

James M. Bauer (“gerbs”)

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Education

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|---|----------------------|
| University of Hawaii, Manoa Ph.D. in Astronomy; June 2003 | (1996 - 2003) |
| State University of New York, Stony Brook Masters of Science in Astronomy; June 1996 | (1993 - 1996) |
| Massachusetts Institute of Technology Bachelor of Science in Physics; June 1991 Bachelor of Science in Mathematics; September 1991 | (1986 - 1991) |

Awards

- *JPL Mariner Award for work on the NEOWISE Restart Mission (2014).*
- *NASA Group Achievement Award: NEOWISE team (2012)*
- *NASA Group Achievement Award, Spitzer Cryogen Mission Closeout Team (2012)*
- *NASA Group Achievement Award, WISE Science Data Center (2012)*
- 19494 Gerbs –named after James “gerbs” Bauer
- *Honorary Officer, NASA's First Planetary Defense Squadron (Provisional)*
- *Mariner Award for work on the WISE Moving Object Pipeline for NEOWISE.*
- *Mariner Bonus Award for work on HST imaging of Triton's Surface.*
- NEOCAM Mission Team Member.
- Funded CoI on Near Earth Object Observations grant NEOWISE.
- Funded PI on Planetary Data Mission Analysis grant: “Archiving the NEAT Database (1996-2007) for Scientific & Mission Support”
- Funded PI on Discovery Data Analysis grant: “Near Infrared Observations of Deep Impact with the Palomar Adaptive Optics System”.
- Funded PI on Guest Observer Time for SST warm-mission proposal “A Double Planetary Occultation By the Outer Gas Giant Neptune.”
- Funded PI on Director's Discretionary Time for SST proposal “Observations of the activating Centaur 2000 EC98”.
- Funded CoI of the Spitzer Cometary Nucleus Survey (SEPPCoN).

Recent Positions & Work Experience

Deputy Principal Investigator - NEOWISE Mission (May 2013 - Present)
NASA, Jet Propulsion Laboratory, California Institute of Technology
 Detection and Characterization of Moving Objects in the Wide-field Infrared Survey Explorer (WISE) mission data.

Lead Scientist - WISE Moving Object Pipeline Subsystem (February 2009 - Present)
WISE Science DATA Center, IPAC, California Institute of Technology
 Detection and Characterization of Moving Objects in the Wide-field Infrared Survey Explorer (WISE) mission data.

JPL Scientist / Research Scientist (May 2005 - Present)

NASA, Jet Propulsion Laboratory

Research in the Evolution of Primitive Surfaces on Small Bodies.

Solar System Science Liaison, Spitzer Space Telescope (February 2008 – February 2010)

Spitzer Science Center, IPAC, California Institute of Technology

Science User Support

Adjunct Faculty (August 2006 – June 2009)

Citrus College

Department of Astronomy, College of Science and Engineering,

NRC Research Postdoctoral Fellow (May 2003 – April 2005)

NASA, Jet Propulsion Laboratory

Research in the Surface Properties of Outer Solar System Objects, supervised by Bonnie J. Buratti.

Graduate Research Assistant (September 1996--April 2003)

Institute for Astronomy, University of Hawaii

Ph. D. research in the Physical Characteristics of Centaurs under advisor K. J. Meech.

Pre-dissertation research (May 1997 - Jan. 1999)

Institute for Astronomy, University of Hawaii

Research in damped Lyman alpha absorption spectra of PKS1756+237 under advisor K. C. Roth.

Research Brookhaven National Lab (Feb. 1995 - April 1996)

Chandra Observatory (AXAF)

Research in High Energy Transmission Grating (HETG) spectrometer calibration under the supervision of T. H. Markert and K. A. Flanagan.

Graduate Research Assistant (Aug. 1993 - June 1996)

State University of New York, Stony Brook.

Masters Research in Saturn ring plane crossing observations in the near infrared under advisor J. J. Lissauer.

Researcher (Aug. 1992 - Aug 1993)

Lowell Observatory, AZ.

Conducted CCD observations at optical telescopes under supervisors J. Elliot & A. Bosh. Full-time employee.

Resident Astronomer (Aug. 1991 - July 1992)

Wallace Observatory, Dept. EAPS, MIT.

