

Curriculum Vitae

ROBERT KEY DISMUKES

PROFESSIONAL EXPERIENCE

2010-present	Consultant
1991-2010	Chief Scientist, Human Systems Integration Division NASA-Ames Research Center
1989-1991	Chief, Aerospace Human Factors Research Division NASA-Ames Research Center
1983-1989	Director of Life Sciences Air Force Office of Scientific Research
1979-1983	Study Director, Committee on Vision National Academy of Sciences-National Research Council
1977-1979	Staff Scientist, Neurosciences Research Program Massachusetts Institute of Technology
1976-1977	National Endowment for the Humanities Fellow Institute of Society, Ethics, and the Life Sciences, Hastings, New York
1975-1976	Visiting Faculty, Department of Pharmacology Free University Medical Faculty, Amsterdam
1973-1975	Staff Fellow, Pharmacodynamics Section NIAMDD, National Institutes of Health
1972-1973	Postdoctoral Fellow, Department of Pharmacology The Johns Hopkins University School of Medicine
1966-1968	1st Lieutenant, U. S. Army

EDUCATION

B.S.	1964	North Georgia College	Physics
M.A.	1966	Vanderbilt University	Physics
Ph.D.	1971	Pennsylvania State University	Biophysics

PROFESSIONAL AWARDS

Laura Tabor Barbour Air Safety Award (2013)

Air Line Pilots Association International Award for contributions to human factors and airline pilot training (2013)

NASA Exceptional Achievement Medal (2005)

NASA Ames Research Center Mentor Award (2003)

RELATED PROFESSIONAL EXPERIENCE

Member, Industry Working Group on Improving Flight Path Monitoring (2012-2014)

Editorial Board: **Human Factors** (2006-2014).

Series Editor: Ashgate Studies in Human Factors in Flight Operations (2000-2014).

Society for Neuroscience: Social Issues Committee (1977-1982; chair, 1980-1982);
Committee on Animal Welfare (1981-1982); Task Force on Government Affairs and
Social Issues (vice-chair, 1982-1983).

National Institute for Handicapped Research: Interagency Committee on Low Vision
(1981-1984).

National Research Council: Professional Staff Development Committee (chair, 1982-
1983).

Federation of Behavioral, Psychological, and Cognitive Sciences: Forum on Research
Management (1984-1989).

FAA Scientific Task Planning Group (1990).

FAA/NASA Technical Advisory Group for Aviation Human Factors (1991)

U.S. Army Reserve (1968-73): Commander, HHC, 313th Transportation Battalion.

FAA pilot ratings: ATP multiengine land: B-737, CE-500. Commercial SEME Land,
glider. CFI (glider).

PUBLICATIONS

Books

Dismukes, R.K. (ed) (2009). *Human Error in Aviation*. Aldershot, U.K.: Ashgate.

Loukopoulos, L.D., Dismukes, R.K., and Barshi, I. (2009). *The Multitasking Myth: Handling Complexity in Real-World Operations*. Aldershot, U.K.: Ashgate.

Dismukes, R.K., Berman, B., & Loukopoulos, L.D. (2007). *The Limits of Expertise: Rethinking Pilot Error and the Causes of Airline Accidents*. Aldershot, U.K.: Ashgate.

Dismukes, R.K. and Smith, G.M. (eds) (2000). *Facilitation and Debriefing in Aviation Training and Operations*. Aldershot, U.K.: Ashgate.

Sekuler, R., Kline, D., and Dismukes, R. K. (eds.) (1982). *Aging and Human Visual Function*. New York: Alan R. Liss.

Research reports, technical papers, & book chapters

Dismukes, R.K., Goldsmith, T.E., Kochan, J.A. (2015). Effects of acute stress on aircrew performance: Literature review and analysis of operational aspects. **NASA Technical Memorandum (NASA TM2015-218930)** Moffett Field, CA: NASA Ames Research Center.

Dismukes, R.K. (2015). Threat, stress and pilot performance. **Soaring** 79 (11) 38-40.

Dismukes, R.K. (2015). Cognition, aging, and the soaring pilot. **Soaring** 79 (10) 35-37.

