

## **CURRICULUM VITA:**

**Catherine A. Pilachowski**

### **CONTACT INFORMATION**

Indiana University Bloomington  
Astronomy Dept., Swain West 319  
727 E. 3rd Street  
Bloomington, IN 47405-7105

TELEPHONE: (812) 855-6913  
FAX: (812) 855-8725  
EMAIL: [catyp@astro.indiana.edu](mailto:catyp@astro.indiana.edu)

URL: [www.astro.indiana.edu/faculty/pilachowski.shtml](http://www.astro.indiana.edu/faculty/pilachowski.shtml)

### **RESEARCH SYNOPSIS:**

*Professor Catherine A. Pilachowski investigates the evolution of stars and the chemical history of the Milky Way Galaxy from studies of chemical composition of stars and star clusters.*

### **EDUCATION**

University of Hawaii	Ph.D., Astronomy	1975
University of Hawaii	M.S., Astronomy	1973
Harvey Mudd College	B.S., Physics	1971

### **POSITIONS HELD**

Interim Dean, Indiana University Office for Women's Affairs	2007 - 2008
Astronomy Department Chair, Indiana University	2005 - 2009
Professor and Kirkwood Chair in Astronomy, Indiana University	2001 -
Deputy Director, NOAO/U.S. Gemini Program	1997 - 2001
Interim Director, Kitt Peak National Observatory	1994 - 1995
Astronomer with Tenure, National Optical Astronomy Observatory	1986 - 2001
Associate Astronomer	1982 - 1986
Support Scientist	1979 - 1982
Research Associate, University of Washington	1975 - 1979

### **FELLOWSHIPS and HONORS**

Fellow of the American Association of University Women	1974 - 1976
Phillips Lecturer, Haverford College	1992
Fellow of the American Association for the Advancement of Science	1993
Arthur Adel Award for Scientific Achievement presented by the University of Northern Arizona	1997
Elected to Phi Beta Kappa, Indiana University	2002
Inaugural Cecelia Payne Gaposchkin Lecturer, Harvard University	2002
Distinguished Scientists Lecture, Trinity University	2003
Lindsay Lecture, Goddard Space Flight Center	2004
CIC Academic Leadership Program Fellow	2005 - 2006
Carl Seyfert Lecturer, Vanderbilt University	2007
Bullitt Lecturer, University of Louisville	2008

## PROFESSIONAL SOCIETIES

American Association for the  
Advancement of Science  
American Astronomical Society  
Astronomical Society of the Pacific

Indiana Academy of Science  
International Astronomical Union  
International Dark-Sky Association

## SELECTED PROFESSIONAL SERVICE

American Astronomical Society:

- Committee on the Status of Women 1980 - 1982
  - Chair 1981 - 1982
- Nominating Committee (elected office) 1983 - 1985
  - Chair 1984
- Shapley Lecturer 1982 - 2002
- Publications Board 1989 - 1993
  - Chair (elected office) 1990 - 1993
- Council (elected office) 1997 - 2000
- President-Elect, President, and Past President 2001 - 2005
- Henry Norris Russell Lectureship Committee 2006 - 2008

Astronomical Society of the Pacific:

- Board of Directors (elected office, two terms) 1980 - 1986
- Board of Editors 1993 - 1996
- Nominating Committee 1999 - 2002

International Astronomical Union:

- Organizing Committee, Commission 37 1982 - 1988
- Vice President, Commission 37 1988 - 1991
- Organizing Committee, Commission 29 1988 - 1991
- Member, U.S. National Committee of the IAU 1999 - 2005

American Assoc. for the Adv. of Science:

- Chair, Astronomy Section (elected office) 1991 - 1992
- Nominating Committee (elected office) 1999 - 2002