Conducted astrometry and photometry observations. J. Elliot supervisor, full-time employee.

Undergraduate Research (Aug. 1989 - July 1991)

Center for Space Research, MIT.

Conducted testing of proposed X-ray satellite instruments for Chandra observatory; included later testing of Chandra's HETG spectrometer at Brookhaven National Laboratories during MS studies at SUNY, Stony Brook. C. Canizares and T. Markert supervisors, part-time employee.

Society Membership

- Full Member, American Astronomical Society & its Division of Planetary Science
- International Astronomical Union
- American Geophysical Union
- Astronomical Society of the Pacific
- American Association for the Advancement of Science (AAAS)
- American Association of Physics Teachers (AAPT)

Recent Teaching/Instruction Experience

- Postdoctoral Supervisor for Rachel Stevenson (Incoming 2012 NPP Fellow from UCLA)
- PhD Dissertation Committee, B. E. Schmidt, UCLA, IGPP (graduated 2010)
- Adjunct Faculty Instructor, Dept. of Astronomy, Citrus College
- SIRI and USPR internship advisor, JPL (7 internships over the past 6 years)
- Astronomy Club Volunteer at La Salle (HS), Pasadena, CA & Don Bosco Tech. (HS), Rosemead, CA
- TOPS teacher workshop student instructor, University of Hawaii
- Teaching Assistant, University of Hawaii
- Teaching Assistant, SUNY, Stony Brook

Refereed Publications

- A. Mainzer, **J. Bauer**, R. M. Cutri, T. Grav, J. Masiero, et al. 2014. Initial Performance of the NEOWISE Reactivation Mission. *ApJ. In Press.*
- Masiero, J. R., Mainzer, A. K., **Bauer, J. M.**, Grav, T., Nugent, C. R., Stevenson, R. 2013. Asteroid Family Identification Using the Hierarchical Clustering Method and WISE/NEOWISE Physical Properties. *ApJ* 770, 7.
- **Bauer, J.M.**, Grav, T., Blauvelt, E., Mainzer, A.K., Masiero, J., Stevenson, R., Kramer, E., et al. 2013. Centaurs and Scattered Disk Objects in the Thermal Infrared: Analysis of WISE/NEOWISE Observations. *ApJ.*, 773, 22.
- Mainzer, A., and 10 colleagues 2014. The Population of Tiny Near-Earth Objects Observed by NEOWISE. *ApJ* 784, 110.
- Waszczak, A., and **10 colleagues** 2013. Main-belt comets in the Palomar Transient Factory survey - I. The search for extendedness. *Monthly Notices of the Royal Astronomical Society* 433, 3115.
- Kelley, M. S., and **16 colleagues** 2013. The persistent activity of Jupiter-family comets at 3-7 AU. *Icarus* 225, 475.
- Fernández, Y. R., and **16 colleagues** 2013. Thermal properties, sizes, and size distribution of Jupiter-family cometary nuclei. *Icarus* 226, 1138.