Grundgeiger, T., Sanderson, P.M., & Dismukes, R.K. (2014). Prospective memory in complex sociotechnical systems. **Zeitschrift fur Psychologie**, 222 (2), 100-109.

Dismukes, R. K. (2012). Prospective memory in workplace and everyday situations. **Current Directions in Psychological Science**. 21(4) 215-220.

Berman, B.A., Dismukes, R.K. & Jobe, K.K. (2012). Performance data errors in air carrier Operations: Causes and Countermeasures. **NASA Technical Memorandum (NASA TM 2012-216007)** Moffett Field, CA: NASA Ames Research Center.

Singh, H., Girdina, T. D., Petersen, L. A., Smith, M. W., Paul, L. W., Dismukes, K. Bhagwath, G., & Thomas, E. J. (2011). Exploring situational awareness in diagnostic errors in primary care. *BMJ Quality & Safety Online* (<http://qualitysafety.bmj.com/content/early/2011/09/02/bmjqs-2011-000310.full.pdf?keytype=ref&ijkey=1K1HgRry2W74T3z>)

Dismukes, R. K. (2010). Remembrance of things future: Prospective memory in laboratory, workplace, and everyday settings. In D. H. Harris (Ed), *Reviews of Human Factors and Ergonomics*, 6, 79-122. Santa Monica, CA: Human Factors and Ergonomics Society.

Berman, B. A. & Dismukes, R. K. (2010, July). Designing a better mousetrap. **AeroSafety World**, 12-17.

Dismukes, R.K. & Berman, B. (2010). Checklists and monitoring in the cockpit: Why crucial defenses sometimes fail. **NASA Technical Memorandum (NASA TM-2010-216396)**. Moffett Field, CA: NASA Ames Research Center.

Dismukes, R. K. (2010). Understanding and Analyzing Human Error in Real-World Operations. In E. Salas and D. Maurino (Eds.), *Human Factors in Aviation*, 2nd Edition. Burlington, MA: Elsevier.

Dismukes, R. K. (2009). Overview of Human Error. In R. K. Dismukes (Ed.), *Human Error in Aviation*. Aldershot, UK: Ashgate Publishing Limited.

Dismukes, K. & Burian, B. (February 2009). Single-Pilot VLJ Operations. **The Aerospace Professional** 17-18.

Loukopoulos, L. D., Dismukes, R. K., & Barshi, I. (2009, August). The Perils of Multitasking. **Aerosafety World**, 18-23.

Loukopoulos, L. D., Dismukes, R. K. & Barshi, I. (August, 2009). The perils of multitasking. **AeroSafety World**, 18-23.

Dodhia, R.M. and Dismukes, R.K. (2009). Interruptions create prospective memory tasks. **Applied Cognitive Psychology** 23: 73-89.

Dismukes, R. K. (2008). An introduction to human factors in aerospace. In J. R. Davis, R. Johnson, & J. Stepanek (Eds.), *Fundamentals of Aerospace Medicine*, 4th Edition (pp. 495-498). New York: Lippincott Williams & Wilkins.

Dismukes, R. K. (2008). Prospective Memory in Aviation and Everyday Settings. In Kliegel, M., McDaniel, M.A. & Einstein, G.O. (Eds.), *Prospective memory: Cognitive, neuroscience, developmental, and applied perspectives*. Mahwah: Erlbaum.

Burian, B. K. & Dismukes, R. K. (2007). Alone at 41,000 feet. **AeroSafety World**. 30-34.

Berman, B. A., & Dismukes, R. K. (2006). Pressing the approach: A NASA study of 19 recent accidents yields a new perspective on pilot error. **Aviation Safety World**, 28-33.

Dismukes, R. K. & Nowinski, J. L. (2006). Prospective Memory, concurrent task management, and pilot error. In A. Kramer, D. Wiegmann, & A. Kirlik (Eds.) *Attention: From Theory to Practice*. New York: Oxford University Press.

Dismukes, R. K., Gaba, D. M., & Howard, S. K. (2006). So many roads: Facilitated debriefing in healthcare. **Simulation in Healthcare**, 1(2), 1-3.

