & Decision Making*
Editorial Board, *Human Factors*
Editorial Board, *International Journal of Aviation Psychology*
Editorial Board, *International Journal of Applied Aviation Studies*
Consulting Board, *Journal of Applied Psychology*
Reviewer, *Journal of Experimental Psychology, Applied*
Ad Hoc Reviewer, Human Factors and Ergonomics Society conference proposals
Ad Hoc Reviewer, National Science Foundation (grant proposals)
Ad Hoc Reviewer, Society for Industrial/Organizational Society conference proposals
President, Association for Aviation Psychology, 1996-2000
Program Chair, Cognitive Engineering and Decision Making Technical Group, Human Factors and Ergonomics Society, 1995-1997
Chair (2000-2002), and Secretary/Treasurer (2003-2004), Aerospace Systems Technical Group, Human Factors and Ergonomics Society
Executive Council, Human Factors and Ergonomics Society, 2004-2006
Treasurer, Bay Area Applied Psychologists, 2000 - 2003

Professional Affiliations

Human Factors and Ergonomics Society
Association for Aviation Psychology
Australian Association for Aviation Psychology, 1998-2000
Society for Industrial and Organizational Psychology
American Psychological Society, 1998-2000
Western Psychological Association
Society for Judgment and Decision Making
Brunswik Society

SFSU Activities

University Graduate Council, 1999-2006. Chair, 2002-2008
University Academic Program Review Task Force, 2004-2005
University Task Force on Writing, 2004-2005
APC Subcommittee on the University Policy on Written English Proficiency, 2002-2003
University CUSP II Academic Experience Committee, 2003-2004
Psychology Department Retention/Tenure Committee, 2003-2006. Chair, 2004-2005.
University Women's Association Webmaster, 2003-present
Coordinator, MS Program in Industrial-Organizational Psychology, 1998-2005
Graduate and Undergraduate Coordinator, Psychology Department, Spring, 2000
Advisory Committee, Psychology Department, Spring, 1998; 2000-2002
University General Education Committee, 1998 - 1999
Psychology Department Graduate Review Writing Committee, Fall, 1997

Books

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

Articles highlighting research

Meyers, Morgan (2014). Improving communication on a cosmic scale. *InterSci*, 51-55.

Journal Special Issue

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

Journal Articles

Mosier, K., Fischer, U., & Marquez, J. (in preparation). *Negotiating Crew Autonomy during Space Operations: Stakeholder Perspectives*.

Fischer, U., & Mosier, K., Schmid, J., Smithsimmons, A., & Brougham, R. (2023). Braiding – A Novel Approach to Supporting Space/Ground Communication under Signal Latency. *Acta Astronautica*.

Mosier, K., & Fischer, U. (2021). Meeting the challenges of transmission delay: Communication protocols for space operations. *Human Factors*, *65(6)*, 1235-1250. DOI:10.1177/00187208211047085.

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.

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., Rettenmaier, P., McDearmid, M., Wilson, J., Mak, S., Raj, L., & Orasanu, J. (2013). Pilot/ATC Communication Conflicts: Implications for NextGen. *International Journal of Aviation Psychology, 23*, 213-226.

Sullivan, K. B., Feigh, K. M., Mappus, R., Durso, F. T., Fischer, U., Pop, V., Mosier, K. L., & Morrow, D. G. (2013). Using neural networks to assess flight deck human-automation interaction. *Reliability Engineering and Systems Safety, 114*, 26-35.

Mosier, K. L., & Fischer, U. M. (2010). The role of affect in Naturalistic Decision Making. *Journal of Cognitive Engineering and Decision Making, 4*, 240-255.

Mosier, K. L. (2009). Searching for coherence in a correspondence world. *Journal of Judgment and Decision Making, 4(2),* 154-163.

Khoo, L., & Mosier, K. (2008). The impact of time pressure and experience on information search and decision-making processes. *Journal of Cognitive Engineering and Decision Making, (2)*, 275-294.

Mosier, K., Sethi, N, McCauley, S., Khoo, L., & Orasanu, J. (2007). What You Don't Know CAN Hurt You: Factors Impacting Diagnosis in the Automated Cockpit. *Human Factors, 49*, 300-310.

Jacobson, C., & Mosier, K. L. (2004). Coherence and correspondence decision making in aviation: A study of pilot incident reports. *International Journal of Applied Aviation Studies, 4(2)*, 123-134.

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)*, 1-14.

Mosier, K. L., Keyes, J., & Bernhard, R. (2001). Information presentation and cognitive response in the automated cockpit. *International Journal of Aviation Research and Development, 1(2)*, 117-134.

Skitka, L. J., Mosier, K. L., & Burdick, M. (2000). Accountability and automation bias. *International Journal of Human-Computer Studies, 52,* 701-717.

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(1),* 83-95.

Skitka, L. J., Mosier, K. L., & Burdick, M. (1999). Does automation bias decision making? *International Journal of Human-Computer Studies 50,* 991-1006.