- Uckert, K., Chanover, N. J., Olkin, C. B., Young, L. A., Hammel, H. B., Miller, C., **Bauer, J. M.** 2014. An investigation of the temperature variations in Neptune's upper stratosphere including a July 2008 stellar occultation event. *Icarus* 232, 22.
- Tricarico, P., Samarasinha, N. H., Sykes, M. V., Li, J.-Y., Farnham, T. L., Kelley, M. S. P., Farnocchia, D., Stevenson, R., **Bauer, J. M.**, Lock, R. E. 2014. Delivery of dust grains from comet C/2013 A1 (Siding Spring) to Mars. *ApJL, In Press*.
- Stevenson, R., **Bauer, J. M.**, Kramer, E. A., Grav, T., Mainzer, A. K., Masiero, J. R. 2014. Lingering grains of truth around comet 17P/Holmes. *ApJ. In Press*
- Meech, K. J., and **21 colleagues** 2013. The demise of Comet 85P/Boethin, the first EPOXI mission target. *Icarus* 222, 662.
- Bauer, J.M.**, Kramer, E., Mainzer, A.K., Stevenson, R., Grav, T., Masiero, J., et al. "WISE/NEOWISE Preliminary Analysis and Highlights of the 67p/Churyumov-Gerasimenko near Nucleus Environs". 2012, *ApJ*, 758, 18.
- Stevenson, R., Kramer, E., A., **Bauer, J. M.**, et al.. 2012. Characterization of Active Main Belt Object P/2012 F5 (Gibbs): A Possible Impacted Asteroid. *ApJ*. 759, 142.
- Mainzer, A., Grav, T., **Bauer, J.**, Masiero, J., et al. 2012. NEOWISE Observations of Near-Earth Objects: Preliminary Results. *ApJ*, 743, 156.
- Mainzer, A., **Bauer, J.** and 33 colleagues 2011. Preliminary Results from NEOWISE: An Enhancement to the Wide-field Infrared Survey Explorer for Solar System Science. *ApJ*. 731, 53.
- Grav, T., Mainzer, A. K., **Bauer, J.**, Masiero, J., Spahr, T. et al. 2012. WISE/NEOWISE Observations of the Hilda Population: Preliminary Results, *ApJ* 744, 197.
- Grav, T., Mainzer, A. K., **Bauer, J.**, Masiero, J., Spahr, T. et al. 2012. WISE/NEOWISE Observations of the Jovian Trojans: Preliminary Results, *ApJ* 742, 40.
- Masiero, J.R., Mainzer, A., Grav, T., **Bauer, J.**, Jedicke, R., "Revising the age for the Baptistina asteroid family using WISE/NEOWISE data". 2012, *ApJ*, 759,14.
- Mainzer, A., Grav, T., Masiero, J., **Bauer, J.**, Cutri, R. M., McMillan, R. S., Nugent, C. R., Tholen, D., Walker, R., Wright, E. L. 2012. Physical Parameters of Asteroids Estimated from the WISE 3-Band Data and NEOWISE Post-Cryogenic Survey *ApJ*. 760, 12.
- Masiero, Joseph R., Mainzer, A. K., Grav, T., **Bauer, J. M.**, Cutri, R. M., Nugent, C., Cabrera, M. S. 2012. Preliminary Analysis of WISE/NEOWISE 3-Band Cryogenic and Post-cryogenic Observations of Main Belt Asteroids. *ApJ*. 159, 8.
- Grav, T., Mainzer, A. K., **Bauer, J. M.**, Masiero, J. R., Nugent, C. R. 2012. WISE/NEOWISE Observations of the Jovian Trojan Population: Taxonomy. *ApJ*, 759, 10.
- Bauer, J.M.**, & 24 colleagues 2012. WISE/NEOWISE Observations of Active Bodies in the Main Belt. *ApJ*, 747, 49.
- Mainzer, A., Grav, T., Masiero, J., **Bauer, J.**, McMillan, R. S., Giorgini, J., Spahr, T., Cutri, R. M., Tholen, D. J., Jedicke, R., Walker, R., Wright, E., Nugent, C. R. 2012. Characterizing Subpopulations within the near-Earth Objects with NEOWISE: Preliminary Results *ApJ* 752, 110.
- Mainzer, A., Grav, T., Masiero, J., Hand, E., **Bauer, J.**, Tholen, D., McMillan, R. S., Spahr, T., Cutri, R. M., Wright, E., Watkins, J., Mo, W., Maleszewski, C. 2011. NEOWISE Studies of Spectrophotometrically Classified Asteroids: Preliminary Results. *ApJ* 741, 90.
- Meech, K.J., and 196 colleagues 2011. EPOXI: Comet 103P/Hartley 2 Observations from a Worldwide Campaign. *ApJ* 734, L1.