Dismukes, R. K. (2006). Concurrent Task Management and Prospective Memory: Pilot Error as a Model for the Vulnerability of Experts. In **Proceedings of the Human Factors and Ergonomics Society** 50th Annual Meeting (pp. 903-114). San Francisco, CA: HFES.

Nowinski, J. L., & Dismukes, R. K. (2005). Effects of ongoing task context and target typicality on prospective memory performance: The importance of associative cueing. **Memory**, 13 (6) 649-657.

Colvin, K., Dodhia, R., & Dismukes, R. K. (2005). Is pilots' visual scanning adequate to avoid mid-air collisions? In **Proceedings of the 13th International Symposium on Aviation Psychology**, (pp. 104-109). Oklahoma City.

Colvin, K., Dodhia, R., & Dismukes, R. K. (2005). Is pilots' visual scanning adequate to avoid mid-air collisions? In **Proceedings of the 13th International Symposium on Aviation Psychology**, (pp. 104-109). Oklahoma City.

- Colvin, K., Dodhia, R., & Dismukes, R. K. (2005). Is pilots' visual scanning adequate to avoid mid-air collisions? In **Proceedings of the 13th International Symposium on Aviation Psychology**, (pp. 104-109). Oklahoma City.
- Burian, B. K., Barshi, I. & Dismukes, K. (2005). Many factors affect crew effectiveness in handling emergency or abnormal situations. **ICAO Journal**. 60 (6) 16-32.
- Nowinski, J. L., Holbrook, J. B., & Dismukes, R. K. (2003). Human memory and cockpit operations: An ASRS study. In **Proceedings of the 12th International Symposium on Aviation Psychology** (pp. 888-893). Dayton, OH: The Wright State University.
- Loukopoulos, L.D., Dismukes, R. K., & Barshi, I. (2003). Concurrent task demands in the cockpit: Challenges and vulnerabilities in routine flight operations. In **Proceedings of the 12th International Symposium on Aviation Psychology** (pp. 737-742). Dayton, OH: The Wright State University.
- Gawron, V. J., Berman, B. A., Dismukes, R. K., & Peer, J.H. (2003). New airline pilots may not receive sufficient training to cope with airplane upsets. Flight Safety Foundation's **Flight Safety Digest**, July-August 2003, pp. 19-32.
- Einstein, G.O., McDaniel, M.A., Williford, C.L., Pagan, J.L., & Dismukes, R.K. (2003). Forgetting of intentions in demanding situations is rapid. **Journal of Experimental Psychology Applied**, 9(3), 147-162.
- Colvin, K. W., Dodhia, R. M., Belcher, S. A., & Dismukes, R. K. (2003). Scanning for Visual Traffic: An Eye Tracking Study. In **Proceedings of the 12th International Symposium on Aviation Psychology** (pp. 255-260). Dayton, OH: The Wright State University.
- Burian, B. K., Dismukes, R. K., & Barshi, I. (2003). The Emergency and Abnormal Situations Project. In T. McCarthy (Ed.), **Proceedings of the International Society of Air Safety Investigators Conference**. Washington, D.C., 26-28 August, 2003.
- Baker, D. P. & Dismukes, R. K. (2003). *A gold standards approach to training instructors to evaluate crew performance*. (NASA Technical Memorandum **212809**). Moffett Field, CA: NASA Ames Research Center.
- Sumwalt, R. L. III, Thomas, R. J., & Dismukes, R. K. (2002). Enhancing flight-crew monitoring skills can increase flight safety. In **Proceedings of the 55th International Air Safety Seminar**, Flight Safety Foundation (pp. 175-206), Dublin, Ireland, November 4 - 7.
- Mulqueen, C. Baker, D.P., and Dismukes, R. K. (2002) Pilot Instructor Rater Training: The Utility of the Multifaceted IRT Model. **Int. J. Aviation Psychology** 12(3), 287-304
- Baker, D.P., and Dismukes, R. K. (2002) A Framework for Understanding Crew Performance Assessment Issues. **Int. J. Aviation Psychology** 12(3), 205-222.
- Baker, D.P., and Dismukes, R.K. (2002) Special Issue on Training Instructors to Evaluate Aircrew Performance. **Int. J. Aviation Psychology** 12(3), 203-204.