WIYN Telescope Consortium Board of Directors and Secretary 1990 -1999  
NSF Advisory Committee on Astronomical Sciences 1989 -1991  
NSF Astronomy Division Visiting Committee 1996  
Hubble Postdoctoral Fellowships Review Panel 1996  
Panel Chair 2004  
Hubble Telescope TAC & Panel Chair, Cycle 9 1999  
Astronomy and Astrophysics Advisory Committee 2002 - 2006  
Board of Directors, Association of Universities for  
Research in Astronomy 2005 - 2011  
Vice Chair 2006 - 2010  
Spitzer Space Telescope Fellowship Panel Chair 2007  
Chandra Space Telescope, Chair, "Big Proposal Panel" 2008  
Renewing Small Telescopes for Astronomical Research  
(ReSTAR), Committee Chair 2007 - 2008

*Refereed papers indicated with an asterisk.*

\*W. K. Bonsack, **C. A. Pilachowski**, and S. C. Wolff (1974), "The Variations of the Magnetic Ap Star 49 Camelopardalis," *Astrophys. J.*, 187, 265.

\*W. K. Bonsack and **C. A. Pilachowski** (1974), "The Extraordinarily Slow Magnetic Variation of Gamma Equulei," *Astrophys. J.*, 190, 327.

\*S. C. Wolff, **C. A. Pilachowski**, and R. D. Wolstencroft (1974), "BD +37 1977: A Very Hot Subwarf," *Astrophys. J. Lett.*, 194, L83.

\***C. A. Pilachowski**, W. K. Bonsack, and S. C. Wolff (1974), "The Magnetic Field, Spectrum, and Light Variations of the Ap Star HD 49976," *Astron. and Astrophys.*, 37, 275.

\***C. A. Pilachowski** and W. K. Bonsack (1975), "The Effect of Line Blocking on the Light Curves of the Ap Star HR 5355 (HD 125248)," *Publ. Astron. Soc. Pac.*, 87, 221.

\***C. A. Pilachowski** (1977), "The Chemical Compositions of the Mild Barium Stars," *Astron. and Astrophys.*, 54, 465.

\***C. A. Pilachowski** (1978), "Observations of Carbon Monoxide in Metal Deficient Stars," *Publ. Astron. Soc. Pac.*, 90, 675.

\***C. A. Pilachowski** (1978) "Four-Color Photometry of Marginal Barium Stars," *Publ. Astron. Soc. Pac.*, 90, 683.

\***C. A. Pilachowski** (1978), "Observations of CO in Globular Cluster Stars," *Astrophys. J.*, 224, 412.

G. Wallerstein and **C. A. Pilachowski** (1979), "Observations of CO and O I in Stars in Globular Clusters," *Proceedings of I.A.U. Symposium No. 80, The HR Diagram: 100th Anniversary of Henry Norris Russell*, A. G. D. Philip and D. S. Hayes, ed.; Boston, D. Reidel. Pub. Co.

**C. A. Pilachowski** and W. K. Bonsack (1979), "The Clump Giants: A Spectroscopic Survey of G and K Stars in Open Clusters," *Proceedings of I.A.U. Symposium No. 80, The HR Diagram: 100th Anniversary of Henry Norris Russell*, A. G. D. Philip and D. S. Hayes, ed; Boston, D. Reidel Pub. Co.

\*G. Wallerstein, **C. A. Pilachowski**, R. Canterna, S. Baird, and D. Gerend (1979), "A Red Horizontal Branch Star in the General Field: HD 175305," *Mon. Not. Roy. Astron. Soc.*, 186, 691.

G. Wallerstein, **C. A. Pilachowski**, and E. M. Leep (1979), "Analysis of the Chemical Composition of Stars in Globular Clusters," in *Proceedings of the 22nd Liege*

Astrophysical Symposium, A. Boury, N. Grevesse, and L. Remy-Battiau, ed; Liege, University of Liege.

**C. A. Pilachowski**, C. Sneden, and R. Canterna (1980), "Chemical Compositions of Southern Globular Clusters: 47 Tucanae, NGC 3201, and NGC 6752," in *Star Clusters*, J. E. Hesser, ed., pp. 467. D. Reidel: Dordrecht.

\***C. A. Pilachowski**, R. Canterna, and G. Wallerstein (1980), "The Chemical Compositions of Stars in the Globular Cluster 47 Tucanae and the Old Disk Cluster NGC 2420," *Astrophys. J. Lett.*, 235, L21.