- Masiero, J. R., Mainzer, A. K., Grav, T., **Bauer, J. M.**, Cutri, R. M., Dailey, J., Eisenhardt, P. R. M., McMillan, R. S., Spahr, T. B., Skrutskie, M. F., Tholen, D., Walker, R. G., Wright, E. L., DeBaun, E., Elsbury, D., Gautier, T., Gomillion, S., and Wilkins, A. 2011. Main Belt Asteroids with WISE/NEOWISE. I. Preliminary Albedos and Diameters. *ApJ* 741, 68.
- **Bauer, J. M.**, Walker, R. G., Mainzer, A. K., Masiero, J. R., Grav, T., Dailey, J. W., McMillan, R. S., Lisse, C. M., Fernández, Y. R., Meech, K. J., Pittichova, J., Blauvelt, E. K., Masci, F. J., A'Hearn, M. F., Cutri, R. M., Scotti, J. V., Tholen, D. J., DeBaun, E., Wilkins, A., Hand, E., Wright, E. L., and the WISE Team. 2011. WISE/NEOWISE Observations of Comet 103P/Hartley 2. *ApJ* 738, 171.
- Kirkpatrick, J. D., Cushing, M. C., Gelino, C. R., Griffith, R. L., Skrutskie, M. F., Marsh, K. A., Wright, E. L., Mainzer, A. K., Eisenhardt, P. R. McLean, I. S., Thompson, M. A., **Bauer, J. M.**, Benford, D. J., Bridge, C. R., Lake, S. E., Petty, S. M., Stanford, S. A., Tsai, C-W., Bailey, V., Beichman, C. A., Bochanski, J. J., Burgasser, A. J., Capak, P. L., Cruz, K. L., Hinz, P. M., Kartaltepe, J. S., Knox, R. P., Manohar, S., Masters, D., Morales-Calderon, M., Prato, L. A., Rodigas, T. J., Salvato, M., Schurr, S. D., Scoville, N. Z., Simcoe, R. A., Stapelfeldt, K. R., Stern, D., Stock, N. D., and Vacca, W. D. 2011. The First Hundred Brown Dwarfs Discovered by the Wide-field Infrared Survey Explorer (WISE). *ApJ Supl.* 197, 19.
- Mainzer, A., Grav, T., Masiero, J., **Bauer, J.**, Wright, E., Cutri, R. M., Walker, R., and McMillan, R. S. 2011. Thermal Model Calibration for Minor Planets Observed with WISE/NEOWISE: Comparison with Infrared Astronomical Satellite. *ApJ* 737, L9.
- **Bauer, J.M.**, Buratti, B.J., Li, J.-Y., Mosher, J.A., Hicks, M.D., Schmidt, B.E., Goguen, J.D. 2010. Direct Detection of Seasonal Changes on Triton with Hubble Space Telescope. *The Astrophysical Journal* 723, L49-L52.
- Buratti, B. J., **Bauer, J. M.**, Hicks, M. D., Hillier, J. K., Verbiscer, A., Hammel, H., Schmidt, B., Cobb, B., Herbert, B., Garsky, M., Ward, J., Foust, J. 2011. Photometry of Triton 1992–2004: Surface volatile transport and discovery of a remarkable opposition surge. *Icarus* 212, 835-846.
- Belton, M. J. S. **et al.** 2011. Stardust-NExT, Deep Impact, and the accelerating spin of 9P/Tempel 1, *Icarus* 213, 345-368.
- Meech, K. J. **et al.** 2011. Deep Impact, Stardust-NExT and the behavior of Comet 9P/Tempel 1 from 1997 to 2010. *Icarus* 213, 323-344.
- Burgasser, A. J. **et al.** 2011. IRE Spectroscopy of Five Late-type T Dwarfs Discovered with the Wide-field Infrared Survey Explorer. *ApJ*. In Press.
- Mainzer, A., **Bauer, J.**, Grav, T., Masiero, J., Cutri, R. M., Dailey, J., Eisenhardt, P., McMillan, R. S., Wright, E., Walker, R., Jedicke, R., Spahr, T., Tholen, D., Alles, R., Beck, R., Brandenburg, H., Conrow, T., Evans, T., Fowler, J., Jarrett, T., Marsh, K., Masci, F., McCallon, H., Wheelock, S., Wittman, M., Wyatt, P., DeBaun, E., Elliott, G., Elsbury, D., Gautier, T., Gomillion, S., Leisawitz, D., Maleszewski, C., Micheli, M., Wilkins, A. 2011. Preliminary Results from NEOWISE: An Enhancement to the Wide-field Infrared Survey Explorer for Solar System Science. *ApJ*. 731, 53.
- Hillier, John K., **Bauer, James M.**, Buratti, Bonnie J. 2011. Photometric modeling of Asteroid 5535 Annefrank from Stardust observations. *Icarus*, 211, 546-552.
- Schmidt, B.E., Thomas, P. C., **Bauer, J. M.**, Li, J.-Y., McFadden, L. A., Mutchler, M. J., Radcliffe, S. C., Rivkin, A. S., Russell, C. T., Parker, J. Wm., and Stern, S. A. 2009. The Shape and Surface Variation of 2 Pallas from the Hubble Space Telescope. *Science* 326, 275.