Stone, M., Dismukes, K., and Remington, R. (2001) Prospective Memory in Dynamic Environments: Effects of Load, Delay, and Phonological Rehearsal. **Memory** 9(3) 165-176.

Loukopoulos, L.D., Dismukes, R.K., and Barshi, I. (2001) Cockpit interruptions and distractions: a line observation study. **Proc. 11th Int. Symp. On Aviation Psychology**. Columbus, OH: Ohio State University.

Dismukes, R.K., Loukopoulos, L.D., and Jobe, K. (2001) The challenges of managing concurrent and deferred tasks. **Proc. 11th Int. Symp. On Aviation Psychology**. Columbus, OH: Ohio State University.

Dismukes, R. K. (2001). Rethinking crew error: Overview of a panel discussion. In R. Jensen (Ed.), **Proceedings of the 11th International Symposium on Aviation Psychology**. Columbus, OH: Ohio State University.

Dismukes, R. K., McDonnell, L. K., Jobe, K. K., & Smith, G. M. (2001). What is facilitation and why use it? In R. K. Dismukes & G. M. Smith (Eds.) *Facilitation and debriefing in aviation training and operations*. Aldershot, UK: Ashgate.

Baker, D.P., Mjqueen, C., and Dismukes, R.K. (2001) Applying Resource Management in Organizations: A Guide for Training Professionals. In E. Salas, C. Bowers, & E. Edens (Eds), *Improving Teamwork in Organizations: Applications of Resource Management Training* (pp132-146). Mahwah, NJ: Lawrence Erlbaum.

Dismukes, R. K., McDonnell, L. K., and Jobe, K. K. (2000) Facilitating LOFT Debriefings: Instructor Techniques and Crew Participation. **Int. J. Aviation Psychology** 10(1), 35-58.

Baker, D.P., Mulqueen, C., & Dismukes, R.K. (1999). Training pilot instructors to assess CRM: The utility of frame-of-reference (FOR) training. In R. Jensen (Ed.), **Proceedings of the 10th International Symposium on Aviation Psychology** (pp. 291-300). Columbus, OH: Ohio State University.

McDonnell, L.K., Jobe, K.K., Dismukes, R.K., and Smith, G.M. (1999) The debriefing assessment battery as a facilitation tool. **Proc 10th Int Symp. On Aviation Psychology** (pp1084-1087). Columbus, OH: Ohio State University.

Henry, W.L., Young, G.E., and Dismukes, R.K. (1999) The influence of global positioning system technology on general aviation pilots' perception of risk during in-flight decision making. **Proc 10th Int Symp. On Aviation Psychology** (pp147-151). Columbus, OH: Ohio State University.

Dismukes, R.K. (1999) Discussion: Issues in Evaluating Crew Performance in Line Oriented Evaluation. **Proc 10th Int Symp. on Aviation Psychology** (pp329-331). Columbus, OH: Ohio State University.

Baker, D.P., Mulqueen, C., and Dismukes, R.K. (1999) Training pilot instructors to assess CRM: The utility of frame-of-reference (FOR) training. **Proc. Int Aviation Training Symposium** (291-300).