\***C. A. Pilachowski**, G. Wallerstein, and E. M. Leep (1980), "Chemical Composition of Stars in Globular Clusters: M5, M13, and M3," *Astrophys. J.*, 236, 508.

\*V. V. Smith, C. Sneden, and C. A. Pilachowski (1980), "A Spectrum Analysis of the Bright Barium Star Zeta Capricorni," *Publ. Astron. Soc. Pac.*, 92, 809.

\*C. Sneden, D. L. Lambert, and **C. A. Pilachowski** (1981), "A Study of CNO Elements in Barium Stars," *Astrophys. J.*, 247, 1052.

\*M. Peimbert, G. Wallerstein, and **C. A. Pilachowski** (1981), "An Upper Limit for the Deuterium Abundance in Canopus," *Astron. and Astrophys.*, 104, 72.

\*L. A. Willson, G. Wallerstein, and **C. A. Pilachowski** (1982), "Atmospheric Kinematics of High Velocity Long Period Variables," *Mon. Not. Roy. Astron. Soc.*, 198, 483.

**C. A. Pilachowski**, C. Sneden, and E. M. Green (1982), "The Chemical Composition of Globular Clusters Near the Galactic Center," in *Astrophysical Parameters for Globular Clusters*, A. G. D. Philip and D. S. Hayes, ed., pp. 97. L. Davis Press: Schenectady.

D. Geisler and **C. A. Pilachowski** (1982), "The Metallicity of the Inner Halo Cluster NGC 6352," in *Astrophysical Parameters for Globular Clusters*, A. G. D. Philip and D. S. Hayes, ed., pp. 467. L. Davis Press: Schenectady.

\***C. A. Pilachowski**, G. Wallerstein, E. M. Leep, and R. C. Peterson (1982), "Abundances of the Elements in Six Stars in the Globular Cluster M22," *Astrophys. J.*, 263, 187.

\***C. A. Pilachowski**, C. Sneden, J. F. Dominy, P. Cottrell, and D. C. May (1982), "The Equivalent Width Calibration of the KPNO Echelle Spectrograph," *Publ. Astron. Soc. Pac.*, 94, 1029.

\***C. A. Pilachowski**, C. Sneden, and G. Wallerstein (1983), "The Chemical Composition of Stars in Globular Clusters," *Astrophys. J. Suppl.*, 52, 241.

\***C. A. Pilachowski** and C. Sneden (1983), "The Chemical Composition of NGC 288," *Publ. Astron. Soc. Pac.*, 95, 229.

\***C. A. Pilachowski**, G. Bothun, E. Olszewski and A. Odell (1983), "The Chemical Composition of Distant Globular Clusters: Are There any Metal Poor Clusters?" *Astrophys. J.*, 273, 187.

\***C. A. Pilachowski** , E. Olszewski and A. Odell (1983), "The Abundance of Metals in the Globular Cluster M71," Publ. Astron. Soc. Pac., 95, 713.

\*R. Gratton, **C. A. Pilachowski** and C. Sneden (1984), "H-alpha Emission in Old Giants," Astronomy and Astrophysics, 132, 11.

\***C. A. Pilachowski** (1984), "The Chemical Composition of Globular Clusters: Global Trends," Astrophys. J., 281, 614.

\*C. Sneden and **C. A. Pilachowski** (1984), "High-Resolution CO Observations of Weak G-Band Stars," Publ. Astron. Soc. Pac., 96, 38.

\*H. C. Harris and **C. A. Pilachowski** (1984), "Abundances of Distant Classical Cepheid Variables," Astrophys. J., 282, 655.

\*G. Wallerstein, **C. A. Pilachowski** and H. C. Harris (1984), "A Search for Evidence of the Neon-Sodium Cycle in the Cepheid, X Cygni," Publ. Astron. Soc. Pac., 96, 613.

\***C. A. Pilachowski** , J. Mould and M. Siegel (1984), "The Abundance of Lithium in the Old Galactic Cluster NGC 7789," Astrophys. J. Letters, 282, L17.

\***C. A. Pilachowski** and R. W. Milkey (1984), "The Rotational Velocities of White Dwarfs," Publ. Astron. Soc. Pac., 96, 281.