- Buratti, B.J., **Bauer, J.M.**, Hicks, M.D., Mosher, J.A., Filacchione, G., Momary, T., Baines, K.H., Brown, R.H., Clark, R.N., Nicholson, P.D. 2010. Cassini spectra and photometry 0.25-5.1 μm of the small inner satellites of Saturn. *Icarus* 206, 524-536.
- Delsanti, A., Merlin, F., Guilbert-Lepoutre, A., **Bauer, J.**, Yang, B., Meech, K.J. 2010. Methane, ammonia, and their irradiation products at the surface of an intermediate-size KBO?. A portrait of Plutino (90482) Orcus. *Astronomy and Astrophysics* 520, A40.
- Licandro, J., and 17 colleagues 2009. Spitzer observations of the asteroid-comet transition object and potential spacecraft target 107P (4015) Wilson-Harrington. *Astronomy and Astrophysics* 507, 1667-1670.
- Lisse, C.M., Fernandez, Y.R., Reach, W.T., **Bauer, J.M.**, A'Hearn, M.F., Farnham, T.L., Groussin, O., Belton, M.J., Meech, K.J., Snodgrass, C.D. 2009. Spitzer Space Telescope Observations of the Nucleus of Comet 103P/Hartley 2. *Publications of the Astronomical Society of the Pacific* 121, 968-975.
- Newman, S.F., Buratti, B.J., Brown, R.H., Jaumann, R., **Bauer, J.**, Momary, T. 2009. Water ice crystallinity and grain sizes on Dione. *Icarus* 203, 553-559.
- **Bauer, J.M.**, Choi, Y-J., Weissman, P.R., Stansberry, J. A., Fernández, Y. R., Roe, H. G., & Buratti, B.J. 2008. The Large-Grained Dust Coma of 174P/Echeclus. *PASP*, 120 393.
- Tegler, S.C., **Bauer, J.M.**, Romanishin, W., and Peixinho, N. 2008. "Colors of Centarus" in *The Solar System Beyond Neptune*, Ed. by A. Barucci, H. Boehnhardt, D. Cruikshank., and A. Morbidelli, University of Arizona press, Tuscon, Arizona. 104.
- Pitman, K. M., Buratti, B. J., Mosher, J. A., **Bauer J. M.**, Momary, T. W., Brown, R. H., Nicholson, P. D., and Hedman, M. N. 2008. First High Solar Phase Angle Observations of Rhea Using Cassini VIMS: Upper Limits on Water Vapor and Geologic Activity. *ApJ*, 680, L65.
- Burrati, B. J., Soderlund, K., **Bauer, J.**, Mosher, J. A., Hicks, M. D., Simonelli, D. P., Jaumann, R., Clark, R. N., Brown, R. H., Cruikshank, D. P., & Momary, T. 2008. Infrared (0.83-5.1 μm) photometry of Phoebe from the Cassini Visual Infrared Mapping Spectrometer. *Icarus* 193, 309.
- Sarah F. Newman, B. J. Buratti, R. H. Brown, R. Jaumann, **J. Bauer**, T. Momary. 2008. Photometric and Spectral Analysis of the Distribution of Crystalline and Amorphous Ices on Enceladus as Seen by Cassini. *Icarus*, 193, 397.
- **Bauer, J.M.**, Weissman, P.R., Chi, Y-J., Troy, M., Lisse, C.M., Dekany, R., Hanner, M.S., and Buratti, B.J. 2007. Palomar AO Observations During the Deep Impact Encounter: First Results. *Icarus*, 187, 296.
- Newman, S. F., Buratti, B. J., Jaumann, R., **Bauer, J.**, & Momary, T.. 2007. Hydrogen Peroxide on Enceladus. *ApJ*, 670, 143.
- Hicks, M. D. and **Bauer, J. M.** 2007. P/2006 HR30 (Siding Springs): A low-activity comet in near-Earth space, *ApJL* 662, L47.
- Grav, T., and **Bauer, J.** 2007. A deeper look at the colors of the Saturnian irregular satellites. *Icarus* 191, 267.
- Cruikshank, D. P., et al. 2007. The Surface Composition of Hyperion. *Nature* 488, 54.
- **Bauer, J. M.**, Grav, T., Buratti, B. J., and Hicks M. D. 2006. The Phase Curve Survey of the Irregular Saturnian Satellites: A Novel Method of Physical Classification. *Icarus*, 184, 181.
- Brown, Robert H., Clark, Roger N., Buratti, Bonnie J., Cruikshank, Dale P., Barnes, Jason W., Mastrapa, Rachel M. E., **Bauer, J.**, Newman, S., Momary, T., Baines, K. H., Bellucci, G., Capaccioni, F., Cerroni, P., Combes, M., Coradini, A., Drossart, P., Formisano, V., Jaumann, R.,

