

# Selmer Bringsjord

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10.15.09

## Education

- PhD, Philosophy. Brown University, Providence, Rhode Island, 1987. Supervisor: Roderick Chisholm.
- BA, Philosophy. University of Pennsylvania, Philadelphia, PA, 1981, *magna cum laude*.

## Employment History

### Administrative

- 2002–present, Chair, Department of Cognitive Science. Rensselaer Polytechnic Institute (RPI).

Have guided the Department of Cognitive Science through: multiple hires of and contracts for senior, world-class faculty, starting tenure-stream faculty, and research and instructional faculty; explosive growth in sponsored research ( $\approx$  \$100,000 lifetime value of department-wide grants at start of my tenure in 2002, to over \$6 million today); the starting and establishment of a new PhD program; and partial but ongoing renovation of its current building and associated spaces. Needless to say, none of this would have been possible without the spectacular productivity of and help from faculty in the department, and the support of administrative superiors. The department's latest curricular initiative is a new BS degree program, one in Cognitive Science, now under final review. Have repeatedly overseen faculty hiring and P&T cases inside and out, at all levels.

- 1996–2002, Associate Chair, Department of Cognitive Science, RPI.
- 2002–present, Director, Rensselaer AI & Reasoning (RAIR) Lab.

At founding, the lab started at zero, with seed funding from RPI for some robotics equipment. R&D has now been made possible by outside support from many sponsors, including DARPA, ARDA/DTO/IARPA, ONR, SAIC, AFRL, AFOSR, NSF, IBM, and others. Much R&D in the lab has been featured in the media.

- 1997–2002, Director, Minds & Machines Lab & Program, RPI.
- Acting Co-Chair, Dept. of Philosophy, Psychology & Cognitive Science, Spring 1996, RPI.
- Acting Chair, Department of Philosophy, Fall 1993, RPI.

### Professorial

- 1997–present, Full Professor, Department of Cognitive Science, Rensselaer Polytechnic Institute (RPI).
- 2001–present, Full Professor, Department of Computer Science, RPI.

- 1987–2000, Affiliated Professor of Computer Science, Department of Computer Science, RPI.
- 1992–1997, Associate Professor, Department of Philosophy, Psychology & Cognitive Science, RPI.
- 1987–1992, Assistant Professor, Department of Philosophy, RPI.
- 1985–1987, Teaching Fellow, Department of Philosophy, Brown University.

### Areas of Specialization

- Artificial Intelligence & Cognitive Science (CogSci), including
  - reasoning (computational, empirical, logico-mathematical, educational dimensions)
  - logico-mathematical foundations of AI & CogSci
  - computational creativity (esp. literary), narrative, story generation
- Philosophy of Mind, including
  - philosophical and psychological foundations of AI & Cog Sci

### Areas of Competency

- Mathematical and Philosophical Logic; Computability Theory
- Psychology of Reasoning
- Digital Teaching/Educational Technology, including distance education
- Epistemology
- Philosophy of Psychology
- Philosophy of Religion
- Ethics

### Publications

- Books
  - Yang, Y. & Bringsjord, S. (forthcoming) *Mental Metalogic: A New, Unifying Theory of Human and Machine Reasoning* (Mahwah, NJ: Lawrence Erlbaum).
  - Bringsjord, S. & Zenzen, M. (2003) *Superminds: People Harness Hypercomputation, and More* (Dordrecht, The Netherlands: Kluwer).
  - Bringsjord, S. and Ferrucci, D. (2000) *Artificial Intelligence and Literary Creativity: Inside the Mind of Brutus, A Storytelling Machine* (Mahwah, NJ: Lawrence Erlbaum).
  - Bringsjord, S. (1997) *Abortion: A Dialogue* (Indianapolis, IN: Hackett).
  - Bringsjord, S. (1992) *What Robots Can and Can't Be* (Dordrecht, The Netherlands: Kluwer).
  - Bringsjord, S. (1991) *Soft Wars* (New York, NY: Penguin USA). A novel.

- Papers/Chapters

- Bringsjord, S. (forthcoming) “Meeting Floridi’s Challenge to Artificial Intelligence from the Knowledge-Game Test for Self-Consciousness” *Metaphilosophy*. Preprint available at  
[http://kryten.mm.rpi.edu/sb\\_on\\_floridi\\_092709-2200NY.pdf](http://kryten.mm.rpi.edu/sb_on_floridi_092709-2200NY.pdf)
- Bringsjord, S., Clark, M. & Taylor, J. (forthcoming) “Sophisticated Knowledge Representation and Reasoning Requires Philosophy” in Ruth Hagenruber, ed., *Philosophy’s Relevance to Information Science*. Preprint available at  
[http://kryten.mm.rpi.edu/philkrr\\_091009.pdf](http://kryten.mm.rpi.edu/philkrr_091009.pdf)
- Bringsjord, S. & Arkoudas, K. (forthcoming) “The Philosophical Foundations of Artificial Intelligence,” *The Cambridge Handbook of Artificial Intelligence*, eds., Frankish, K. & Ramsey, W., (Cambridge, UK: Cambridge University Press). Preprint available at  
[http://kryten.mm.rpi.edu/sb\\_ka\\_fai\\_aihhand.pdf](http://kryten.mm.rpi.edu/sb_ka_fai_aihhand.pdf)
- Bringsjord, S. (forthcoming) “God, Souls, and Turing: A Defense of the Theological Objection to the Turing Test.” This paper arose from a March-2009 symposium at the University of Reading in England on the Turing Test, and will appear in a volume edited by Mark Bishop arising from the symposium. A preprint of the paper can be obtained at  
[http://kryten.mm.rpi.edu/sb\\_theo\\_obj\\_tt\\_051909.pdf](http://kryten.mm.rpi.edu/sb_theo_obj_tt_051909.pdf)
- Bringsjord, S. (forthcoming) “Artificial Intelligence,” in the *Stanford Encyclopedia of Philosophy*. An in-progress version of the entry, now nearing completion, can be found at  
<http://kryten.mm.rpi.edu/SEP/index8.html>  
 (Unfortunately, this link may be inactive leading up to the official release of the entry in SEP. If so, please email Bringsjord for a standalone, compressed file.)
- Shilliday, A., Taylor, J., Clark, M. & Bringsjord, S. (forthcoming) “Provability-Based Semantic Interoperability for Information Sharing and Joint Reasoning” in Ceusters, W., Janssen, T., Orbst, L., eds., *Ontologies for Intelligence Analysis* (Amsterdam, The Netherlands: IOS Press). A preprint can be obtained at  
<http://kryten.mm.rpi.edu/toward.pbsi4oic.pdf>
- Arkoudas, K. & Bringsjord, S. (2009) “Vivid: An AI Framework for Heterogeneous Problem Solving” *Artificial Intelligence* **173.15**: 1367–1405. The following url provides a preprint of the penultimate draft only:  
<http://kryten.mm.rpi.edu/vivid/vivid.pdf>
- Sun, R. & Bringsjord, S. (2009) “Cognitive Systems and Cognitive Architectures” in Vol. 1 of the five-volume *The Wiley Encyclopedia of Computer Science and Engineering* (New York, NY: Wiley), pp. 420–428. The set is edited by Benjamin W. Wah. ISBN for the five-volume set is 978-0-471-38393-2. A preprint can be obtained at  
[http://kryten.mm.rpi.edu/rs\\_sb\\_wileyency\\_pp.pdf](http://kryten.mm.rpi.edu/rs_sb_wileyency_pp.pdf)
- Arkoudas, K. & Bringsjord, S. (2009) “Propositional Attitudes and Causation” *International Journal of Software and Informatics* **3.1**: 47–65. Preprint available at  
[http://kryten.mm.rpi.edu/PRICAI\\_w\\_sequentcalc\\_041709.pdf](http://kryten.mm.rpi.edu/PRICAI_w_sequentcalc_041709.pdf)
- Bringsjord, S. (2009) “General Intelligence and Hypercomputation” in Goertzel, B., Hitzler, P., Hutter, M., eds. *Artificial General Intelligence – Second Conference on Artificial Intelligence (AGI 2009)* (Paris, France: Atlantis Press), pp. 202–203. This book is part of the series *Advances in Intelligent Systems Research* (ISSN: 1951-6851) published by Atlantis Press.

- Bringsjord, S. & Li, J. (2008) “Toward Aligning Computer Programming with Clear Thinking via the Reason Programming Language.” In Briggie, A., Waelbers, K., & Brey, P., eds., *Current Issues in Computing and Philosophy Vol 175 Frontiers in Artificial Intelligence and Applications* (Amsterdam, The Netherlands: IOS Press), pp. 156–170. Preprint available at  
[http://kryten.mm.rpi.edu/Selmer\\_clear\\_prog\\_Dec17.pdf](http://kryten.mm.rpi.edu/Selmer_clear_prog_Dec17.pdf)
- Bringsjord, S. (2008) “The Logicist Manifesto: At Long Last Let Logic-Based Artificial Intelligence Become a Field Unto Itself” *Journal of Applied Logic* **6.4**: 502–525. Preprint available at  
[http://kryten.mm.rpi.edu/SB\\_LAI\\_Manifesto.091808.pdf](http://kryten.mm.rpi.edu/SB_LAI_Manifesto.091808.pdf)
- Bringsjord, S. (2008) “Ethical Robots: The Future Can Heed Us,” *AI and Society* **22.4**: 539–550. Offprint available at  
[http://kryten.mm.rpi.edu/Bringsjord\\_EthRobots\\_searchable.pdf](http://kryten.mm.rpi.edu/Bringsjord_EthRobots_searchable.pdf)
- Bringsjord, S. (2008) “Declarative/Logic-Based Computational Cognitive Modeling,” in Sun, R., ed., *The Cambridge Handbook of Computational Psychology* (Cambridge, UK: Cambridge University Press), pp. 127–169. Preprint available at  
[http://kryten.mm.rpi.edu/sb\\_lccm\\_ab-toc\\_031607.pdf](http://kryten.mm.rpi.edu/sb_lccm_ab-toc_031607.pdf)
- Arkoudas, K. & Bringsjord, S. (2008) “Toward Formalizing Common-Sense Psychology: An Analysis of the False-Belief Task” *Proceedings of the Tenth Pacific Rim International Conference on Artificial Intelligence (PRICAI 2008)*. *Lecture Notes in Artificial Intelligence (LNAI)*, No. 5351, T.-B. Ho and Z.-H. Zhou, eds. (New York, NY: Springer-Verlag), pp. 17–29. A preprint can be obtained at  
[http://kryten.mm.rpi.edu/KA\\_SB\\_PRICAI08\\_AIoff.pdf](http://kryten.mm.rpi.edu/KA_SB_PRICAI08_AIoff.pdf)
- Bringsjord, S., Taylor, J., Shilliday, A., Clark, M. & Arkoudas, K. (2008) “Slate: An Argument-Centered Intelligent Assistant to Human Reasoners” in *Proceedings of the 8th International Workshop on Computational Models of Natural Argument (CMNA 8)*, Grasso, F., Green, N., Kibble, R. & Reed, C., eds. Pages 1–10, Patras, Greece, July 21, ISBN: 978-960-6843-12-9. An offprint can be obtained at  
[http://kryten.mm.rpi.edu/Bringsjord\\_etal\\_Slate\\_cmna\\_crc.061708.pdf](http://kryten.mm.rpi.edu/Bringsjord_etal_Slate_cmna_crc.061708.pdf)
- Bringsjord, S. (2008) “If I Were Judge” in R. Epstein, G. Roberts, G. Beber, eds., *Parsing the Turing Test: Philosophical and Methodological Issues in the Quest for the Thinking Computer* (Springer: New York, NY), pp. 89-102. An offprint can be obtained at  
<http://kryten.mm.rpi.edu/SB.If.I.Were.Judge2.pdf>
- Bringsjord, S., Shilliday, A., Taylor, J., Werner, D., Clark, M., Charpentier, E. & Bringsjord, A. (2008) “Toward Logic-Based Cognitively Robust Synthetic Characters in Digital Environments” in *Artificial General Intelligence 2008. Frontiers in Artificial Intelligence and Applications*, Wang, P., Goertzel, B. & Franklin, S., eds. (Amsterdam, The Netherlands: IOS Press), pp. 87–98.  
 A preprint can be obtained at  
[http://kryten.mm.rpi.edu/sb\\_etal\\_agi2008\\_frames.pdf](http://kryten.mm.rpi.edu/sb_etal_agi2008_frames.pdf)
- Clark, M. & Bringsjord, S. (2008) “Persuasion Technology Through Mechanical Sophistry” in *AISB 2008 Convention on Communication, Interaction, and Social Intelligence; Volume 3: Proceedings of the AISB 2008 Symposium on Persuasive Technology* (Brighton, England: Society for the Study of Artificial Intelligence and Simulation of Behavior), pp. 51–54. An offprint can be obtained at  
[http://kryten.mm.rpi.edu/Clark\\_Bringsjord\\_PersuasionAISB2008.pdf](http://kryten.mm.rpi.edu/Clark_Bringsjord_PersuasionAISB2008.pdf)

