

07/08/2009

CURRICULUM VITAE Søren Brier

Dr. Brier is since 2008 Professor in the *Semiotics of Information, Cognition and Communication Sciences* at *Department of International Culture and Communication Studies* at Copenhagen Business School. His publication list holds 170 items among them six books in Danish and one in English, *Cybersemiotics: Why Information is not Enough*, U. of Toronto Press, 2008.

Positions

2007 connected to *Department of International Culture and Communication Studies* at CBS. 2003-6 Assoc. Prof. CBS. Dept. of management, Politics and Philosophy paid by the president's funds. 1998-2003 Assoc. Prof. in Philosophy of Science at the Royal Veterinary and Agricultural U. of Copenhagen), Dept. of Economics and Natural Resources). From 1987-1998 Assoc. professor of science and technology information systems at the Royal School of Librarianship, Aalborg Branch, Denmark. Part time lecture at Aalborg U. in philosophy of science 1995-97 and at Copenhagen Business School 1999. Before that various part time jobs at Roskilde University, Nordische Universität Flensburg,.

Education:

Master of Science in biology from University of Copenhagen 1979 with exchange courses I philosophy of science, psychology and brain processes, comparative psychology. Thesis: A critical and historical examination of ethology's explanatory concepts of perception, motivation and action (13). 1981-1983 research fellowship in Psychological Laboratory at The University of Copenhagen. 1994 *Ph.D. in Philosophy of Science* at The Inst. for the Study of Mathematics and Physics and their use in Research, Teaching and Practise (IMFUFA), Roskilde University Centre, Denmark. March, 2006 Doctor of Philosophy at Copenhagen Business School (a Danish post-doctoral dissertation like the ones in France and the habilitation in Germany) Title: *Cybersemiotics: Why Information is not Enough*. Published by University of Toronto Press, early 2008.

Areas of research:

1. A philosophy of science approach using second order cybernetics and Peircian biosemiotics as epistemological strategies in the understanding of informational, cognitive and communicational processes and their relation to the design of information systems and technology as well as developing a theory of machine, animal and human cognition, communication and understanding. An attempt to establish an interdisciplinary viewpoint with a focus on development of a non-reductionistic view called *Cybersemiotics*.
2. The possibilities of transdisciplinary models and frameworks to make different knowledge systems understandable for each other going from science versus humanities to theoretical and practical knowledge, tacit and verbal knowledge, rational knowledge and myth/metaphysics.
3. How to establish a theory of mind and meaning coherent with a scientific world view?
4. Interactions of science, politics, media, and of science, technology, metaphysics and religion in the public Agora creating cultural rationality in a global society.

Professional activities:

1. Founder and editor of the interdisciplinary journal "Paradigma" 1986 - 1990.
2. A founder and board member of the *Danish Academy of Applied Philosophy* 1986-1996
3. 1992- Member and trustee of the *American Society for Cybernetics* and
4. Member of *The International Institute for Advanced Studies in Systems Research and Cybernetics*.
5. 2000- Trustee of the *American Society for Cybernetics* , which has awarded with The Warren McCulloch Award and a to be a fellow of in 2008.
6. Editor of the international interdisciplinary quarterly journal *Cybernetics & Human Knowing*, founded in 1992- with the American Society for Cybernetics. Published by *Imprint Academic*, London.
7. 2001- Member of the board of RC51 *Sociocybernetics group*, ISA (Intern. Sociological Ass.)
8. 1986 Member of the *Danish Society for the Semiotics of Nature and the biosemiotic group*.
9. 2000 - Member of the board of *Int. Ass. For Biosemiotic Studies* and 2005 its *Journal of Biosemiotics*.
10. 2000: Member of the International Advisory Group for the collection of core texts for system science and cybernetics seminal papers for *Systems Thinking*, 4. Vol. (1664 pp.) ed. Gerald Midgley, Sage Library in Business and Management, Sage publications. 2002.
11. 2000: Member of *Vidennet* og co-organizer of a couple of its conference at CBS with Søren Barlebo Rasmussen.
12. 2003 member of the scientific board of FIS-group (***Foundation of Information Science***). Self-organized interdisciplinary group running a web site, a discussion list as well as three international conferences.
13. 2007 member of advisory board of *The Science of Information Institute*, <http://www.scienceofinformationinstitute.com/about.html>
14. 2003 Member of the board of *Systems Research*
15. 2003 member of the board of the electronic journal *Triple C* (Communication, Cognition and Co-operation). Now official FIS journal.
16. 2004 Member of the editorial Board of the new journal: *Organisational Transformation and Social Change from Intellect*.