Featured also in *New Scientist Magazine*, November 6, 1999, and *Air Safety Week*, November 15, 1999. (also featured on *National Public Radio*, November 7, 1999)

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.
Featured also in *APA Monitor*, July, 1998.
Reprinted in D. Harris & W. Li (Eds., 2015). *Decision making in aviation* (pp.). Burlington, VT: Ashgate

Nemeth, C., Mosier, K., & Chiles, C. (1992). When convergent thought improves performance: Majority versus minority influence. *Personality and Social Psychology Bulletin, 18 (2),* 139-144.

Zedeck, S., & Mosier, K. L. (1990). Work in the family and employing organizations. *Special issue of the American Psychologist, 45*, 240-251.

Zedeck, S., Maslach, C., Mosier, K., & Skitka, L. (1988). Affective response to work and quality of family life: Employee and spouse perspectives. *Special issue of the Journal of Social Behavior and Personality, 3(4),* 135-158.
Reprinted in E. B. Goldsmith (Ed.), (1989). *Work and family: Theory, research, and applications.* CA: Sage Publications.

Book Chapters

Burian, B. K., Mosier, K. L., Fischer, U. M., & Kochan, J.A. (2023). New teams on the flight deck: Humans and context-sensitive information automation. In J. R. Keebler, E. H. Lazzara, K. A. Wilson, & E. L. Blickensderfers (Ed.), *Human Factors in Aviation and Aerospace, 3rd Ed.* San Diego, CA: Academic Press.

Prineas, S., Mosier, K., Mirko, C., & Guicciardi, S. (2021). Non-technical skills in healthcare. In L. Donaldson, W. Ricciardi, S. Sheridan, & R. Tartaglia (Eds.), *Textbook of patient safety and clinical risk management* (pp. 413-434). Switzerland: Springer. https://doi.org/10.1007/978-3-030-59403-9

Mosier, K. L., & Manzey, D. (2020). 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* (pp. 19-41). Boca Raton, FL: CRC Press

Fischer, U., & Mosier, K. (2020). Teamwork in spaceflight operations. In P. Ward, J. M. Schraagen, J. Gore, & E. Roth (Eds.), *The Oxford handbook of expertise: Research & application* (pp. 830-849). UK: Oxford University Press. DOI: 10.1093/oxfordhb/9780198795872.013.36

Fischer, U. & Mosier, K. (2020). Mitigating the impact of communication delay. In In L. B. Landon, K. J. Slack, & E. Salas (Eds.), *Psychology and Human Performance in Space Programs*. Elsevier.

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.

Mosier, K. L., & Munc, A. (2014). NASA NextGen flightdeck research: A database of research areas and results. In M. A. Vidulich, P. S. Tsang, and J. M. Flach (Eds.), *Advances in Aviation Psychology, Vol. 1* (pp. 51-68). Ashgate.

Mosier, K. L. (2013). Judgment and Prediction. In J. D. Lee and A. Kirlik (Eds.), *The Oxford Handbook of Cognitive Engineering* (pp. 68-87). NY: Oxford University Press.

Mosier, K. L., Fischer, U., & Orasanu, J., (2013). Expertise, cognition, and CRM issues in NextGen automation use. In S. J. Landry (Ed.). *Advances in human aspects of aviation* (pp. 361-372). Boca Raton, FL: CRC Press.

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.
Reprinted in D. Harris & W. Li (Eds., 2015). *Decision making in aviation* (pp. 139-197). Burlington, VT: Ashgate.

Mosier, K. L., (2010). The Human in Flight: From Kinesthetic Sense to Cognitive Sensibility. In E. Salas & D. Maurino (Eds.), *Human Factors in Aviation* (pp. 147-173). Burlington, MA: Elsevier.

Mosier, K. L. (2008). Technology and "naturalistic" decision making: Myths and realities. In J. M. Schraagen, L. Militello, T. Ormerod, & R. Lipshitz (Eds.), *Macrocognition and naturalistic decision making* (pp. 41-54). VT: Ashgate.

Mosier, K. L., & McCauley, S. T. (2006). Achieving coherence: Meeting new cognitive demands in technological systems. In A. Kirlik (Ed.), *Adaptation in Human-Technology Interaction: Methods, Models and Measures.* Oxford University Press. (pp. 163-174)

Cesna, M., & Mosier, K. L. (2005). Using a prediction paradigm to compare levels of expertise and decision making among critical care nurses. In B. Brehmer, R. Lipshitz, & H. Montgomery (Eds.), *How do professionals make decisions*? NY: Lawrence Erlbaum. (pp. 107-118)

Mosier, K. L., Keyes, J., & Bernhard, R. (2003). Dealing with conflicting information: Will crews rely on automation? In G. Edkins and P. Pfister (Eds.), *Innovation and consolidation in aviation: Selected contributions to the Australian Aviation Psychology Symposium 2000* (pp. 243-253).
Also published in Proceedings of the Fifth Australian Aviation Psychology Symposium, November, 2001, Manly, Australia.

