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**PUBLICATIONS: Laurence A. Marschall**

(Co-authors marked with an asterisk are undergraduate students)

**Books:**

*The Supernova Story*, New York, Plenum Press, 1988 (Reviews in *Nature*, 336, 291; *American Journal of Physics*, 57, 766; *American Scientist*, 77, 276; *The Atlantic*, October, 1988; *The Times of London, Higher Education Supplement*, March 3, 1989; *Sky and Telescope*, 77, 501; *Astronomy*, August, 1989; Named one of the dozen best popular astronomy books of 1988 by *Mercury*, May/June, 1989.)

*The Supernova Story*, revised edition, Princeton, Princeton University Press, 1994

*Galileo's New Universe*, Stephen P. Maran and Laurence A. Marschall, Dallas, TX: BenBella Books, 2009

*Pluto Confidential*, Laurence A. Marschall and Stephen P. Maran, Dallas, TX: BenBella Books, 2009

**Software:**

*Project CLEA Exercises*, co-authors Glenn Snyder, Michael Hayden, Richard Cooper, Mia Luehrmann, Rhonda Good. Simulations for the introductory astronomy laboratory. Distributed world-wide via website 1992-present  
<http://www.gettysburg.edu/~marschal/clea/CLEAhome.html>.

**Refereed Journals:**

\_\_\_\_\_ and Hobbs, L.M., "Interferometric Studies of Interstellar Calcium Lines", *Astrophys. Journal*, 177, 43-62 (1972).

Schaefer, E.\*, and Marschall, L., "Design and Use of a Computerized Quiz-Generating Program", *American Journal of Physics*, 48, 518-523 (1980).

\_\_\_\_\_, "Driven Portulum -- A Rolling Ball as a Simple Oscillating System", *American Journal of Physics*, 49, 557-561 (1981).

\_\_\_\_\_, van Altena, William F. and Chiu, Laing-Tai George, "Membership of the Rosette Nebula Cluster, NGC 2244", *Astron. Journal*, 87, 1497-1506 (1982).

\_\_\_\_\_, Mahon, R., and Henry, R.C., "Observations of Shadow Bands at the Total Solar Eclipse of 16 February, 1980", *Applied Optics*, 23, 4390-4393 (Dec 4, 1984).

30.11.09

- \_\_\_\_\_, and Van Altena, William F. "Membership in the Young Cluster Trumpler 37", *Astron. Journal*, 94, 71 (1987).
- \_\_\_\_\_, and Mathieu, Robert D. "Parenago 1540: A Pre-main-Sequence Double-Lined Spectroscopic Binary Near the Orion Trapezium," *Astron. Journal*, 96, 1956 (1988)
- \_\_\_\_\_, Comins, Neil F., and Karshner, Gary B., "Photometry of the Young Open Cluster Trumpler 37", *Astron. Journal*, 99, 1536 (1990).
- Fekel, F.C., and Marschall, L.A., "Chromospherically Active Stars IX. HD 33798 = V390 Aurigae: A Lithium Rich Rapidly Rotating Single Star", *Astron. Journal.*, 102, 1439 (1991).
- Ratcliff, Stephen J., Balonek, Thomas J., Marschall, Laurence A., DuPuy, David L., Pennypacker, Carlton R., Verma, Ritu\*, Alexov, Anastasia\*, and Bonney, Vivian\*, "The Measurement of Astronomical Parallaxes with CCD Imaging Cameras on Small Telescopes", *American Journal of Physics*, 61, 208 (1993).
- Schmidt, B.P., Kirshner, R.P., Schild, R., (and about 30 others, including Marschall, L.A.), "Photometric and Spectroscopic Observations of SN 1990E in NGC 1035: Observational Constraints for Models of Type II Supernovae, *Astron. Journal*, 105, 2236 (1993).
- Montgomery, K.A., Marschall, L.A., and Janes, K.A., "CCD Photometry of the Old Open Cluster, M67", *Astron. J.*, 106, 181 (1993).
- \_\_\_\_\_, Seeds, M.A., and Davis, R.J., "Radial Velocity and Light Variations of IR Cephei", *Astron. Journal*, 106, 1123 (1993).
- Prosser, C.F., Shetrone, M.D., Marilli, E., Catalano, S., Williams, S.D.\*, Backman, D.E., Laaksonen, B.D.\*, Adige, V.\*, Marschall, L.A., and Stauffer, J.R., "Rotation Periods of Open Cluster Stars. II", *Publ. Astr. Soc. Pacific*, 105, 1407 (1993).
- \_\_\_\_\_, and Hayden, M.B., "Digital Imaging in the Introductory Astronomy Course", *J. Am. Assn. of Variable Star Observers*, 22, 35 (1993)
- Prosser, C.F., Shetrone, M.D., S., Williams, S.D.\*, Backman, D.E., Laaksonen, B.D.\*, Baker, S.W.\*, Marschall, L.A., Whitney, B., Kuijken, K., and Stauffer, J.R., "Rotation Periods of Open Cluster Stars. III", *Publ. Astr. Soc. Pacific*, 107, 211 (1995).
- Richmond, M.R., Treffers, R.R., Filippenko, A.V., Van Dyk, S., Paik, Young, Marschall, L.A., Laaksonen, B.D.\*, Macintosh, B., and McLean, I.S., "UBVRI Photometry of SN1994D in NGC 4526", *Astron. Journal*, 109, 2121 (1995)