\***C. A. Pilachowski** , C. Sneden and E. Green (1984), "The Chemical Composition of the Globular Cluster M55," Publ. Astron. Soc. Pac., 96, 586.

\*C. Sneden and **C. A. Pilachowski** (1985), "An Extremely Metal-Poor Star with r-Process Overabundances," Astrophys. J. Letters, 288, L55.

\*J. Norris and **C. A. Pilachowski** (1985), "The Sodium-Nitrogen Correlation Within Globular Clusters," Astrophys. J., 299, 295.

\*R. W. Milkey and **C. A. Pilachowski** (1985), "H-alpha Line Profiles in DA White Dwarfs," Publ. Astron. Soc. Pac., 97, 634.

\***C. A. Pilachowski** (1985), "The Abundances of Metals in the Galactic Cluster NGC 7789," Publ. Astron. Soc. Pac., 97, 801.

**C. A. Pilachowski** and C. Sneden (1985), "The Carbon Isotope Ratio in Giant Stars in the Old Galactic Cluster NGC 7789," ESO Workshop on the Production and Distribution of CNO, I. J. Danziger, F. Matteucci and K. Kjar, ed., pp. 105.

\*C. Sneden and **C. A. Pilachowski** (1986), "Carbon Isotope Ratios in Giant Stars of the Old Galactic Cluster NGC 7789," Astrophys. J., 301, 860.

\***C. A. Pilachowski** (1986), "The Abundance of Lithium in Old Galactic Clusters. I. NGC 7789," Astrophys. J., 300, 289.

\*C. Sneden, **C. A. Pilachowski** and D. A. Vandenberg (1986), "Carbon Isotope Ratios in Field Populations II Giant Stars," *Astrophys. J.*, 311, 826.

**C. A. Pilachowski** (1986), Book Review, *Science*, 232, 270. ("Cool Stars with Excesses of Heavy Elements," Ed. M. Jasniewski and P. C. Keenan, Boston: Reidel, 1985)

\*L. M. Hobbs and **C. A. Pilachowski** (1986), "Lithium in NGC 752," *Astrophys. J. Lett.*, 309, L17.

\***C. A. Pilachowski**, D. W. Willmarth, E. M. Halbedel, R. D. Mathieu, L. M. Hobbs, R. W. Milkey and A. Saha (1986), "Spectroscopic Orbital Elements for a Double-Lined Binary in NGC 752," *Publ. Astron. Soc. Pac.*, 98, 1321.

\*L. M. Hobbs and **C. A. Pilachowski** (1986), "Lithium in M67," *Astrophys. J. Lett.*, 311, L37.

**C. A. Pilachowski** (1986), "High Resolution Spectroscopy of Metal Poor Stars," in *Spectroscopic and Photometric Classification of Population II Stars*, A. G. D. Philip, ed., L. Davis Press, Schenectady, p. 3.

\***C. A. Pilachowski** and R. W. Milkey (1987), "The Rotational Velocities of White Dwarfs. II," *P.A.S.P.*, 99, 836.

\***C. A. Pilachowski**, J. Booth, and L. M. Hobbs (1987), "The Abundance of Lithium in Pleiades F Stars," *P.A.S.P.*, 99, 1288.

C. Sneden, **C. A. Pilachowski**, K. K. Gilroy, and J. J. Cowan (1988), "The Distribution of r- and s-Process Elements in the Galactic Halo," *Proceedings of I.A.U. Symposium 132: The Impact of Very High S/N Spectroscopy on Stellar Physics*, G. Cayrel de Strobel and M. Spite, (eds.), pp. 501-506.

\*K. K. Gilroy, C. Sneden, **C. A. Pilachowski**, and J. J. Cowan (1988), "Abundances of Neutron Capture Elements in Population II Stars," *Ap. J.*, 327, 298.

\***C. A. Pilachowski**, A. Saha, and L. M. Hobbs (1988), "Lithium in Giant Stars in NGC 762 and M 67," *P.A.S.P.*, 100, 474.