- Langevin, Y., Matson, D. L., McCord, T. B., Nelson, R. M., Nicholson, P. D., Sicardy, B., Sotin, C. 2006. Composition and Physical Properties of Enceladus' Surface. *Science*, 311, 1425.
- Meech, K.J. et al. (**Bauer** 11th co-author of 208) 2005. Deep Impact: Observations from a Worldwide Earth-Based Campaign. *Science*, 310, 265.
 - Buratti, B. J., Cruikshank, D. P., Brown, R. H., Clark, R. N., **Bauer, J. M.**, Jaumann, R., McCord, T. B., Simonelli, D. P., Hibbitts, C. A., Hansen, G. B., Owen, T. C., Baines, K. H., Bellucci, G., Bibring, J. P., Capaccioni, F., Cerroni, P., Coradini, A., Drossart, P., Formisano, V., Langevin, Y., Matson, D. L., Mennella, V., Nelson, R. M., Nicholson, P.D., Sicardy, B., Sotin, C., Roush, T. L., Soderlund, K., Muradyan, A. Cassini Visual and Infrared Mapping Spectrometer Observations of Iapetus: Detection of CO₂. 2005. *ApJL*, 622, L149.
 - **Bauer, J. M.**, Buratti, B. J., Simonelli, D. P., and Owen, W. M., Jr. 2004. Recovering the Rotational Lightcurve of Phoebe. *ApJL*, 610, L57.
 - **Bauer, J. M.**, Meech, K. J., Fernández, Y. R., Pittichova, J., Hainaut, O. R., Boehnhardt, H., Delsanti, A. C. 2003. Physical Survey of 24 Centaurs with Visible Photometry, *Icarus*, 166, 195.
 - **Bauer, J. M.**, Fernandez, Y. R., Meech, K. J. 2003. An Optical Survey of the Active Centaur C/NEAT (2001 T4), *PASP*, 115, 981.
 - **Bauer, J. M.**, Meech, K. J., Fernandez, Y. R., Farnham, T. L., and Roush, T. L., 2002. Observations of the Centaur 1999 UG5: Evidence of a Unique Outer Solar System Surface, *PASP*, 114, 1309.
 - **Bauer, J. M.**, Roush, T. R., Geballe, T. R., Meech, K. J., Owen, T. C., Vacca, W. D., Rayner, J. T., and Jim, K. T. C. 2002. The Near Infrared Spectrum of Miranda, *Icarus* , 158, 178.
 - D. Bocklee-Morvan, E. Lellouch, N. Biver, G. Paubert, **J. Bauer**, P. Colom, D. C. Lis 2001. "Search for CO gas in Pluto, Centaurs and Kuiper Belt objects at Radio Wavelengths" *Astron. Astrophys.* , 377 , 343.
 - H. A. Weaver *et al.* (**J. Bauer** 7th author of 21) 2001. "HST and VLT Investigations of the Fragments of Comet C/1999 S4 Linear" *Science* , 292 , 1329.
 - Hainaut O. R., C. E. Delahodde, H. Boehnhardt, E. Dotto, M. A. Barucci, K. J. Meech, **J.M. Bauer**, R. M. West, A. Doressoundiram 2000. "Physical properties of TNO 1996 TO66. Lightcurves and possible cometary activity" *Astron. Astrophys.* , 356 , 1076.
 - Roth, K. C. and **J. M. Bauer** 1999. "The z=1.6748 C I absorber near PKS1756+237", *ApJL* , 515 , 57.
 - Meech, K. J., **J. M. Bauer**, and O. R. Hainaut 1997. Rotation of Comet 46P/ Wirtanen A & A 326 , p.1268.
 - **Bauer, J. M.**, J. Lissauer, and M. Simon 1997. Edge-on observations of Saturn's E and G rings in the Near-IR, *Icarus* , **125**, 440.
 - Markert, T. H., C. R. Canizares, C. S. Nelson, **J. M. Bauer**, B. Puc, and B. E. Woodgate, B. E. 1995. Evaluation of Curved Crystals for Cosmic X-ray Spectroscopy, *Optical Engineering* , 34 , p.1512

