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**Education:**

Ph.D. in Astronomy, University of Washington, 1991  
 M.S. in Physics, Massachusetts Institute of Technology, 1983  
 B.S., *cum laude*, in Astronomy, University of Maryland, 1980

**Distinctions, Honors, Awards:**

Fellow, American Physical Society  
 Gruber Prize for Cosmology 2007 (shared)  
 John Portz Award, University of Maryland, General Honors Program  
 James Goddard Medal, University of Maryland  
 Pi Sigma Pi, Physics Honors Society

**Professional Memberships:**

American Astrophysical Society (AAS)  
 American Physical Society (APS)  
 American Association of Variable Star Observers (AAVSO)

**Research Experience:**

University of Notre Dame, Assistant Professor 2000 – 2003,  
 Associate Professor 2003 – 2008,  
 Professor, 2008 –  
 Supernovae, Cosmology, Gamma-Ray Bursts

Harvard University, Fellow, 1994 – 1999  
 Supernovae, Cosmology, Stellar Jets, Interacting Binary Systems

Dominion Astrophysical Observatory, Research Associate, 1992-1994  
 Supernovae, Spectropolarimetry, Stellar Jets, Gravitational Lenses  
 Interacting Binary Systems, Star Clusters, IR Imaging

University of Washington, Research Assistant, 1985-1991  
 Wide Binary Stars (Dissertation Topic), Galactic Structure  
 Symbiotic Stars, Cataclysmic Variables, HH-Objects

Space Telescope Science Institute, Research Assistant, 1983-1985  
 Galactic Structure, Astronomical Surveys

Massachusetts Institute of Technology, Research Assistant, 1980-1983  
 Optical Interferometry, Io-Jupiter Magnetosphere Interaction  
 Voyager Radio Astronomy Experiment

**Other Experience:**

Notre Dame REU Student Supervisor, 2000-2006  
Undergraduate Research Supervisor, Maria Mitchell Obs. 1995—1996  
Supervisor, CfA Undergraduate Research Program, 1997—1999  
Society of Physics Students, Notre Dame Chapter, Faculty Supervisor  
AAVSO Council Member, 1996—2000  
NSF, STScI Review Panels, 1996, 1998, 2000, 2004, 2007  
Large Binocular Telescope Science Advisory Committee, 2002 –  
Large Synoptic Survey Telescope Science Advisory Committee, 2002 – 2004  
Space Telescope Users Committee, 2006 –