Awards:

1. The *gold medal of the University of Copenhagen* 1981 for a prize essay in psychology, on probabilistic and hierarchical models of motivation.
2. The *International Institute of Advanced Studies in Systems Cybernetics and System Research Foundation's Distinguished Service Award* in recognition of the distinguished service for the cybernetic community and for presenting an outstanding Keynote Address at the INTERSYMP'93 held August 2-8, 1993 in Baden-Baden, Germany.
3. *Systems Research Foundation Award for his great contribution to advancement of Cybernetics and for his excellent editorial work in publishing Cybernetics and Human Knowing*. Baden-Baden, Aug. 17. 1996.
4. *EMCSR 2002 Best paper award* for the symposium *Foundation of Information Science*.
5. Registered in Marquis *Who'sWho in the World*.(2001-)and in
6. *Who'sWho in Science and Engineering* (2002-)

PUBLICATION LIST for Søren Brier international writings 8/7/2009:

1. Brier, S. (1992): "Foreword" (positional statement) i *Cybernetics & Human Knowing*, vol. 1, no.1, pp. 1-4.
2. Brier, S. (1992): "A philosophy of science perspective - on the idea of a unifying information science" in P. Vakkari and B. Cronin (ed.) (1992): *Conceptions of Library and Information Science: Historical, empirical and theoretical perspectives*, Taylor Graham, London, pp.97-108.
3. Brier, S. (1992): "Information and Consciousness: A Critique of the Mechanistic foundation of the Concept of Information" in *Cybernetics & Human Knowing*, Vol.1, no. 2/3, pp 71- 94. <http://www.imprint.co.uk/C&HK/vol1/v1-23sbr.htm>
4. Brier, S. (1993): "Conversational Ethics and the Global Environment" in *Cybernetics & Human Knowing* vol. 1, no.4, 1993, pp. 51-55. <http://www.imprint.co.uk/C&HK/vol1/v1-4sbr.htm>
5. Brier, S.(1993): "Cyber-Semiotics: Second order cybernetics and the Semiotics of C.S. Peirce" in *Proceedings from the Second European Congress on System Science, Prague, October 5-8. 1993. AFCET*.
6. Brier, S. (1994): "On the foundation of Consciousness in a Theory of Knowledge" and
7. "An Alternative Understanding of Knowledge and Information Based on a Paradigm of Higher States of Consciousness" p.1335-1356 in Brady, B. and Peano, L. (ed.)(1994): *New Systems Thinking and Action for a New Century, International Society for the Systems Sciences, Proceedings of the Thirty-Eight Annual Meeting, Asilomar Conference Centre, Pacific Grove, California, June 14-19, 1994*.
8. Brier, S. (1994): "Second Order Cybernetic and Semiotic Perspective on the Idea of a Unified Information Science" pp.5-10 in Lasker, G. E. (1994): *Advances in Interdisciplinary Research and Cybernetics, vol.1, International Institute of Advanced Studies in Systems Research and Cybernetics*.
9. Brier, S. (1994): "On the Foundation of Consciousness in a Theory of Knowledge" p. 81-89 in Lasker, G.E. & Murphy, D. (eds.) (1994): *Advances in Research of Human Consciousness, 111 pp, International Institute of Advanced Studies in Systems Research and Cybernetics, IIAS-12-94, ISBN 0921836163*.
10. Brier, S. (1994): "Cyber-Semiotics: On autopoiesis, code-duality and signgames in bio-semiotics". Konferenceoplæg fra "Fifth Congress of the IASS/AIS June 12-18, 1994: Semiotics Around the world", June 12-18, Berkeley, California.
11. Brier, S. (1994): "Why documents and information are not easily accessible in the huge international information retrieval systems: an evaluation of the theory behind information retrieval, from a cybernetic, a semiotic and a language game point of view." Key-note address at the International Conference on Interdisciplinary Research and 2nd Orwellian symposium, Karlovy Vary, Czech Republic, August 8-11.
12. Brier, S. (1995): "Cyber-Semiotics: Can the triadic semiotics of Peirce and the second order cybernetics of von Foerster, Maturana, Varela and Luhmann be fruitfully connected

to a new second order non-mechanistic framework for interdisciplinary information science.” Abstrakt til konferencen “Einstein meets Magritte: An interdisciplinary reflection on science, nature, human action and society” 29. maj - 3.juni 1995 på Vrije universitet, Bruxelles