- Dismukes, K., Young, G., and Sumwalt, R. (1998) Cockpit Interruptions and Distractions: Effective Management Requires a Careful Balancing Act. **ASRS Directline** 10, 3.
- McDonnell, L. K., Jobe, K. K. and Dismukes, R. K. (1997) Facilitating LOS debriefings: a training manual. **NASA Technical Memorandum 112192**.
- Dismukes, R. K., Jobe, K. K., McDonnell, L. K. (1997) LOFT debriefings: an analysis of instructor techniques and crew participation. **NASA Technical Memorandum 110442**.
- Baker, D. P. & Dismukes, R. K. (1997). Tools for investigating rater reliability and accuracy. In R. Jensen (Ed.), **Proceedings of the 9th International Symposium on Aviation Psychology** (pp. 452-458). Columbus, OH: Ohio State University.
- McDonnell, L. and Dismukes, K. (1996) A New tool for assessing LOFT debriefings. **The CRM Advocate** 96 (2) 15.
- Dismukes, R. K., McDonnell, L. K., Jobe, K. K., and Gregorich, S. E. (1995) A survey and analysis of LOFT debriefing techniques. **Proceedings of the Eighth International Symposium on Aviation Psychology**. (pp 651-7). Columbus, OH: Ohio State University.
- Dismukes, R. K., McDonnell, L. K., Jobe, K. K., and Gregorich, S. E. (1995) A survey and analysis of LOFT debriefing techniques. **Proceedings of the Eighth International Symposium on Aviation Psychology**. (pp 651-7). Columbus, OH: Ohio State University.
- Dismukes, K. (1994): Aviation human factors research in U.S. Universities: Potential contribution to National Needs. **NASA Technical Memorandum 108814**. Also in (1994): **International Journal of Aviation Psychology** 4(4): 315.
- Orasanu, J., Dismukes, R. K., and Fischer, U. (1993) Decision errors in the cockpit. **Proceedings of the Human Factors and Ergonomics Society**. (pp363-7) Santa Monica, CA: Human Factors Soc.
- Dismukes, K. (1992) Borrowing ideas for soaring safety. **Soaring** 56 (7):39.
- Sekuler, R., Kline, D., and Dismukes, K. (eds.) (1982) Aging and Visual Function of Military Pilots. Report of a National Research Council Working Group. **Aviation, Space, and Environmental Medicine** 53(8):747.
- Brown, B. S., Dismukes, R. K., and Rinalducci, E. J. (1982) Video Display Terminals and the Vision of Workers: Summary and Overview Of a Symposium. **Behavior and Information Technology** 1(2):121.
- Richards, W. and Dismukes, K. (eds.) (1981) *Vision Research for Flight Simulation*. Report of a National Research Council Panel. Washington: National Academy Press.
- Mulder, A. H., Dismukes, R. K., de Langen, C. D. J., Wemer, J., and Frankhuyzen, A. L. (1980) Studies on presynaptic alpha-adrenoceptors in the rat brain. *Progress in Pharmacology* (P. A. van Zweiton, ed.).

- Daly, J. W., Hoffer, B. J., and Dismukes, R. K. (1980) **Regulation of Neuronal Sensitivity. *Neurosci. Res. Bull.*** Cambridge: MIT Press. 18(3):325.
- Dismukes, R. K. (1979) New concepts of molecular communication among neurons. ***Behavioral and Brain Sciences*** 2:409.
- Dismukes, R. K. (1978) What mind-brain problem? ***Behavioral and Brain Sciences*** 1:351.
- Dismukes, R. K. and Liebeskind, J. L. (1978) An overview: How much can psychopharmacology tell us about the roles of neuropeptides in behavior. In *Peptides and Behavior: A Critical Examination of Approach. Neurosci. Res. Prog. Bull.* Cambridge: MIT Press 16(4):493.
- Dismukes, R. K. and Liebeskind, J. L. (1978) An overview: How much can psychopharmacology tell us about the roles of neuropeptides in behavior. In *Peptides and Behavior: A Critical Examination of Approach. Neurosci. Res. Prog. Bull.* Cambridge: MIT Press 16(4):493.
- Dismukes, R. K. (1978) Constraints on inferring neurochemical involvement in behavior. In *Peptides and Behavior: A Critical Examination of Approach. Neurosci. Res. Prog. Bull.* Cambridge: MIT Press. 16(4):580.
- Mulder, A. H., de Langen, C., Wemer, J., and Dismukes, K. (1977) In vitro studies on presynaptic alpha-receptor mediated modulation of transmitter release from central noradrenergic neurons. In ***Catecholamines: Basic and Clinical Frontiers*** (E. Usdin, J. J. Konig, and J. Barchas, eds.). New York: Pergamon Press. 1:259.
- Dismukes, R. K. van der Boer, A., and Mulder, A. H. (1977) On the mechanism of alpha-receptor modulation of norepinephrine release from brain slices. ***N.S. Arch. Pharmacol.*** 299:115
- Stalvey, L., Daly, J. W., and Dismukes, R. K. (1976) Behavioral activity and accumulation of cyclic AMP in brain slices of inbred strains of mice. ***Life Sciences*** 19:1845.
- Rogers, M., Dismukes, R.K., and Daly, J.W. (1976) Norepinephrine-sensitive cyclic AMP-generating systems: increased responses in guinea pig brain slices: effects of H1 and H2 antagonists. ***J. Neurochemistry*** 25:531.
- Dismukes, R. K., Rogers, M., and Daly, J. W. (1976) Cyclic adenosine 3'-5' monophosphate formation in guinea pig brain slices: effects of H1 and H2 histamine agonists. ***J. Neurochemistry*** 26:785.
- Dismukes, R. K. and Mulder, A. H. (1976) Effects of neuroleptics on release of tritiated dopamine from striatal slices. ***N.S. Arch. Pharmacol.*** 297:23.
- Dismukes, R. K. and Mulder, A. H. (1976) Cyclic AMP and alpha-receptor mediated modulation of noradrenaline release from rat brain slices. ***Eur. J. Pharmacology*** 39:383.
- Dismukes, R. K. and Daly, J. W. (1976) Altered brain cyclic AMP responses in rats reared in enriched or impoverished environments. ***Experientia*** 32:730.
- Dismukes, R. K. and Daly, J. W. (1976) Adaptive responses of brain cyclic AMP