**Dissertations Directed:**

“Photometry of Stellar Clusters and Light Echos”, Jason Quinn, Ph.D., 2005

## Publications

Peter M. Garnavich

## Refereed Articles

- “LBT Discovery of a Yellow Supergiant Eclipsing Binary in the Dwarf Galaxy Holmberg IX”, Prieto, J. L., Stanek, K. Z., Kochanek, C. S., Weisz, D. R., Baruffolo, A., Bechtold, J., Burwitz, V., DeSantis, C., Gallozzi, S., Garnavich, P. M., Giallongo, E., Hill, J. M., Pogge, R. W., et al., *ApJ*, submitted, arXiv/0709.2376
- “The Luminous and Carbon-Rich Supernova 2006gz: A Double Degenerate Merger?”, Hicken, M., Garnavich, P. M., Prieto, J. L., Blondin, S., DePoy, D. L., Kirshner, R. P., *ApJ*, in press, arXiv/0709.1501
- “The Sloan Digital Sky Survey-II Supernova Survey: Technical Summary”, Frieman, J. A., Bassett, B., Becker, A., Cinabro, D., DeJongh, F., Depoy, D., Dilday, B., Doi, M., Garnavich, P. M., Hogan, C. J., Holtzman, J., Jha, S., et al., *ApJ*, submitted, arXiv/0708.2749
- “The Sloan Digital Sky Survey-II Supernova Survey: Search Algorithm and Follow-up Observations”, Sako, Masao, Bassett, B., Becker, A., Cinabro, D., DeJongh, F., Depoy, D., Dilday, B., Doi, M., Frieman, J. A., Garnavich, P. M., Hogan, C. J., Holtzman, J., Jha, S., et al., *ApJ*, submitted, arXiv/0708.2750
- “A Study of the Type Ia/IIa Supernova 2005gj from X-ray to the Infrared”, Prieto, J. L., Garnavich, P. M., Phillips, M. M., DePoy, D. L., Parrent, J., et al., *ApJ*, submitted, arXiv/0706.4088
- “Scrutinizing Exotic Cosmological Models Using ESSENCE Supernova Data Combined with Other Cosmological Probes”, Davis, T., Mortsell, E., Sollerman, J., Becker, A.C., Blondin, S., Challis, P., Clocchiatti, A., Filippenko, A., Foley, R., Garnavich, P.M., et al., *Astrophysical Journal*, 666, 716, 2007
- “Strongly Variable  $z=1.48$  Fe II and Mg II Absorption in the Spectra of  $z=4.05$  GRB 060206,” H. Hao, K.Z. Stanek, A. Dobrzycki, T. Matheson, M.C. Bentz, J. Kuraszkiewicz, P.M. Garnavich, J.D. Howk, M.L. Calkins, G. Worthey, M. Modiaz, J. Serven, *Astrophysical Journal* **659**, L99-102 (2007).
- “Measured Metallicities at the Sites of Nearby Broad-Lined Type Ic Supernovae: Implications for SN-GRB Connection”, Modjaz, M., Kirshner, R.P., Stanek, K.Z., Challis, P., Garnavich, P.M., Greene, J.E., and Prieto, J.L., *Astrophysical Journal*, submitted, astro-ph/0701246, 2007
- “The ESSENCE Supernova Survey: Survey Optimization, Observations and Supernova Photometry”, Miknaitis, G., Pignata, G., Rest, A., Wood-Vasey, W.M., Blondin, S., Challis, P., Smith, R.C., Stubbs, C., Suntzeff, N., Foley, R., et al., *Astrophysical Journal*, submitted, astro-ph/0701043, 2007
- “The Type Ia Supernova Observational Constraints on the Nature of the Dark Energy: First Cosmological Results from the ESSENCE Supernova Survey”, Wood-Vasey, W.M., Miknaitis, G., Stubbs, C., Jha, S., Riess, A.G., Garnavich, P.M., Kirshner, R.P., et al., *Astrophysical Journal*, submitted, astro-ph/0701041, 2007
- “Anomalous Optical Gamma-ray Burst Afterglows are Common: Two  $z\sim 4$  Bursts, GRB 060206 and GRB 060210”, Stanek, K. Z., Dai, X., Prieto, J. L., An, D., Garnavich, P.M., et al., *Astrophysical Journal*, v654, p21, 2007
- “The Type Ia Supernova 2004S, a Clone of SN 2001el and the Optimal Photometric Bands for Extinction Estimation”, Krisciunas, K, Garnavich, P.M., Stanishev, V., Suntzeff, N. B., Prieto, J. L., et al., *The Astronomical Journal*, v133, p58, 2007
- “A Light Echo from Type Ia SN 1995E?”, Quinn, J. L., Garnavich, P.M., Li, W., Panagia, N., Riess, A., Schmidt, B., P., Della Valle, M., *Astrophysical Journal*, v652, p512, 2006
- “Infrared and Optical Observations of GRB 030115 and its Extremely Red Host Galaxy: Implications for Dark Bursts”, Levan, A., et al., *Astrophysical Journal*, v647, p471, 2006

