

John Beaver

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Professional Preparation

Youngstown State University	Physics and Astronomy	B.S., 1985
Ohio State University	Astronomy	PhD, 1992

Appointments

2014 – Present	Professor of Physics and Astronomy	Univ. of Wisconsin - Fox Valley
2003 – 2014	Associate Professor of Physics and Astronomy	Univ. of Wisconsin - Fox Valley
1997 – 2003	Assistant Professor of Physics and Astronomy	Univ. of Wisconsin – Fox Valley
1996 – 1997	Adjunct Assistant Professor (Physics)	Wichita State University
1993 – 1996	Assistant Director for Programs & Facilities	Lake Afton Public Observatory
1992 – 1993	Instructor, Dept. of Physics and Astronomy	Denison University
1991 – 1992	Lecturer, Department of Astronomy	Ohio State University
1988 – 1990	Summer Research Associate	Lowell Observatory
1986 – 1991	Graduate Teaching Associate	Ohio State University
1985 – 1986	Limited Service Faculty (Physics)	Youngstown State University

Publications

Beaver, John 2018 *The Physics and Art of Photography, Volume 1: Geometry and the Nature of Light* (San Rafael: Morgan and Claypool)

Beaver, John 2018 *The Physics and Art of Photography, Volume 2: Energy and Color* (San Rafael: Morgan and Claypool)

Beaver, John 2019 *The Physics and Art of Photography, Volume 3: Detectors and the Meaning of Digital* (San Rafael: Morgan and Claypool)

“Strömgren-H β CCD Photometry of The Rich Open Cluster NGC 6705 (M 11),” John Beaver, Nadia Kaltcheva, Michael Briley and Dan Piehl, *Publications of the Astronomical Society of the Pacific*, **125**, pp. 1412-1420 (2013).

“A Virtual Astronomical Research Machine in No Time (VARMiNT),” John Beaver, in *Society for Astronomical Sciences 31st Annual Symposium on Telescope Science*, pp 203-207 (2012).

“Extremely Low-Cost Point-Source Spectrophotometry (ELCPSS),” John Beaver and Charles Conger, in *Society for Astronomical Sciences 31st Annual Symposium on Telescope Science*, pp 113-120 (2012).

"A CCD Spectrometer for One Dollar," John Beaver and Dominique Robert in *Earth and Space Science: Making Connections in Education and Public Outreach*, ASP Conference Series, **433**, p. 425. (2011)

"Emergence: A Planetarium and Art Gallery Collaboration Between Artist, Astronomer and Musician," John Beaver, Judith Baker Waller and Matt Turner in *Earth and Space Science: Making Connections in Education and Public Outreach*, ASP Conference Series, **433**, p 215. (2011)

"Using Art as a Point of Departure for Teaching Astronomy to Non-Science Majors," John Beaver, in *Cosmos in the Classroom 2007: Handouts and Papers*, ed. Andrew Fraknoi, (Astronomical Society of the Pacific, 2008)

“Collaborating with an Artist: The Lost Art of Slides,” John E. Beaver, *Proceedings of the 2002 Great Lakes Planetarium Association Conference*, ed. Dale Smith (2002)

- “The Speed of Light with a Shortwave Radio,” John Beaver, *The Physics Teacher*, March 2000
- "Scaling the Solar System at Lake Afton Public Observatory," John Beaver, W.Scott Kardel, and Greg Novacek, in *Astronomy Education: Current Developments, Future Coordination*, ed. John R. Percy, (Astronomical Society of the Pacific), p 167. (1996)
- "A Scale Model of the Solar System at Lake Afton Public Observatory," John Beaver, W. Scott Kardel, and Greg Novacek, *Bulletin of the American Astronomical Society*, **27**, 888. (1995)
- "The Cold, Ionized Shell Around the Old Nova DQ Herculis," J.E. Beaver, Ph.D. Dissertation, The Ohio State University. (1992)
- "Anomalous Molecular Abundances and the Depletion of NH₂ in Comet P/Giacobini-Zinner," John E. Beaver, R. Mark Wagner, David G. Schleicher, and Barry L. Lutz, *The Astrophysical Journal*, **360**, 696. (1990)
- "Identification of a Red Optical Counterpart of Cygnus X-3," R. Mark Wagner, Tobias J. Kreidl, Phillip J. Martell, and John E. Beaver, in *CCDs in Astronomy*, ed. G.H. Jacoby (Astronomical Society of the Pacific), p 361. (1990)
- "Periodic Comet Brorsen-Metcalf (1989o)," David G. Schleicher, D. J. Osip, Robert L. Millis, R. Mark Wagner, Ray Bertram, John E. Beaver, Barry L. Lutz, H. Spinrad, M. Dickinson, R. Dey, C. S. Morris, D. A. J. Seargent, D. W. E. Green, and J. E. Bortle, *International Astronomical Union Circular*, no. 4810. (1989)
- "Spectrophotometry of Comet P/Giacobini-Zinner (1985 XIII)," John E. Beaver, R. Mark Wagner, David G. Schleicher, and Barry L. Lutz, *Bulletin of the American Astronomical Society*, **21**, 938. (1989)