Select Invited Talks

- Primitives Amongst Giants: Anatomy of the Outer Solar System. 2013. Southern California AAPT Spring Meeting.
- The WISE/NEOWISE Cometary Bodies. 2013. University of Idaho Colloquium Series.
- The WISE Comet Survey. 2011. CTIO Colloquium Series.

- WISE Observations of Small Solar System Bodies in the Infrared. 2009. IGPP, UCLA Colloquium Series.
- HST Observations of Triton. 2008. Dept. of Physics and Astronomy, UC Riverside Colloquium Series.

Academic Publications

- **PhD Dissertation, University of Hawaii (2003)** A Physical Survey of Centaurs.
- **MS Thesis, SUNY, Stony Brook (1997)** IRTF Observations of Saturn's Faint Outer Rings and Small Moons in the Near Infrared.

Select Conference Proceedings & Abstracts

- **Bauer, J. M.** et al. 2013. Centaurs and Scattered Disk Objects in the Thermal Infrared: Analysis of WISE/NEOWISE Observations. AAS/Division for Planetary Sciences Meeting Abstracts 45, #508.06.
- Kramer, Emily A., Fernandez, Y. R., **Bauer, J. M.**, Stevenson, R. A., Mainzer, A. K., Grav, T., Masiero, J., Walker, R. G., Lisse, C. M., and The WISE Team. 2013. WISE/NEOWISE Observations of WISE/NEOWISE-discovered Cometary Dust Tails. AAS/Division for Planetary Sciences Meeting Abstracts 45, #413.12
- Stevenson, Rachel, **Bauer, J. M.**, Kramer, E. A., Mainzer, A. K., Masiero, J. R., Grav, T., Fernandez, Y. R., WISE Team. 2013. A cometary update from the WISE mission. AAS/Division for Planetary Sciences Meeting Abstracts 45, #413.11.
- **Bauer, J. M.**, Stevenson, R., Kramer, E., Mainzer, A., Lisse, C.M., Fernandez, Y. R., Meech, K. J., Masiero, J., Grav, T., Walker, R., Cutri, R., Dailey, J., McMillan, R. S., Tholen, D., Wright, E. L., and the WISE Team. WISE/NEOWISE Comets: Nucleii and CO/CO₂ Emission. AAS DPS, 2012.
- Kramer, E. A., Fernandez, Y.R., **Bauer, J. M.**, Mainzer, A. K., Grav, T., Masiero, J., Walker, R.G., Stevenson, R., Lisse, C. M., WISE Team 2012. Characterization of Cometary Dust Tails in the WISE/NEOWISE Data Set. AAS/Division for Planetary Sciences Meeting Abstracts 44, #514.07.
- Stevenson, R., **Bauer, J.M.**, and 12 colleagues 2012. Multi-Wavelength Analysis of Cometary Dust Comae Using WISE/NEOWISE Results. AAS/Division for Planetary Sciences Meeting Abstracts 44, #514.06.
- **Bauer, J. M.**, Walker, R., Mainzer, A., Blauvelt, E., Masiero, J., Grav, T., Cutri, R., Dailey, J., Lisse, C.M., Fernandez, Y. R., Meech, K. J., McMillan, R. S., Tholen, D., Wright, E. L., and the WISE Team. WISE/NEOWISE Views of Centaurs & Scattered Disk Objects. AAS DPS, 2011.
- **Bauer, J.**, et al. 2011. WISE Observations of Comets, Centaurs, and Scattered Disk Objects. 42nd Lunar and Planetary Science Conference.
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