- Bringsjord, S., Shilliday, A., Clark, M., Werner, D., Taylor, J., Bringsjord, A. & Charpentier, E. (2007) “Toward Cognitively Robust Synthetic Characters in Digital Environments” in *Proceedings of the First Conference on Artificial General Intelligence (AGI-08)*, in the series *Frontiers in Artificial Intelligence and Applications*, edited by Wang, P., Goertzel, G. & Franklin, S. Preliminary version of the paper available at  
[http://kryten.mm.rpi.edu/sb\\_et\\_al\\_agi2008.pdf](http://kryten.mm.rpi.edu/sb_et_al_agi2008.pdf)
- Shilliday, A., Taylor, J. & Bringsjord, S. (2007) “Toward Automated Provability-Based Semantic Interoperability Between Ontologies for the Intelligence Community.” In Hornsby, K.S., ed., *Proceedings of: Ontology for the Intelligence Community: Towards Effective Exploitation and Integration of Intelligence Resources (OIC-2007)*, (Buffalo, NY: National Center for Ontological Research), pp. 67–72. An offprint is available at  
[http://kryten.mm.rpi.edu/as\\_jt\\_sb\\_oic2007.pdf](http://kryten.mm.rpi.edu/as_jt_sb_oic2007.pdf)
- Taylor, J., Shilliday, A. & Bringsjord, S. (2007) “Provability-Based Semantic Interoperability via Translation Graphs” in *Advances in Conceptual Modeling; Lecture Notes in Computer Science* (New York, NY), pp. 180–189. A camera-ready copy is available at  
 \* [http://kryten.mm.rpi.edu/jt\\_as\\_sb\\_PBSITG\\_crc.pdf](http://kryten.mm.rpi.edu/jt_as_sb_PBSITG_crc.pdf)
- Arkoudas, K. & Bringsjord, S. (2007) “Computers, Justification, and Mathematical Knowledge” *Minds and Machines* **17.2**: 185–202. Offprint available at  
[http://kryten.mm.rpi.edu/ka\\_sb\\_proofs\\_offprint.pdf](http://kryten.mm.rpi.edu/ka_sb_proofs_offprint.pdf)
- Bringsjord, S. (2007) “Offer: One Billion Dollars for a Conscious Robot. If You’re Honest, You Must Decline” *Journal of Consciousness Studies* **14.7**: 28–43. Offprint available at  
<http://kryten.mm.rpi.edu/jcsonebillion2.pdf>
- Bringsjord, S., Arkoudas, K., Mukherjee, D., Shilliday, A., Taylor, J., Clark, M. & Bringsjord, E. (2007) “The Multi-Mind Effect” in *Proceedings of the 2007 International Conference on Artificial Intelligence* (Las Vegas, NV: CSREA Press), pp. 43–49. Offprint available at  
[http://kryten.mm.rpi.edu/Bringsjord\\_MultiMind\\_ICAI07.pdf](http://kryten.mm.rpi.edu/Bringsjord_MultiMind_ICAI07.pdf)
- Bringsjord, S., Arkoudas, K., Clark, M., Shilliday, A., Taylor, J., Schimanski, B. & Yang, Y. (2007) “Reporting on Some Logic-Based Machine Reading Research,” in Etzioni, O., ed., *Machine Reading: Papers from the AAAI Spring Symposium Technical Report SS-07-06*, pp. 23–28. Preprint available at  
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- Bringsjord, S., Shilliday, A., Taylor, J., Bello, P., Yang, Y., & Arkoudas, K. (2006) “Harnessing Intelligent Agent Technology to ‘Superteach’ Reasoning” *International Journal of Technology in Teaching and Learning* **2.2**: 88–116. Available online at  
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 In addition, preprint available at  
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- Bringsjord, S. & Arkoudas, K. (2006) “On the Provability, Veracity, and AI-Relevance of the Church-Turing Thesis” in A. Olszewski, J. Wolenski, R. Janusz, eds., *Church’s Thesis After 70 Years* (Frankfurt, Germany: Ontos Verlag), pp. 66–118. This book is in the series *Mathematical Logic*, edited by W. Pohlers, T. Scanlon, E. Schimmerling, R. Schindler, and H. Schwichtenberg. Offprint available at  
[http://kryten.mm.rpi.edu/ct\\_bringsjord\\_arkoudas\\_final.pdf](http://kryten.mm.rpi.edu/ct_bringsjord_arkoudas_final.pdf)
- Bringsjord, S., Arkoudas, K. & Bello, P. (2006) “Toward a General Logicist Methodology for Engineering Ethically Correct Robots,” *IEEE Intelligent Systems* **21.4**: 38–44 (Jul/Aug). The first of the following links goes to a preprint (with typos fixed in the actual paper); the second goes to an earlier version of the paper.

- [http://kryten.mm.rpi.edu/bringsjord\\_inference\\_robot\\_ethics\\_preprint.pdf](http://kryten.mm.rpi.edu/bringsjord_inference_robot_ethics_preprint.pdf)  
[http://kryten.mm.rpi.edu/sb\\_ieee\\_intsys\\_051606.pdf](http://kryten.mm.rpi.edu/sb_ieee_intsys_051606.pdf)
- Bringsjord, S., Kellett, O., Shilliday, A., Taylor, J., van Heuveln, B., Yang, Y., Baumes, J. & Ross, K. (2006) “A New Gödelian Argument for Hypercomputing Minds Based on the Busy Beaver Problem,” *Journal of Applied Mathematics and Computation* **176**: 516–530. Offprint available at  
[http://kryten.mm.rpi.edu/sb\\_et\\_al\\_godel\\_bb.pdf](http://kryten.mm.rpi.edu/sb_et_al_godel_bb.pdf)
  - Yang, Y., Bringsjord, S. & Bello, P. (2006) “The Mental Possible Worlds Mechanism and the Lobster Problem: An Analysis of a Complex GRE Logical Reasoning Task,” *Journal of Experimental and Theoretical Artificial Intelligence* **18.2**: 157–168.
  - Bringsjord, S. & Clark, M. (2006) “For Sufficiently Hard Problems ... AI Needs CogSci,” in C. Lebiere & R. Wray, eds., *Between a Rock and a Hard Place: Cognitive Science Principles Meet AI-Hard Problems, Papers from the AAAI Spring Symposium Technical Report SS-06-02*, pp. 23–26. Preprint available at  
<http://kryten.mm.rpi.edu/SS0602BringsjordS.pdf>
  - Bringsjord, S. & Yang, Y. (2006) “Human Reasoning is Heterogeneous—as Jon Barwise Informed Us,” *Journal of Experimental and Theoretical Artificial Intelligence* **18.2** 117–119. Preprint available at  
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  - Bringsjord, S., Khemlani, S., Arkoudas, K., McEvoy, C., Destefano, M., Daigle, M. (2005) “Advanced Synthetic Characters, Evil, and E,” *Game-On 2005, 6<sup>th</sup> International Conference on Intelligent Games and Simulation*, (Ghent-Zwijnaarde, Belgium: European Simulation Society), pp. 31–39. This paper won the “Best Paper” award. Offprint available at  
<http://kryten.mm.rpi.edu/GameOnpaper.pdf>
  - Two papers in the Proceedings for the American Association for Artificial Intelligence’s Fall Symposium on Machine Ethics:
    - \* Bringsjord, S. (2005) “Ethical Robots: The Future Can Heed Us.” *Machine Ethics: Papers from the AAAI Fall Symposium*, Technical Report FS–05–06, pp. 24–29. Preprint available at  
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    - \* Arkoudas, K., Bringsjord, S. & Bello P. (2005) “Toward Ethical Robots via Mechanized Deontic Logic.” *Machine Ethics: Papers from the AAAI Fall Symposium*, Technical Report FS–05–06, pp. 17–23. Preprint available at  
<http://kryten.mm.rpi.edu/FS605ArkoudasAndBringsjord.pdf>
  - Bringsjord, S. & Arkoudas, K. (2004) “The Modal Argument for Hypercomputing Minds,” *Theoretical Computer Science* **317**: 167–190. Available at  
<http://kryten.mm.rpi.edu/modal.hypercomputing.pdf>
  - Bringsjord, S. (2004) “On Building Robot Persons: Response to Zlatev,” *Minds and Machines* **14**: 381–385. Offprint available at  
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  - Arkoudas, K. & Bringsjord, S. (2004) “Metareasoning for Multi-agent Epistemic Logics,” in *Proceedings of the Fifth International Conference on Computational Logic In Multi-Agent Systems (CLIMA 2004)*, Lisbon, Portugal, September 2004, pp. 50–65. The paper appears in expanded form in a book from Springer-Verlag, in
    - \* Arkoudas, A. & Bringsjord, S. (2005) “Metareasoning for Multi-agent Epistemic Logics,” in *Lecture Notes in Artificial Intelligence (LNAI)*, (New York, NY: Springer-Verlag), pp. 111–125.

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<http://kryten.mm.rpi.edu/arkoudas.bringsjord.clima.crc.pdf>

- Bello, P., Bringsjord, S. & Yang, Y. (2004) “Cognitive Architectures, Rationality and Next-Generation AI: A prolegomenon.” *Proceedings of SPIE – Enabling Technologies for Simulation Science VIII*, Dawn A. Trevisani, Alex F. Sisti, Eds, Vol 5423, pp. 100–109.
- Bringsjord, S. & Schimanski, B. (2004) “Pulling It All Together via Psychometric AI,” in *Achieving Human-Level Intelligence Through Integrated Systems and Research* Technical Report FS-04-01 (Menlo Park, CA: AAAI Press), pp. 9–16.
- Yang, Y. & Bringsjord, S. (2003) “Newell’s Program, Like Hilbert’s, is Dead; Let’s Move On,” *Behavioral and Brain Sciences* **26.5**: 627.
- Bringsjord, S. & Yang, Y. (2003) “The Problems that Generate the Rationality Debate are Too Easy, Given What our Economy Now Demands,” *Behavioral and Brain Sciences* **26.4**: 528–530. Offprint available at  
<http://kryten.mm.rpi.edu/sb.yy.stanovich.pdf>
- Bello, P. & Bringsjord, S. (2003) “HILBERT and PATRIC: Hybrid Intelligent Agent Technology for Teaching Context-Independent Reasoning,” *Educational Technology & Society* **6.3**: 30–42. Also available online at  
\* [http://ifets.ieee.org/periodical/6\\_3/5.html](http://ifets.ieee.org/periodical/6_3/5.html)
- Bringsjord, S. & Schimanski, S. (2003) “What is Artificial Intelligence? Psychometric AI as an Answer,” *Proceedings of the 18<sup>th</sup> International Joint Conference on Artificial Intelligence (IJCAI-03)* (San Francisco, CA: Morgan Kaufmann), pp. 887–893. Offprint available at  
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<http://kryten.mm.rpi.edu/searlebook1.pdf>
- Bringsjord, S., Noel, R. & Ferrucci, D. (2002) “Why Did Evolution Engineer Consciousness?” in Fetzer, J. and Mulhauser, G., eds., *Consciousness Evolving* (Amsterdam, The Netherlands: John Benjamins), pp. 111–138. Offprint available at  
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  - Bringsjord, S. (2001) “In Computation, Parallel is Nothing, Physical Everything,” *Minds and Machines* **11**: 95–99. Preprint available at [http://kryten.mm.rpi.edu/parallel\\_mm.pdf](http://kryten.mm.rpi.edu/parallel_mm.pdf)
  - Rinella, K., Bringsjord, S. & Yang, Y. (2001) “Efficacious Logic Instruction: People are not Irremediably Poor Deductive Reasoners,” in Moore, J.D. & Stenning, K., eds., *Proceedings of the Twenty-Third Annual Conference of the Cognitive Science Society* (Mahwah, NJ: Lawrence Erlbaum Associates), pp. 851–856. Preprint available at <http://kryten.mm.rpi.edu/SELPAP/COGSCI01/mml.efficacy.doc>
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  - Bringsjord, S., Bello, P., Ferrucci, D. (2001) “Creativity, the Turing Test, and the (Better) Lovelace Test,” *Minds and Machines* **11**: 3–27. This is the full paper based on my presentation at Turing 2000, the conference at Dartmouth held to commemorate the birth of AI and Turing’s prediction that by the year 2000 a machine would be built that could pass the famous test that now bears his name (the “Turing Test”). The paper appears in a more recent book:
    - \* Bringsjord, S., Bello, P., & Ferrucci, D. (2003) “Creativity, the Turing Test, and the (Better) Lovelace Test,” in Moor, J., ed., *The Turing Test: The Elusive Standard of Artificial Intelligence* (Dordrecht, The Netherlands: Kluwer Academic Publishers), pp. 215–226.
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  - Bringsjord, S. (2000) “Clarifying the Logic of Anti-Computationalism: Reply to Hauser,” *Minds & Machines* **10**: 111–113.
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  - Bringsjord, S. (1998) “Chess Is Too Easy,” *Technology Review* **101.2**: 23–28. This is an expanded version of one part of the paper Bringsjord, S. & Lally, A. (1997) “Chess Isn’t Tough Enough: Better Games for Mind-Machine Competition,” in *Collected Papers from the 1997 AAAI Workshop Deep Blue versus Kasparov: The Significance for Artificial Intelligence*, Technical Report WS-97-04, (Menlo Park, CA: AAAI Press), pp. 14–19. The “Chess is Too Easy” paper is available from the top level of my web site (under archived material) at <http://www.rpi.edu/~brings>
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    - \* (1997) “Philosophy and Electronic Publishing,” *Monist* **80.3**: 348–367. Editors: Michael Biggs, Claus Huitfeldt. Authors: Selmer Bringsjord, Paul Bohan-Broderick, Espen S. Ore, Alois Pichler, Darrell Raymond, Allen Renear, Michael Sperberg-McQueen.
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    - \* Bringsjord, S. (2000) “Capitolo tredicesimo Filosofia e ‘super’-computazione,” in *La fenice digitale: Come i computer stanno cambiando la filosofia* (Milan, Italy: Apogeo), pp. 253–276. Translated by Fabrizio Comolli, Alessia Dimitri, Faffaele Di Noia, Sabrina Fusari, Alberto Mari, Virginio Sala.