13. Brier, S. (1995): “Trust in the Order of Things”, a review of F. Mathews, (1994). *The Ecological Self*, Routledge, London, pp.292. *Systems Practice*. Vol. 9, No.4, 1996, pp. 377-385.
14. Brier, S. (1995): “Childhood, Ethics and Civilization: Attachment and the modern family’s problems with the emphatic upbringing of children”. Conference paper for the 7th International Conference on Systems Research, Informatics and Cybernetics, 15-21 august in Baden Baden, 15-21 august. In the International Institute of Advanced Studies in Systems Research and Cybernetics.
15. Brier, S. (1995):”Wages for Family Workers”, Conference paper to the 7th International Conference on Systems Research, Informatics and Cybernetics, 15-21 august in Baden Baden, 15-21 august. In the International Institute of Advanced Studies in Systems Research and Cybernetics.
16. Brier, S. (1995): “Cyber-Semiotics: On autopoiesis, code-duality and signgames in bio-semiotics” in *Cybernetics & Human Knowing*, Vol. 3, no. 1.
<http://www.imprint.co.uk/C&HK/vol3/v3-1sbr.htm>
17. Brier, S. (1995): “Cybersemiotics: A paradigm integrating pragmatic linguistics, second order cybernetics with the triadic semiotics of C.S. Peirce” i “The emergence of codes and intentions as a basis of sign processes: An interdisciplinary semiotic symposium, October 26-28 1995”, Man and Nature Humanities Research Center, Hollufgård, Odense Universitet, Danmark. (Ikke fortløbende nummereret).
18. Brier, S. (1996): “From Second-order Cybernetics to Cybersemiotics: A Semiotic Re-entry into the Second -order Cybernetics of Heinz von Foerster”, *Systems Research*, Vol. 13, No. 3, pp.229-244, 1996.
19. Brier, S. (1996): “Cybersemiotics: A new interdisciplinary development applied to the problems of knowledge organization and document retrieval in information science”, *Journal of Documentation*, Vol. 52, no. 3, September 1996, pp.296-344.
20. Brier, S.(1996): “The Necessity of a Theory of Signification and Meaning in Cybernetics and Systems Science”, Proceedings of the Third European Congress on Systems Science, Rome, 1-4 October 1996, Edizioni Kappa, pp. 693-697.
21. Brier, S. (1997). The Self-Organization of Knowledge: Paradigms of Knowledge and their Role in the Decision of what counts as legitimate medical Practice. In *Studies in Alternative Therapy 4: Lifestyle and Medical Paradigms*, Gosvig, S et al. INRAT, Odense University Press: 112-135.
22. Brier, S. (1997): “Cyber-semiotics: On autopoiesis, code-duality and signgames as vital aspects of bio-semiotics”, pp. 913-916 in “Semiotics around the World: Synthesis in Diversity: Proceedings of the Fifth Congress of the International Society for Semiotic Studies, Berkeley 1994”, Ed. I. Rauch and G.F. Carr, Mouton de Gruyter, Berlin, New
23. Brier, S. (1997): “Biosemiotics and cybersemiotics: The integration of biosemiotics in a larger framework of self-organizing signifying systems”, in Sankey, M.R., Gimote-Welsh,