- "Hubble Early-Time Photometry and Spectroscopy of the Fast Evolving SN 2006aj Associated with GRB 060218", Modjaz, M., Stanek, K. Z., Garnavich, P.M., Berlind, P., Blondin, S., et al., *Astrophysical Journal*, v645, p21, 2006
- "Evolution of the Reverse Shock Emission from SNR 1987A", Heng, K., McCray, R., Zhekov, S.A., Challis, P.M., Chevalier, R.A., Crotts, A., Fransson, C., Garnavich, P.M., Kirshner, R., et al., *Astrophysical Journal*, v644, p959, 2006
- "Long Gamma-Ray Bursts and Core-Collapse Supernovae have Different Environments", Fruchter, A., Levan, A., Strolger, L., et al., *Nature*, v441, p463, 2006
- "Hubble Space Telescope and Ground-Based Observations of Type Ia Supernovae at Redshift 0.5: Cosmological Implications", Clocchiatti, A., Schmidt, B.P., Filippenko, A.V., Challis, P., Coil, A., Covarrubias, R., Diercks, A., Garnavich, P.M., et al., *Astrophysical Journal*, v642, p1, 2006
- "Using Line Profiles to Test the Fraternity of Type Ia Supernovae at High and Low Redshift", Blondin, S., Dessart, L., Leibundgut, B., Branch, D., Hoefflich, P., Tonry, J.L., et al., *The Astronomical Journal*, v131, p1648, 2006
- "Photometry of the Type Ia Supernovae 1999cc, 1999cl and 2000cf", Krisciunas, K., Prieto, J.L., Garnavich, P.M., Riley, J.-L., et al., *The Astronomical Journal*, v131, p1639, 2006
- "UBVRI Light Curves of 44 Type Ia Supernovae", Jha, S., Kirshner, R.P., Challis, P., Garnavich, P.M., Matheson, T., Soderberg, A.M., et al., *The Astronomical Journal*, v131, p527, 2006
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- "Spectroscopy of High-Redshift Supernovae from the ESSENCE Project: The First 2 Years," T. Matheson, S. Blondin, R.J. Foley, R. Chornock, A.V. Filippenko, B. Leibundgut, R.C. Smith, J. Sollerman, J. Spyromilio, R.P. Kirshner, A. Clocchiatti, C. Aguilera, B. Barris, A. Becker, P. Challis, R. Covarrubias, P. Garnavich, M. Hicken, S. Jha, K. Krisciunas, W. Li, A. Miceli, G. Miknaitis, J.L. Prieto, A. Rest, A.G. Riess, M.E. Salvo, B.P. Schmidt, C.W. Stubbs, N.B. Suntzeff, J.L. Tonry, *Astronomical Journal*, v129, p2352, 2005
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- "Deep Photometry of GRB 041006 Afterglow: Hypernova Bump at Redshift  $z = 0.716$ ," K.Z. Stanek, P.M. Garnavich, P.A. Nutzman, J.D. Hartman, A. Garg, K. Adelberger, P. Berlind, A.Z. Bonanos, M. Calkins, P. Challis, et al., *Astrophysical Journal*, v626, pL5, 2005
- "Cepheid Calibrations from the Hubble Space Telescope of the Luminosity of Two Recent Type Ia Supernovae and a Redetermination of the Hubble Constant," A.G. Riess, W. Li, P.B. Stetson, A.V. Filippenko, S. Jha, R.P. Kirshner, P. Challis, P.M. Garnavich, R. Chornock, *Astrophysical Journal*, v627, p579, 2005
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- "On the Afterglow and Host Galaxy of GRB 021004: A Comprehensive Study with the Hubble Space Telescope," J. Fynbo, J. Gorosabel, A. Smette, A. Fruchter, J. Hjorth, K. Pedersen, A. Levan, I. Burud, K. Sahu, P.M. Vreeswijk, E. Bergeron, C. Kouveliotou, N. Tanvir, S. Thorsett, R. Wijers, C. Castro, A. Castro-Tirado, P. Garnavich, S. Holland, P. Jakobsson, P. Møller, P. Nugent, E. Pian, J. Rhoads, B. Thomsen, D. Watson, S. Woosley, *Astrophysical Journal*, v633, p317, 2005
- "Chemistry and Star Formation in the Host Galaxies of Type Ia Supernovae," J.S. Gallagher, P.M. Garnavich, P. Berlind, P. Challis, S. Jha, R.P. Kirshner, *Astrophysical Journal*, v634, p210, 2005
- "Hubble Space Telescope Observations of Nine High-Redshift ESSENCE Supernovae," K. Krisciunas, P.M. Garnavich, P. Challis, J.L. Prieto, A.G. Riess, B. Barris, et al., *Astronomical Journal*, v130, p2453, 2005
- "UBVRI Light Curves of 44 Type Ia Supernovae," S. Jha, R.P. Kirshner, P. Challis, P.M. Garnavich, T. Matheson, A.M. Soderberg, et al., *Astronomical Journal*, v131, p527, 2005
- "Dark Matter and Dark Radiation in a Brane World Cosmology and its Observational Test in BBN, CMB and supernovae", Kajino, T., Ichiki, F. K., Garnavich, P. M., Mathews, G. J., Yahiro, M., *Nuclear Physics B*, 138, 82, 2005
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- "KH 15D: Gradual Occultation of a Pre-Main-Sequence Binary", Winn, J. N., Holman, M. J., Johnson, J. A., Stanek, K. Z., Garnavich, P. M., *ApJ*, 603, 45, 2004
- "Twenty-Three High-Redshift Supernovae from the Institute for Astronomy Deep Survey: Doubling the Supernova Sample at  $z > 0.7$ ", Barris, B. J., Tonry, J. L., Blondin, S., Challis, P., Chornock, R., Clocchiatti, A., Filippenko, A. V., Garnavich, P., Holland, S. T., Jha, S., *ApJ*, 602, 571, 2004
- "The Type Ic Hypernova SN 2003dh/GRB 030329", Mazzali, P. A., Deng, J., Tominaga, N., Maeda, K., Nomoto, K., Matheson, T., Kawabata, K. S., Stanek, K. Z., Garnavich, P. M., *ApJ*, 599, 95, 2003
- "Photometry and Spectroscopy of GRB 030329 and Its Associated Supernova 2003dh: The First Two Months", Matheson, T.; Garnavich, P. M.; Stanek, K. Z.; Bersier, D.; Holland, S. T.; Krisciunas, K., et al., *ApJ*, 599, 394, 2003