30.11.09

Allain, S., Bouvier, J., Prosser, C., Marschall, L.A., and Laaksonen, B.D.\*, "Rotational Periods and Starspot Activity of Young Solar-type Dwarfs in the Open Cluster IC4665", *Astronomy and Astrophysics*, 305, 498 (1996)

\_\_\_\_\_, Stefanik, R.P., Lacy, C.H., Torres, G., Williams, D.B., and Agerer, F., "The Eclipsing Double-lined Spectroscopic Binary System V505 Persei", *Astron. Journal*, 114, 793 (1997)

Krishnamurthi, Anita, Terndrup, D.M., Pinsonneault, M.H., Sellgren, K., Stauffer, J.R., Schild, R., Backman, D.E., Beisser, K.B.\*, Dahari, D.B.\*, Dasgupta, A.\*, Seeds, M.A., Anand, R. \*, Laaksonen, B.D.\*, Marschall, L.A., and Ramseyer, T., "New Rotation Periods in the Pleiades: Interpreting activity indicators," *Astrophysical Journal*, 493, 914 (1998)

Jha, S., Garnavich, P.M., Kirshner, R.P., Challis, P.M., Soderberg, A.M., Macri, L.M., Huchra, J. P., Barmby, P., Barton, E.J., Berlind, P., Brown, W., Caldwell, N., Calkins, M.L., Kannappan, S.J., Koranyi, D.M., Pahre, M.A., Rines, K.J., Stanek, K.Z., Stefanik, R.P., Szentgyorgi, A.H., Vaisanen, P., Wang, Z., Zajac, J, Riess, A.G., Filippenko, A.V., Li, W., Modjaz, M., Treffers, R.R., Hergenrother, C.W., Grebel, E.K., Seitzer, P., Jacoby, G.H., Benson, P.J., Rizvi, A.\*, Marschall, L.A., Goldader, J., Beasley, M., Vacca, W.D., Leibundgut, B., Spyromilio, J., Schmidt, B., and Wood, P.R., "The Type-Ia Supernova 1998bu in M96 and the Hubble Constant", *Astrophysical Journal Suppl.*, 125, 73-97 (1999)

Marschall, Laurence A., "The Universe on a Desktop: Observational Astronomy Simulations in the Instructional Laboratory", *Publications of the Astronomical Society of Australia*, 17, 134-137 (2000).

Marschall, Laurence A., Snyder, Glenn A., and Cooper, P.Richard, "A Desktop Universe for the Introductory Astronomy Laboratory", *The Physics Teacher*, 38, 536, (2000)

Torres, Guillermo, Neuhäuser, Ralph, Marschall, Laurence A., Guenther, Eike W., Latham, David W., and Stefanik, Robert P., "Radial-Velocity Survey of Members and Candidate Members of the TW Hydrae Association," *Astron. Journal*, 125, 825 (2003)

Torres, Guillermo, Mader, Jeff A., Marschall, Laurence A., Neuhäuser, Ralph, and Duffy\*, Alaine S., "Optical Photometry and X-Ray Monitoring of the "Cool Algol" BD+05°706: Determination of the Physical Properties", *Astron. Journal*, 125, 3237 (2003)

30.11.09

- Mader, Jeff A., Torres, Guillermo, Marschall, Laurence A., and Rizvi, Akbar H.\*, "Optical Photometry and Spectroscopy of the 'Cool Algol' AV Delphinus: Determination of the Physical Properties", *Astron. Journal*, 130, 234 (2005)
- Price, A.; Bissinger, R.; Laughlin, G. P.; Gary, B. L.; Vanmunster, T.; Henden, A. A.; Starkey, D. R.; Kaiser, D. H.; Holtzman, J. A.; Marschall, L. A.; Michalik, T.; Wellington, T.; Paakkonen, P. "Planetary Transits of the Trans-Atlantic Exoplanet Survey Candidate TrES-1b", *Journal of the American Association of Variable Star Observers*, 34, 17 (2005)
- Torres, Guillermo, Lacy, Claud H. Sandberg, Marschall, Laurence A., and Sheets, Holly A.\*, "The Eclipsing Binary V1061 Cygni: Confronting Stellar Evolution Models for Active and Inactive Solar-Type Stars", *Astrophys. Journal*, 640, 1018-1038 (2006)
- Morales, Juan Carlos, Torres, Guillermo, Marschall, Laurence A., and Brehm, William\*, "Absolute Dimensions of the G7+K7 Eclipsing Binary Star IM Virginis: Discrepancies with Stellar Evolution Models", *Astrophys. Journal*, 707, 671-685 (2009)