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- Bringsjord, S. (1993) “Toward Non-Algorithmic AI,” in Ryan, K. T. & Sutcliffe, R. F. E., eds., *AI and Cog Sci 92*, in the *Workshop in Computing Series*, Springer-Verlag, pp. 277–288.
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<http://kryten.mm.rpi.edu/ABACUSV2No4Summer85.finished.pdf>

- Electronic Publications

- Bringsjord, S. (2001/2002) “AI Research to AI Business, and Back: Automatic Story Generation and Intelligent Document Production,” *PC AI* **16.1**: 36-43.
- Bringsjord, S. (2001) “Is It Possible to Build Dramatically Compelling Interactive Digital Entertainment (in the form, e.g., of computer games)?” *Game Studies* 1(1). This is the inaugural issue. Url:  
<http://www.gamestudies.org>
- Papers in *Psyche*:<sup>1</sup>
  - \* Bringsjord, S. (1994) “Baars Falls Prey to the Timidity He Rejects,” *Psyche* **1.10**.
  - \* Bringsjord, S. (1994) “Searle on the Brink,” (1994) *Psyche* **1.1**.
- Papers in *Psychology*:<sup>2</sup>
  - \* Bringsjord, S (1998) “Domain-independent Abstract Mediating States are a Function of Education,” *Psychology* 9(85).

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<sup>1</sup>*Psyche* available at

<http://psyche.cs.monash.edu.au>

<sup>2</sup>*Psychology* available at

<http://www.cogsci.soton.ac.uk/psychology>

- \* Bringsjord, S. (1998) “Domain-Independent Abstract Mediating States and AI,” *Psychology* 9(53).
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- \* Bringsjord, S. (1994) “Precis of *What Robots Can and Can’t Be*” *Psychology* 5(59).

- Book Reviews

- Bringsjord, S. & Bringsjord, A. (forthcoming) Review of G. Marcus’ *Kluge for Philosophical Psychology*.
- Bringsjord, S., Arkoudas, K., Schimanski, B. (forthcoming) This is a review essay treating the state of logic-based AI as we start the new millennium. The essay will be factor in three recent books:
  - \* Brachman, R. & Levesque, H. (forthcoming) *Knowledge Representation and Reasoning* (Amsterdam, The Netherlands: Elsevier).
  - \* Fagin, R., Halpern, J., Moses, Y. & Vardi, M. (2003) *Reasoning About Knowledge* (Cambridge, MA: MIT Press).
  - \* Halpern, J. (2003) *Reasoning About Uncertainty* (Cambridge, MA: MIT Press).
- Bringsjord, S. (forthcoming) Review of *Belief and Knowledge: Mapping the Cognitive Landscape* by Kenneth Sayre, *Philosophy and Phenomenological Research*.
- Bringsjord, S. (forthcoming) Review of *Artificial Life: An Overview*, edited by Christopher Langton, *Minds and Machines*.
- Bringsjord, S. (forthcoming) Review of *Evolutionary Computation: Toward a New Philosophy of Machine Intelligence* by David Fogel, in *IEEE Spectrum*.
- Bringsjord, S. (2000) Review of John Searle’s *The Mystery of Consciousness*, *Minds & Machines* **10.3**: 457–459.
- Bringsjord, S. (2000) “In Light of Artificial Intelligence, the Science of Mental Ability is Either Silly or Pointless: Review of Jensen’s *The g Factor*,” *Psychology* 11(44).
- Bringsjord, S. (2000) Review of *Mind and Brain Sciences in the 21st Century*, edited by R.L. Solso, 1997, (Cambridge, MA: MIT Press), *Journal of Consciousness Studies* **7.5**: 87–88.
- Bringsjord, S. (1999) Review of both Daniel Dennett’s *Brainchildren* (Cambridge, MA: MIT Press) and P.M. Churchland & P.S. Churchland’s *On the Contrary* (Cambridge, MA: MIT Press), in *IEEE Spectrum* **36.3**: 9–12.

- Bringsjord, S. (1999) Review of Hans Moravec’s *Robot: From Mere Machine to Transcendent Mind*, *IEEE Spectrum* **36.10**: 14.
- Bringsjord, S. (1999) Review of *The Churchlands and Their Critics*, edited by R.N. McCauley, 1996, (Oxford, UK: Blackwell), in *Philosophy in Review* **XIX.1**: 39–40.
- Bringsjord, S. & Daraio, J. (1999) Eccles-iastical Dualism: Review of *Evolution of the Brain: Creation of the Self* by John Eccles, (London, UK: Routledge), *Psyche* **5**.
- Bringsjord, S. (1996) Review of Giorgio Levi’s (ed.) *Advances in Logic Programming Theory*, 1994, (Oxford, UK: Oxford University Press), *History and Philosophy of Logic* **17**: 170–172.
- Bringsjord, S. & Patterson, W. (1995) Review of John Searle’s *The Rediscovery of the Mind*, *Minds & Machines* **5.2**: 302–307.
- Bringsjord, S. (1994) Review of Margaret Boden’s *Myths and Mechanisms*, *Behavioral and Brain Sciences* **17.3**: 532–533.
- Bringsjord, S. & Welty, C. (1994) Review of Ken Ford & Pat Hayes, eds., *The Frame Problem: Reasoning in a Dynamic World*, in *AI Magazine* **15.1**: 69–72.

- Essays

- “Letter From a Happy Socialist,” *The Record*, October 30, 2008, p. 11. Offprint available at
  - \* [http://kryten.mm.rpi.edu/sb\\_happysocialist10-30-08.pdf](http://kryten.mm.rpi.edu/sb_happysocialist10-30-08.pdf)
- “Only a Technology Triad Can Tame Terror,” *The Record*, September 7, 2007, p. 11. (Note: My recommendations here only make sense in the context of the technologies I advocate for ensuring that autonomous AI systems are certified to be under the control of human-selected ethical codes.) Offprint available at
  - \* <http://kryten.mm.rpi.edu/tamerror.pdf>
- “The Irrationality of the Free Software Movement.” This one is a bit unusual. It doesn’t appear in a newspaper. It was penned for my appearance on a panel with Richard Stallman and Peter Suber at NA-CAP 2007 — an appearance made the day after Stallman, suitably clothed, proclaimed himself a saint in the Church of Emacs, and then entered into rather heated debate with audience members, one of whom was me. The piece can be retrieved at
  - [http://www.rpi.edu/~brings/sb\\_idiocy\\_fsm.pdf](http://www.rpi.edu/~brings/sb_idiocy_fsm.pdf)
- “Fighting the Cobalt Dream,” *The Record*, April 1, 2003, A4.
- “We Need Smart Machines to Vanquish Terrorism,” *The Record*, November 23, 2001. Preprint available at
  - <http://www.mm.rpi.edu/NEWSP/smartmachines.vs.terrorism4.pdf>
- “Why Not Shoot?” *Los Angeles Times*, March 26, 2001, B7. (Actually, the title was changed by the *LA Times* to “Some People Won’t Ask ‘Why Not?’ ”.) The full, unedited version is available at
  - <http://www.rpi.edu/~brings/shoot3.pdf>
- “A Contrarian Future for Minds and Machines,” *Chronicle of Higher Education*, November 3, 2000, B5. Reprinted in *The Education Digest* **66.6**: 31–33.
- “Pecadillo Potentially More Than Personal,” *The Record*, October 10, 1998.
- “Contrarian Planning in the Town of Brunswick,” *The Record*, August 24, 1997.

- “The Mysterious Chamber of Commerce,” *The Record*, October 15, 1994.
  - “On Protectionism.” *Perspective: Journal of Opinion*, Sunday Times-Union, December 17, 1989.
  - “The Solution to Troy’s Redistricting Controversy: Democracy!” *The Record*, February 7, 1992.
  - “The Idiocy of Incineration,” *The Record*, June 26, 1992.
  - “The Missing Candidate,” *The Record*, October 24, 1992.
  - “The Best Place to Live,” *Sunday Gazette*, November 8, 1992.
  - “Socialists are Happy Campers,” *The Record*, March 17, 1993.
  - “The Idiocy of Incineration II,” *The Record*, September 18, 1993.
- Book Proposals Under Development
    - Bringsjord, S. *Gödel and the Mind*. Proposal will go to Cambridge University Press.
    - *The Logical Minds Manifesto*: by Selmer Bringsjord and Yingrui Yang.
- Technical Books in Progress
    - Bringsjord, S. (forthcoming) *Humanity on Trial: A Dialogue on Human Rationality* (Indianapolis, IN: Hackett).
    - Bringsjord, S. and Arkoudas, K. *Logic, Computability, and Uncomputability*, comprehensive advanced textbook for graduate students in philosophy, logic, cognitive and computer science, and mathematics. Part of working manuscript in use for the courses *Computability and Logic* and *Introduction to Logic Programming*.
- Papers in Progress (one selected from many)
    - “On ‘Squeezing’ Proofs of the Church-Turing Thesis.” This is a technical paper analyzing the possibility that a so-called “squeezing” proof of CTT can be achieved. Most people in computing are of the view that CTT is unprovable because the concept of *effectively computable* function (as opposed to, say, *Turing-computable*) is intuitive. One contrarian is Elliot Mendelsohn, and I have already analyzed his argument and found it wanting. But a more technical approach, based on the Kolmogorov-Upsnekii account of what an algorithm is, has been given by the logician Peter Smith, and I am analyzing this fascinating work.
- Fiction in Progress
    - *Three Putt Lie*, a novel
    - *The Final Case*, a novel
    - *Steal Nerves*, a novel, with Dr. Kenneth Burchard.
- *Selected Unpublished Works* (most of my writings are unpublished)
    - Bringsjord, S. (2009) *Calculi of Death* (a play). Available at [http://kryten.mm.rpi.edu/SB.Calculi\\_of\\_Death\\_101509.pdf](http://kryten.mm.rpi.edu/SB.Calculi_of_Death_101509.pdf)

- Bringsjord, S. (2007) “Philosophical Engineering: Some Reflections.” Accepted for WPE-2007 (Workshop on Philosophy and Engineering).. This extended abstract can be obtained online at  
[http://kryten.mm.rpi.edu/sb\\_philosophicalengineering.pdf](http://kryten.mm.rpi.edu/sb_philosophicalengineering.pdf)
- Bringsjord, S., Shilliday, A., Taylor, J., Clark, M. & Khemlani, S. (2006) “Slate: An Argument-Centered Intelligent Assistant to Professional Reasoners.” Accepted for CMNA06 at ECAI06, Riva Del Garda, Italy. Paper can be found online at  
[http://kryten.mm.rpi.edu/bringsjord\\_cmna06.pdf](http://kryten.mm.rpi.edu/bringsjord_cmna06.pdf)
- These days I’m too busy to publish the short stories I write, so generally I only write for my own pleasure in this arena. A recent short story is “He Tells Me Lots of Things,” available at  
[http://kryten.mm.rpi.edu/he\\_tells\\_me\\_lots6.pdf](http://kryten.mm.rpi.edu/he_tells_me_lots6.pdf)
- Bringsjord, E. & Bringsjord, S. (2001) “Exploring the Relationship Between Logic Background and Performance on the Analytical Section of the GRE.” Full paper available at  
<http://kryten.mm.rpi.edu/bringsjordx2-1.logic.gre1.doc>
- Bringsjord, S. (unpublished manuscript) “Artificial Life: AI’s Immature Brother?” A review article of the 1,509 page volumes *Artificial Life* and *Artificial Life II*, published by Addison-Wesley, which comprises the Proceedings of the 1987, 1990 International Workshops on Artificial Life. Written for and made available to students at Rensselaer, but also available for others.

## Patents

- *Method and System for the Theme-Based Automatic Creation of Stories.* #7333967. Issue date: 2.19.08. Co-invented with Dr. David Ferrucci of IBM, this patent describes a generic system architecture for automatic story generation. It represents a hybrid of classical approaches uniquely integrated around the concept of a theme-driven approach to capturing the concept of “interestingness.” It submits several claims that capture a series of novel enhancements for implementing story generation systems that exhibit literary creativity.

## Honors

- 2008 Undergraduate Research Program Mentor Award
- 2004 Trustees (Annual) Outstanding Achievement Award (scholarly productivity)
- The 1995 Hesburgh Award (member of winning Rensselaer team; for excellence in undergraduate education, specifically for computer-based interactive learning)
- Recipient of the Annual Rensselaer Early Career Award (for “outstanding scholarly activity”; awarded by faculty, 1993)
- “Albany Author of the Year” (Friends of the Albany Public Library; 23<sup>rd</sup> annual award, William Kennedy a previous winner), 1991.
- Teaching Fellowships and University Scholarships, Brown University
- Magna Cum Laude, University of Pennsylvania

- Dean’s List all semesters, University of Pennsylvania
- Philomathean Society, University of Pennsylvania
- New York State Regents Scholarship

## Teaching<sup>3</sup>

- *Graduate Seminars, Rensselaer*<sup>4</sup>
  - Guest lectures in ProSem for PhD in Cognitive Science. I tend to lecture on logic, and logic as it intersects with AI. Material used for recent lectures:
    - \* “Gödel’s Incompleteness Theorems.” Slides available online as pdf and tar.gz of underlying keynote.
  - Logic and Artificial Intelligence
    - \* This is the grad seminar I teach each Spring, when not charged out. The specific topic of the course is new each year, and corresponds to R&D I’m working on that year.
  - Philosophy of Mind
  - Logic Programming and Artificial Intelligence
    - \* <http://www.rpi.edu/~brings/ilogprog.html>
  - AI & Text Generation
  - Action Theory
  - Topics in Natural Language and AI
- *Undergraduate, Rensselaer*
  - Paradox and the Mind
  - Philosophy of Artificial Intelligence
    - \* <http://www.rpi.edu/~brings/pai.html>
  - Psychology of Reasoning
  - Cognitive Psychology
  - Introduction to Philosophy
  - Philosophy of Mind Through Film
  - Introduction to Artificial Intelligence<sup>5</sup>
    - \* <http://www.rpi.edu/~brings/intai.html>
  - Introduction to Logic
    - \* <http://www.rpi.edu/~brings/logarg.html>
  - Intermediate Mathematical Logic (Computability & Logic)

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<sup>3</sup>Teaching evaluation data—showing my courses to be regularly rated among the highest at Rensselaer—available on request. Significant portions of many of the courses listed below are available on my web site — but, confessedly, the information is rather old, because I was charged out for most of the time from 2003–2009.