\*C. Sneden and **C. A. Pilachowski** (1986), "Carbon Isotope Ratios in Giant Stars of the Old Galactic Cluster NGC 7789," *Astrophys. J.*, 301, 860.

**C. A. Pilachowski** (1987), "Abundances in Cool Evolved Stars," in *Proceedings of IAU Colloq. No. 108, Atmospheric Diagnostics of Stellar Evolution: Chemical Peculiarity, Mass Loss, and Explosion*, K. Nomoto, ed. (Springer-Verlag: Berlin); p. 17.

**C. A. Pilachowski** (1987), "The Abundance of Oxygen in M92 Giants," in *Proceedings of IAU Colloq. No. 108, Atmospheric Diagnostics of Stellar Evolution: Chemical Peculiarity, Mass Loss, and Explosion*, K. Nomoto, ed. (Springer-Verlag: Berlin); p. 46.

\*L. M. Hobbs and **C. A. Pilachowski** (1988), "Lithium in an Extreme Halo Star," *Ap. J. Letters*, 326, L23.

\***C. A. Pilachowski** (1988), "The Abundance of Oxygen in M92 Giant Stars," *Ap. J. Letters*, 326, L57.

**C. A. Pilachowski** and C. Sneden (1988), "The Composition of Warm Giants in M 71 and M 5," *Proceedings of IAU Symposium 126: The Harlow Shapley Symposium on Globular Cluster Systems in Galaxies*, G. E. Grindlay and A.G.D. Philip (eds.); Kluwer Academic Publishers: Dordrecht; pp. 497-498.

\*L. M. Hobbs and **C. A. Pilachowski** (1988), "Lithium in Old Open Clusters: NGC 188," *Ap. J. Lett.*, 334, 734.

**C. A. Pilachowski** (1988), "High Resolution Spectroscopy: Quantitative Results and Critical Tests," in the *Proceedings of JCM 5 and CM 37/3 at the IAU General Assembly in Baltimore*, G. Cayrel de Strobel, M. Spite, and T. Lloyd Evans, eds. (Paris Observatory, Paris); p. 1.

\***C. A. Pilachowski** and L. M. Hobbs (1988), "The Abundance of Lithium in Additional F Stars in NGC 752," *P.A.S.P.*, 100, 336.

\*J. Liebert, R. A. Saffer, and **C. A. Pilachowski** (1989), "High Dispersion Observations of H-alpha in the Suspected Brown Dwarf, White Dwarf Binary System G29-38," *A. J.*, 97, 182.

\*L. M. Hobbs, I. Iben Jr., and **C. A. Pilachowski** (1989), "On Lithium Removal from G Dwarfs," *Ap. J.*, 347, 817.

\***C. A. Pilachowski**, J. L. Africano, B. D. Goodrich, and W. S. Binkert (1989), "Sky Brightness at the Kitt Peak National Observatory," *P.A.S.P.*, 101, 707.

\***C. A. Pilachowski**, L. M. Hobbs, and D. S. De Young (1989), "A Search for  ${}^6\text{Li}$  in the Galactic Halo," *Ap. J. Letters*, 345, L39.

\***C. A. Pilachowski**, D. W. Willmarth, R. D. Mathieu, J. Booth, T. Armandroff, and D. Latham (1989), "A Spectroscopic Binary Giant in the Galactic Cluster NGC 752," *P.A.S.P.*, 101, 991.

\***C. A. Pilachowski**, C. Sneden, and D. Hudek (1990), "Another Lithium Rich K Giant: HD 30328," *A. J.*, 99, 1225.

\*P. Massey, C. Gronwall, and **C. A. Pilachowski** (1990), "The Spectrum of the Kitt Peak Night Sky," *P.A.S.P.*, 102, 1046.

M. Johns and **C. A. Pilachowski** (1990), "The WIN 3.5 Meter Telescope Project," *SPIE*, 1236 (*Advanced Technology Optical Telescopes IV*), 2; L. D. Barr, ed..

\***C. A. Pilachowski** and J. Sowell (1992), "The Lithium Abundances of the Capella Giants," *A.J.*, 103, 1668.