***Unrefereed Technical Articles***

- Crowner, D., and Marschall, L., "A Student Seminar on Computers and Communication", *Proceedings of Apollo Agonistes: The Humanities in a Computerized World*, Symposium at the State University of New York at Albany (1979).
- \_\_\_\_\_, "A Cosmic Clock for the Classroom", *The Physics Teacher*, 19, 185 (1981).
- \_\_\_\_\_, "An LED Meter for Photometric Use", *IAPPP Communications*, 11 (1983).
- \_\_\_\_\_, and Marschall, Emma B.\*, "Reflections in a Polished Tube", *The Physics Teacher*, 21, 105 (1983)
- \_\_\_\_\_, and Eno, Sarah C.\*, "GASP-- A User-Friendly S100 Based Photometry System", in *Microcomputers in Astronomy-II*, R.Genet, ed., Fairborn Observatory, Fairborn Ohio, (1984).
- \_\_\_\_\_, "Supernovae, Why Hunt for the Blasted Things?", in *Remote Access Automated Telescopes*, R. Genet and D. Hayes, eds., Proceedings of the 10th annual Fairborn/Smithsonian conference on automated photoelectric telescopes, Tucson, AZ, March, 1989. (1990).

30.11.09

- \_\_\_\_\_, "Astrometry", article in the *McGraw-hill Encyclopedia of Science and Technology*, 7th Edition., (1990).
- \_\_\_\_\_, Stefanik, Robert P., Nations, Harold L., Davis, Robert J., "SAO 23229: A New Double-Lined Spectroscopic Eclipsing Binary", *I.A.U. Information Bulletin on Variable Stars*, 3447, (1990).
- \_\_\_\_\_, Gauthier, C.P.\*, Nations, H.L, Taylor, B.W.\*, and Huard, T.L.\*, "Photometry of the Chromospherically Active Binary HD 197010", *I.A.U. Information Bulletin on Variable Stars*, 3633, (1991).
- Janes, K.A., Friel, E., Montgomery, K, Phelps, R., and Marschall, L., "Open Clusters as Standard Candles--The Age-Metallicity Relation and Metallicity Gradients" *Memoires della Societa Astronomica Italiana*, 63, 283 ed. Filippina Caputo (1991).
- \_\_\_\_\_, "Robotic Supernova Searches: Past, Present, and Future", in *Robotic Observatories: Present and Future*, ed by Sally Baliunas and John L. Richard, Fairborn Press, Mesa Arizona (1991) pp 191-197.
- \_\_\_\_\_, "Constants and Reference Systems", article in *The Astronomy and Astrophysics Encyclopedia*, New York: Van Nostrand Reinhold (1992)
- \_\_\_\_\_, Gauthier, Christopher P.\*, Karshner, Gary B., and Hayden, Michael B., "Astronomy in Two Climates: Gettysburg College Student Research on Campus and at the National Undergraduate Research Observatory", in *Hands-On Astronomy for Education*, Carlton Pennypacker, ed., Singapore, World Scientific, pp 93-102. (1992)
- Stefanik, R.P., Marschall, L.A., and Nations, H.L., "Spectroscopic and Photometric Studies of an X-ray Selected Sample of Chromospherically Active Binary Stars, in *Complementary Approaches to Double Star Research*, ed. by H.A. McAlister and W.I.Hartkopf, proceedings of IAU symposium 135, ASP Conference series V 32, 389-392. (1992)
- \_\_\_\_\_, Luehrmann, M., Cooper, P. M., Hayden, M.B., Snyder, G., and Good, R., "Project CLEA: Contemporary Laboratory Experiences in Astronomy", *IAPPP Communications*, 53, (1993).
- \_\_\_\_\_, G.A. Snyder, M.B. Hayden, P.R. Cooper, M.K.Luehrmann, R.F.Good, "PROJECT CLEA: Three Years of Developing Computerized Exercises for the Introductory Astronomy Laboratory", in *Astronomy Education, Current Developments, Future Coordination*, ed. John R. Percy, Astronomical Society of the Pacific Conference Series, V. 89, (1996).

30.11.09

\_\_\_\_\_, "Bringing the Moon into the Classroom" ,*The Physics Teacher*, 34, 360 (Sept 1996).

\_\_\_\_\_, "Bringing the Universe into the Laboratory: Project CLEA: Contemporary Laboratory Exercises in Astronomy" , in *New Trends in Astronomy Teaching*, ed. by L. Gouguenheim, D. McNally, and J. R. Percy, Cambridge University Press, 79-87 (1998).

Stephen P. Maran, Lynn R. Cominsky, and Laurence A. Marschall, "Astronomy and the News Media", in *Information Handling in Astronomy*, ed. by A. Heck, Kluwer Academic Publishers, 13-24 (2000)

Marschall, L.A., "Big Glass on a Silicon Chip: The CLEA Project in the 21<sup>st</sup> Century", in *The Future of Small Telescopes in the New Millenium I: Perceptions, Productivity, and Priorities*, ed. by Terry Oswalt, Kluwer Academic Publications, (2003), pp. 125-138

Eastwood, K., and Marschall, L.A., "The National Undergraduate Research Observatory", in *The Future of Small Telescopes in the New Millenium II: The Telescopes we Use*, ed. by Terry Oswalt, Kluwer Academic Publications, (2003), pp. 181-188

Stephen P. Maran, Lynn R. Cominsky and Laurence A. Marschall, "Communicating Astronomy to the Media", *Astronomy Communication*, ed. By A. Heck and C. Madsen, Kluwer Academic Publishers, 19-29.(2003).