<sup>4</sup>Most (all after  $\approx$  1995) graduate seminars cross-listed in computer science, philosophy, cognitive science, and in some cases in psychology as well.

<sup>5</sup>This course has been taught as a computer science course to students across the country through RSVP, Rensselaer’s distance learning division.

- Introduction to Cognitive Science
- *Sample Independent Studies, Rensselaer*
  - Risk<sup>TM</sup> in LISP
  - Propositional Modal Logic
  - Quantified Modal Logic
  - Doxastic AI and Logic-Based AI
  - Trial & Error Machines & the Arithmetic Hierarchy
  - Church’s Thesis
  - Intermediate Mathematical Logic
  - Advanced Computability Theory
- *Thesis Supervision and Membership, Rensselaer*
  - Currently supervising:
    - \* Joshua Taylor, doctoral student in computer science. Co-supervised with Jim Hendler.
    - \* Micah Clark, doctoral student in cognitive science.
    - \* Jinrong Li, doctoral student in cognitive science.
    - \* Trevor Houston, doctoral student in cognitive science.
    - \* Naveen Sundar G, doctoral student in computer science.
    - \* Danny Coretti, masters student in computer science.
    - \* Sean Barnes, masters student in cognitive science.
  - Past:
    - \* Deepa Mukherjee, PhD, Cognitive Science. Supervised.
    - \* Andrew Shilliday, PhD, Computer Science. Supervised. Employed at Lockheed-Martin.
    - \* Dan Werner, MS Computer Science. Supervised. Employed at Lockheed-Martin.
    - \* Steven Nerbetski, “Towards Conversational Capacity in Synthetic Characters.” MS Computer Science. Supervised.
    - \* Owen Kellett, MS Computer Science. Supervised.
    - \* Bettina Schimanski, PhD Computer Science. Supervised. Schimanski is employed at Sandia National Labs (<http://www.sandia.gov>).
    - \* Paul Bello, “Toward A Logical Framework for Cognitive-Effects Based Operations: Some Empirical and Computational Results.” PhD Cognitive Science, 2005. Supervised. Bello is Head of the Office of Naval Research’s Cognitive Science Program.
    - \* Jason Wodicka, “BARD: A System for Dynamic Interactive Storytelling.” MS Cognitive Science, 2004. Supervised. Wodicka currently employed at Microsoft.
    - \* Gerwin Schalk, “Towards a Clinically Practical Brain-Computer Interface.” PhD Computer & Systems Engineering, 2006. Membership. Schalk currently employed at Wadsworth Center (<http://www.wadsworth.org>).
    - \* “A General Symbolic Method with Physical Applications” (PhD Math, Greg Smith, 2000, Membership)

- \* “Towards Effective Interactive Configuration in the Logic-Programming Framework” (David Ferrucci, PhD Computer Science, 1999, Membership)
  - \* “Detection of Slow Light Level Reduction,” (Krzysztof Krzyszczuk, MS Psychology, 2001, Membership)
  - \* “Hypertextual Information” (Patricia Molholt, PhD, Membership)
  - \* “The Mind-Body Problem” (Fergus Duniho, MS, Philosophy, S)
  - \* “Computability & Uncomputability,” (Kostas Arkoudas, MS Philosophy, Supervised)
  - \* “Hobbes’ Political Theory Simulated in LISP” (Jennifer Dunn, MS Philosophy, Supervised)
- *Teaching Fellow, Brown*
    - Computers from the Mathematical Point of View
    - Introduction to Mathematical Logic
    - The Logic and Ethics of Nuclear Deterrence
    - Introduction to Informal Logic
    - Critical Reasoning
    - Introduction to Philosophy

## Grants

- “Social Robotics.” NSF, \$326,752. 7.2007–7.2009. Bringsjord Co-PI. PI: N. Webb; other Co-PIs: V. Barr, R. Salkin, I. Frank.
- Two ongoing grants, one in the AQUAINT program, one originally in the ARIVA program, now A-SpaceX; together they total (\$-,—,—); both are DTO (now under IARPA) programs. Bringsjord PI in both cases. There are no Co-PIs. (The funder requests that dollar amounts of FOUO grants not be made public.) The project under A-SpaceX is known as AKRRIV; the system being built under AQUAINT is Solomon. Recently two add-on projects have been funded. Some information is available at
 

<http://www.cogsci.rpi.edu/research/rair/projects.php>.
- “Toward Cognitively Robust Synthetic Characters.” IBM. \$100,000. 10.1.08–10.1.09. PI: S. Bringsjord; Co-PI: K. Arkoudas.
- “Creativity and Computer Programming: A New Research Program.” PI: Bringsjord. Co-PI: K. Arkoudas. \$90,000 SGER in the CreativeIT program. 10.1.07–9.30.08.
- “Toward Cognitively Robust Synthetic Characters.” 7.1.07–7.1.08. Seed Grant, Office of Research at Rensselaer. PIs S. Bringsjord and K. Arkoudas. \$50,000.
  - This seed grant has led to the above grant from IBM for more extensive R&D along the same lines.
- “Micro-PSYPRE: Toward Computing the Future.” PI: S. Bringsjord. (Winning proposal written along with Micah Clark. Clark and Bettina Schimanski PhD students centrally involved. Trevor Houston principal programmer.) \$50,000. 6 months, started 4.15.06. Sponsor: AFOSR.

- “Poised-For Learning and the Mechanization Thereof (through MARMML).” PI: S. Bringsjord; Co-PI: K. Arkoudas. \$600,000. Started 10.1.04, concluded 10.1.06. Sponsor: DARPA IPTO. Online info about project, which gave rise to the Vivid system (see above paper by Arkoudas & Bringsjord in *Artificial Intelligence*, available here:

<http://www.cogsci.rpi.edu/research/rair/pfl/index.php>

- “New Architectures, Algorithms, and Designs that Lead to Implemented Machine Reasoning over Knowledge in Epistemic & Deontic Formats, in the Service of Wargaming.” PI: Yingrui Yang; Co-PIs: S. Bringsjord, K. Arkoudas. \$75,000. Sponsor: AFRL. June 10, 2004–November 4, 2005.
- Gift from SAIC (Science Applications International Corporation) in the amount of \$50,000 as an unrestricted gift (used to support a PhD student at RPI). Contribution provided as followup to presentations by Bringsjord and Wayne Gray on AI and CogSci at RPI to Dr. Clinton Kelly, Senior VP Advanced Technology Programs.
- “Simulation and Analysis of Large Scale Complex Systems.” NSF CISE-RR, Award ID 0323324. \$100,032. Co-PI with Malik Magdon-Ismael, Boleslaw Szymanski, Randolph Franklin. (This grant is to support my RAIR Lab’s attack on the  $\Sigma$  (“busy beaver”) function. Preliminary results were reported by Bringsjord to the American Mathematical Society.) 2003–2005. Up-to-date information on the RAIR Lab’s efforts can be found at

<http://www.cs.rpi.edu/~kelleo/busybeaver>

- “The SAGE Environment in Support of Novel Intelligence from Massive Data (NIMD Program).” Booz Allen Hamilton is general contractor. Total award was approximately \$-,—,— from ARDA. Rensselaer’s portion is \$-,—,— with Selmer Bringsjord (the RAIR Lab) and Wayne Gray (CogWorks Lab) Co-PIs at RPI. (The NSA requests that award amounts be kept undisclosed.) Bringsjord’s focus was on modeling the reasoning of human intelligence analysts so that this reasoning can be supported by and offloaded to artificial agents, who power the system known as Slate, information about which can be found at

<http://www.cogsci.rpi.edu/research/rair/slate>

2002–2005 (40 months). Andrew Shilliday and Joshua Taylor lead developers of Slate.

- Was also an independent contractor in a related DTO program — IKRIS — devoted to producing an operational standard for ARDA in the area of knowledge representation and reasoning. (Much NIMD R&D is knowledge-based, and IKRIS is designed to specifically enable interoperability among systems produced by NIMD contractors. Bringsjord’s NIMD team has produced the Slate system, and one near-term proof-of-concept in IKRIS is to build a translator capable of taking knowledge in Slate’s multi-sorted logic, and automatically producing a version of this knowledge in so-called Common Logic.) The technical leads in IKRIS are Chris Welty and Richard Fikes, with Mitre managing the project. The project was 18 months long, and kicked off in April 2005.
- “A Computational Theory of Psychological Time Within a Cognitive Architecture Framework,” ONR, \$266,000. PI: Frank Lee, Co-PI: Selmer Bringsjord. 2002–2003.
- “The Mental Metalogic Research and Development Program: A New, Comprehensive Approach to Human and Machine Reasoning,” sponsored by Rensselaer’s 2001 seed money program, \$50,000. PI: Selmer Bringsjord, Co-PIs: Kostas Arkoudas (MIT), Frank Lee (RPI), Bram van Heuveln (RPI), Yingrui Yang (RPI).

- “Stage 1 of the *eWRITER Project*,” sponsored by the Educational Testing Service (ETS), \$175,000. PI: Selmer Bringsjord, Co-PI: Yingrui Yang. Consultant: Princeton’s P.N. Johnson-Laird. 2000–2001.
- Corporate sponsorship of the *Minds & Machines Laboratory*, which I directed, obtained from SGI, Apple Computer, Vicarious Visions, Legal Knowledge Systems, Logic Programming Associates, Document Development Corporation.
- “Proof-of-Concept for Solving the Distance Learning Problem with ‘Super-Teaching’,” NSF, \$105,000. Bringsjord PI, Ron Noel Co-PI. 1999–2001.
- *Development of BS in Information Technology*. \$280,000, Rensselaer Strategic Investment Program. With Jennifer Bowie, Frances Bronet, Michael Danchak, Teresa Duffy, Gary Gabriele, Cheng Hsu, William Jennings, Deborah Johnson, John Kolb, Brian Lonsway, Harry McLaughlin, David Musser, and David Spooner.
- *Broadcasting an Interactive Introduction to Artificial Intelligence Course Via Internet2*. This was my sub-proposal under a proposal submitted by NYSERNet, in conjunction with 8 member universities<sup>6</sup>, to the National Science Foundation in July 1997. The proposal obtained NSF support for vBNS high-speed network connections (part of “Internet 2”) for each of the universities.
- *Boltzmann’s World*. \$3,500, 1995, AT&T. BW was a courseware system for learning certain evolutionary programming techniques. Ron Noel the other PI.
- *Machine Generated Fiction*. \$300,000, 1991–95, Henry R. Luce Foundation. A team (“Autopoeisis”) project the ultimate goal of which was to create a genuinely creative computer system capable of autonomously writing sophisticated fiction. David Porush the other PI.
- *The Creative Writing Workstation*. \$6,000, 1992, IBM. The project centered around the adaptation of intelligent computer programs which autonomously generate stories to systems which can be used in the classroom to teach creative writing. David Porush was the other PI.
- *Charting, Formally, the Possible Uncomputable Component of Human Thought*. \$1,000, 1991–92, Beer Trust Foundation. A study of those aspects of human thought claimed in the philosophical literature to be beyond the ability of a Turing Machine (and other equivalent automata) but nonetheless demonstrably amenable to formalization using the concepts of technical philosophy and theoretical computer science. Led to the monograph *Superminds: A Defense of Uncomputable Cognition*; see “Books.”
- *Hardware for Startup of the Autopoeisis Project*. \$15,000, 1991, Apple Computer. Additional funds of approximately \$20,000, also for hardware startup, came from Rensselaer itself, and went, among things, toward purchase of two additional workstations. David Porush is the other PI.
- *Cognitive Science and Hypermedia: A Classroom Experiment*. \$6,500, 1990–91, Lilly Fellowship. Supported the design and implementation of an electronic hypertextbook introducing students to philosophy of mind and cognitive science.

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<sup>6</sup>RPI, Columbia, NYU, SUNY Albany, SUNY Binghamton, SUNY Buffalo, Cornell, Clarkson.

- *Defeasible Reasoning and Artificial Intelligence*. \$3,500, 1988–89, Paul Beer Trust Foundation. An enquiry that led to Chapter IX of *What Robots Can and Can't Be* (see “Books”).

## Grant Proposals Under Development

- A proposal will be made to XXXX for a system intended to address the US “Math Gap” at the level algebra (7<sup>th</sup>/8<sup>th</sup> grade). First draft of proposal complete.

## Corporate/Consulting

- Chief Scientist, Document Development Corporation, 1223 Peoples Avenue, Troy, NY, 1999–2002.
- Independent consultant to many companies and government agencies, in the areas of intelligent agents and AI, automated document production, gaming, and other areas.