- A. and Pellegino, P. (1997): Semiotics bridging Nature & Culture, VIth International Congress of the International Association for Semiotic Studies, Guadalajara, Mexico, Julio, 13-18, 1997. p. 215, abstract. Guadalajara: IASS
24. Brier, S. (1997): "What is a Possible Ontological and Epistemological Framework for a True Universal 'Information Science': The Suggestion of Cybersemiotics", *World Futures*, 1997, Vol. 49, pp. 287-308.
 25. Brier, S. (1997): "Cybersemiotics: A paradigm integrating, second order cybernetics with the triadic semiotics of C.S. Peirce and Wittgenstein's Pragmatic Language Game theory to a Transdisciplinary Theory of the Self-organization of Meaning" i Revue de la pensée d'aujourd'hui, vol. 25-7. In Japanese!
 26. Brier, S. (1998): "Malcolm Crowe, Richard Beeby and John Gammack. *Constructing systems and information: a process view*. London, New York: McGrawhill, 1999". A review in *Journal of Documentation*, vol. 54, no. 1, Jan.1998, pp. 136-140.
 27. Brier, S. (1998): "Cybersemiotics: a transdisciplinary framework for information studies", *BioSystems* 46 (1998) 185-191.
 28. Brier, S. (1999): "What is a possible ontological and epistemological framework for a true universal "Information science"? The suggestion of a cybersemiotics". *World futures general evolution studies; The quest for a unified theory of Information*: Proceedings of the 2. International Conference on the Foundations of Information Science, 1996, Vienna, Austria, 79-99.
 29. Brier, S. (1999): "Biosemiotics and the foundation of cybersemiotics. Reconceptualizing the insights of Ethology, second order cybernetics and Peirce's semiotics in biosemiotics to create a non-Cartesian information science", *Semiotica*, 127-1/4, 1999, 169-198. Special issue on Biosemiotics.
 30. Brier, S. (1999): "On the Conflict between the Informational and the Semiotic Communicational Paradigm", Proceedings from the 43rd Annual Conference of The International Society for the Systems Sciences, 28. Juni-2. Juli, Asilomar, Ca, USA. CD-ROM, Article no. 99169.
 31. Brier, S. (1999): "The Self-Organization of Knowledge in a World of Complexity: The Interplay of Paradigms of Knowledge in the Non-Cartesian Transdisciplinary Epistemological Framework of Cybersemiotics", Proceedings from the 43rd Annual Conference of The International Society for the Systems Sciences, 28. Juni-2. Juli, Asilomar, Ca, USA. CD-ROM , Article no. 99122.
 32. Brier, S. (2000). "Biosemiotic as a possible Bridge between Embodiment in cognitive Semantics and the Motivation concept of Animal cognition in Ethology". *Cybernetics & Human Knowing*, 7(1), pp 57-75.
 33. Brier, S. (2000): "On the connection between cognitive semantics and ethological concepts of motivation: A possible bridge between embodiment in cognitive semantics and the motivation concept in ethology", Proceedings from the 7th International Congress of the International Association for Semiotic Studies/Association Internationale de Sémiotique (IASS-AIS): *Sign Processes in Complex Systems*, Dresden, University of Technology, October 6-11, 1999. Accepted, in print.

34. Brier, S. (2000): "The relation between the semiotic and the informational research programs in the quest for a united theory for information, cognition and communication", Proceedings from the 7th International Congress of the International Association for Semiotic Studies/Association Internationale de Sémiotique (IASS-AIS): *Sign Processes in Complex Systems*, Dresden, University of Technology, October 6-11, 1999. Accepted in print.
35. Brier, S. (2000): "Trans-Scientific Frameworks of Knowing: Complementarity Views of the Different Types of Human Knowledge", *Yearbook Edition of Systems Research & Behavioral Science*, System Research, **17**, pp. 433-458.
36. Brier, S. (2000): "Cybersemiotics As a Suggestion For FIS". Proceedings of The World Congress of the Systems Sciences And ISSS 2000, International Society for the Systems Sciences, 44th Annual Meeting, July 16-22, 2000, Toronto, Ontario Canada. Article No. 20150 – CD-ROM.
37. Brier, S. (2000): *Cybersemiotics: A Transdisciplinary Framework for Information and Communication Studies*, Compendium for Ph. D.-course in Communication and book manuscript. Preliminary version 11, Jan 2000, pp. 280.
38. Brier, S. (2000): "Biosemiotics as a possible bridge between embodiment in cognitive semantics and the motivation", Proceedings of Nordic-Baltic Summer Congress of ISI, June 2000, Imatra, Finland.
39. Brier, S. (2000): „Konstruktion und Information. Eine semiotische re-entry in Heinz von Foerster's metaphysische Konstruktion der Kybernetik zweiter Ordnung“ i *Beobachtungen des Unbeobachtbaren*, Jahraus, Oliver, Nina Ort und Benjamin Marius Schmidt. Velbrück Wissenschaft, Weilerswist 2000, pp. 254-295.
40. Brier, S. (2001). "Cybersemiotics, Biosemiotics and Ecosemiotics", pp. 7-26 I Tarasti, F, (2001): IST congress paper, Nordic Baltic Summer Inst. For Semiotic and Structural Studies. Ecosemiotics: Studies in Environmental Semiosis, semiotics of Biocybernetic Bodies, Human/too Human/Posthuman. Part IV, June 12-21, 2001, in Imatra, Finland.
41. Combs, A. and Brier, S. (2001): Signs, Information, and Consciousness. *SYSTEMS - Journal of Transdisciplinary Systems Science*, Vol. 5, Number 1-2, Pp.15-24, 2000; Polish Systems Society, Wroclaw, Poland.
42. Thellefsen, T.L., Brier, S. and Thellefsen, M.L. (2001): "Problems concerning the process of subject analysis and the practice of indexing: A Peircian semiotic and semantic approach toward user oriented needs in document searching," *Semiotica*, 144-1/4 (2003), pp.177-218.
43. Brier, S. (2001): "Cybersemiotics and Umweltslehre", *Semiotica*. Special issue on Jakob von Uexküll, 134-1/4, 779-814.
44. Brier, S. (2001): "Ecosemiotics and Cybersemiotics", *Sign System Studies* 29.1, 107-120.
45. Brier, S. (2001): "Cybersemiotics: A Reconceptualization of the Foundation for Information Science ", *Systems Research and Behavioral Science, Yearbook*. Systems Research 18, 421-427.
46. Brier, S. (2001): "The Three Medias Spheres and the Position of the Sciences in the Knowledge Society", Evans, R.H., Andersen, A.M. og Sørensen, H. (ed.) the 5Th *European*