### ***Abstracts of Papers at Meetings***

Seykora, E.J., and Marschall, L.A., "Investigations of Solar Scintillations and Eclipse Shadow Bands", *Bull. A.A.S.*, 14, 623 (abstract) (1982).

\_\_\_\_\_, Mahon, R, and Henry, R., "Shadow Band Observations at the 1980 Total Solar Eclipse", *Bull. A.A.S.*, 16, 493 (abstract) (1984).

\_\_\_\_\_, and Mathieu, Robert D. "A Pre-main-Sequence Double-Lined Binary System Near the Trapezium", *Bull. A.A.S.*, 19, 707 (abstract) (1987).

\_\_\_\_\_, Nations, Harold, and Witman, K.\*, "Spectroscopy and Photometry of the Chromospherically Active X-Ray Selected Binary HD111487", *Bull. A.A.S.*, 20, 994 (abstract), (1989).

30.11.09

- \_\_\_\_\_, Stefanik, Robert, Nations, Harold, and Karshner, Gary, "Spectroscopy and Photometry of X-Ray-Selected Chromospherically Active Binary Stars," *Bull. A.A.S.*, 21, 1083 (abstract), (1990).
- \_\_\_\_\_, G.B.Karshner, C. Gauthier\*, M.Hayden, "Out of the Cold: The Automated Photometer at the Gettysburg College Observatory", *Bull. A.A.S.*, 22, 1238 (abstract), (1991).
- Nations, H.L., Heckert, P.A., Mooney, C.B., Summers, D., Ratcliff, M.A., and Marschall, L.A., "The Bright Stellar X-ray Source HD 220140: A Nearby Naked T-Tauri Star?", *Bull. A.A.S.*, 22, 1254 (abstract), (1991).
- Montgomery, K., Marschall, L.A., and Janes, K.A., "CCD Photometry of the Old Open Cluster, M67", *Bull. A.A.S.*, 22, 1288 (abstract), (1991).
- \_\_\_\_\_, C.Gauthier\*, "Real Time Acquisition, Analysis, and Display of Photometric Data at the Gettysburg College Observatory," *Bull. A.A.S.*, 23, 874 (abstract), (1991).
- H.L. Nations, T.L. Huard\*, L.A. Marschall, C.P. Gauthier\*, B.W. Taylor\*, M.E. Divittorio "A Photometric and Spectroscopic Study of the Near-Contact Binary HD197010", *Bull. A.A.S.*, 23, 1412 (abstract), (1991).
- M.B. Hayden, L.A. Marschall, "Modernized Computer Simulations for the Introductory Astronomy Laboratory", *Bull. A.A.S.*, 23, 1438 (abstract), (1991).
- \_\_\_\_\_, M.B. Hayden, P.R. Cooper, "Incorporating CCD's into the Introductory Astronomy Laboratory", *Bull. A.A.S.*, 23, 1444 (abstract), (1991).
- \_\_\_\_\_, Hayden, M.B., Cooper, P.R., Luehrmann, M.K., Snyder, G.A., Good, R.F., and Karshner, G.B. "Project CLEA: Computerized Exercises for the Introductory Astronomy Laboratory", *Bull. A.A.S.*, 24, 1124 (abstract), (1992).
- Balonek, T.J., Marschall, L.A., DuPuy, D.L., and Ratcliff, S.J., "Transcontinental Parallax Measurements of Asteroids 1992 TB1 and 1992JB", *Bull. A.A.S.*, 24, 1126 (abstract) (1992).
- Hayden, M.B., and Marschall, L.A., "Macintosh-Based Simulations for the Introductory Astronomy Laboratory", *Bull. A.A.S.*, 24 1161, (abstract) (1992).
- Ambruster, C.W., Fekel, F.C., Brown, A., and Marschall, L., "ZAMS Stars in our Own Backyard: IUE and Coude Feed Observations of Solar Neighborhood, Pleiades-Age K Dwarfs", *Bull. A.A.S.*, 24, 1206 (abstract) (1992).

30.11.09

\_\_\_\_\_, Snyder, G.A., Luehrmann, M.K., Hayden, M.B., Good, R.F., and Cooper, P.K., "New Exercises for the Introductory Astronomy Laboratory from Project CLEA", *Bull. A.A.S.*, 25, 1430, (abstract) (1993).

\_\_\_\_\_, "Illustrating the Astronomical Point of View: Some Favorite Classroom Demonstrations", *Bull. A.A.S.*, 25, 1435, (abstract) (1993).