- "Imaging and Demography of the Host Galaxies of High-Redshift Type Ia Supernovae", Williams, B. F., Hogan, C. J., Barris, B., Candia, P., Challis, P., Clocchiatti, A., Coil, A. L., Filippenko, A. V., Garnavich, P. M., Kirshner, R. P., *AJ*, 126, 2608, 2003
- "Disappearing Dark Matter in brane World Cosmology: New Limits on Non-compact Extra Dimensions", Ichiki, K., Garnavich, P.M., Kajino, T., Mathews, G. J., Yahiro, M., *Phys. Rev. D*, 68, 3518, 2003
- "Optical Spectra of the Type Ia Supernova 1998aq," D. Branch, P.M. Garnavich, T. Matheson, et al., *AJ*, 126, 1489, 2003
- "Cosmological Results from High-z Supernovae," J. Tonry, B.P. Schmidt, B. Barris, P. Candia, P. Challis, A. Clocchiatti, A.L. Coil, A.V. Filippenko, P.M. Garnavich, C. Hogan, et al., *ApJ*, 594, 1, 2003
- "Hubble Space Telescope Observations of High-Velocity Ly $\alpha$  and H $\alpha$  Emission from Supernova Remnant 1987A: The Structure and Development of the Reverse Shock," M. Eli, R. McCray, et al., *ApJ*, 593, 809, 2003
- "Limits on Eclipses of the Pre-Main-Sequence Star KH 15D in the First Half of the 20<sup>th</sup> Century," J.N. Winn, P.M. Garnavich, K.Z. Stanek, and D.D. Sasselov, *ApJ*, 593, 121, 2003
- "Spectroscopic Discovery of the Supernova 2003dh Associated with GRB 030329," K.Z. Stanek, T. Matheson, P.M. Garnavich, P. Martini, P. Berlind, et al., *ApJL*, 591, 17, 2003
- "The Strongly Polarized Afterglow of GRB 020405," D. Bersier, B. McLeod, P.M. Garnavich, M.J. Holman, T. Grav, J. Quinn, et al., *ApJL*, 583, 63, 2003
- "The Unusual Optical Afterglow of the Gamma-Ray Burst GRB 021004: Color Changes and Short-Timescale Variability," D. Bersier, K.Z. Stanek, J.N. Winn, T. Grav, M.J. Holman, T. Matheson, B. Mochejska, D. Seeghs, A.R. Walker, P.M. Garnavich, et al., *ApJL*, 584, 43, 2003
- "Discovery of the Low-Redshift Optical Afterglow of GRB 011121 and Its Progenitor Supernova SN 2001ke," P.M. Garnavich, K.Z. Stanek, I. Wyrzkowski, L. Infante, et al., *ApJ*, 582, 924, 2003
- "The Spectroscopic Variability of GRB 021004," T. Matheson, P. Garnavich et al., *ApJ*, 582, 5, 2003
- "Confirmation of SBS 1150+599A As An Extremely Metal-Poor Planetary Nebula," G. Jacoby, J. Feldmeier, C.F. Claver, P.M. Garnavich, A. Noriega-Crespo, H.E. Bond, J. Quinn, *AJ*, 124, 3340, 2003.
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- “Kinematics of the HH 111 Jet from the Space Telescope Imaging Spectrograph,” A.C. Raga, A. Noriega-Crespo B. Reipurth, P.M. Garnavich, S. Heathcote, K.H. Böhm, S. Curiel, *ApJ Letters*, 565, 29, 2002
- “The Optical Proper Motions of HH 7-11 and Cepheus E,” A. Noriega-Crespo, P. Garnavich, *AJ*, 122, 3317, 2001
- “Rapid UBVRI Follow-up of the Highly Collimated Optical Afterglow of GRB 010222,” K. Stanek, P. Garnavich, S. Jha, R. Kilgard, J. McDowell, D. Bersier, P. Challis, E. Falco, J. Quinn, *ApJ*, 563, 592, 2001
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- “Complete and Simultaneous Spectral Observations of the Black Hole X-Ray Nova XTE J1118+480,” J.E. McClintock, C.A. Haswell, M.R. Garcia, J.J. Drake, R.I. Hynes, H.L. Marshall, M.P. Muno, S. Chaty, P.M. Garnavich, P.J. Groot, W.H.G. Lewin, C.W. Mauche, J.M. Miller, G.G. Pooley, C.R. Shrader, S.D. Vrtilek, *ApJ*, 555, 477, 2001
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- “The Optical Spectroscopic Evolution of V1974 Cygni (Nova Cygni 1992),” A. Moro-Martín, P. Garnavich, A. Noriega-Crespo, *AJ*, 121, 1636, 2001
- “Analysis of Type II In SN 1998S: Effects of Circumstellar Interaction on Observed Spectra,” E.J. Lentz, E. Baron, P. Lundqvist, D. Branch, P.H. Hauschildt, C. Fransson, P. Garnavich, *et al.*, *ApJ*, 547, 406, 2001
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- “Optical Spectra of Type IA Supernovae at  $Z=0.46$  and  $Z=1.2$ ,” A.L. Coil, *et al.*, *ApJL*, 544, 111, 2000
- “Resolving Gamma-Ray Burst 000301C with a Gravitational Microlens,” P. Garnavich, A. Loeb, & K. Stanek, *ApJL*, 544, 11, 2000
- “RJK Band Observations of the Optical Afterglow of GRB 991216,” P. Garnavich, S. Jha, M. Pahre, *et al.*, *ApJ*, 543, 61, 2000
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### Invited Talks and Conference Proceedings