## Presentations

- External, Refereed
  - Bringsjord, S. “A Vindication of Program Verification.” Presentation given at ECAP 2009 (the VII<sup>th</sup> European Computing and Philosophy conference), July 2 2009, Barcelona, Spain. The presentation, in both keynote and pdf forms, is available at:

[http://kryten.mm.rpi.edu/PRES/ECAP2009/SB\\_ecap09\\_progver.key](http://kryten.mm.rpi.edu/PRES/ECAP2009/SB_ecap09_progver.key)

[http://kryten.mm.rpi.edu/PRES/ECAP2009/SB\\_ecap09\\_progver.pdf](http://kryten.mm.rpi.edu/PRES/ECAP2009/SB_ecap09_progver.pdf)

- Bringsjord, S. (presenter), Wojtowicz, R., Taylor, J., Arkoudas, K., Clark, M., Gilbert, E., Houston, T., van Heuveln, B., “Piagetian Roboethics via Category Theory: Moving Beyond Mere Formal Operations to Engineer Robots Whose Decisions are Guaranteed to be Ethically Correct.” Presentation given at the Roboethics Workshop, May 17 2009 Kobe, Japan.

The presentation file includes a number of video demonstrations; only the wmv, Quicktime (mov), and Keynote (key) formats include the demos, since they are videos. A “still” pdf version is also available. The urls:

[http://kryten.mm.rpi.edu/PRES/SB\\_etat\\_RoboethicsWatICRA09.wmv](http://kryten.mm.rpi.edu/PRES/SB_etat_RoboethicsWatICRA09.wmv)

[http://kryten.mm.rpi.edu/PRES/SB\\_etat\\_RoboethicsWatICRA09.pdf](http://kryten.mm.rpi.edu/PRES/SB_etat_RoboethicsWatICRA09.pdf)

[http://kryten.mm.rpi.edu/PRES/SB\\_etat\\_RoboethicsWatICRA09.key](http://kryten.mm.rpi.edu/PRES/SB_etat_RoboethicsWatICRA09.key)

[http://kryten.mm.rpi.edu/PRES/SB\\_etat\\_RoboethicsWatICRA09.mov](http://kryten.mm.rpi.edu/PRES/SB_etat_RoboethicsWatICRA09.mov)

- Bringsjord, S. “Logic, General Intelligence, Hypercomputation ... and Beyond.” Presentation session given at the Second Conference on Artificial General Intelligence (AGI 2009), 3.8.09, Arlington VA. The presentation file (in pdf and key formats) is available at

[http://kryten.mm.rpi.edu/PRES/AGI09/sb\\_hyper\\_agi09.pdf](http://kryten.mm.rpi.edu/PRES/AGI09/sb_hyper_agi09.pdf)

[http://kryten.mm.rpi.edu/PRES/AGI09/sb\\_hyper\\_agi09.key](http://kryten.mm.rpi.edu/PRES/AGI09/sb_hyper_agi09.key)

- Arkoudas, K., Bringsjord, S. “The History of Automatic Programming.” Presentation in the Automatic Programming Track of the 2008 North American Computing and Philosophy Conference, July 12 2008, University of Indiana, Bloomington, IN. The presentation file is available at

[http://kryten.mm.rpi.edu/PRES/NACAP08/ka\\_sb\\_autprogatNACAP08.pdf](http://kryten.mm.rpi.edu/PRES/NACAP08/ka_sb_autprogatNACAP08.pdf)

- Bringsjord, S., Taylor, J., Shilliday, A. (presenter), Clark, M. & Werner, D. “Provability-Based Semantic Interoperability via Translation Graphs.” Presentation at 26<sup>th</sup> International Conference on Conceptual Modeling (ER 2007), in the ONISW 2007 workshop. The presentation file is available at  
[http://kryten.mm.rpi.edu/PRES/as\\_jt\\_sb\\_20071106\\_ONISW.pdf](http://kryten.mm.rpi.edu/PRES/as_jt_sb_20071106_ONISW.pdf)
- Bringsjord, S., Arkoudas, K., Mukherjee, D. (presenter), Shilliday, A., Taylor, J., Clark, M. & Bringsjord, E. “The Multi-Mind Effect.” Presentation at the 2007 *International Conference on Artificial Intelligence*, in the *Extending Computational Cognitive Modeling to Issues of Multi-agent Interaction* workshop, Las Vegas, Nevada, June 28, 2007. The presentation file is available at  
[http://kryten.mm.rpi.edu/PRES/ICAI07/ICAI-Pres\\_v06.pdf](http://kryten.mm.rpi.edu/PRES/ICAI07/ICAI-Pres_v06.pdf)
- Bringsjord, S. “Aligning Computer Programming with Clear Thinking.” Presentation at the 2007 European Computing and Philosophy (ECAP) conference, June 22, 2007, University of Twente, Enschede, The Netherlands. The main presentation file is available online (without corresponding demonstrations) at  
[http://kryten.mm.rpi.edu/PRES/ECAP07/reason\\_ecap07.pdf](http://kryten.mm.rpi.edu/PRES/ECAP07/reason_ecap07.pdf)
- Bringsjord, S., Arkoudas, K., Clark, M., Shilliday, A., Taylor, J., Schimanski, B. & Yang, Y. “Some Remarks on Logic-Based Machine Reading Research.” Presentation at the 2007 Association for the Advancement of Artificial Intelligence Spring Symposium on Machine Reading, March 27, 2007, Stanford University, Palo Alto, CA. (Bringsjord and Taylor presenters.) The presentation file is available online at  
[http://kryten.mm.rpi.edu/PRES/AAAISS07MR/RAIR\\_Lab\\_AAAISS2007MR.pdf](http://kryten.mm.rpi.edu/PRES/AAAISS07MR/RAIR_Lab_AAAISS2007MR.pdf)
- Bringsjord, S. & Schimanski, B. “If Free Will is Necessary to to Behave Immorally, Robots are Off the Hook.” Presentation at the 2006 North American Computing and Philosophy Conference, at RPI, August 12. The presentation is available online in video at  
<http://www.cogsci.rpi.edu/conferences/cap/schedule.php>
- Bringsjord, S. “The Logicist<sup>+</sup> Manifesto,” *AI@50*, Dartmouth College, July 14, 2006. Presentation file can be found at  
[http://kryten.mm.rpi.edu/PRES/AIat50/sb\\_AIat50.pdf](http://kryten.mm.rpi.edu/PRES/AIat50/sb_AIat50.pdf)  
[http://kryten.mm.rpi.edu/PRES/sb\\_AIat50.key.tar.gz](http://kryten.mm.rpi.edu/PRES/sb_AIat50.key.tar.gz)
- Arkoudas, A. & Bringsjord, S. “Computer Proofs and Justification” *European Computing and Philosophy Conference (ECAP) 2006*, Norwegian University of Science and Technology, June 23, 2006. Presentation file can be found at  
[http://kryten.mm.rpi.edu/computer\\_proofs\\_justification\\_ecap06.pdf](http://kryten.mm.rpi.edu/computer_proofs_justification_ecap06.pdf)
- Two @ *Between a Hard Place: CogSci Principles Meet AI-Hard Problems*, AAAI Spring Symposium, March 27 & 28, 2006, Stanford CA:
  - \* Bringsjord, S. (presenter) & Clark, M., “For Problems Sufficiently Hard . . . AI Needs CogSci.”
  - \* Plenary Presentation for the Symposium.
 The two presentations available at:
  - [http://kryten.mm.rpi.edu/PRES/AAAISS06/ai\\_progress\\_wrt\\_th89\\_aaaiersion.pdf](http://kryten.mm.rpi.edu/PRES/AAAISS06/ai_progress_wrt_th89_aaaiersion.pdf)
  - [http://kryten.mm.rpi.edu/PRES/AAAISS06/ai\\_progress\\_wrt\\_th89\\_aaaiersion.tar.gz](http://kryten.mm.rpi.edu/PRES/AAAISS06/ai_progress_wrt_th89_aaaiersion.tar.gz)
  - [http://kryten.mm.rpi.edu/PRES/AAAISS06/sb\\_rock\\_plenary.pdf](http://kryten.mm.rpi.edu/PRES/AAAISS06/sb_rock_plenary.pdf)
  - [http://kryten.mm.rpi.edu/PRES/AAAISS06/sb\\_rock\\_plenary.key.tar.gz](http://kryten.mm.rpi.edu/PRES/AAAISS06/sb_rock_plenary.key.tar.gz)
- Arkoudas, A., Bringsjord, S. & Bello, P., “Toward Ethical Robots via Mechanized Deontic Logic.” Presented (by Bringsjord) at AAAI 2005 Fall Symposium on Machine Ethics, November 5, 2005, Washington, DC.

- “Slate: An Intelligent Assistant for Argument/Hypothesis Checking and Generation,” at the Annual U.S. Computing and Philosophy Conference, Carnegie Mellon University, Pittsburgh, PA, August 5, 2004. Selmer Bringsjord & Andy Shilliday (Shilliday presenter).
- “Why Military Simulation Needs Formal Models of Reasoning and Decision-Making” [OR04-OR31-45], Bello, P., Bringsjord, S., % Yang, Y., at *Enabling Technology for Simulation Science VIII* (SPIE Defense and Security Symposium VIII), Orlando, FL, April 13, 2004. (Bello presented.)
- “Introducing CHOGIC: A Primitive Part of the MARMML Machine Reasoning System,” Selmer Bringsjord, Konstantine Arkoudas, Yingrui Yang, Bram van Heuveln, Paul Bello, Joshua Taylor (Bello presenter). Delivered at the University of Pavia, Pavia, Italy, June 4, 2004.
- “Why Current K–12 Math Textbooks are Fundamentally Deficient in the Area of Formal Reasoning — and What To Do About It.” One paper in the symposium: *A New Response to the ‘Math Gap’ Plaguing the United States: Teach Formal Reasoning*, with other papers presented by: Kostas Arkoudas, Yingrui Yang, Bram van Heuveln, and Paul Bello (researchers in the Rensselaer AI & Reasoning Lab, which gave this symposium). October 23, 2003, Kerhonkson, NY.
- “What is Artificial Intelligence? Psychometric AI as an Answer,” *IJCAI-03*, Acapulco, Mexico, August 15, 2003. With Bettina Schimanski.
- Yang, Y. & Bringsjord, S. “Mental Metalogic and its Empirical Justifications: The Case of Reasoning with Quantifiers and Predicates.” In R. Alterman & D. Kirsh, eds. Presentation (by Yang) at the 25<sup>th</sup> Annual Conference of Cognitive Science Society (Boston), Summer 2003. Abstract appears in *The Proceedings of the 25<sup>th</sup> Annual Conference of the Cognitive Science Society* (Mahwah, NJ: Lawrence Erlbaum Associates). Prior work was “Mental Metalogic and its Initial Empirical Justifications: The Case of Reasoning with Quantifiers and Monadic Predicates.” In W. Gray & C. Schunn, eds., (2002) *The Proceedings of the 24<sup>th</sup> Annual Conference of the Cognitive Science Society* (Mahwah, NJ: Lawrence Erlbaum), 1054.
- Yang, Y. (presenter), Zhao, Y., Zeng, J., Guo J., Ju, S. & Bringsjord, S. “A Cross-language Validation of Mental Logic and Mental Models.” Presentation at the Fourth International Conference on Cognitive Science, Sydney, Australia, July 15 2003. Appears in P. Slezak, ed., *The Proceedings of the Fourth International Conference on Cognitive Science* (Sydney, Australia: University of New South Wales), 760–765.
- Bringsjord, S. “The Fragility of Evolution,” CAP<sup>7</sup>–Europe, University of Glasgow, Scotland, March 29, 2003.
- “Agent-Based Real-Time Pedagogy for Proof Construction,” *Computing and Philosophy Conference*, August 10, 2002, Carnegie-Mellon University, Pittsburgh, PA.
- Bello, P. & Bringsjord, S. “Realtime Agents in Support of Proof Construction,” *2002 ASEE Annual Conference and Exposition*, June 18, 2002, Montreal, Canada.
- Bringsjord, E. & Bringsjord, S. “Exploring the Relationship Between Logic Background and Performance on the Analytical Section of the GRE,” at NERA 2001, Kerhonkson, NY, October 25, 2001. Full paper available at  
<http://kryten.mm.rpi.edu/bringsjordx2.logic.gre1.doc>

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<sup>7</sup>International Computing and Philosophy Conference.

- Rinella, K. (presenter), Bringsjord, S., Yang, Yingrui “Efficacious Logic Instruction: People Are Not Irremediably Poor Deductive Reasoners,” at CogSci 2001, University of Edinburgh, Scotland.
- “Mental Mental Metalogic: A New Paradigm in Psychology of Reasoning,” The Third International Conference on Cognitive Science (ICCS2001) August 27-31, 2001, Beijing, China, with Yingrui Yang presenting.
- “The Lovelace Test,” *The Future of the Turing Test: The Next Fifty Years*, Dartmouth College, January 29, 2000.
- “Story is . . .,” thematic address for Fall Symposium on Narrative and Intelligence, American Association of Artificial Intelligence, November 7, 1999, Cape Cod, Massachusetts.
- “Hard Data in Defense of Logical Minds,” *Annual International Conference on Computing and Philosophy*, Carnegie-Mellon University, August 6, 1999.
- “Scientifically Informative Discovery of (Gödel’s) Model-Based Mathematical Discovery,” MBR ’99, University of Pavia, Pavia/Milan, Italy.
- “A Pilot Study on the Effectiveness of Hyperproof,” with Elizabeth Bringsjord, annual meeting Northeast Educational Research Association, October 29, 1998, Ellenville, New York.
- “In Defense of Logical Minds,” 20<sup>th</sup> Annual Conference of the Cognitive Science Society, Madison, WI, August, 1998.
- “Chogic: Teaching Logic as Chess,” annual meeting Northeast Educational Research Association, October 23, 1997, Ellenville, New York (with E. Bringsjord).
- “Chess Isn’t Tough Enough: Better Games for Mind-Machine Competition,” Deep Blue vs. Kasparov Workshop at the (July) 1997 annual meeting of the American Association of Artificial Intelligence, Providence, Rhode Island.
- “Explaining Phi Without Dennett’s Exotica: Good Ol’ Computation Does Just Fine,” Bringsjord, S., Bringsjord, E., Noel, R., Daraio, J. & Viaggi, C. presented at the 1997 Annual Meeting of the Society for Philosophy and Psychology, New York, NY, June 5-8.<sup>8</sup>
- “Explaining Phi Without Dennett’s Exotica: Good ’Ol Computation Works Just Fine,” at *Annual International Conference on Computing and Philosophy*, Carnegie-Mellon University, August, 1996.
- “Consciousness, Phi, and Dennett,” 1996 Annual Meeting of the Cognitive Science Society, UCSD, San Diego, CA, July 12, 1996, with Ron Noel, Geoff Ginader, and Elizabeth Bringsjord.<sup>9</sup>
- “Can Betrayal be Defined?” at *Annual International Conference on Computing and Philosophy*, Carnegie-Mellon University, August, 1995.
- “Mathematizing the Concept of Betrayal,” Annual Meeting of American Association of Artificial Intelligence, Spring Symposium, Stanford, CA, March 27, 1995.