B.D.Laaksonen\*, W. Romanishin, and L.A. Marschall, "BVRI Photometry of Supernovae 1993G, 1994D, 1994I, 1994M, 1994S, and 1994Q", *Bull. A.A.S.*, 24, 1446 (abstract) (1994)

\_\_\_\_\_, G.A. Snyder, M.B.Hayden, M.K.Luehrmann, P.R. Cooper, R.F. Good, "A Computerized Lab Exercise in Spectral Classification from Project CLEA", *Bull. A.A.S.*, 24, 1313 (abstract) (1994)

H. L. Nations, L.A.Marschall, R.P.Stefanik, "Photometric and Spectroscopic Observations of The Newly Discovered RS CVn Binary HD80492," *Bull. A.A.S.*, 24, 1462 (abstract) (1994)

\_\_\_\_\_, P.Stine, G.A. Snyder, M.B. Hayden, M.K.Luehrmann, R.F.Good, P.R. Cooper, "The PC Redshift Survey and other Adventures in Introductory Astronomy", *Bull. A.A.S.*, 27, 856 (1995)

\_\_\_\_\_, R.P. Stefanik, C.H. Lacy, D.B. Williams, and F. Agerer, "The Eclipsing Spectroscopic Binary System V505 Persei", *Bull. A.A.S.*, 28, 920 (1996)

\_\_\_\_\_, Snyder, G.A., Good, R.F., Hayden, M.B., and Cooper, P.R., "Pulsars in a Box: A Radio Astronomy Exercise for Windows from PROJECT CLEA", *Bull. A.A.S.*, 28, 1278 (1996)

Krishnamurthi, Anita, Pinsonneault, M.H., Terndrup, D.M., Sellgren, K., Stauffer, J.R., Schild, R., Backman, D.E., Beisser, K.B.\*, Dahari, D.B.\*, Dasgupta, A.\*, Hagelgans, J.T., Seeds, M.A., Anand, R.\*, Laaksonen, B.D.\*, Marschall, L.A., and Ramseyer, T., "New Rotation Periods in the Pleiades: Interpreting activity indicators", *Bull. A.A.S.*, 29, 1338 (1997).

\_\_\_\_\_, "The Universe from 170 Meters: Observational Astronomy at Gettysburg College", *AAPT Announcer*, 27, 81, (1997)

\_\_\_\_\_, Torres, G.A., and Neuhauser, R., "The 'Cool Algol' BD+05 706: Photometric Observations of a New Eclipsing Double-Lined Spectroscopic Binary", *Bull. A.A.S.*, 30, 835 (1998)

Snyder, G.A., Marschall, L.A., Good, R.F., Hayden, M.B., and Cooper, P.R., "Tools for Astrometry: A Windows-based Research Tool for Asteroid Discovery and Measurement", *Bull. A.A.S.*, 30, 1267 (1998)

30.11.09

- \_\_\_\_\_, Snyder, G.A., Good, R.F., Hayden, M.B., and Cooper, P.R., "Desktop Parallax and Proper Motion: A Laboratory Exercise on Astrometry of Asteroids from Project CLEA", *Bull. A.A.S.*, 30, 1371 (1998)
- \_\_\_\_\_, "Simulations in the Introductory Astronomy Laboratory: Six Years of Project CLEA", *Bull. A.A.S.*, 30, 1385 (1998)
- Jha, S., Garnavich, P.M., Challis, P.M., Kirshner, R.P., Riess, A.G., Filippenko, A.V., Li, W., Modjaz, M., Treffers, R.R., Grebel, E.K., Seitzer, P., Jacoby, G.H., Benson, P.J., Rizvi, A. \*, and Marschall, L.A. "The Type-Ia Supernova 1998bu in M96 and the Hubble Constant", *Bull. A.A.S.*, 30, 1409(1998)
- G.Torres, J. Mader (CfA), L. A. Marschall (Gettysburg College), R. Neuhaeuser, (MPE, Germany), A.S. Duffy\*, (Gettysburg College "Photometric, Spectroscopic, and X-Ray analysis of the Cool Algol BD+05°706", *Bull. A.A.S.*, 32, 1478 (2000)
- G.A Snyder, L.A. Marschall, P.R. Cooper (Gettysburg College) "'The Search for Object X', a Capstone Laboratory Exercise from Project CLEA", *Bull. A.A.S.*, 32, 1558 (2000)
- C.A. GrandPre\*, D.E. Backman (Franklin and Marshall College), L.A. Marschall (Gettysburg College), J.R. Stauffer (SIRTF Science Center) "Long-term Photometric Variation of Rapidly Rotating Young Open Cluster Stars", *Bull. A.A.S.*, 33, 848 (2001)
- L.A. Marschall (Gettysburg College), J.J. Sudol (National Solar Observatory), G.A. Snyder (Gettysburg College), "SOLAR ROTATION: A Laboratory Exercise from Project CLEA and the GONG Project", *Bull. A.A.S.*, 34, 1250 (2002)
- H.A. Sheets\*, L.A. Marschall (Gettysburg College), G. Torres ( Harvard Smithsonian Center for Astrophysics), "BVRI Photometry of the Eclipsing Spectroscopic Binary V1061 Cygni", *Bull. A.A.S.*, 35, 708 (2003)
- L.V. Jones, L.A. Marschall (Gettysburg College), E. Prather ( University of Arizona), "Learner-Centered Teaching Techniques in Astronomy 101", *Bull. A.A.S.*, 35, 1242 (2003)
- M.A. Barrios\*, J.V. George\*, L.A. Marschall (Gettysburg College), "Photometry and Astrometry of Asteroids at by Gettysburg College Students at NURO", *Bull. A.A.S.*, 36, 1222 (2004)
- E.B. Bardenett, J.B. Milingo (Franklin and Marshall College), L.A. Marschall (Gettysburg College) and D. Backman (Franklin and Marshall College),