Mosier, K. L. (2002). Automation and cognition: Maintaining coherence in the electronic cockpit. In E. Salas (Ed.), *Advances in Human Performance and Cognitive Engineering Research, Volume 2.* Elsevier Science Ltd. (pp. 93-121)

Mosier, K. L., Skitka, L. J., Heers, S. & Burdick, M. (1997). Patterns in the use of cockpit automation. In M. Mouloua & J. Koonce (Eds.), *Human-Automation interaction: Research and Practice*. Hillsdale, NJ: Lawrence Erlbaum Assoc., Inc. (pp. 167-173).

Mosier, K. L. (1997). Myths of Expert Decision Making and Automated Decision Aids. In C. Zsambok & G. Klein (Eds.), *Naturalistic Decision Making* (pp. 319-330). Mahwah, NJ: Erlbaum.

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.

Mosier, K. L., & Skitka, L. J. (1995). Automation and accountability. In N. McDonald, N. Johnston, & R. Fuller (Eds.), *Applications of Psychology to the Aviation System.* England: Ashgate Publishing, Ltd.

Mosier, K. L., Skitka, L. J., & Korte, K. J. (1994). Cognitive and social psychological issues in flight crew/automation interaction. In M. Mouloua & R. Parasuraman (Eds.), *Human performance in automated systems: Current research and trends* (pp. 191-197). NJ: Erlbaum.

Proceedings and Other Publications

Fischer, U., & Mosier, K. (2020). Examining teamwork of space crewmembers and mission control personnel under crew autonomy: A multiteam system perspective. Proceedings of the Human Factors and Ergonomics Society Annual Meeting 64(1):164-168 DOI: 10.1177/1071181320641041

Banks, C. G., Mosier, K. L., Kennedy, K. J., Miller, C., & Imada, A. S. (2019). It takes partners to create solutions management wants. *Proceedings of the 63rd Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: HFES

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

Fischer, U. & Mosier, K. (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

Gonzalez, K., Mosier, K., Lam, J., & Fischer, U. (2015). Characteristics impacting teamwork and performance for space operations. *Proceedings of the 59th Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: HFES.

Ligda, S. F., Fischer, U., Mosier, K., Matessa, M., Battiste, V., & Johnson, W. (2015). Effectiveness of advanced collaboration tools on crew communications in reduced-crew operations. *Proceedings of HCI International 2015*. Springer.

Mosier, K., & Fischer, U. (2014). Impact of communication delay on collaborative task performance. *Proceedings of the Human Factors and Ergonomics Society 58th Annual Meeting.* Santa Monica, CA: HFES.

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.

Fischer, U., Miller, C., Morrow, D., Mosier, K., Orasanu, J., & Veinott, B. (2013). Exploring communication in remote teams: Issues and methods. In *Proceedings of the Human Factors and Ergonomics Society 57th Annual Meeting* (pp. 309-313). Santa Monica, CA: HFES.

Fischer, U., Mosier, K., & Orasanu, J. (2013). The impact of transmission delays on Mission Control – Space Crew communication. In *Proceedings of the Human Factors and Ergonomics Society 57th Annual Meeting* (pp. 1372-1376). Santa Monica, CA: HFES.

Fischer, U, Mosier, K., & Orasanu, J. (2013). Issues of grounding and team coordination in asynchronous mission control-space crew interactions. In H. Chaudet, L. Pellegrin , and N. Bonnardel (Eds.), *Proceedings of the 11th International Conference on Naturalistic Decision Making* (pp. 193-196). Paris, France: Arpege Science Publishing.

Mosier, K. L., Munc, A., Reich, K., Fox, D., Swarts, J., Tomko, O'Neill, M., & Cunningham, K. (2013). NASA NextGen flightdeck research: A database of research areas and results. *Proceedings of the 17th International Symposium on Aviation Psychology*. Dayton, OH: Wright State University.

Mosier, K.L., Fischer, U., & the HART Group (2012). Automation, Task and Context Features: Impacts on Pilots' Perceptions of Human-Automation Interaction. *Proceedings of the 56th Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: HFES

Sullivan, K. B., Feigh, K. M., Durso, F. T., Fischer, U., Morrow, D., Mosier, K. L, Blosch, J., & Pop, V. (2011). Using neural networks to assess human-automation interaction. *Proceedings of the 30th IEEE Digital Avionics Systems Conference.*

Mosier, K.L., Fischer, U., Cunningham, K., Munc, A., Reich, K., Tomko, L., & Orasanu, J. (2012). Aviation decision making: Evidence from ASRS and NTSB reports. *Proceedings of the 56th Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: HFES.

Mosier, K. L., Rettenmaier, P. McDearmid, M., Wilson, J. Mak, S., Raj, L., Orasanu, J. (2010). Pilot/ATC Communication Conflicts: Implications for NextGen. *Proceedings of the 54th Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: HFES.

Mosier, K. L., & Fischer, U. M. (2009). Does affect matter in Naturalistic Decision Making? *Proceedings of the 9th International Conference on Naturalistic Decision Making*, London, June 23-26.