Science Education Summer School: Bridging Research Methodology and Research Aims, Danish University of Education, pp.350-367.

47. N. Sriskandarajah, N. and Søren Brier (2001): "Reflexive experiential practices in learning and science", Foreword, *Cybernetics & Human Knowing*, vol. 7, No. 4. pp.2-3.
<http://www.imprint.co.uk/C&HK/vol7/v7-4ind.html> n
48. Brier, S. (2002): "Intrasemiotics and Cybersemiotics", *Sign System Studies* 30.1:113-127.
49. Brier, S. (2002): "Varela's contribution to the creation of Cybersemiotics: The calculus of self-reference", ASC-column, *Cybernetics & Human Knowing*, 9, 2:77-82.
50. Brier, S. (2002): "The five-leveled Cybersemiotic Model of FIS" (Best paper award in its session), Trappl, R. (ed.): "*Cybernetics and Systems vol. 1, 2002*", Austrian Society for Cybernetic Studies. 1:197-202.
51. Brier, S. (2002): Team 3: *Foundation of Information Science* : John Collier, Allan Combs, Len Troncale, Gerhard Chrust, Magdalena Kalaidjieva, Søren Brier (coordinator), accepted to the newsletter of the International Federation for Systems Research.
52. Brier, S. and Bopry, J. (2002): "Foreword: Hermeneutic Cybernetics", *Cybernetics & Human Knowing*, 9:3/4:3-4.
53. Brier, S. (2002): Team 3: *Foundation of Information Science* : Søren Brier (coordinator), Gerhard Chrust, John Collier, Allan Combs, Magdalena Kalaidjieva, Len Troncale; *The Eleventh Fuschl Conversation (April 7 to 12, 2002)*, Austrian Society for Cybernetic Studies, Reports, ISB 3 85206 166 0.
54. Brier, S. (2002/2003): "Luhmann Semiotized", *Journal of Sociocybernetics*, Vol. 3, No. 2, 2002/2003, pp. 13-22. <http://www.unizar.es/sociocybernetics/Journal/dentro.html>
55. Brier, S. (2003): Information seen as part of the development of living intelligence: the five leveled Cybersemiotic framework for FIS. *Entropy*: 2003,5, 88-99.
<http://www.mdpi.org/entropy/list03.htm>
56. Brier, S. (2003): "Cybersemiotics and the Question of Semiotic and informational Thresholds", *World Futures*, 59: 361-380.
57. Thellefsen, T.L., Brier, S. and Thellefsen, M.L. (2003): "Problems concerning the process of subject analysis and the practice of indexing: A Peircean semiotic and semantic approach toward user oriented needs in document searching," *Semiotica*, 144-1/4 (2003), 177-218.
58. Brier, S. (2003): "The Cybersemiotic model of communication: An evolutionary view on the threshold between semiosis and informational exchange." *TripleC* 1(1): 71-94.
[http://triplec.uti.at/articles/tripleC1\(1\)_Brier.pdf](http://triplec.uti.at/articles/tripleC1(1)_Brier.pdf)
59. Brier, S.: (2004): "Cybersemiotics and the Problem of the Information-Processing Paradigm as a Candidate for a Unified Science of Information Behind Library and Information Science", pp.629-657 in *Library Trends*, Vol. 52, No. 3, Winter 2004.
<http://www.thefreelibrary.com/Cybersemiotics+and+the+problems+of+the+information-processing+...-a0118236070>
60. Brier, S. (2005): "The construction of information and communication: A Cybersemiotic re-entry into Heinz von Foerster's metaphysical construction of second order cybernetics" in *Semiotica* 154-1/4 (2005), 355-399.