\***C. A. Pilachowski**, C. Sneden, and J. Booth (1993), "The Abundance of Lithium in Metal-Poor Subgiant Stars," *ApJ*, 407, 699.

\*M. D. Shetrone, C. Sneden, and **C. A. Pilachowski** (1993), "Carbon Isotope Ratios and Lithium Abundances in Old Disk Giants," *PASP*, 105, 337.

\*D. R. Soderblom, **C. A. Pilachowski**, S. B. Fedele, and B. F. Jones (1993), "The Evolution of the Lithium Abundances of Solar Type Stars. II. The Ursa Major Group," *A.J.*, 105, 2299.

\***C. A. Pilachowski**, H. Dekker, K. Hinkle, R. Tull, S. Vogt, D. D. Walker, F. Diego, and R. Angel (1995), "High Resolution Spectrographs for Large Telescopes," *P.A.S.P.*, 107, 983.

**C. A. Pilachowski** and T. E. Armandroff (1996), "The Abundance of Oxygen in M13," in *Proceedings of the Formation of the Galactic Halo... Inside and Out*, ed. H. Morrison and A. Sarajedini; *A.S.P. Conf. Series*, 92, 379.

\***C. A. Pilachowski** and T. E. Armandroff (1996), "The Average Oxygen Abundance in the Globular Cluster M13," *A.J.*, 111, 1175.

\***C. A. Pilachowski**, C. Sneden, and R. P. Kraft (1996), "Sodium Abundances in Field Metal-Poor Stars," *A.J.*, 111, 1689.

\***C. A. Pilachowski**, C. Sneden, R. P. Kraft, and G. E. Langer (1996), "Proton Capture Chains in Globular Cluster Stars. I. Evidence for Deep Mixing Based on Sodium and Magnesium Abundances in M13 Giants," *A.J.*, 112, 545.

\*R. P. Kraft, C. Sneden, G. H. Smith, M. D. Shetrone, G. E. Langer, and **C. A. Pilachowski** (1996), "Proton Capture Chains in Globular Cluster Stars. II. Oxygen, Sodium, Magnesium, and Aluminum Abundances in M13 Giants Brighter than the Horizontal Branch," *A.J.*, 113, 279.

**C. A. Pilachowski** (1996), "Save Those Bits," *CCD Astronomy*, 3, No. 3, p. 50.

R. Seaman, **C. Pilachowski**, and S. Barden (1997), "Asteroseismology - Observing for a Song," in *Astronomical Data Analysis Software and Systems VI*, *A.S.P. Conference Series*, Vol. 125, 1997, Gareth Hunt and H. E. Payne, eds., p. 190.

\*R. M. Cavallo, **C. A. Pilachowski**, and R. Rebolo (1997), "Oxygen Abundances in Metal Poor Subgiant Stars from the O I Triplet," *P.A.S.P.*, 109, 226.

\***C. A. Pilachowski**, C. Sneden, K. Hinkle, and R. Joyce (1997), "Carbon Isotope Ratios from First Overtone CO Bands in Metal Poor Giants," *A.J.*, 114, 819.

**C. A. Pilachowski**, J. Barnes, and D. Bell (1998), "Observing Proposals on the Web at the National Optical Astronomy Observatories," *SPIE*, 3349, 385.

**C. A. Pilachowski** and C. Brown (1998), "New database for nighttime programs at the National Optical Astronomy Observatories," *SPIE* 3349, 301.

**C. A. Pilachowski** and M. Trueblood (1998), "Telescopes of the 21st Century," *Mercury*, 27, 10.

**C. A. Pilachowski** (1999), "Abundance Anomalies in Stars.", in the Proceedings of the 1998 STScI May Symposium Unsolved Problems in Stellar Evolution, Cambridge University Press.

**C. A. Pilachowski** and S. C. Barden (1999), "Future Prospects for Spectroscopy with Large and Small Telescopes," Proceedings of Les Rencontres de l'Observatoire; Galactic Evolution: Connecting the Distant Universe with the Local Fossil Record; Ap&SS, 265, 553.