Mosier, K. L., Bartholomew, M., Weng, E., & Xavier, L. (2007). Risk, ambiguity, and information use in a decision dilemma. *Proceedings of the 51st Annual Meeting of the Human Factors and Ergonomics Society*, Baltimore, MD, October 1-5.

Mosier, K. L. (2005). The impact of technology on 'naturalistic' decision making. *Proceedings of the 7th International Conference on Naturalistic Decision Making, Amsterdam, The Netherlands (June 15-17, 2005).*

Khoo, Y-L., and Mosier, K. (2005). Searching for Cues: Factors Affecting the Decision-Making Processes of Regional Airline Pilots. *Proceedings of the 49th Annual Meeting of the Human Factors and Ergonomics Society, September 29, Orlando, FL.*

Mosier, K. L., Kirlik, A., Bisantz, A., Pritchett, A., & Rothrock, L. (2004). Brunswik's lens model in human factors research: Modern applications of a classic theory. *Proceedings of the 48th Annual Meeting of the Human Factors and Ergonomics Society*, New Orleans, LA.

Mosier, K., Lyall, E., Sethi, N, Wilson, J., McCauley, S., Harron, G., Khoo, L., Hecht, S., Richards, J., & Orasanu, J. (2003). Factors Impacting Coherence in the Automated Cockpit. *Proceedings of the 47th Annual Meeting of the Human Factors and Ergonomics Society*, Denver, CO, October 13-17.

Mosier, K. L., Bernhard, R., & Keyes, J. (2001). Cognition in the cockpit: In need of a theory. In R. Jensen (Ed.), *Proceedings of the Eleventh International Symposium on Aviation Psychology*, Columbus, OH, March 5-9.

Mosier, K. L. (2001). Cognition in the automated cockpit: A coherence perspective. *Proceedings of the 45th Annual Meeting of the Human Factors and Ergonomics Society,* Minneapolis, MN, October 8-12.

Mosier, K. L., & Skitka, L. J. (1999). Automation use and automation bias. *Proceedings of the 43rd Annual Meeting of the Human Factors and Ergonomics Society*, Houston TX, September 27-October 1, pp. 344-348.

Mosier, K. L., Skitka, L. J., Dunbar, M., McDonnell, L., Burdick, M., & Rosenblatt, B. (1998). Automation Bias and Errors: Are Teams Better than Individuals? *Proceedings of the 42nd Annual Meeting of the Human Factors Society*, Chicago, IL, October 5-9. pp. 201-205.

Mosier, K. L., Skitka, L. J., Burdick, M. D., & Heers, S. T. (1996). Automation bias, accountability, and verification behaviors. *Proceedings of the Human Factors and Ergonomics Society 40th Annual Meeting*, Philadelphia, PA, pp. 204-208.

Mosier, K. L., Skitka, L. J., & Heers, S. T. (1995). Automation and accountability for performance. In R. Jensen (Ed.), *Proceedings of the Eighth International Symposium on Aviation Psychology*, Columbus, Ohio, pp. 221-226.

Mosier, K. L., & Zacharias, G. L. (1993). Flight Performance Measurement Utilizing a Figure of Merit (FOM). In R. Jensen (Ed.), *Proceedings of the Seventh International Symposium on Aviation Psychology*, Columbus, OH.

Mosier, K. L., Palmer, E. A., & Degani, A. (1992). Electronic Checklists: Implications for Decision Making. *Proceedings of the 36th Annual Meeting of the Human Factors Society*, Atlanta, GA, October 12-16, pp. 7-12.

Zacharias, G. L., Riley, E. W., & Mosier, K. L. (1992). Timeline Analysis for Behavioral Representation of Datalink Operations. Final Report No. R90331, Contract No. NAS2-13375.

Mosier, K. (1991). Expert Decision-Making Strategies. In R. Jensen (Ed.), *Proceedings of the Sixth International Symposium on Aviation Psychology*, Columbus, OH.

Mosier, K. L., & Chidester, T. R. (1991). Situation assessment and situation awareness in a team setting. *Designing for Everyone: Proceedings of the 11th Congress of the International Ergonomics Association*, Paris, 15-20 July, pp. 798-800.

Mosier-O'Neill, K. (1989). A contextual analysis of pilot decision making. In R. Jensen (Ed.), *Proceedings of the Fifth International Symposium on Aviation Psychology,* Columbus, OH, pp. 371-376.

Mosier, K., & Hart, S. G. (1985). Levels of information processing in a Fitts' law task (LIPFitts). *Proceedings of the 21st Annual Conference on Manual Control,* Columbus, OH.

Craig [Mosier], K. (1982). Instrument position control manipulation (IPCOM II): Helicopter pilot response as a function of control-display compatibility. *Proceedings of the 18th Annual Conference on Manual Control.*

Invited Professional Presentations

Mosier, K. (2023, May). Human-Centered Technology. CA Labor Lab conference, *Surveillance, Monitoring, and Data Gathering in Contemporary Employment*.

Mosier, K., & Fischer, U. (2022). *Earth to Mars: Remote Teams in Space Operations*. Presentation at the San Francisco State University Psychology Department Invited Colloquium Series.

