

Richard S Broughton

Richard Broughton is an American parapsychologist who has specialized in cognitive aspects of ESP and its evolutionary development. His 1991 book *Parapsychology: The Controversial Science* is a classic introduction to the subject.

Career

Richard Broughton gained his doctorate in psychology at the University of Edinburgh, under the tutorship of [John Beloff](#). After short appointments in the Netherlands and New York, he joined the Institute for Parapsychology (now known as the [Rhine Research Center](#)) in Durham, North Carolina, serving as director from 1995 to 2000. He then left to establish his own initiative, Intuition Laboratories. Returning to the UK, he joined the Psychology Division of the University of Northampton in 2004, retiring in 2012.

Broughton is a twice past president of the [Parapsychological Association](#) and has served as president of the [Society for Psychical Research](#), where he is currently honorary treasurer.

Broughton's early research interests included cognitive aspects of ESP and finding improvements in experimental methodology. Latterly, he has been interested in the emotional regulation of psi ability as a consequence of evolutionary development.

Brain Hemisphere Specialization and ESP

Broughton's earliest psi research involved exploring the relationship between brain hemisphere specialization and ESP performance. In experiments conducted while studying for his PhD at the University of Edinburgh, he adapted research methods used by cognitive scientists investigating hemispheric specialization to explore the possibility that the right hemisphere has an advantage in processing information acquired by ESP. His methods employed explicit ESP tasks (forced choice guessing with the fingertips of each hand) as well as implicit ESP-mediated responses in bi-manual reaction time tasks. Some experiments showed evidence for a right hemisphere advantage in ESP processing,¹ which he concluded was suggestive rather than conclusive.²

Improving Research Methodology

In order to facilitate his brain hemisphere experiments Broughton became an early adopter of, and advocate for, the use of computers for experimental control and data collection.³ In the late 1970s the field of parapsychology was in turmoil over issues of reproducibility and publication bias and he realized that computerisation could provide a technical solution for some of the problems. With his Edinburgh colleague Brian Millar he proposed an analytical process that he termed the 'Edinburgh Split' in which data from a single experiment is split into parts while

keeping the experimenter blind. The first part could be treated as pilot data in which trends are identified and effects discovered, and the second part used to test rigorously which effects are either confirmed or refuted. He argued this technique would obviate appeals to 'changed conditions' in explaining failed replications and avoid statistical 'chimeras'.⁴

Spectre of Experimenter Effect

The 1970s saw the rise of the Observational Theories (OTs) that attempted to understand the underlying physical principles of psi phenomena. These models highlighted the role of the observer as the source of psi effects, in turn suggesting that the experimenter may be the source of psi effects seen in laboratory experiments rather than the putative subjects, even retrospectively.

To investigate this disturbing possibility, Broughton created an automated experiment that kept the experimenter blind to the experimental conditions and the participants' results. Participants performed two runs of a guessing task, and upon leaving the laboratory were given the report of their results, which in the introduction contained suggestions that might lead them to expect that their score in one or other run was higher than the other. As Broughton had anticipated, the results significantly reflected these artificially created expectations, leading him to conclude that either the participants could retrospectively influence their results or he, himself, was the source of the psi effect.⁵ As he later said,⁶ this realization raised doubts about his ability to find evidence of psi, casting a pall over his research career. He continues to argue that the experimenter effect remains an unresolved problem for parapsychology.⁷

Making Psi Useful

Following theorizing by [Rex Stanford](#) on psi-mediated instrumental response (PMIR), Broughton argued that researchers should look at psi as need-serving and conduct experiments that give participants a real reason to use psi. He saw 'winning' as a likely motivator and extended his computer-based psi testing to have the appearance of competitive games,⁸ a task made easier by the arrival of desktop computers in the early 1980s.

In one example he designed an RNG-based psychokinesis test that appeared to be a competitive dice game and invited local Duke University students to play against students from the neighbouring University of North Carolina (UNC), their sports arch-rivals. The Duke students played a 'warm-up' game and then the 'real game' but in reality there were no UNC students. The manipulation proved to be effective emotionally, but that was not reflected in any differences in psi performance, although interesting secondary interactions with personality characteristics were seen.⁹

Ganzfeld and the Three Factor Model

By the late 1980s, two US laboratories had accumulated large databases from ganzfeld telepathy experiments – the Institute for Parapsychology (now the Rhine

Research Centre) and the Psycho-Physical Research Laboratories (PRL) directed by [Charles Honorton](#). The PRL labs had amassed personality data from over 300 participants that revealed three factors to be associated with high ESP scoring: previous psychic experiences, meditation practice, and scoring as FP (feeling/perceiving) on the Myers-Briggs Type Indicator (MBTI) personality test. Participants who scored high on all of its measures were accurate upwards of 50% of the time, more than double the chance level of 25%.¹⁰ Broughton analyzed the data from the Institute for Parapsychology and found 28 participants who fitted the three-factor model – their scoring rate was 43%, independently confirming the PRL model.¹¹

Broughton's close working relationship with Honorton led the latter to turn over all the PRL records and research equipment to the Institute for Parapsychology when PRL closed, and this was used in a large-scale effort to replicate PRL's 'auto-ganzfeld' (computerized ganzfeld experiment) findings¹² as well as in subsequent fine-grained analyses of ganzfeld performance.¹³

Evolutionary Roots of Psi

Broughton's view of psi as need-serving (in Stanford's terminology) led him to argue in his 1986 presidential address to the Parapsychological Association¹⁴ that psi should be understood as an evolved human ability. But 25 years passed before developments in evolutionary psychology offered a framework in which psi ability could fit. In recent papers he has focused on ESP, particularly precognition, arguing that what is known about ESP and the emotional system and memory,¹⁵ both from the spontaneous case literature and a wide range of experimental research, fits neatly with our contemporary understanding of the role of the emotional system and memory in decision-making, anticipating the future and planning. In essence, he has proposed that ESP should be seen as an evolutionary enhancement to our ongoing planning and decision-making systems.¹⁶

Book

Broughton is the author of *Parapsychology: The Controversial Science* (Ballantine, 1991), which has been translated into six languages and is often used as textbook for parapsychology courses.