30.11.09

“Photometric Variations in Spotted Pleiades Stars as Probes of Long-Term Activity Cycles”, *Bull. A.A.S.*, 36, 1223 (2004)

L.A. Marschall and G. A. Snyder (Gettysburg College), “Virtual Educational Observatories: Project CLEA in the 21<sup>st</sup> Century”, *Bull. A.A.S.*, 36, 1244 (2004)

L.A. Marschall (Gettysburg College), “Instrumentation at the Gettysburg College Observatory---and What to Do With It”, *Bull. A.A.S.*, 36, 1621 (2004)

L.A. Marschall, G.A. Snyder (Gettysburg College), J.J. Sudol (Denison University), C. Toner (National Solar Observatory), P.R. Cooper (Gettysburg College) “Transits of Venus and Mercury: A New Computer-Based Exercise from Project CLEA”, *Bull. A.A.S.*, 37, 1261 (2005)

L.A. Marschall, G.A. Snyder, P.R. Cooper, (Gettysburg College), P. Plait, L. Cominsky, T. Graves, S. Silva, (XMM-Newton Education and Public Outreach, Sonoma State University), “Dying Stars and the Birth of the Elements: A Laboratory Exercise from Project CLEA and XMM-Newton”, *Bull. A.A.S.*, 38, 97 (2006)

J.B. Milingo (Gettysburg College), A.D. Thomson (Colorado College), P.N. Truong (Texas A&M University), L.A. Marschall (Gettysburg College), D.E. Backman (SOFIA/SETI Institute), “V-Band Photometry of BY Draconis-Type Variables; Probing Long-Term Activity Cycles in Three Pleiades Members”, *Bull. A.A.S.*, 39, 111 (2007)

Glenn Snyder, L. A. Marschall, P. R. Cooper (Gettysburg College), “HR Diagrams Of Open Clusters: A Virtual Observational Exercise From Project Clea”, *Bull. A.A.S.*, 39, 188 (2007)

Jan Paul Dabrowski (Marylhurst University), Glenn Snyder, L. A. Marschall (Gettysburg College), “Roemer Redux: A Virtual Observational Exercise on Jupiter’s Moons and the Speed of Light from Project CLEA”, *Bull. A.A.S.*, 41, 406 (2009)

### **Popular Science Articles**

\_\_\_\_\_, " A Tale of Two Eclipses", *Sky and Telescope*, 57, 116-119 (1979).

\_\_\_\_\_, Chiu, Laing-Tai George, and van Altena, William F., "Star Cluster Membership: Separating Sheep From Goats", *Sky and Telescope*, 62, 112-115 (1981).

30.11.09

- \_\_\_\_\_, "Secrets of Interstellar Clouds", *Astronomy*, October, 1982, 74-79.
- \_\_\_\_\_, "Galactic Coronae", *Astronomy*, October, 1982, 74-79.
- \_\_\_\_\_, "Astronomy and Modern Poetry", *Mercury*, 12, 41-45 (1983).
- \_\_\_\_\_, "The Digital Astronomer", *McDonald News*, 9, 3-5, August (1983).
- \_\_\_\_\_, "The Compleat Eclipse-Chaser", *The Sciences*, 23, May/June, 1983.
- \_\_\_\_\_, "Shadow Bands: Solar Eclipse Phantoms", *Sky and Telescope*, 67, 116 (1984).
- \_\_\_\_\_, "Superclusters: Giants of the Cosmos", *Astronomy*, April, 1984.
- \_\_\_\_\_, "Where's Nothing?", *McDonald News*, October, 1984.
- \_\_\_\_\_, "Exquisite Miniatures", *The Sciences*, Jan/Feb, 1985, 30-34.
- \_\_\_\_\_, "Comets and the Muse", *Mercury*, Jan/Feb, 1986.
- \_\_\_\_\_, "Bring on the Night" (essay review) *Harper's Magazine*, January, 1987, p.75.
- \_\_\_\_\_, "How to Review Science Books," *The Scientist*, March 23, 1987.
- Comins, Neil and Marschall, Laurence A., "How Spiral Galaxies Spiral", *Astronomy*, December, 1987.
- \_\_\_\_\_, "Supernova Aftermath", *Astronomy*, February, 1989, pp. 40-42.
- \_\_\_\_\_, "Update on Supernovae 1987A", in *Physics News in 1989*, New York: American Institute of Physics (1989)
- \_\_\_\_\_, "Recent Advances in Cosmology", in *Physics News in 1990*, New York: American Institute of Physics (1990)
- \_\_\_\_\_, "Private Universes", *The Sciences*, March/April, 1991, pp 46-51 (essay review).
- \_\_\_\_\_, "Astronomy, Extragalactic", in *1992 Science Year*, Chicago, World Book, Inc, pp. 246-251 (1991).
- \_\_\_\_\_, and Brecher, K., "Will Supernova 1987A Shine Again?", *Astronomy*, February, 1991, pp 30-37.