Recent Professional Presentations

- “Ephemeral-Process Photography: A New Way to Make Color Photographs with Old B&W Emulsions,” John Beaver, *Color: Pixels Palletes and Perception*, Discovery Institute, Madison, WI, April, 2018 .
- “Filming the Eclipse with Antiquarian Photography: Art Meets Astronomy,” John Beaver and Anne Haydock, American Association of Physics Teachers Winter Meeting, January, 2018 .
- “Using New-Antiquarian Photographic Processes to Integrate Art and Science,” Winter Meeting of the American Geophysical Union, December 14, 2017.
- “Ephemeral Process Photography,” Hannah Fudge and John Beaver, *Research in the Rotunda*, Madison, WI (April, 2017)
- “Ephemeral Process Photography,” Workshop led at Minneapolis Community and Technical College Department of Art, Minneapolis, MN (April, 2017)
- “Teaching Photography in Scotland,” UW Colleges Department of Art, Fond du Lac, WI (2016)
- “Photography with Detectors of Very Low Sensitivity,” UW Colleges Department of Computer Science, Engineering, Physics and Astronomy, Fond du Lac, WI (2016)
- “The Art and Physics of Photography: An Interdisciplinary Course,” *American Association of Physics Teachers Winter Meeting*, New Orleans, LA (2016)
- “The Art and Science of Photography,” UW Colleges Department of Computer Science, Engineering, Physics and Astronomy, Green Lake, WI (2015)
- “Stromgren-H β Photometry of the Open Cluster NGC 7209,” John Beaver, Nadia Kaltcheva, and Michael Briley, *Landoldt Standards and 21st Century Photometry*, Baton Rouge, LA (2015).

“Stromgren-H β Photometry of the Young Open Cluster NGC 6913,” Nadia Kaltcheva, John Beaver, Valeri Golev, Steven Lund, and Michael Briley, *Landoldt Standards and 21st Century Photometry*, Baton Rouge, LA (2015).

“Stromgren-H β Photometry of the Young Open Cluster M 29,” Nadia Kaltcheva, Valeri Golev, John Beaver, Steven Lund and Michael Briley, American Astronomical Society, IAU General Assembly, Meeting #29, id.2246891(2015).

“Open Cluster Populations in Scutum,” Nadia Kaltcheva, John Beaver and Michael Briley, *European Astronomical Society*, EWASS Meeting, Turku, Finland (2013)

“The Three Worlds,” John Beaver and Diana Ludwig, *Aylward Gallery*, UW – Fox Valley, Menasha, WI (2013)

“Strömgren-H β Photometry of the Galactic Open Cluster M 11,” John Beaver, Michael Briley, Nadia Kaltcheva, Charles Conger and Dan Piehl, *American Astronomical Society*, AAS Meeting #221, #331.01 (2013)

“Extremely Low-cost Point-Source Spectrophotometry,” *Joint Meeting of the Society for Astronomical Sciences and the American Association of Variable Star Observers*, Big Bear Lake, CA (2012)

Selected Exhibitions and Performances

John Beaver, “The Ephemeral is Real: A Response to the Virtualization of Nature,” *Artistry Theatre and Gallery*, Bloomington, Minnesota (scheduled for January, 2020)

Judith Baker Waller, John Beaver, Joanna Dane and Matt Turner, “River Bookends: Fox Wanderings,” *Barlow Planetarium*, Menasha, WI (October, 2018). Planetarium show.

John Beaver, “Motion in Scotland,” *UW – Washington County Art Gallery*, West Bend, Wisconsin (August 25 – October 10, 2017)

John Beaver and Diana Ludwig, “The Three Worlds,” *Aylward Gallery*, Menasha, WI (2013).

John Beaver, “Portraits: Animal, Mineral and Vegetable,” *Founders Hall Gallery*, Manitowoc, WI (2009).

Judith Baker Waller and John Beaver, “Emergence: Out of the Blue,” *Aaron Bohrod Gallery*, Menasha, WI (2008). Painting and photography exhibit, with explanatory text.

Judith Baker Waller, John Beaver and Matt Turner, “Emergence: Into the Black,” *Barlow Planetarium*, Menasha, WI (2008). Planetarium show.

John Beaver, “Tears of Rage: Cyanonegative and New-Antiquarian Photography,” *Ohio Art League Gallery*, Columbus, Ohio (July 1 - July 30, 2004).

John Beaver and Susan Rabideau, “Caroline Herschel and the Discovery of the Milky Way,” *Barlow Planetarium* (2002). Theater performance and lecture.

Judith Baker Waller and John Beaver, “Astronomy: Images, Ideas, and Perspectives,” *Waupaca Area Public Library Exhibit Room*, Waupaca, WI, *Aaron Bohrod Gallery*, Menasha, WI (2000). Exhibit of paintings, photographs and interactive exhibits, with explanatory text.

Judith Baker, Matt Turner, John Beaver and Alex McHattie, “Keeping Time: a Sight and Sound Poem,” *Barlow Planetarium*, Menasha, WI (1998). Planetarium show.

Douglas Fowler, John Beaver and Richard Pirko, “The Milky Way,” *Ward Beecher Planetarium*, Youngstown, OH (1993) Planetarium show.