generating systems to altered synaptic input. **J. Cyclic Nucleotide Research** 2:321.

Dismukes, R.K., Gosh, P., and Daly, J.W. (1975) Enhanced responsiveness of adenosine 3'-5' monophosphate generating systems to putative neurotransmitters in rat brain slices following medial forebrain lesioning. **Experimental Neurology** 49:725.

Dismukes, R.K., Gosh, P., and Daly, J.W. (1975) Cyclic adenosine 3'-5' monophosphate generating systems in guinea pig brain slices: lack of alterations following chronic depletion of norepinephrine and serotonin. **Experimental Neurology** 52:206.

Dismukes, R.K. and Daly, J.W. (1975) Altered responsiveness of adenosine 3'-5' monophosphate generating systems in brain slices from adult rats after neonatal treatment with 6-hydroxydopamine. **Experimental Neurology** 49:150.

Dismukes, R.K. and Daly, J.W. (1975) Accumulation of adenosine 3'-5' monophosphate in rat brain slices: effects of prostaglandins. **Life Sciences** 17:199.

Dismukes, R.K. and Snyder, S.H. (1974) Histamine turnover in rat brain. **Brain Research** 78:467.

Dismukes, R.K. and Snyder, S.H. (1974) Dynamics of brain histamine. In *Advances in Neurology* (McDowell, F. and Barbeau, A., eds.). New York: Raven Press. 5:101

Dismukes, R.K., Kuhar, M.J., and Snyder, S.H. (1974) Brain histamine alterations after hypothalamic isolation. **Brain Research** 78:144.

Dismukes, K. and Daly, J.W. (1974) Norepinephrine-sensitive systems generating cyclic AMP: increased responses in cerebral cortical slices from reserpine-treated rats. **Mol. Pharmacol.** 10:933.

Dismukes, R.K. and Rake, A.V. (1972) Involvement of biogenic amines in memory formation. **Psychopharmacologia** 23:17.

Dismukes, R. K. (1971) The biogenic amines and memory. Ph.D dissertation, Biophysics Department, Pennsylvania State Univ.

Dismukes, R.K., Lott, S.H., and Barach, J.P. (1966) Faraday effect measurements with pulsed magnetic fields. **Applied Optics** 5:1246.

Policy, Op/Ed and Public Affairs Articles

Tullo, F. & Dismukes, K. (2012, December 12). Viewpoint: What Next in Aviation Safety? **Aviation Week & Space Technology**, p50.

Dismukes, R. K. & Burian B. K. (2010). Testifying at NTSB Public Hearings. **Ergonomics in Design** 18 (2), 28-30.

Sumwalt, R. L. III, Thomas, R. J., & Dismukes, R. K. (2003, August 25). Editorial: The new last line of defense against aviation accidents. **Aviation Week & Space Technology**, 159(8) 66.

Dismukes, K. and Tullo, F. (2000, July 17). Aerospace Forum: Rethinking crew error. **Aviation Week & Space Technology** p63.