\*A. Soderberg, **C. A. Pilachowski**, S. C. Barden, D. Willmarth, and C. Sneden (1999), "Radial Velocities of Giant Stars in Globular Clusters," PASP, 111, 1233.

J. Barnes and **C. A. Pilachowski** (1999), "Results from the NOAO Telescope Proposal Process Workshop," ASP Conf. Series, 172, 65.

\***C. A. Pilachowski**, C. Sneden, R. P. Kraft, D. Harmer, and D. Willmarth (2000), "A Survey for Enhanced Lithium in 261 Globular Cluster Giants," AJ, 119, 2895.

\*D. L. Burris, **C. A. Pilachowski**, T. E. Armandroff, C. Sneden, J. J. Cowan, and H. Roe (2000), "Neutron-Capture Elements in the Early Galaxy: Insights from a Large Sample of Metal-Poor Giants," ApJ, 544, 302.

\*C. Sneden, **C. A. Pilachowski**, and R. P. Kraft (2000), "Barium and Sodium Abundances in the Globular Clusters M15 and M92," AJ, 120, 1351.

**C. A. Pilachowski** (2001), "The Old Giants in Globular Clusters," in The Starry Universe: Cecilia Payne-Gaposchkin Centenary, L. Davis Press.

**C. A. Pilachowski** (2000), Book Review - Allen's Astrophysical Quantities, Physics Today, 53, 77.

\*M. S. Povich, M. S. Giampapa, J. A. Valenti, T. Tilleman, S. Barden, D. Deming, W. C. Livingston, and **C. Pilachowski** (2001), "Limits on Line Bisector Variability for Stars with Extrasolar Planets," A.J. 121, 1136.

\*K. Sandstrom, **C. Pilachowski**, and A. Saha (2001), "The RR Lyrae Variables in M3: I. Abundance Determinations," A.J., 122, 3212.

\*L. D. Keller, **C. A. Pilachowski**, and C. Sneden (2001), " $^{12}\text{C}/^{13}\text{C}$  in Metal-poor Field Halo Giants," A.J., 122, 2554

\*V. Smith, K. H. Hinkle, K. Cunha, B. Plez, D. L. Lambert, **C. A. Pilachowski**, B. Barbuy, J. Melendez, S. Balachandran, M. S. Bessell, D. P. Geisler, J. E. Hesser, & C. Winge (2002), "Chemical Abundances in 12 Red Giants of the Large Magellanic Cloud from High-Resolution Infrared Spectroscopy," Astronomical Journal, 124, 3241.

\*J. Truran, J. Cowan, **C. A. Pilachowski**, & C. Sneden (2002), "Probing the Neutron-Capture Nucleosynthesis History of Galactic Matter," P.A.S.P., 114, 1293.

**C. A. Pilachowski** (2002), "Astronomy: Relic of the dawn of time," *Nature*, 418, 886 (News and Views).

\***C. A. Pilachowski** & R. H. Durisen (2002), "A Graduate Seminar on Astronomical Citizenship at Indiana University," *Astronomy Education Review*, 1, Section 2; (Online journal: aer.noao.edu)

\***C. A. Pilachowski**, C. Sneden, E. Freeland, & J. Casperson (2003), "Carbon Isotope Ratios for Giants in Globular Cluster M3: The Unique Lithium-Rich Giant IV-101," *Astron. J.*, 125, 794

G. Simonelli & **C. A. Pilachowski** (2003), "*First-Year College Students' Ideas About Astronomy: A Pilot Study*," *Astronomy Education Review*, Issue 2, Volume 2:193-198 (online journal: aer.noao.edu)

\*E. D. Friel, H. R. Jacobson, E. Barrett, L. Fullton, S. C. Balachandran, & **C. A. Pilachowski** (2003), "Abundances of Red Giants in the Old Open Cluster Collinder 261," *Astron. J.*, 126, 2372

E. D. Friel, H. R. Jacobson, E. Barrett, **C. A. Pilachowski**, S. C. Balachandran, & L. Fullton (2004), "Collinder 261: Abundances in an Old Disk Cluster," *Carnegie Observatories Astrophysics Series, Vol. 4: Origin and Evolution of the Elements*; ed. A. McWilliam & M. Rauch (Pasadena: Carnegie Observatories)