30.11.09

- \_\_\_\_\_, "New Results on the Hubble Constant", in *Physics News in 1991*, New York: American Institute of Physics, 12-13 (1992)
- \_\_\_\_\_, "Astronomy News in 1991", *World Book Year Book 1992*, pp. 74-76
- \_\_\_\_\_, "Chasing Rays", in *Air and Space Smithsonian*, August/September, 1992, pp. 22-23.
- \_\_\_\_\_, "Astronomy, Extragalactic", in *1993 Science Year*, Chicago, World Book, Inc, pp. 246-251 (1992).
- \_\_\_\_\_, "Astronomy's Most Wanted", *Air and Space Smithsonian*, October, November, 1992, p 34 (1992)
- \_\_\_\_\_, Ratcliff, S.J., and Balonek, T.J., "Parallax You Can See", *Sky and Telescope*, 84, p. 626-628 (1992).
- \_\_\_\_\_, "2 Rms Riv Vu", in *Mysteries of Life and the Universe: New Essays from America's Finest Writers on Science*, ed. by William Shore, NY, Harcourt Brace Jovanovich, pp. 292-303 (1992)
- \_\_\_\_\_, "COBE Finds New Wrinkles in the Big Bang", in *Physics News in 1992*, New York: American Institute of Physics, pp. 5-6 (1993)
- \_\_\_\_\_, "A New National Observatory", *Astronomy*, September, 1993, p. 42.
- \_\_\_\_\_, "Astronomy, Universe", in *1994 Science Year*, Chicago, World Book, Inc, pp. 246-251 (1993).
- \_\_\_\_\_, "Astronomy News in 1992", *World Book Year Book 1993*, pp. 74-76
- \_\_\_\_\_, "Cosmic Chameleon: The Supernova in M81", *Astronomy*, February, 1994, pp 40-45.
- \_\_\_\_\_, "Supernova Fever Strikes Again", in *Physics News in 1993*, New York: American Institute of Physics, pp. 4-5 (1994)
- \_\_\_\_\_, "Astronomy News in 1993", *World Book Year Book 1994*, pp. 80-81
- \_\_\_\_\_, "Virtual Professional Astronomy", *Sky and Telescope*, August, 1995, pp 92-95.
- \_\_\_\_\_, "The Secret Lives of Young Stars", *Odyssey*, September, 1995, p. 2.
- \_\_\_\_\_, "Astronomy News in 1995", *World Book Year Book 1996*, pp. 64-65

30.11.09

\_\_\_\_\_, "Measuring the Hubble Constant: The Debate Continues", in *Physics News in 1995*, New York: American Institute of Physics, pp. 8-9 (1994)

\_\_\_\_\_, "How Old is the Universe", in *1997 Science Year*, Chicago, World Book, Inc, pp. 29-41 (1996).

\_\_\_\_\_, "How to Find a Planet", *Odyssey*, November, 1996, p. 8.

\_\_\_\_\_, "Astronomy News in 1997", *World Book Year Book 1998*, p. 87

\_\_\_\_\_, "Planetary Prospecting", *The Sciences*, June/July, 1998 pp. 47-52 (essay review)

\_\_\_\_\_, "Astronomy News in 2000", *World Book Year Book 2001*, pp 66-67.

\_\_\_\_\_, "Books About Science", *World Book Science Year 2002*, (books of 2001), 208-209.

\_\_\_\_\_, "Astronomy News in 2001", *World Book Year Book 2002*, pp 90-91

\_\_\_\_\_, "Astronomy News in 2002", *World Book Year Book 2003*, pp 65-67

\_\_\_\_\_, "Astronomy News in 2003", *World Book Year Book 2004*, pp 62-63

Donald Goldsmith and Laurence Marschall, "NASA's Great Observatories", *World Book Science Year, 2004* pp. 64-74.

\_\_\_\_\_, "Astronomy News in 2004", *World Book Year Book 2005*, pp 60-63

\_\_\_\_\_, "Astronomy News in 2005", *World Book Year Book 2007*, pp 60-61

\_\_\_\_\_, "Astronomy News in 2006", *World Book Year Book 2007*, pp 77-78

\_\_\_\_\_, "Astronomy News in 2007", *World Book Year Book 2008*, pp 85-85

\_\_\_\_\_, "Movie Camera to the Stars", *Discover*, May, 2008 pp 64-69

Stephen P. Maran and Laurence A. Marschall, "The Moon, the Telescope, and the Birth of the Modern World", *Sky and Telescope*, 117, February 2009, pp. 28-33

Stephen P. Maran and Laurence A. Marschall, "A Time for Lunar Revelations", *StarDate*, 37, May/June 2009, pp. 6-9

## **Reviews**

- 1) Regular "Books in Brief" columns on all fields of science in the bimonthly popular journal *The Sciences*, (1984-2001) and *Natural History* (2003- ).