Mosier, K., & Fischer, U. (2022). *Remote Teams at Work.* 20 Convencion Cientifica de Ingenieria y Arquitectura, Havana, Cuba, December 1.

Mosier, K. (2022). *IEA/WHO Collaboration for Patient Safety*. Conference of Health Care Ergonomics and Patient Safety Technical Committee, IEA, Delft, The Netherlands, November 4.

Mosier, K. (2022) Human Factors/Ergonomics for Future of Work in the State Court System.

Mosier, K., & Fischer, U. (2022). *Space Crew Autonomy, Communication, Decision Making, Within the Multi-Team System*. Paper presented at the first Open House Conference of the Naturalistic Decision Making Association, April 25.

Mosier, K. L. (2021). Welcome Address, IEA 2021. Opening plenary session, June.

Mosier, K. L. (2020). Trends and Challenges for Human Factors/Ergonomics in the Future of Work. beyondwork 2020 european conference on labour research. German Federal Ministry of Education and Research.

Mosier, K. L. (2018). *HFE Issues in the Future of Work*. Keynote address at Ergonomics and Human Factors 2019, Chartered Institute of Ergonomics and Human Factors, Stratford-upon-Avon.

Mosier, K. L. (2017). *Cognitive engineering and decision making: The lessons learned from non-healthcare settings*. Presentation at the Congress of the ITNS Italian Chapter of the Italian Society for Safety and Quality in Transplantation, Florence, Italy.

Mosier, K. L., & Fischer, U. M. (2016). From the lab to Mars: Protocol development for Asychronous Communication in Space Operations. Presentation at the 5th Annual Meeting of the Human Factors and Ergonomics Society

Mosier, K. (2016). *Introduction to Cognitive Engineering*. Invited keynote address at the XVIII International Congress on Ergonomics, Tijuana, Baja California, Mexico

Mosier, K., & Fischer, U. (2016). *Protocols for Asynchronous Communication in Space Operations*. Presentation at the 2016 NASA Human Research Program Investigators' Workshop, Galveston, TX.

Durso, F., Mosier, K., et al. (2015). *Human Systems Integration: Research and Promotion*. Panel presentation at the 19th Triennial Congress of the International Ergonomics Association, Melbourne, Australia.

Mosier, K. (2015). *The Quest for a Safer and More Efficient Sky: Theory and Practice. Plenary Researcher Panel,* 18th International Symposium on Aviation Psychology. Dayton, OH.

Fischer, U., & Mosier, K. (2015). *Communication Protocols to Support Space-Ground Collaboration during Long-Duration Exploration Missions*. Presentation at the NASA Human Research Program Investigators' Workshop, Galveston, TX.

Fischer, U., & Mosier, K. (2014). Communication and Performance under Time Delay Conditions. Presentation at the NASA Human Research Program Investigators' Workshop, Galveston, TX.

Mosier, K. L. (2011). *Engineered Environments: Implications of the Hybrid Ecology.* Presentation at the Automation and Human Performance Research Summit, Moline, IL, November 7.

Mosier, K. L. (2011). *Presidential Forum: Human Factors in NextGen Operations: Progress and Perspectives.* Panel organized for the 55th Annual Meeting of the Human Factors and Ergonomics Society, Las Vegas, NV, September 19-23.

Mosier, K. L. (2010). *Human Factors in Aviation: A Brief (Selective) History*. Presidential Address at the 54th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA, September 27-October 1.

Mosier, K. L. (2009). *Automation Use and Automation Bias: Lessons from Aviation*. Presentation at the Center for Operator Performance, Richmond, CA, November 4.

Professional Presentations

Mosier, K., Fischer, U., Mueller, S., & Veinott, B. (2022). *Building Shared Perceptions of Teamwork across Time.* 66th Annual Meeting of the Human Factors and Ergonomics Society.

Mosier, K., & Fischer, U. (2022). *Space Crew Autonomy, Communication, and Decision Making within the Multi-Team System*. First Open House Conference of the Naturalistic Decision Making Association.

Mosier, K., & Fischer, U. (2021, October). *Space Crew Autonomy and the Multi-Team System*. 65th Annual Meeting of the Human Factors and Ergonomics Society, Baltimore, MD.

Mosier, K., & Fischer, U. (2019). *Teams and Teamwork in Space Operations*. Presentation at the 63rd Annual Meeting of the Human Factors and Ergonomics Society.

Mosier, K. & Fischer, U. (2016, September). From the lab to Mars: Protocol development for asynchronous communication in space operations. 64th Annual Meeting of the Human Factors and Ergonomics Society, Washington, DC.

Mosier, K. L., & Fischer, U. (2016). *Supporting Communication and Space-Ground Collaboration during Long Duration Exploration Missions*. SIOP 2016, Anaheim, CA.

Mosier, K., & Fischer, U. (2015). *The Challenges of Asynchronous Communication for Distributed Teamwork: Task Performance and Media Effects.* 12th International Conference on Naturalistic Decision Making, McLean, VA.