Dismukes, K. and Jonides, J. (1989). Project 2061: A place to start educating the public. **The Scientist** 3 (15): 11.

Dismukes, K. (1988). Why scientists should start playing the political game. **The Scientist** 2 (15):11.

Dismukes, K. (12 July 1983). With video display terminals the distress is human. **Los Angeles Times** and other newspapers.

Dismukes, R. K. (1980) The Supreme Court and patenting life: life is patently not human-made. **Hastings Center Report** 10(5):11.

Dismukes, R. K. (1979). What should society expect from scientists? **Bull. of Atomic Scientists** 35(9):19. Reprinted in **Current** (1980) 220:23.

Dismukes, R. K. (1977). Recombinant DNA: a proposal for regulation. **Hastings Center Report** 7:25. Reprinted in **Bioethics: Selected Readings**. T. A. Shannon (1980) (revised). New York: Paulist Press.

First-person Articles

Dismukes, R.K. (2015). Becoming a tow pilot. **Soaring** 79 (6) 34-35.

News and Views Articles

Opiate receptor binding (1973) **Nature** 242:228. A common receptor for hallucinogens? (1973) **Nature** 242:367. Receptors for neuro- transmitters (1973) **Nature** 252:443. Narcotic action at the molecular level (1974) **Nature** 247:83. Two-faced neurons (1977) **Nature** 269:104. New look at the aminergic nervous system (1977) **Nature** 269:557. Central core regulation: monoaminergic systems (1977) **Neuroscience Newsletter** 8:5. Mechanisms of regulation of neuronal sensitivity (1978) **Neuroscience Newsletter** 9:5. Two NRP one-day conferences (1979) **Neuroscience Newsletter** 10(1):4. Should the Society for Neuroscience act on behalf of repressed scientists? (1981) **Neuroscience Newsletter** 12(4):2. Animal welfare: public issues and scientists' concerns (with L. Irwin) (1981) **Neuroscience Newsletter** 12(6):2.

Symposia Organized or Chaired

Communication and citation patterns in neuroscience, Society for Neuroscience 1978 annual meeting (Anaheim). Regulation of neuronal sensitivity, Neurosciences Research Program Conference, 14-16 May 1978 (Boston). The roles of neuropeptides in behavior, Neurosciences Research Program, 5-6 October 1978 (Boston). Aging and human visual function, NAS-NRC Committee on Vision symposium, 31 March-1 April 1980 (Washington). Low vision: strategies for developing basic research/ clinical science collaboration, workshop sponsored by a group of federal agencies and professional organizations, 11 January 1981 (Bethesda, MD). Video display terminals and vision of workers, NAS-NRC Panel on Video Viewing symposium, 20-21 August 1981 (Washington). Use of animals in neuroscience research, Society for Neuroscience 1982 annual meeting (Minneapolis). Human Performance in the Modern Cockpit, Aerospace Medical Association 1992 annual meeting (Miami).

STUDY DIRECTOR FOR NAS-NRC STUDIES

The Multiple Position Letter Sorting Machine: An Evaluation of Visual, Auditory, and Human Factor Problems. (1979). Washington: National Academy of Sciences.

Recommended Standard Procedures for the Clinical Measurement and Specification of visual acuity (1980). **Advances in Ophthalmology** 41:103

Effects of Microwave Radiation on the lens of the Eye (1981). Washington: National Academy of Sciences.

Procedures for Testing Color Vision (1981). Washington: National Academy of Sciences.

Vision Research for Flight Simulation (1981). Washington: National Academy of Sciences.

Aging and Visual Function of Military Pilots (1982). Sekuler, R., Kline, D., and Dismukes, K., eds. **Aviation, Space & Environmental Medicine** 53(8): 747.

Video Viewing and the Vision of Workers (1983). Washington: National Academy of Sciences.

Some Research Needs in Aging and Visual Perception (1983). Sekuler, R., Kline, D., Dismukes, K., and Adams, A. **Vision Research** 23 (3): 213.

BOOK REVIEWS

M. Gazzaniga's **The Social Brain** (1988). Dismukes, K. **Technology Review** 91(2):77.

J. Ziman's **Knowing Everything about Nothing** (1988). Dismukes, K. **The Scientist** 2(2):19.