30.11.09

- 2) Occasional book reviews in *Discover* (2002- ).
- 3) *Astronomy--From the Earth to the Universe*, Jay Pasachoff, post-use review in *American Journal of Physics*, 51,1054-1055. (1983).
- 4) *Origins*, by Robert Shapiro, *New York Times Book Review*, January 12, 1986.
- 5) "Scientific Memoir: Variations on a Theme", review of 3 scientific autobiographies, *The Scientist*, 1, pp. 23-24 (Nov. 17,1986).
- 6) Thursday's Universe, by Marcia Bartusiak, *New York Times Book Review*, December 21, 1986.
- 7) "No Radical Excitement Offered Here", *The Scientist*, Feb.23,1987, p.23.
- 8) *Physics and Astrophysics: A Selection of Key Problems*, by V.L. Ginzburg, *American Journal of Physics*, 55, 282 (1987).
- 9) *The Analysis of Starlight*, by J.R. Hearnshaw, *American Journal of Physics*, 56, 862 (1988)
- 10) "The Dark at the Top of the Stars", review of James Trefil's *The Dark Side of the Universe*, in *Newsday*, August 28, 1988.
- 11) "Earthly Lessons from a Celestial Text", review of James Trefil's *Reading the Mind of God*, in *Newsday*, July 30, 1989.
- 12) "The Astronomers", PBS series and accompanying book by Donald Goldsmith, *Smithsonian Air and Space*, April/1991, p. 88.
- 13) *The Cosmic Water Hole*, by Emmanuel Davoust, *American Journal of Physics*, 60, 670 (1992)
- 14) "The Man Who Sold the Milky Way", by David Levy, *Smithsonian Air and Space*, Feb/Mar 1994,.
- 15) *Home is Where the Wind Blows*, by Fred Hoyle, *American Journal of Physics*, 64, 828 (1996)
- 16) *Voyages Through the Universe* by Franknoi, A., Morrison, D., and Wolff, S., in *Physics Today*, January 1998, pp. 61-62
- 17) Marschall, L.A., "Books About Science", *World Book Science Year 1999*, (1998)
- 18) Marschall, L.A. review of *Project Haystack* by THE SETI Institute, *Science Activities*, 35, p.45 (1998)

30.11.09

- 19) Review of “Cosmology: The Science of the Universe, 2<sup>nd</sup> Edition”, *American Journal of Physics*, 69,523 (April 2001)
- 20) Review of “The Universe Unveiled: Instruments and Images Through History”, in *Science Activities*, Spring 2001, p 46.

Reviews of the following books have appeared in *Sky and Telescope* on the dates indicated:

- 1) *New Frontiers in Astronomy*, ed. by Owen Gingerich, Feb., 1976.
- 2) *The Universe and Its Structure*, Beryl Clotfelter, Sept., 1976.
- 3) *Astronomy--The Evolving Universe*, Michael Zeilik, Dec., 1976.
- 4) *Introduction to Astronomy*, Ronald A. Oriti and Wm. B. Starbird, Jan., 1978.
- 5) *Discovering Astronomy*, Robert A. Chapman, Sept., 1978.
- 6) *The Big Bang*, Joseph Silk, Oct., 1980.
- 7) *From Atoms To Quarks*, James Trefil, Oct., 1981.
- 8) *Cosmology*, Edward Harrison, June, 1982.
- 9) *Horizons*, Michael Seeds, August, 1982.
- 10) *The Nature of Matter*, ed. J. Mulvey, Dec., 1982.
- 11) *Searching Between the Stars*, Lyman Spitzer, J., May, 1983.
- 12) *Exploration of the Universe*, 4th ed., George Abell, Nov., 1983.
- 13) *Frame of the Universe*, Frank Durham and Robert D. Purrington, April, 1984.
- 14) *The New Atlas of the Universe*, Patrick Moore, June, 1985.
- 15) *Astronomy: From Stonehenge to Quasars*, Michael W. Friedlander, Dec., 1985.
- 16) *Constructing the Universe*, David Layzer, April, 1986.
- 17) *The Universe...And Beyond*, Terence Dickinson, July, 1987.
- 18) *Hands-On Astrophysics*, AAVSO, January, 1999

Reviews of the following books have appeared in *American Scientist* in the issues indicated:

- 1) *Violent Phenomena in the Universe*, Jayant Narlikar, May/June, 1983.
- 2) *Understanding the Universe*, ed. by R.W. West, Sept/Oct, 1984.
- 3) *Total Eclipses of the Sun*, Jack Zirker, Jan/Feb, 1985.
- 4) *Fundamental Astronomy and Solar System Astrophysics*, R.L. Duncombe, J.H. Lieske, and P.K. Seidelmann, eds., May/June, 1988.
- 5) *Stars, Nebulae, and the Interstellar Medium*, C.R. Kitchin, July/Aug, 1988.
- 6) Occasional reviews in *Science Activities*: 1984- .