Michael Duggan

Literature

Bem, D., Palmer, J., & Broughton, R.S. (2001). Updating the ganzfeld database: A victim of its own success? *Journal of Parapsychology* 65, 207-18.

Broughton, R.S. (1975). Psi and the two halves of the brain. *Journal of the Society for Psychical Research* 47, 133-47.

Broughton, R.S. (1976). Possible brain laterality effects on ESP performance. *Journal of the Society for Psychical Research* 48, 384-99.

- Broughton, R.S. (1977). An exploratory study on psi-based subject and experimenter expectancy effects. In *Research in Parapsychology 1976*, ed. by J.D. Morris, W.G. Roll & R.L. Morris, 173-77. Metuchen, New Jersey, USA: Scarecrow Press.
- Broughton, R.S. (1979). An experiment with the Head of Jut. *European Journal of Parapsychology* 2, 337-57.
- Broughton, R.S. (1982a). Computer methodology. In *Parapsychology and the Experimental Method*, ed. by B. Shapin & L. Coly, 24-34. New York: Parapsychology Foundation.
- Broughton, R.S. (1982b). The use of computers in psychical research. In *Psychical Research: A Guide to its History, Principles and Practices*, ed. by I. Grattan-Guinness. Aquarian Press.
- Broughton, R.S. (1984). Brain hemisphere specialization and ESP: What have we learned? In *Research in Parapsychology 1983*, ed. by R.A. White & R.S. Broughton, 2-4. Metuchen, New Jersey, USA: Scarecrow Press.
- Broughton, R.S. (1988). If you want to know how it works, first find out what it's for. In *Research in Parapsychology 1987*, ed. by D.H. Weiner & R.L. Morris, 187-202. Metuchen, New Jersey, USA: Scarecrow Press.
- Broughton, R.S. (1991). *Parapsychology: The Controversial Science*. Ballantine.
- Broughton, R.S. (2006a). Memory, emotion and the receptive psi process. *Journal of Parapsychology* 70, 255-74.
- Broughton, R.S. (2006b). Why do ghosts wear clothes? Examining the role of memory and emotion in anomalous experiences. *European Journal of Parapsychology* 21.
- Broughton, R.S. (2010). An evolutionary approach to anomalous intuition. *8th Symposium of the Bial Foundation, Behind and Beyond the Brain: Intuition and Decision-Making*, 61-74.
- Broughton, R.S. (2013, July 18). Reflections. *Mindfield* 5/2, 58-61.
- Broughton, R.S. (2015a). Psi and biology: An evolutionary perspective. In *Parapsychology: A Handbook for the 21st Century*, ed. by E. Cardena, J. Palmer & D. Marcusson-Clavertz, 139-48. Jefferson, North Carolina, USA: McFarland & Company.
- Broughton, R.S. (2015b). The experimenter effect bombshell (President's Letter). *Paranormal Review* 74 (Spring), 4-5.
- Broughton, R.S., & Alexander, C.H. (1997). Autoganzfeld II: An attempted replication of the PRL ganzfeld research. *Journal of Parapsychology* 61/3, 209-26.
- Broughton, R.S., Kanthamani, H., & Khilji, A. (1990). Assessing the PRL success model on an independent ganzfeld database. In *Research in Parapsychology 1989*,

ed. by L.A. Henkel & J. Palmer, 32-35. Metuchen, New Jersey, USA: Scarecrow Press.

Broughton, R.S., & Millar, B. (1980). Split analysis techniques for robust effects. In *Research in Parapsychology 1979*, ed. by W.G. Roll, 154-56. Scarecrow Press.

Broughton, R.S., & Perlstrom, J.R. (1986). PK experiments with a competitive computer game. *Journal of Parapsychology* 50/3, 193-211.

Broughton, R.S., & Perlstrom, J.R. (1992). PK in a computer game: A replication. *Journal of Parapsychology* 56/4, 292-305.

Honorton, C., Berger, R.E., Varvoglis, M.P., Quant, M., Derr, P., Schecter, E.I., & Ferrari, D.C. (1990). Psi communication in the ganzfeld: Experiments with an automated testing system and a comparison with a meta-analysis of earlier studies. *Journal of Parapsychology* 54, 99-139.

Endnotes

Footnotes

- [1.](#) Broughton (1975; 1976).
- [2.](#) Broughton (1984).
- [3.](#) Broughton (1982a; 1982b).
- [4.](#) Broughton & Millar (1980).
- [5.](#) Broughton (1977).
- [6.](#) Broughton (2013).
- [7.](#) Broughton (2015b).
- [8.](#) Broughton (1979).
- [9.](#) Broughton & Perlstrom (1986; 1992).
- [10.](#) Honorton et al. (1990).
- [11.](#) Broughton, Kanthamani and Khilji (1990).
- [12.](#) Broughton & Alexander (1997).
- [13.](#) Bem, Palmer and Broughton (2001).
- [14.](#) Broughton (1988).
- [15.](#) Broughton (2006a; 2006b).
- [16.](#) Broughton (2010; 2015a).