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<sup>8</sup>A poster presentation done by Daraio, one of my graduate students.

<sup>9</sup>This presentation was accepted under the extended abstract track offered to members of the Cognitive Science Society, and presented by Ginader, one of my students at the time. Ginader’s Java applet showing phi can be seen at <http://www.rpi.edu/~brings/PHI/phiexp.html>

- “Dennett vs. Searle on Cognitive Science: It All Boils Down to Zombies, and Searle is Right,” December 30, 1994, Annual Eastern Division Meetings of the American Philosophical Association, Boston, MA.
- “Is AI Provably Inconsistent with Recursion Theory?” 1994 Annual Computing and Philosophy Conference, Los Angeles, CA, August.
- “Can AI Accommodate Imagistic Expertise?” March, 1994, 1994 International Conference on Expert Systems, Asian Institute of Technology, Bangkok, Thailand. With E. Bringsjord.
- “Church’s Thesis, *Contra* Mendelson, is Unprovable . . . and Worse: It May Be False,” December 30, 1993, Annual Eastern Division Meetings of the American Philosophical Association, Atlanta, Georgia.
- “Non-Algorithmic Expertise,” May 14, 1993, Third Biennial Human & Machine Cognitive Workshop, Seaside, Florida, hosted by University of West Florida.
- “Toward Non-Algorithmic AI,” September 10, 1992, AICS ’92, Ireland’s Biennial National Conference on AI and Cognitive Science, University of Limerick, Limerick, Ireland.
- “Quantum Computing and the Search for the Non-Algorithmic,” August 13, 1992, with Michael Zenzen, ’92 International Computing & Philosophy Conference, Orlando, Florida, University of West Florida.
- “Does AI Imply Dualism?,” August, 1991, Sydney, Australia, International Joint Conference on Artificial Intelligence.
- “Could, How Could We Tell If, and Why Should–Robots Have Inner Lives?,” May 10, 1991, Second Annual Workshop on Human and Machine Cognition, Institute of Human and Machine Cognition, University of West Florida, Pensacola, Florida.
- “Is Connectionism a Challenge to Traditional AI?,” June 27, 1990, delivered at AI: Emerging Science or Dying Art Form?, workshop sponsored by the American Association for Artificial Intelligence and the State University of New York at Binghamton.
- “On the Introspective Impotence of Robots,” April 27, 1990, Annual Meeting, Central Division, American Philosophical Association, New Orleans.
- “Christian Doctrine, Pacifism, and Nuclear Deterrence.” The 1987 Midwestern Meeting of the Society of Christian Philosophers, October 9, 1987, Minneapolis, Minnesota.
- “The Puzzle of Split-Brain Phenomena.” At the Annual Meeting of the Society for Philosophy and Psychology, May 17, 1985, University of Toronto, Toronto, Ontario, Canada.

- External, Invited

- Bringsjord, S. “When it Comes to Understanding Human-Level Intelligence and Consciousness, the Blue Brain Project is a Prodigious Waste of Time and Money.” Boston University, coming in Spring 2010. Current abstract is available at  
[http://kryten.mm.rpi.edu/PRES/NEUPHIBU2010/sb\\_neuphi\\_abstract.txt](http://kryten.mm.rpi.edu/PRES/NEUPHIBU2010/sb_neuphi_abstract.txt)
- Bringsjord, S., with: Micah Clark, Danny Coretti, Trevor Hosten, and Naveen Sundar G. “Toward an Interaction with Arnie, a Genuinely Evil Synthetic Character.” Union College, November 12, 2009.

- Bringsjord, S. & Bringsjord, A. “The Missing Logico-Mathematics for Modeling, Simulating, and AI-Boosting Human Decision-Making in Multi-Agent Reasoning Environments.” United States Military Academy, West Point, NY, June 2009. The presentation file (in pdf and key formats) is available at
  - [http://kryten.mm.rpi.edu/PRES/WESTPOINT0609/SB\\_etal\\_WestPoint.pdf](http://kryten.mm.rpi.edu/PRES/WESTPOINT0609/SB_etal_WestPoint.pdf)
  - [http://kryten.mm.rpi.edu/PRES/WESTPOINT/0609/SB\\_etal\\_WestPoint.key](http://kryten.mm.rpi.edu/PRES/WESTPOINT/0609/SB_etal_WestPoint.key)
- Bringsjord, S. “Hypercomputation, Predictability, and Persons.” Presentation 3.24.09 at *The Science and Philosophy of Unconventional Computing*, conference held at Cambridge University, UK, 3.23.09–3.25.09. The presentation file (in pdf and key formats) is available at
  - [http://kryten.mm.rpi.edu/PRES/CAMBHYPER/SB\\_predict\\_persons\\_hyper.pdf](http://kryten.mm.rpi.edu/PRES/CAMBHYPER/SB_predict_persons_hyper.pdf)
  - [http://kryten.mm.rpi.edu/PRES/CAMBHYPER/SB\\_predict\\_persons\\_hyper.key](http://kryten.mm.rpi.edu/PRES/CAMBHYPER/SB_predict_persons_hyper.key)
- Bringsjord, S. “Unethical But Rule-Bound Robots Would Kill Us All.” Presentation given at the *Future of Artificial Intelligence* workshop, held as a post-conference event associated with the Second Conference on Artificial General Intelligence (AGI 2009), 3.9.09, Arlington VA. The presentation file (in pdf and key formats) is available at
  - [http://kryten.mm.rpi.edu/PRES/AGI09/SB\\_agi09\\_ethicalrobots.pdf](http://kryten.mm.rpi.edu/PRES/AGI09/SB_agi09_ethicalrobots.pdf)
  - [http://kryten.mm.rpi.edu/PRES/AGI09/SB\\_agi09\\_ethicalrobots.key](http://kryten.mm.rpi.edu/PRES/AGI09/SB_agi09_ethicalrobots.key)
- Bringsjord, S. “Modeling the Mind Using Logic.” Tutorial session given at the Second Conference on Artificial General Intelligence (AGI 2009), 3.6.09, Arlington VA. The presentation file (in pdf and key formats) is available at
  - [http://kryten.mm.rpi.edu/PRES/AGI09/mod\\_mind\\_logic\\_agi2009.pdf](http://kryten.mm.rpi.edu/PRES/AGI09/mod_mind_logic_agi2009.pdf)
  - [http://kryten.mm.rpi.edu/PRES/AGI09/mod\\_mind\\_logic\\_agi2009.key](http://kryten.mm.rpi.edu/PRES/AGI09/mod_mind_logic_agi2009.key)
- Bringsjord, S. “Contra Rapaport, Fetzer is Flawless.” Presentation at the Annual Central Meeting of the American Philosophical Association, 2.19.09, Chicago, IL. This was part of the session “Can Computationalism Be Salvaged?” — at which Fetzer gave the target presentation, then William Rapaport against Fetzer, then Bringsjord against Rapaport, and finally Jim Moor in support of Fetzer and computationalism in general. Presentation files (pdf and key) are available at
  - [http://kryten.mm.rpi.edu/PRES/APA09CHICAGO/quartet\\_chicagoAPA09.pdf](http://kryten.mm.rpi.edu/PRES/APA09CHICAGO/quartet_chicagoAPA09.pdf)
  - [http://kryten.mm.rpi.edu/PRES/APA09CHICAGO/quartet\\_chicagoAPA09.key](http://kryten.mm.rpi.edu/PRES/APA09CHICAGO/quartet_chicagoAPA09.key)
- Bringsjord, S., Arkoudas, K., Li, J., Taylor, J., Shilliday, A. & Clark, M. “Creativity and Automatic Programming.” Presentation at National Science Foundation, Workshop for CreativeIT Program, January 15 2009, Arlington VA. (Bringsjord presented.) Presentation files (pdf and tar.gz) are available at
  - [http://kryten.mm.rpi.edu/PRES/CREATIVEITNSF0109/SB\\_CreativeIT\\_011509.pdf](http://kryten.mm.rpi.edu/PRES/CREATIVEITNSF0109/SB_CreativeIT_011509.pdf)
  - [http://kryten.mm.rpi.edu/PRES/CREATIVEITNSF0109/SB\\_CreativeIT\\_011509.key.tar.gz](http://kryten.mm.rpi.edu/PRES/CREATIVEITNSF0109/SB_CreativeIT_011509.key.tar.gz)
- Bringsjord, S. “Remarks on the Automated Discovery of Gödel’s Incompleteness Theorems.” Presentation at the 2008 AAAI Fall Symposium *Automated Scientific Discovery*, Washington DC, November 8, 2008. Presentation files (pdf and tar.gz) are available at
  - [http://kryten.mm.rpi.edu/PRES/AUTDISSYMP/sb\\_remarks\\_autdis\\_GI\\_G2.pdf](http://kryten.mm.rpi.edu/PRES/AUTDISSYMP/sb_remarks_autdis_GI_G2.pdf)
  - [http://kryten.mm.rpi.edu/PRES/AUTDISSYMP/sb\\_remarks\\_autdis\\_GI\\_G2.key.tar.gz](http://kryten.mm.rpi.edu/PRES/AUTDISSYMP/sb_remarks_autdis_GI_G2.key.tar.gz)
- Bringsjord, S. “God, Souls, and Turing.” Presentation at *AISB 2008 Symposium on the Turing Test*, at the University of Reading, England, October 12, 2008. Presentation file available online (videos embedded in gz file) at
  - [http://kryten.mm.rpi.edu/PRES/READING08/SB\\_Reading\\_Souls.pdf](http://kryten.mm.rpi.edu/PRES/READING08/SB_Reading_Souls.pdf)

- [http://kryten.mm.rpi.edu/PRES/READING08/SB\\_REading\\_Souls.key.tar.gz](http://kryten.mm.rpi.edu/PRES/READING08/SB_REading_Souls.key.tar.gz)
- Bringsjord, S. Keynote presentation in Paderborn, Germany, at the University of Paderborn, for *Philosophy's Relevance in Information Science*, October 3, 2008: “Non-Philosophical Knowledge Representation & Reasoning is Tragic.”
  - Bringsjord, S. Moderator of “Defense Basic Research: Lifeblood of Innovation,” a Congressional Briefing held in conjunction with the Congressional R&D Caucus, and sponsored by the Coalition for National Security Research (CNSR). July 10, 2008, Rayburn House Office Building, Washington DC. Participants included Congressman Rush Holt, Congresswoman Judy Biggert, and Congressman Adam Smith.
  - Bringsjord, S., Arkoudas, K., Gilbert, G. “Toward Sophisticated Social Robotics.” ONR-sponsored workshop on Social Robotics and Social Cognition, MIT, February 29–March 2, 2008. (Bringsjord presented.) Presentation file available online (videos embedded in gz file) at
    - [http://kryten.mm.rpi.edu/PRES/ONRSOCCOG/SB\\_ONR\\_SocialRobotics\\_MIT.pdf](http://kryten.mm.rpi.edu/PRES/ONRSOCCOG/SB_ONR_SocialRobotics_MIT.pdf)
    - [http://kryten.mm.rpi.edu/PRES/ONRSOCCOG/SB\\_ONR\\_SocialRobotics\\_MIT.key.tar.gz](http://kryten.mm.rpi.edu/PRES/ONRSOCCOG/SB_ONR_SocialRobotics_MIT.key.tar.gz)
  - Bringsjord, S., “The Centrality of Logic to Knowledge Extraction (and Discovery Itself),” NSF Symposium: *Cyber-Enabled Discovery and Innovation*, September 5, 2007, RPI, Troy NY. Presentation available online at
    - [http://kryten.mm.rpi.edu/PRES/NSFCDI090507/sb\\_logic\\_knowledge\\_extraction\\_NEW.pdf](http://kryten.mm.rpi.edu/PRES/NSFCDI090507/sb_logic_knowledge_extraction_NEW.pdf)
  - Bringsjord, S., “Toward a Formal Philosophy of Computational Cognitive Modeling (with special focus on evaluation).” AAAI Workshop *Evaluating Architectures for Intelligence*, July 23, 2007, Vancouver, Canada. Presentation available online at
    - [http://kryten.mm.rpi.edu/PRES/PHILCCM/sb\\_philofCCM.pdf](http://kryten.mm.rpi.edu/PRES/PHILCCM/sb_philofCCM.pdf)
  - Bringsjord, S. “Abortion, Slavery, and the Death of Logic.” MIT Right to Life, February 21, 2007, as part of a week of invited talks on current debates regarding abortion, stem cell research, cloning, etc.
  - Bringsjord, S. & Clark, M., “On the Solomon (& Context), a Next-Generation QA System,” DTO AQUAINT Principal Investigator Meeting, Santa Fe, NM, November 1, 2006. For info on Solomon, go to
    - <http://www.cogsci.rpi.edu/research/rair/solomon>
  - Bringsjord, S., Shilliday, A., Taylor, A. & Clark, M. “On Slate,” DTO ARIVA Principal Investigator Meeting, Falls Church, VA, June 14, 2006.
  - Bringsjord, S. “Powerful, Immoral Robots Loom ... Logic to the Rescue!”, Indiana University, *Ethical Robots* workshop at *ALifeX* (10<sup>th</sup> Artificial Life conference), June 3, 2006. Presentation available at:
    - [http://kryten.mm.rpi.edu/PRES/ALIFEX/bringsjord\\_ethicalrobots.pdf](http://kryten.mm.rpi.edu/PRES/ALIFEX/bringsjord_ethicalrobots.pdf)
    - [http://kryten.mm.rpi.edu/PRES/ALIFEX/bringsjord\\_ethicaxlrobots.key.tar.gz](http://kryten.mm.rpi.edu/PRES/ALIFEX/bringsjord_ethicaxlrobots.key.tar.gz)
  - Bringsjord, S. & Clark, M. “AI Has Ignored Academic Learning: To the Rescue Comes A New Form of Machine Learning: Poised-For Learning,” University of Albany, Institute for Logic and Security Studies, March 3, 2006.
  - Bringsjord, S., “Ethical Robots: Why the Future Can Heed Us,” Keynote Talk at AAAI 2005 Fall Symposium on Machine Ethics, November 5, 2005, Washington, DC. Presentation available at:
    - [http://kryten.mm.rpi.edu/PRES/AAAI05MACHETH/sb\\_aaaimacheth\\_keynote.pdf](http://kryten.mm.rpi.edu/PRES/AAAI05MACHETH/sb_aaaimacheth_keynote.pdf)
    - [http://kryten.mm.rpi.edu/PRES/AAAI05MACHETH/sb\\_aaaimacheth\\_keynote.key.tar.gz](http://kryten.mm.rpi.edu/PRES/AAAI05MACHETH/sb_aaaimacheth_keynote.key.tar.gz)

