

Dr. Bruce Damer
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CURRICULUM VITAE

PROFESSIONAL PREPARATION

2011 PhD, University College Dublin, Ireland

1986 MSEE, University Of Southern California, Los Angeles CA.

1984 BSc. Computer Science, University of Victoria, Canada.

APPOINTMENTS

- Associate Researcher, Biochemical Engineering, UC Santa Cruz (2013-present)
- Associate, NASA Astrobiology Center, Ames Research Center (2011-present)
- Member, International Society for the Study of the Origin of Life (ISSOL, 2011-present)
- Principal Research Scientist, DigitalSpace (1995-present)
- Founding Director, Contact Consortium (1995-present)
- Founder and Curator, DigiBarn Computer Museum (2001-present)
- Team Lead: DigitalSpace/NASA Ames Research Center (1999-2009)
- Visiting Scholar, U. Washington Human Interface Technology Lab, (1998-2000)
- Faculty, Dept. of Math and Physics, Charles University, Prague (1992-1994)

SELECTED PUBLICATIONS

Damer, B., and Deamer, D. (2015) Coupled phases and combinatorial selection in fluctuating hydrothermal pools: A scenario to guide experimental approaches to the origin of cellular life. *Life* 5:872-887.

Jenniskens P., Damer B., Norkus R., Pilorz S., Nott J., Grigsby B., Adams C., and Blair B. (2015) SHEPHERD: A Concept for Gentle Asteroid Retrieval with a Gas-Filled Enclosure, *New Space*. March 2015, Vol. 3, No. 1: 36-43

Damer, B., Hinrichs, R. (2014) The Virtuality and Reality of Avatar Cyberspace in *The Oxford Handbook of Virtuality*, pp. 17-38, Grimshaw, M., Ed. Oxford University Press.

Damer, B, Newman, P., Norkus, R., Graham, J., Gordon R., Barbalet T. (2011) Cyberbiogenesis and the EvoGrid: A 21st Century Grand Challenge in: Seckbach, J. G., R. (ed.) *Genesis: Origin of Life on Earth and Planets*. Dordrecht, Springer.

Damer, B, Newman, P., Gordon R., Barbalet T., Deamer D., Norkus R. (2010) The EvoGrid: A Framework for Distributed Artificial Chemistry Cameo Simulations Supporting Computational Origins of Life Endeavors, Proceedings of the 12th Conference on Artificial Life (August 18-23, Odense, Denmark), MIT Press, Cambridge, MA.

Damer, B. (2008). "The God Detector" in *Divine Action and Natural Selection*, Joseph Seckbach, Richard Gordon (Eds.): World Scientific, Singapore.

Damer, B., Brody, D. *Bootprints on Asteroids*, story coverage of NASA Trade Study on

- DigitalSpace's work on Constellation alternative targets to NEOs, Space.com July 2007.
- Damer, B., Rasmussen, D, Newman, P., Norkus, R., Blair, B. (2006). "Design Simulation in Support of NASA's Robotic and Human Lunar Exploration Program" in *Proceedings of AIAA Space 2006*.
- Damer, B. (2003). "A Virtual Walk on the Moon" in Laurel, B., *Design Research*: MIT Press
- Damer, B. Gold, S, de Bruin, J. (2000), "Conferences and Trade Shows in Inhabited Virtual Worlds: A Case Study of Avatars98 & 99" in *Virtual Worlds, Second International Conference, VW 2000, Paris, France: Lecture Notes in Computer Science*, Jean-Claude Heudin (ed.), Springer, Berlin.
- Damer, B. et al (1998). "Nerve Garden" in *Cyberarts 98: Ars Electronica*, Springer, New York.
- Damer, B. (1997). *Avatars, Exploring and Building Virtual Worlds on the Internet* book: Peachpit Press, Berkeley CA.
- Damer, B. (1997). "Sherwood Forest Towne" in *Cyberarts 97: Ars Electronica*, Springer.
- Damer, B. (1996). "Inhabited Virtual Worlds: A New Frontier for Interaction Design" in *ACM interactions*: ACM Press.

GRANTS

- NASA SBIR and STTR program: seven awards (four phase I, three phase II).
- NASA Ames Research Center, NASA HQ: four research and development grants.
- USRA/RIACS: three awards; Raytheon: four research project grants; awards from: Honeybee Robotics, B612 Foundation, NIH/Virtual Reality Aids, European Space Agency.

AWARDS

- NASA Group Achievement Award for Lunar Robotic Exploration (2006).
- Awards for Sherwood Forest, Nerve Garden projects, Ars Electronica (1997, 1998)
- Xplorer of the year award (1992)
- Sigma Xi Engineering Honors Society (University of Southern California, 1985-6)
- Dean's award (University of Southern California, 1985)

SYNERGISTIC CONFERENCE ACTIVITIES

- Founder and organizer, Digital Biota conference series (1997-2001)
- Founder and organizer, Avatars & VLearn conference series (1996-2003)
- Speaker at over two hundred technical & scientific conferences and public venues since 1995

MEDIA COVERAGE

- Dr. Damer's work has been covered in: The New York Times, Wall Street Journal, BBC World Service, San Jose Mercury News, Los Angeles Times, BoingBoing, Leonardo, CNNfn, CBS

News, Space.com, MSNBC, CNET, Wired, Popular Science, Astrobiology.net, Discovery & History Channels, Christian Science Monitor, New Scientist, Suddeutland Zeitung, Ars Electronica's CyberArts, Kybernetes, 3D Design, SIGGRAPH, COMDEX, InfoWorld, Knowledge Management, The Chronicle of Higher Education, ACM SIGCHI, Computer Graphics, CSCW, and elsewhere.

For additional information please see: www.damer.com