61. Brier, S (2005) "Third Culture: Cybersemiotic's inclusion of a Biosemiotic Theory of Mind", *Axiomathes*, 15:211-228.
62. Brier, S, (2005): "Nature and Machine", pp.1747-1751, *Encyclopedia of Science, Technology and Ethics*, Thomson Gale a part of the Thomson Corporation, Farmington Hills, USA.
63. Brier, S. (2005): "System Science and the Cybersemiotic Model of Communication" Gu, Jifa and Crust, Gerhard (eds.)(2005)IFSR 2005: The New Role of System Sciences For a Knowledge Based Society. Proceedings of the First World Congress of the International Federation for Systems Research, Kobe, Japan, CD-ROM, JAIST Press, ISBN 4-903092-02-X.
64. Brier, S. (2006): Peircean Panentheism and Scientific Mysticism, to a proceeding book from a conference on Peirce's religious writings in Denver 2003. Delivered and approved.
65. Brier, s. (2006): "The foundation of LIS in information science and semiotics", LIBREAS, Issue 4 (Winter 2006).
66. Brier. S. (2006): "Biosemiotics", *Int. enc. of Language and Linguistics*. 2end Ed., 2006, vol. 2, pp. 31-40.
67. Brier. S. (2006): *Cybersemiotics: Why Information is not enough*, CBS, Copenhagen: Icon, ISBN 87-593-9986-4, Pp. 554. Danish post-doctoral thesis (Habilitation) defended and approved 6. March 2006 at CBS by professors Ole Fogh Kirkeby, Dirk Baecker and John Deely, ICON, CBS.
68. Brier, S. (2006): "The Cybersemiotic model of communication: An Evolutionary model of the threshold between Semiosis and informational exchange", *Semiotica* 158-1/4 (2006), 225-296.
69. Brier, S. (2006): "Ficta: Remixing generalized symbolic media in the new scientific novel", *Public Understanding of Science* **15** (2006) 153-174.
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71. Brier, S. (2006): "Biosemiotics and the foundation of Cybersemiotics", Farias, P. and Queiroz, J. (2006): *Advanced Studies on Cognitive Science and Semiotics*, Shaker Verlag, Pp. 37-57.
72. Brier, S. (2006): "Systemic Problems in the Post-modern Power-Struggle between the Generalized Media in the Agora: The Lomborg Case of Environmental Science and Politics", *Systems Research*. Volume 23, Issue 5 , Pages 667 – 684.
73. Brier, S. (2006) "The Missing Person: Problems in Reflecting Luhmannian Empirical Systemic Research Results back into a Democratic Society of Embodied, Juridical, Political and Ethical Responsible Subjects". Abstract published on paper, article on CD-ROM. In ISA - International Sociological Association, XVIth World Congress of Sociology, The Quality of Social Existence in a Globalizing World, Durban, South Africa, July 23-29, 2006 - the session *Luhmann Applied* in Research Committee 51 on Sociocybernetics symposium.

74. Brier, S. (2007): "The Cybersemiotics Framework as a means to conceptualize the difference between computing and semiosis", Gordana Dodig Crnkovic and Susan Stuart: *Computation, Information, Cognition: The Nexus and the Liminal*, CSP, pp. 178-195. Proceedings E-CAP 2005 Västerås Universitet, Sverige.
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79. Brier, S. (2008c): "Bateson and Peirce on the pattern that connects and the sacred", Chapter 12 pp- 229-255 in Hoffmeyer, J. (ed.)(2008): *A Legacy for Living Systems: Gregory Bateson as a precursor for biosemiotic thinking*, Biosemiotics 2, London: Springer Verlag.
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<http://www.transpersonalstudies.org/ImagesRepository/ijts/Downloads/A%20Peircean%20Panentheist%20Scientific%20Mysticism.pdf>
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