Mosier, K. & Fischer, U. (2015). *Single Pilot Operations: A New Frontier for CRM/TEM*. 18th International Symposium on Aviation Psychology, Dayton, OH.

Gonzalez, K., & Mosier, K. (2015). *Characteristics fostering effective teamwork in space flights*. Western Psychological Association. Las Vegas, NV.

Mosier, K. L. (2014) *Decision Making and Communication across Time and Space: Lessons from NASA*. Modern Management Methods LKNA14 Conference, San Francisco, CA.

Mosier, K. L. & Fischer, U. M. (2014). *Issues and recommendations for CRM/TEM in SPO*. HCI Aero, 2014.

Fischer, U., & Mosier, K. (2014). Communication and Performance under Time Delay Conditions. Presentation at the NASA Human Research Program Investigators' Workshop, Galveston, TX.

Fischer, U., Mosier, K., & Orasanu, J. (2013). *Issues of Grounding and Team Coordination in Asynchronous Communication.* 21st International Conference on Naturalistic Decision Making, Marseille, France.

Pop, V. L., Ferguson, A. N., & the HART Group. (2012). Pilots' perceptions of human automation interaction. *Presentation at the Meeting of the Aerospace Medical Association*, Atlanta, GA.

Mosier, K. L., Durso, F., Fischer, U., Lyall, B., & the HART Group (2011). *Converging and Complementary Methods for Eliciting Expertise.* Panel organized for the 20th International Conference on Naturalistic Decision Making, Orlando, FL, June 1-4.

Durso, F. T., Pop, V. L., Mosier, K. M., Feigh, K., Fischer, U., Morrow, D., Sullivan, K., Blosch, J., & Wilson, J. (2011). Toward predicting pilot-automation coordination interactions. *Presentation at the Meeting of the Aerospace Medical Association,* Anchorage, AK.

Fischer, U., Mosier, K. L. & the HART Group (2011). *Toward a Human-Automation Relationship Taxonomy.* Presentation at International Symposium on Aviation Psychology. Dayton, OH, May 1-4.

Pop, V. L., Durso, F. T., Feigh, K., Fischer, U., Morrow, D., Mosier, K., Sullivan, K., Blosch, J., & Wilson, J. (2011). Elaborating human factors concepts, guidelines, and concerns for characterizing flight deck automation*, Presentation at the 55th Annual Meeting of the Human Factors and Ergonomics Society,* Las Vegas, NV.

Sullivan, K. B., Feigh, K. M**.**, Durso, F. T., Fischer, U., Pop, V. L., Mosier, K., Blosch, J., & Morrow, D. (2011) *Using Neural Networks to Assess Human-automation Interaction.* IEEE: Digital Avionics and Systems Conference.

Mosier, K. L. (2009). *Microcognition, macrocognition, and metacognition.* Panel presentation at the 53rd Annual Meeting of the Human Factors and Ergonomics Society, San Antonio, TX, October 19-23.

Mosier, K. L., Rettenmaier, P., McDearmid, M., Ng, S., Wilson, J., Mak, S., & Orasanu, J. (2009). *Effects of operator state on pilot/ATC conflict.* Presentation at the 9th International Conference on Naturalistic Decision Making, London, June 23-26.

Mosier, K. L., Rettenmaier, P., McDearmid, M., Ng, S., Wilson, J., Mak, S., & Orasanu, J. (2009). *Operator Affective States Associated with Risk Perception*. Presentation at the Western Psychological Association Conference, Portland, OR, April 23-26.

Mosier, K. L. (2003). *Coherence and correspondence: Complementarity in the context of technological advances*. Presented at the 19th International Meeting of the Brunswik Society, Vancouver, BC, November 6-7.

Also served as discussant in Panel Session: *Coherence and correspondence approaches to J/DM: How can we do more to integrate them?*

Mosier, K. L., Naranjo, E. L., & Yasuda, D. L. (2002). *Fairness perceptions of organizational family-responsive policies*. Presented at the 17th Annual Conference of the Society for Industrial and Organizational Psychology, April 12-14, Toronto, Canada.

Presented also at the San Francisco State University BSS Faculty Lecture Series, April 30, 2002.

Mosier, K. L. (2001). *Coherence/correspondence and CCT in the automated cockpit*. Invited presentation at the 17th Annual International Meeting of the Brunswik Society, Orlando, FL, November 15-16.

Mosier, K. L. (2000). *Automation and cognition*. Invited presentation at the NASA Human Error Modeling Workshop, Moffett Field, CA, June 22-23.

Mosier, K. L., & Skitka, L. J. (1999). *Exploring automation bias in multiple environments*. Presented at the annual meeting of the Society for Judgment and Decision Making, Los Angeles, CA, Nov. 21.

Rosenblatt, B. L, Skitka, L.J., Mosier, K. L., & Burdick, M. D. (1998). *Automation bias reduced through training*. Presented at the 10th Annual Convention of the American Psychological Society, Washington, DC.