S. C. Barden, **C. A. Pilachowski**, R. D. Mathieu, C. P. Deliyannis, S. Meibom, & D. Harmer (2004), "Search for Low Amplitude Stellar Motions in the Open Cluster NGC752," in proceedings of IAU Symposium 219: Stars as Suns: Activity, Evolution and Planets, held 21-25 July, 2003 in Sydney, Australia

\*R. M. Cavallo, N. B. Suntzeff, & **C. A. Pilachowski** (2004), "Hydra Observations of Aluminum Abundances in the Red Giants of the Globular Clusters M80 and NGC 6752," *Astron. J.*, 127, 3411

\*E. G. Hintz, M. D. Joner, M. Ivanushkina, & **C. A. Pilachowski** (2004), "Period Changes in the SX Phoenicis Star DY Pegasi," *PASP*, 116, 543

\*Johnson, Christian I.; Kraft, Robert P.; **Pilachowski, C. A.**; Sneden, Christopher; Ivans, Inese I.; Benman, Gabriel (2005), "A 235 Star Sample Sodium, Magnesium, and Aluminum Abundance Study in the Globular Clusters M3 (NGC 5272) and M13 (NGC 6205)," *PASP*, 117, 1308

\*Friel, Eileen D.; Jacobson, Heather R.; **Pilachowski, C.** (2005), "Abundances of Red Giants in Old Open Clusters. II. Berkeley 17," *AJ*, 129, 2725

Johnson, C. I.; Sneden, C.; **Pilachowski, C. A.**; Guntel, B.; Kraft, R. P.; Ivans, I. I. (2005), "A Large Sample Sodium and Magnesium Abundance Study in the Globular Cluster M3 (NGC 5272)," *ASPC*, 336, 331

Jacobson, H. R.; **Pilachowski, C. A.** (2005), "Infalling Planetesimals in Young Star Clusters," *ASPC*, 336, 327

Friel, E. D.; Jacobson, H. R.; **Pilachowski, C. A.** (2005), "Stellar Abundances in the Oldest Open Cluster: Berkeley 17," IAUS, 228, 397

\*Johnson, Christian I. & **Pilachowski, C. A.** 2006, "A Moderate Sample Size, Multi-element Analysis of the Globular Cluster M12 (NGC 6218)," AJ, 132, 2346.

\*Jacobson, H. R., Friel, E. D., and **Pilachowski, C. A.** 2007, "Na, Al, and O Abundances of Open Clusters NGC 7142, NGC 6939, and IC 4756," AJ, 134, 1216.

\*Roederer, I., Lawler, J. E., Sneden, C., Cowan, J. J., Sobeck, J. S., and **Pilachowski, C. A.** 2008, "Europium, Samarium, and Neodymium Isotopic Fractions in Metal-Poor Stars," ApJ, 675, 723.

\*Johnson, C. I.; **Pilachowski, C. A.**; Simmerer, J., Schwenk, D. 2008, "Fe and Al Abundances for 180 Red Giants in the Globular Cluster Omega Centauri (NGC 5139)," ApJ, 681, 1505.

\*Haynes, S., Burks, G., Johnson, C. I., **Pilachowski, C. A.** 2008, "Chemical Analysis of Five Red Giants in the Globular Cluster M10 (NGC 6254),"PASP, 120, 1097.

\*Jacobson, H. R., Friel, E. D., and **Pilachowski, C. A.** 2008, "Abundances of Red Giants in Old Open Clusters. III. NGC 7142," AJ, 135, 2341.

\*Jacobson, H. R., Friel, E. D., and **Pilachowski, C. A.** 2009, "Abundances of Red Giants in Old Open Clusters. IV. NGC 1817, NGC 1883, NGC 2141, and NGC 2158," AJ, 137, 4753

\*Johnson, C. I.; **Pilachowski, C. A.**; Rich, R. M.; Fulbright, J. P. 2009, "A Large Sample Study of Red Giants in the Globular Cluster Omega Centauri (NGC 5139)," ApJ (in press).