- Bringsjord, S., Arkoudas, K., Shilliday, A., Taylor, J., Schimanski, B., Pratt, E., Mulley, G. “Artificial Intelligence and the Future of Wargaming and Intelligence Analysis,” PNNL, Richland, WA, 8.8.05. Presentation available at (keynote version fully complete, with all demos/videos imbedded):
  - [http://kryten.mm.rpi.edu/PRES/PNNL0805/sb\\_pnnlprez\\_080805.key.tar.gz](http://kryten.mm.rpi.edu/PRES/PNNL0805/sb_pnnlprez_080805.key.tar.gz)
  - [http://kryten.mm.rpi.edu/PRES/PNNL0805/sb\\_pnnlprez\\_080805.pdf](http://kryten.mm.rpi.edu/PRES/PNNL0805/sb_pnnlprez_080805.pdf)
  - [http://kryten.mm.rpi.edu/PRES/PNNL0805/sb\\_pnnlprez\\_080805.ppt](http://kryten.mm.rpi.edu/PRES/PNNL0805/sb_pnnlprez_080805.ppt)
- Bringsjord, S. (with help from Bettina Schimanski in putting together the demos of the robot PERI in action) “Thoughts on: Robotics, Free Will, and Predestination,” Oregon State University, Corvallis, Oregon, 8.5.05.
  - [http://kryten.mm.rpi.edu/PRES/CAPOSU0805/sb\\_robotsfreedom.pdf](http://kryten.mm.rpi.edu/PRES/CAPOSU0805/sb_robotsfreedom.pdf)
  - [http://kryten.mm.rpi.edu/PRES/CAPOSU0805/sb\\_robotsfreedom.key.tar.gz](http://kryten.mm.rpi.edu/PRES/CAPOSU0805/sb_robotsfreedom.key.tar.gz)
  - [http://kryten.mm.rpi.edu/PRES/CAPOSU0805/sb\\_robotsfreedom.ppt](http://kryten.mm.rpi.edu/PRES/CAPOSU0805/sb_robotsfreedom.ppt)
- Bringsjord, S., Shilliday, A., Taylor, J., Khemlani, S., Destefano, M. & Arkoudas, K., “The Status of Slate,” ARDA Review, University of Maryland, College Park, 4.5.05. Presentation available at
  - [http://kryten.mm.rpi.edu/PRES/rairl\\_nimdqreview\\_040505.pdf](http://kryten.mm.rpi.edu/PRES/rairl_nimdqreview_040505.pdf)
  - [http://kryten.mm.rpi.edu/PRES/rairl\\_nimdqreview\\_040505.key.tar.gz](http://kryten.mm.rpi.edu/PRES/rairl_nimdqreview_040505.key.tar.gz)
- Bringsjord, S., Arkoudas, A., Yang, Y., Shilliday, A., Taylor, J., & Destefano, M., “New Architectures, Algorithms, and Designs that Lead to Implemented Machine Reasoning over Knowledge in Epistemic and Deontic Formats, in the Service of Wargaming,” AFRL-Rome, 2.23.05. (Bringsjord & Arkoudas presented.) Presentation available at
  - <http://kryten.mm.rpi.edu/PRES/AFRLUPDATE0205/afrl-rome.visit022305.mov>
  - <http://kryten.mm.rpi.edu/PRES/AFRLUPDATE0205/afrl-rome.visit022305.tar>
- Bringsjord, S., McEvoy, C. & Destefano, S., “Evil, E, and Virtual Humans,” Center for Cognitive Science, SUNY Buffalo, 2.9.05. (Bringsjord presented.) Presentation available at
  - <http://kryten.mm.rpi.edu/PRES/SUNYB020905/scb.ascs.e.sunybuff020905.mov>
  - <http://kryten.mm.rpi.edu/PRES/SUNYB020905/scb.ascs.e.sunybuff020905.tar>
  - <http://kryten.mm.rpi.edu/PRES/SUNYB020905/evil3.pdf>
- Bringsjord, S. & Schimanski, B., “Possible DARPA IPTO Grand Challenge: “WAIS Robot,”” IPTO Grand Challenge Workshop 1.12.05, Washington DC.
- Bringsjord, S., Shilliday, S. & Taylor, J., “On Model Building-Based Hypothesis Generation,” Orlando, Florida, NIMD PI Meeting, November 30 2004 (Bringsjord presented).
- Bringsjord, S., Shilliday, S. & Taylor, J., “Two Types of Tacit Knowledge in the Analytic Process,” Orlando, Florida, NIMD PI Meeting, November 30 2004 (Bringsjord presented).
- Bringsjord, S., Arkoudas, K., Yang, Y., Shilliday, A. & Taylor, J., “Toward Engineering a System for the ‘Commander’s Predictive Environment’ that Not Only Issues Predictions, But *Justifies* Those Predictions,” November 4, 2004, Syracuse NY, organized and sponsored by Gene Santos, AFRL/AFOSR. (Bringsjord presented.)
- Bringsjord, S., Shilliday, A., Taylor, J. & Arkoudas, K., “Intelligence Analysis is Plagued by Bias, and Logic (Embodied in Slate) is the Antidote,” at Booz Allen Hamilton, to BAH’s intelligence analysts and wargamers, October 21, 2004, McLean VA. (Bringsjord and Taylor, presenters.)

- “The Paradox of Human versus Machine Reasoning,” Keynote Address at the Institute for Logic and Cognition, Zhongshan University, Guangzhou, China, May 7, 2004. A second paper will be presented there at a workshop following the conference, and will be accompanied by demonstrations: “Narratological Reasoning, and the Formalization/Mechanization Thereof.”
- “The Future of Smart Machines.” Doane Stewart School. January 22, 2004.
- “Next-Generation Machine Intelligence and Future Warfare,” NASA/Langley & Army TRADOC 3-day conference on future threats to the United States, 11.18.03 (conference span: 11.18–11.20). Sponsored by Deputy Chief of Staff for Intelligence.
- “Philosophically Deep Robotics — With Demonstrations,” Annual Eastern American Philosophical Association Meeting, Washington DC, December 29, 2003. Presentation by Bringsjord, but collaborators: Bettina Schimanski, Marc Destefano, Matt Daigle.
- “The MARMML Reasoning System, and Homeland Defense,” Rome Labs, Utica NY, August 26, 2003.
- “A Logical Approach to Hypercomputation,” American Mathematical Society, San Francisco, CA, May 4, 2003. (An abstract of this paper can be found in Volume 24, Issue 3 of *Abstracts of Papers Presented to the American Mathematical Society* 987–03–15. A full version of the paper appeared in *Theoretical Computer Science*, second author Kostas Arkoudas; see entry above in “Papers/Chapters.”)
- “Advanced Synthetic Characters (for Education and Interactive Entertainment),” University of Oslo on March 19, 2003, and University of Bergen on March 21, 2003.
- “Mental Metalogic,” July 2002, Zhongshan University, China. With Yingrui Yang, who presented.
- “Philosophical Robotics,” SUNY Stony Brook, November 20, 2002. With Marc Destefano and Bettina Schimanski.
- “Bridging Between Computer Science and the Humanities,” April 22, 2002, University of Virginia.
- “Smart Machines and Smarter Minds,” at *The Technology of Humanity: Can Technology Contribute to the Quality of Life?*, Friday, April 5, 2002, Illinois Institute of Technology, Chicago-Kent Law School. Has given rise to Bringsjord, S. (2003) “Foundational Position on AI and the Human Mind,” in Mitchell, E. & Andrews, L., eds., *The Technology of Humanity: Can Technology Contribute to the Quality of Life?* (Chicago, IL: Illinois Institute of Technology), pp. 58–59.
- “AI and Creativity,” Keynote Address, *Annual Southwest Undergraduate Philosophy Conference*, March 2, 2002, University of Central Oklahoma.
- “Can a Computer Be Genuinely Creative?” April 13, 2001, Oregon State University. This talk was webcast across the country and beyond.
- “The Modalized Gödelian Argument Against Computationalism,” April 12, 2001, University of British Columbia.
- Keynote Address: “Is it Possible to Create Dramatically Compelling Interactive Digital Entertainment?” at *Digital Textualities*, March 1 & 2nd, 2001 at IT University of Copenhagen, Denmark, an international conference devoted to issues in the intersection of cognition and digital entertainment. Abstract available at  
<http://kryten.mm.rpi.edu/SELPAP/DENMARK/denmark.abstract1.txt>

- “Remarks on Mathematical Logic and Paradox,” Albany Academy for Girls, January 11, 2001.
- “Creativity in Human and Artificial Agents,” a series of 8 lectures, at Esslingen University, Esslingen (outside Stuttgart), Germany, June, 2000.
- “The Future of Machine Creativity,” Exxon Corporation, February 16, 2000.
- “In Defense of a Vibrant Future for AI and Testing — Courtesy of Formal Logic,” Educational Testing Service, Princeton, NJ, December 15, 1999.
- “Zombanimals — with Robots from the Minds & Machines Laboratory.” Annual meeting of the Society for Machines and Mentality, at the annual Eastern Division Meeting of the American Philosophical Association, December 1998, Washington, DC.
- “The Impact of Computing on Epistemology: Knowing Gödel’s Mind Through Computation,” Keynote Address at World Congress of Philosophy, for Annual Computing and Philosophy Conference, August 13, 1998, Boston, MA.
- “Is Deep Blue Creative?” Hartford Graduate Center, January, 1998.
- “Building an Artificial Lawyer: First Steps,” Department of Computer Science, Siena College, February 6, 1998.
- “Computationalism,” annual Computing and Philosophy Conference, Pittsburgh, PA, August, 1997.
- Two lectures for SUNY Albany Department of Educational Psychology and Statistics, March, 1997:
  - \* “Cultivating Intrinsic Motivation for Solving Logic Problems”
  - \* “Strategies for Successfully Tackling Logic Problems”
- “The Argument from Irreversibility,” SUNY Buffalo Center for Cognitive Science, October 23, 1996.
- “Computationalism is Dead; Now What?” Department of Philosophy, Dalhousie University, June 14, 1996, Halifax, Canada.
- “Computational Pedagogy: Just Doing It,” Acadia University, June 12, 1996, Wolfville, Canada.
- “Fetzer on Computationalism and Connectionism,” Southeast Society for Philosophy and Psychology, Nashville, Tennessee, April, 1996.
- “AI Meets Julius Caesar,” Department of Philosophy, Department of Linguistics and Cognitive Science, and the Computing and the Humanities Group, Brown University, April 19, 1995.
- “Philosophy and Science: Who Leads Who?” March, 1994, Centenary College, Shreveport, LA.
- “Varieties of Uncomputable Expertise,” May 6, 1994, Florida AI Research Symposium, Pensacola, Florida.
- “Generating Stories with Context-Sensitive Grammars,” April 23, 1994, Sorbonne, Paris, two-day Computer Generated Literature conference associated with ALLC-ACH ’94.
- “Why Henrik Ibsen Threatens Computer Generated Literature,” April 24, 1994, Sorbonne, Paris, two-day Computer Generated Literature conference associated with ALLC-ACH ’94.