Mosier, K. L., Skitka, L. J, Dunbar, M., McDonnell, L., & Burdick, M. (1997). *Automation bias in professional flight crews (and others).* Invited presentation at the Thirteenth Annual International Invitational Meeting of The Brunswik Society, Philadelphia, PA, November 22.

Mosier, K. L., Skitka, L. J., Dunbar, M., & McDonnell, L. (1997). *Automation bias and countermeasures in flight crews*. Presented at the Ninth International Symposium on Aviation Psychology, Columbus, Ohio

Burdick, M.D., Skitka, L.J., and Mosier, K.L. (1997). *The debiasing effects of accountability and feedback on automation bias*. Presented at the 41st annual meeting of the Human Factors and Ergonomics Society, Albuquerque, NM, October.

Maslach, C., Zedeck, S., Skitka, L. J., & Mosier, K. (1997). *Health outcomes of job burnout*. Eighteenth Annual Scientific Sessions of the Society of Behavioral Medicine, San Francisco, CA, April 18.

Mosier, K. L., Skitka, L. J., Burdick, M. D., & Heers, S. (1996). *Decision making in a high-tech world: Automation bias and countermeasures*. Annual Conference of the Society for Judgment and Decision Making, Chicago, IL, November 3.

Mosier, K. (1995). *Use of automated cues in the cockpit.* Invited presentation at the Eleventh Annual International Invitational Meeting of the Brunswik Society, Los Angeles, CA, November 11.

Mosier, K. (1995). *Naturalistic Decision Making: A Domain-Integrated Overview.* Panel presentation at the 39th Annual Meeting of the Human Factors and Ergonomics Society, San Diego, CA, Oct. 9-13.

Skitka, L. J., & Mosier, K. L. (1994). *Automation bias: When, where, why?* Annual Conference of the Society for Judgment and Decision Making.

Heers, S. T., Marchioro, C. A., Mosier, K. L., & Skitka, L. J. (1994). *Automation and Accountability in a Low Fidelity Flight Task*. 38th Annual Meeting of the Human Factors and Ergonomics Society, Nashville, TN, October 24-28.

Mosier, K. (1993). *Who (or What) is doing the Managing in Cockpit Resource Management?* 37th Annual Meeting of the Human Factors and Ergonomics Society, Seattle, WA, Oct. 11-15.

Zacharias, G. L., Riley, E. W., Miao, A. X., & Mosier, K. L. (1992). *Timeline Analysis and Modeling of Datalink Simulation*. Presented at the Third Ames Aviation Safety/ Automation Program Investigator's Meeting, NASA Ames Research Center, Moffett Field, CA, August 19-21.

Mosier, K. L. (1992). *Measuring Crew Situation Assessment*. Presented at the Third Ames AS/A Program Investigators' Meeting, NASA Ames Research Center, Moffett Field, CA, August 19-21.

Mosier, K. L. (1991). *Measures of Crew Situation Assessment.* Second Ames Aviation Safety/ Automation Program Investigators' Meeting, NASA Ames Research Center, Moffett Field, CA, August.

Mosier, K. L. (1990). *Approaches to studying crew productivity and group processes using high fidelity simulators: Decision making on the flight deck*. Twelfth Psychology in the DoD Symposium, Colorado Springs, CO.

Skitka, L. J., Mosier, K. L., Maslach, C., & Zedeck, S. (1990). *Job stress: Is it all in your head?* Annual conference of the Western Psychological Association, Los Angeles, CA.

Mosier, K. L., Skitka, L. J., Zedeck, S., & Maslach, C. (1989). *Supervision and comfort: Salient aspects of working life*. Joint Annual Convention of the Western Psychological Association and the Rocky Mountain Psychological Association, Reno, Nevada.

Banks, C., May, K., & Mosier, K. (1989). *Development and content validation of multiple-test selection procedures.* Annual conference of the Society of Industrial/Organizational Psychologists.

Mosier, K., & Zedeck, S. (1988). *Job satisfaction: The other perspective.* Western Psychological Association Annual Conference, Burlingame, CA.

External Grants and Contracts

Supporting Collaboration and Connectedness between Space and Ground at Lunar Latencies. NASA NRA grant, funded through GA Tech agreement, 3/1/25-4/30/26. Kathleen L. Mosier, Co-Principal Investigator. ($62,000)

Negotiating Crew Autonomy in Space Operations. NASA NRA Omnibus grant to TeamScape LLC., 3/28/2024-9/30/2025. Kathleen L. Mosier, Principal Investigator. ($149,000)

Technological Support for Crew/MCC Communication and Collaboration. NASA NRA Omnibus grant, funded through GA Tech agreement, June, 2016-September, 2023. Kathleen L. Mosier, Co-Principal Investigator. ($52,566)

Understanding Key Components of Successful Autonomous Space Missions. NASA NRA grant, funded through GA Tech agreement, June, 2016-September, 2023. Kathleen L. Mosier, Co-Principal Investigator. ($300,718)

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. ($117,700)

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. ($145,930)

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. ($449,048)

NASA/FAA Research Database. NASA Ames Research Center Cooperative Agreement, October 1, 2011-September 30, 2012. Kathleen L. Mosier, Principal Investigator ($91,103).