- “Dark Energy”, International Workshop on the Interconnection Between Particle Physics and Cosmology, Texas A&M, May 2007
- “Measuring Dark Energy with Supernovae”, Physics Colloquium, University of Oklahoma, April 2007
- “Supernovae and Accreting White Dwarf Stars,” Kavli Institute for Theoretical Physics, Workshop on the Progenitors of Type Ia Supernovae, University of California, Santa Barbara, March 2007
- “Dark Energy with ESSENCE,” Astronomy Colloquium at the University of Illinois, Urbana, October 2006
- “Measuring Dark Energy with Supernovae”, Invited talk at ‘Nuclei in the Cosmos X’, Geneva, Switzerland, June 2006
- “Measuring Dark Energy with Supernovae”, Physics Colloquium, University of Chicago, February 2006
- “Dark Energy with ESSENCE”, Invited talk for the Symposium on Particle Astrophysics and Cosmology, Beijing, China, August 22-26 2005
- “Measuring Dark Energy with Supernovae,” Seminar at Fermi National Laboratory, Batavia, IL, October 31, 2005
- “Hunting Dark Energy”, National Radio Astronomy Observatori and University of Virginia Joint Astronomy Colloquium, March 2005
- “Dark Energy with ESSENCE,” Astronomy Colloquium, Ohio State University, March, 2005
- “The Discovery of the Accelerating Universe,” presentation at Hampshire College, Amherst, MA, December 13, 2005
- “Age and Metallicity Effects on the Brightness of Type Ia Supernovae,” invited talk at the JINA Workshop on Classical Novae and Type Ia Supernovae, Santa Barbara, California, May 20-21, 2005
- “Measuring Dark Energy with Supernovae,” invited colloquium at the University of Virginia Astronomy Department, Charlottesville, VA, March 2005
- “Evidence for Disappearing Dark Matter in Brane-World Cosmology,” G.J. Mathews, P.M. Garnavich, K. Ichiki, T. Kajino, and M. Yahiro in “SUGRA20: Proc. Int. Conf. 20 Years of SUGRA Search for SUSY and Unification,” P. Nath, Ed. (Rinton Press: New Jersey) (2004), pp. 510-516.
- “Optical Afterglows of Gamma-Ray Bursts,” University of Michigan Physics Department, September 2002
- “The Future of Supernova Research,” The Hubble Legacy Workshop, University of Chicago, April 2002
- “Recent Results from the High-Z Supernova Search,” Dark Matter 2002, 5th International UCLA Symposium, Los Angeles, February 2002
- “Dark Energy Now!,” Dark Energy Workshop, University of Chicago, December 2001
- “The Hubble Constant, Matter Density and Dark Energy,” Snowmass 2001 - Future of Particle Physics, ‘Fundamental Cosmological Parameters,’ August 2001
- “Supernovae Near and Far,” Kent State University Physics Department, February 2001