- “How to Get a Computer to Write Fiction,” February 26, 1993, Cognitive Science Program, Occidental College, Los Angeles, California.
  - “Could a Computer Ever Get Inside the Head of Proust?” November 16, 1991, Albany Public Library, Annual Award Luncheon for Albany Author of the Year.
  - “Free Will and AI’s Person Building Project.” Colloquium, State University of New York at Stony Brook, February 1987.
  - “Why Sherlock Holmes Can Be Replaced by an Expert System.” March 7, 1988, State University of New York at Albany, Colloquium.
- Internal (RPI); selected only
    - Bringsjord, S., Taylor, J., Clark, M., Mukerjee, D. & Gilbert, E. “Remarks on Piagetian Logic-Based Artificial Intelligence and Natural Language Processing.” Symposium on Natural Language Processing. July 7, 2009, Rensselaer Polytechnic Institute, Troy, NY. Slides available at  
[http://kryten.mm.rpi.edu/PRES/NICKSYMP0709/SB\\_etal\\_Piaget-n-LCNL.pdf](http://kryten.mm.rpi.edu/PRES/NICKSYMP0709/SB_etal_Piaget-n-LCNL.pdf)
    - “Because Strong AI is Dead, Test-Based AI Lives,” for the RPI ACM Chapter, February 11, 2008. Movies of the presentation, and the Q&A session thereafter, are available at  
<http://outcry.puttynuts.com/ryan/acm>  
 The presentation file is available at  
[http://kryten.mm.rpi.edu/PRES/ACMRPI021108/sb\\_acm\\_rpi\\_021108.pdf](http://kryten.mm.rpi.edu/PRES/ACMRPI021108/sb_acm_rpi_021108.pdf)
    - “Only a Technology Triad Can Tame Terror,” in the Minds & Machines Lecture series, November 15, 2007, RPI. The presentation file, with hotlinks to the three relevant articles of mine (on which the presentation is based), is available at  
[http://kryten.mm.rpi.edu/PRES/TAMETERROR/sb\\_tamerror.pdf](http://kryten.mm.rpi.edu/PRES/TAMETERROR/sb_tamerror.pdf)
    - “Breaking out of the Dark Ages of Computer Programming: The REASON Family of Logic-Based Programming Languages,” in the Minds & Machines Lecture Series, September 27, 2006, RPI. Bringsjord presented, but Konstantine Arkoudas is on the project as well. The presentation file is available at  
[http://kryten.mm.rpi.edu/PRES/REASON/reason\\_mm.pdf](http://kryten.mm.rpi.edu/PRES/REASON/reason_mm.pdf)
    - “Is There a God?,” presentation, debate, Q&A as part of four-person panel on symposium devoted to the question, sponsored by the School of Humanities & Social Sciences, RPI, March 22, 2005. Bringsjord presentation file available as both a mov file and — a format native for Windows — a wmv file:  
<http://kryten.mm.rpi.edu/PRES/GODPANEL/godpanel1.mov>  
<http://kryten.mm.rpi.edu/PRES/GODPANELgodpanel1.wmv>
    - “How to Build Smart Machines: Relax ‘Smart’ or Pray (well, you can trick too),” presentation accompanying paper written as a target author in first volume (*How Can We Build Smart Machines?*) of Erlbaum book series “Great Debates in Cognitive Science.” February 4, 2005. Presentation file available as both a mov file and — a format native for Windows — a wmv file:  
<http://kryten.mm.rpi.edu/PRES/RELAXPRAY/relaxsmartorpray.mov>  
<http://kryten.mm.rpi.edu/PRES/RELAXPRAY/relaxsmartorpray.wmv>
    - “Bridging Artificial Intelligence, Psychometrics, and Economics: New Theory of Intelligence & Rationality,” Bettina Schimanski and Selmer Bringsjord. *A Science-Based Approach to Economic Decision-Making*, a workshop held November 21, 2003, RPI, sponsored by the School of Humanities & Social Science and the Economics Department.

- For the past four years (2004, 2003, 2002, 2001) I’ve given a guest lecture to launch the *Minds & Machines* first-year-studies course. This lecture has become something of a tradition. In it, I challenge the audience to test their reasoning acumen on a series of puzzles. The talk is called: “How Do You Stack Up Against Spock, Wolf, Holmes, Moriarty . . .?” The most recent version of the powerpoint is available at  
<http://kryten.mm.rpi.edu/detective4.ppt>
- The Cognitive Science Department runs a bi-weekly “brown bag” seminar series, and I routinely present work-in-progress at it, and/or have my grad students present. A recent talk was devoted to my nascent attempt to devise a formal account of intelligence/rationality to accompany the journal version of my IJCAI-03 paper (see above).
- “I’m More Rational Than Any Machine Will Ever Be (And Ditto, In Principle, For You),” public lecture in *Minds & Machines* Machette Foundation lecture series, October 26, 2000.
- “Can Machines be Genuinely Creative?” *Minds & Machines* Machette Foundation lecture series, November 11, 1999.
- “Entrepreneurship in the Age of Smart Machines,” delivered as part of a symposium as part of the inauguration of RPI’s new President, Shirley Jackson, September 24, 1999.
- “Can Computers Originate Anything?” Public Lecture Series sponsored by Machette Foundation, October, 1998.
- “The Future of Artificial Intelligence,” Biomedical Engineering Program Students, January 20, 1998.
- Many presentations given as service for various units in the Rensselaer community — Admissions Office, Corporate Relations, Board of Trustees, etc. Many presentations on the research projects driving the Rensselaer AI & Reasoning Lab. Numerous talks to outside groups (e.g., Washington Advisory Group, H&SS Advisory Board, etc.).
- “Opening One’s Classroom to the World,” Faculty of Information Technology Lecture Series, February, 1998.
- “Pedagogy and the Web — Now and Tomorrow,” February 3, 1996, sponsored by the Center for Innovation in Undergraduate Education.
- “God, Evil and Euclid,” February 2, 1996, public lecture sponsored by Rensselaer Christian Association.
- “Why Philosophers Do It (Science & Engineering) Better,” April 5, 1995, Colloquium Series, Department of Philosophy, Psychology & Cognitive Science.
- “Busy Beavers and Cognitive Science,” September, 1994, in the 1994 Colloquium Series, Department of Philosophy, Psychology & Cognitive Science.
- “The State of the Art in Story Generation,” October 21, 1992, Rensselaer chapter of the Association for Computing Machinery.
- “On the Introspective Power of Robots,” Theoretical Aspects of Artificial Intelligence, 1989 Seminar Series, Rensselaer.
- “The Future of Artificial Intelligence,” April 9, 1988, Genericon IV, Science Fiction Conference, Rensselaer Polytechnic Institute.
- “Syntactic Accounts of Defeasible Logic,” April 8, 1988, The Byte-Body Nexus: Disciplinary Perspectives on the Human-Machine Interface, colloquium series, Rensselaer Polytechnic Institute.

- “Two Philosophical Problems In Artificial Intelligence,” March 23, IEEE, RPI.
- “Careers in Artificial Intelligence.” February 1988, Careers in Computer Science, sponsored by the Department of Computer Science, RPI.
- “Logical Omniscience and Artificial Intelligence.” 1987–88 Philosophy Department Colloquia series at RPI. October 14, 1987.
- “Why a Logician Could Become a Hacker in AI.” Presentation as candidate for Assistant Professor at RPI. January 15, 1987.

## Media

A few highlights: Recently, stories about research devoted to building cognitively robust synthetic characters have appeared across the globe (*Russian Newsweek*, *Science Daily*, etc.), in connection with demonstrations of such characters. Appeared in the movie *Wordplay*. Have appeared in many documentaries on AI (the most recent one produced by a Korean TV station, and aired in that country). Along with individuals and programs associated with my laboratory, my research been the subject of thousands of local and national television (Fox, CBS, NBC), radio, newspaper, and magazine stories. Subjects include philosophy of mind, computational creativity, AI, web-based education, etc. Some highlights from the past: Interviewed live in Hamburg on German television, Premiere Network. Segment devoted to *Soft Wars* aired on CNN. Did week-long “Countdown to Tomorrow” show on CBS radio, aired coast-to-coast. Television show “Beyond 2000” filmed and aired episode on story generation work. Radio interviews on AI and creativity for NPR, BBC, German National Radio, Austrian Broadcasting Corp., and many domestic stations across the United States. Cover story on AI story generation work in March/April 1998 issue of MIT’s *Technology Review*. From 1995–1998 hosted a weekly radio talk show applying logic to current events. Channel 6 did a story for their “Tuesday Technology” segment on AI and preventing terrorism, based on a visit to the Rensselaer AI & Reasoning Laboratory, where they interviewed Bringsjord and his students. The story ranged from the technical side of AI and biometrics to its ethical side (personal privacy versus national databases of retina patterns).

## Service (selected)

- National (selected)
  - Regional Director (North America), International Association for Computing and Philosophy. In this capacity, currently running an NSF-sponsored track at the upcoming North American Computing and Philosophy Conference at Indiana University. In addition, I hosted the North American 2006 conference, with lectures archived at <http://www.cogsci.rpi.edu/conferences/cap>
  - President, Society for Machines and Mentality, 2003 (VP in 2002).
  - Member, APA Committee on Philosophy and Computers
- Internal (selected)
  - Chair, Graduate Education Committee, 2007–2009. Appointed by Rensselaer’s President Jackson to oversee a review of graduate education and (as it relates to) sponsored research on a university-wide basis. Report completed, submitted.
  - Member, Search Committees in Cognitive Science Department, 2004, 2003, 2002, 2001.

- Member, IT Constellation Chair Search Committee, 2000–present.
  - Member, President’s Internal Committee on IT, 2000.
  - Leader, Marketing Committee for Faculty of Information Technology, 1999–2000.
  - Member, New Information Curriculum Committee, 1997–1999
  - Member, Search Committee for Dean of School of Humanities & Social Sciences, 1995.
  - Participant, Electronic Research Management Pilot Project, 1995.
  - Member, Computing Committee for the School of Humanities & Social Sciences, 1991.
  - Member, Interactive Learning Task Force, School of Humanities & Social Sciences, 1993–94.
  - Member, Travel Management Committee, 1993–95.
  - Faculty Advisor, Pi Kappa Phi Fraternity, 1990–present.
- Community
    - Member, Board of Trustees, Loudonville School, 1993–1996.
    - Member, Foundation Board of the Troy Public Library, 1990–present.
    - Vice President, Brunswick Hills Association, 1988–90, 1999.
    - Head Coach, World Team Tennis Team, 12& Under, 1997–1999.
    - Pitching Coach, Brunswick Little League, 10& Under, 1996–1999.
    - Volunteer Outdoor Emergency Care Technician, Jiminy Peak Ski Area, 1996–present.

### **Editing/Refereeing/Evaluator**

- Scientific Committee member and referee for 2<sup>nd</sup> Conference on Ontology for the Intelligence Community, November 28–30, 2007.
- Evaluator for proposed programs in Engineering and Physical Sciences Research Council (EPSRC; in the UK)
- Evaluator for European Union’s *Cognitive Systems* research program.
- Committee Member and “Meta”-Reviewer Cognitive Science Society Annual Conference
- Program Committee Member and reviewer, AAAI Annual National Conference, & AAAI Symposia
- Evaluator for National Science Foundation (repeatedly)
- Reviewer for many other smaller conferences (NA-CAP, etc.).
- Guest Editor of an annual issue of the *Journal of Experimental & Theoretical Artificial Intelligence* on the topic of Heterogeneous Reasoning (with Yingrui Yang).
- Editorial Board Member, *Game Studies*
- Associate, *Behavioral and Brain Sciences*
- Journal Refereeing (usually repeatedly)

- *Journal of Applied Logic*
- *IEEE Intelligent Systems*
- *Applied Mathematics and Computation*
- *Cognitive Science*
- *Behavioral and Brain Sciences*
- *Creativity Research Journal*
- *Philosophy and Phenomenological Research*
- *Psycology*
- *Journal of Experimental and Theoretical Artificial Intelligence*
- *Minds & Machines*
- *Game Studies*
- *Science and Human Values*
- *Synthese*
- *Journal of Consciousness Studies*
- *Speculations in Science and Technology*
- *Internet Encyclopedia of Philosophy*

- Conferences

- Annual Cognitive Science Society Meeting, International Language and Cognition Conference, International Computing & Philosophy, and many, many others

- Book Publishers (repeatedly)

- MIT Press/Bradford Books
- Prentice-Hall
- Kluwer
- Lawrence Erlbaum
- McGraw Hill

## **Dissertation**

*The Failure of Computationalism*, Supervisor: Roderick Chisholm.

## **Professional Associations**

- American Philosophical Association
- American Association for Artificial Intelligence
- Association for Symbolic Logic
- Society for Machines and Mentality (past President)
- Cognitive Science Society

## Software expertise

- Reason, a new declarative programming language I'm developing to correct what I see as an unfortunate divergence between first-rate formal reasoning ability and standard programming as taught to American youth. For a peek at this nascent project, interested readers can consult the following document:

[http://kryten.mm.rpi.edu/selmer\\_clear\\_prog2.pdf](http://kryten.mm.rpi.edu/selmer_clear_prog2.pdf)

- LISP (esp. Common); many machine/automated reasoning systems (e.g., Vampire, OTTER, OSCAR, SNARK).
- All major logic courseware, esp. Hyperproof, NDL, Turing's World, Fitch, Tarski's World, Boole. Though I don't teach *Intro to Logic* any longer, I still give occasional guest lectures, and some content from my teaching is archived online:

– <http://www.rpi.edu/~brings/logarg.html>

- LaTeX, SGML, HTML, XML.
- Most major applications on UNIX, Windows, and MacOS platforms, including hypermedia tools suitable for classroom use.

**Personal:** Born 11/24/58, White Plains, NY. Married to Elizabeth Bringsjord; two children, Katherine (22) and Alexander (20), both of whom believe they are better athletes than their father, and the evidence that they are correct, alas, is mounting week by week. Dad's sole surviving edge is skiing (and tennis on a miraculously good day with best of 3, *not* 5), but how much longer can that last?