Decision Making Capabilities and Limitations (FAA NextGen Topic 12-04). NASA Ames Research Center Cooperative Agreement. May 1, 2010- December 31, 2011. Kathleen L. Mosier, Principal Investigator ($126,899).

HART: Human Automation Relationship Taxonomy. Funded by FAA through GA Tech agreement, May 1, 2010 – August 31, 2011. Kathleen L. Mosier, SFSU Principal Investigator ($82,605).

Training for Automation Use. NASA Ames Research Center, Aviation Safety Program, February, 1999 – August, 2003, NAG2-1285. Kathleen L. Mosier, Principal Investigator; Elizabeth Lyall, Co-Investigator. ($363,000)

Automation: Decision Aid or Decision Maker? NASA Ames Aerospace Human Factors Research Division, Cooperative Research Grant, NCC2-237, October, 1993 – September, 1997. Principal Investigator, Linda J. Skitka; Kathleen L. Mosier, NASA Ames on-site Principal Investigator.

Technical Reports

Fischer, U., Mosier, K., & Schmid. J. (pending). *Supporting Collaboration and Connectedness between Space and Ground at Lunar Latencies.* Final Report on Cooperative Agreement #80NSSC25K7247, NASA Johnson Space Center.

Mosier, K., Fischer, U., & Marquez, J. (2026). *Negotiating Crew Autonomy during Space Operations.* Final Report on Cooperative Agreement #80NSSC24K0442, NASA Johnson Space Center.

Fischer, U., Mosier, K., Mueller, S., & Veinott, E. (2024). *Understanding Key Components of Successful Autonomous Space Missions*. Final Report on Cooperative Agreement NNX16AM16G. NASA Johnson Space Center.

Fischer, U., & Mosier, K. (2016). *Protocols for Ansychronous Communication in Space Operations: Communication Analyses and Experimental Studies.* Final Report on Cooperative Agreement NNX12AR19G. NASA Johnson Space Center.

Mosier, K., Fischer, U., Burian, B., & Kochan, J. (2017). *Autonomous, Context-Sensitive, Task Management Systems and Decision Support Tools I: Contextual Constraints and Information Sources.* NASA/TM-2017-219565. NASA Ames Research Center.

Mosier, K. L., & Fischer, U. M. (2014). *CRM Principles and Practices for SPO*. Final report, NASA Agreement #NNX12AB08A, SJSURF Acct #21-1614-4877-SFSU. Submitted to Dr. Walter Johnson, NASA Ames Research Center.

Mosier, K. L., & Fischer, U. (2014). CRM Principles and Practices for SPO: CRM Interviews and Observations. Final report, NASA Agreement #NNX12AB08A, SJSURF Acct #21-1614-4877-SFSU. Submitted to Dr. Walter Johnson, NASA Ames Research Center.

Mosier, K. L. (2012). *NextGen Flight Deck Research Database*. Final report, NASA Cooperative Agreement NNX10AK52A. NextGen Flight Deck Research Project. Submitted to Dr. Tom McCloy, Scientific and Technical Advisor for Human Factors, FAA Human Factors Research and Engineering, ATO-P. Barbara Burian, NASA Technical Monitor. SFSU Research Associates: Kerry Cunningham, Danielle Fox, Alec Munc, Matthew O'Neill, Kendra Reich, James Swarts, Linda Tomko

Orasanu, J., Mosier, K., & Fischer, U. (2012). *Recommended Updates to FAA Advisory Circular No. 120-51E on Crew Resource Management.* FAA/NASA NextGen Flight Deck Human Factors Research, Interagency Agreement #DTFAWA-10-X-80005, Annex 9. Submitted to Dr. Tom McCloy, Scientific and Technical Advisor for Human Factors, FAA Human Factors Research and Engineering, ATO-P.

Mosier, K. L., Fischer, U., & Orasanu, J. (2011). *Flight Crew Decision Making: Now and NextGen.* Interim Report, FAA/NASA NextGen Flight Deck Human Factors Research, Interagency Agreement #DTFAWA-10-X-80005, Annex 9. Submitted to Dr. Tom McCloy, Scientific and Technical Advisor for Human Factors, FAA Human Factors Research and Engineering, ATO-P. SFSU Students: Christine Thomas, Kerry Cunningham, Stanton Mak, Matthew McDearmid, Joanna Smith.

The HART Group (2011). *Automation in the Cockpit: Toward a Human-Automation Relationship Taxonomy.* Interim Report, FAA cooperative agreement DTFAWA-10-C-00084. Submitted to Dr. Tom McCloy, Scientific and Technical Advisor for Human Factors, FAA Human Factors Research and Engineering, ATO-P. The HART group comprises researchers from Georgia Tech, SFSU, and University of Illinois: Francis T. Durso, Karen Feigh, Ute Fischer, Daniel Morrow, Kathleen Mosier.