- "Supernovae and the Content of the Universe," Valparaiso University Physics Department, October 2000
- "Properties of the Dark Energy," International Astronomical Union Symposium 201, 'New Cosmological Data and the Values of the Fundamental Parameters,' Manchester, England, August 2000
- "The Red Clump: An Improved Distance Indicator," International Astronomical Union Joint Discussion, 'The Distance Scale,' Manchester, England, August 2000
- "Supernovae and the Fate of the Universe," Ball State University Physics Department, December 2000
- "The Fate of the Universe," P. Garnavich, Royal Canadian Institute, Winter Lecture Series, February 1999
- "The Search for High Redshift Supernovae," P. Garnavich, *Astronomical Data and Analysis Software and Systems 1998*, University of Illinois, November 1998
- "Supernovae and the Fate of the Universe," P. Garnavich, Rutgers University Physics Department, September 1998
- "Birth of Supernova Remnant 1987A," G. Sonneborn, J. Pun, P. Garnavich, R. Kirshner, IAU Symposium #190, New Views of the Magellanic Clouds, held in Victoria, British Columbia, Canada, July 1998
- "Constraints on Cosmological Parameters from High Redshift Supernovae," P. Garnavich, Dartmouth College Department of Physics and Astronomy, March 1998
- "Peculiar Type Ia Supernovae," P. Garnavich, *Supernova Explosions: Their Causes and Consequences*, Institute for Theoretical Physics, U.C. Santa Barbara, August 1997
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- "The Type-II Supernova 1995I," P. Garnavich, P. Challis and R. Kirshner, *I.A.U. Circular*, 6158, 1995.
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- "Early Spectra of Nova Cygni 1992," P. Garnavich, *I.A.U. Circular*, 5457, 1992.
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"Discovery of a New Minor Planet 1982 KF4," P. Garnavich, *Minor Planet Circular*, 9270, 1984.

"Prediscovery Observations of Nova Cygni 1975," P. Garnavich, *I.A.U. Circular*, 2826, 1975.

"Prediscovery Observations of Nova Scuti 1975," P. Garnavich, *I.A.U. Circular*, 2792, 1975.

## Other Notable Contributions

### Public Outreach

WSBT Television live interview during total lunar eclipse, August 2007

Presenter and program developer for the dedication of the Digital Visualization Theater (DVT) at University of Notre Dame, August, 2006

WTRC Radio morning show, interviews about astronomy news, 2004 to present

Mars Close Approach Observatory Open House, more than 1000 people visited the observatory, August 2003

The Denver Museum of Nature and Science – consultant on planetarium and astronomy exhibit, 2001-2002.

Earth & Sky Review Committee – review draft scripts for the syndicated radio show “Earth & Sky,” 2000-present.

Popular talks: Michiana Astronomical Society, October, 2006; Northern Indiana Astronomical Group, April 2001; Michiana Astronomical Society, April 2001; South Bend Lion’s Club, January 2000; Adler Planetarium (Chicago), February 1999; Marlborough (Mass.) Rotary Club, October 1998; Harvard Observatory Public Night, April 1997.

### Press Coverage

“Weird Discovery Yields Prize”, *South Bend Tribune*, July 2007

“Hubble Image of M82”, Interview with WSBT’s Mike Collins, August 2006

“Mystery of Giant Explosions Solved”, CNN, May 2003

“Evidence of a Gamma-ray Burst-Supernova Connection,” *Los Angeles Times*, *The Economist*, *Sky & Telescope*, May 2002.

“A New Black Hole Identified,” *New York Times*, February 2001.

“Resolving a Gamma-Ray Burst with a Gravitational Microlens,” *Science*, *South Bend Tribune*, *Sky & Telescope*, September 2000.

“New Class of Powerful Supernova: Hypernova,” *New York Times*, May 1999.

“Universe to Expand Forever,” *New York Times*, *USA Today*, *Washington Post*, *The Economist*, January 1998.