

Bibliography

May 7, 2018

- Verhage, L. (1997). Flight of the Isaac Asimov, *CQ VHF*, 2(5), 4,16-20,22.
- Verhage, L. (1998). Further adventures in near space, *CQ VHF*, 3(8). 16-23.
- Verhage, L. (1998). KNSP's (almost) excellent video adventure, *Amateur Television Quarterly*, 11(4), 6-12.
- Verhage, L. (1998). KNSP flight 98D, *Amateur Television Quarterly*, 11(4), 30-33.
- Verhage, L. (1999). Ham radio ballooning in near space, *QST*, 83(1), 28-32.
- Verhage, L. (1999). Ham radio ballooning in near space, *QST*, 83(2), 47-50.
- Verhage, L. (1999). KNSP's most excellent adventure, *Amateur Television Quarterly*, 12(3), 38-39.
- Verhage, L. (1999). Asimov II. *Circuit Cellar*, 113, 34-36, 38, 40-44.
- Verhage, L. (2001). A class act. *Circuit Cellar*, 126, 20-24, 26, 27.
- Verhage, L. (2001). A near space tribute to Douglas Adams, *Mostly Harmless*, 81, 14.
- Verhage, L. (2002). Amateur near-space exploration, *Proceedings of the Space 2002 and Robotics 2002 Conference, ASCE*, 294-300.
- Verhage, L. (2002). My impressions of GPSL 2002, *Amateur Television Quarterly*, 15(4), 39-42.
- Verhage, L. (2002). My little near space, *Packet Status Register*, 85, 13-15.
- Verhage, L. (2002). Amateur near space exploration, the do-it-yourself space program, *Amateur Television Quarterly*, 15(1), 6-12.
- Verhage, L. (2003). The Great Plains Super Launch 2002, *CQ VHF*, 6(2), 6,7,72-74,76.
- Verhage, L. (2003). Out of this world, Idaho's near space program, *Idaho Magazine*, 3(1), 44-48.
- Verhage, L. (2003). The poor man's space program, *The Space Review*, October 27, 2003.
- Verhage, L. (2004). Near space, part 1, *Nuts and Volts*, 25(2), 64-69.
- Verhage, L. (2004). Near space, part 2, *Nuts and Volts*, 25(3), 62-66.
- Verhage, L. (2004). An introduction to our new column, *Nuts and Volts*, 25(4), 74-78.
- Verhage, L. (2004). Interpreting data logger outputs, *Nuts and Volts*, 25(5), 90-94.
- Verhage, L. (2004). Choosing the best loggers for your flight, *Nuts and Volts*, 25(6), 10-13.
- Verhage, L. (2004). Transistors as digital switches, *Nuts and Volts*, 25(6), 21-26.
- Verhage, L. (2004). The sky's the limit for RC, *Servo*, 2(6), 20-25.
- Verhage, L. (2004). Making a light sensor for the Hobo data logger, *Nuts and Volts*, 25(7), 20-23.
- Verhage, L. (2004). Temperature sensors for Hobo data loggers, *Nuts and Volts*, 25(8), 84-87.
- Verhage, L. (2004). Detecting cosmic rays, *Nuts and Volts*, 25(9), 94-101.
- Verhage, L. (2004). Flight of the near space pirate 2004C, *CQ VHF*, 7(4), 19-23.
- Verhage, L. (2004). History of the Great Plains Super Launch, *Amateur Television Quarterly*, 17(4), 24-27.
- Verhage, L. (2004). Keeping near spacecraft warm, *Amateur Television Quarterly*, 17(4), 28-31.

- Verhage, L. (2004). Hack a pencam for near space, *Nuts and Volts*, 25(11), 94-99.
- Verhage, L. (2004). Astronomy: the Idaho venues, *Idaho Magazine*, 4(2), 50-56.
- Verhage, L. (2004). Hacking the Cybiko for robotics, *Servo*, 2(12), 40-45.
- Verhage, L. (2005). Hack cell phone batteries for hobbyist uses, *Nuts and Volts*, 26(1), 22-25.
- Verhage, L. (2005). Modify your camera for digital control, *Nuts and Volts*, 26(3), 80-83.
- Verhage, L. (2005). Amateur near space exploration, *Proceeding of the Space Exploration 2005 Conference*, Space Engineering and Science Institute, 193-198.
- Verhage, L. (2005). Near earth asteroid micro-lander simulator, *Proceeding of the Space Exploration 2005 Conference*, Space Engineering and Science Institute, 199-209.
- Verhage, L. (2005). A thermal test chamber, *Nuts and Volts*, 26(5), 75-80.
- Verhage, L. (2005). BalloonSats, *Nuts and Volts*, 26(7), 87-96.
- Verhage, L. (2005). The NEA micro-lander, part 1, *Servo*, 3(7), 57-62.
- Verhage, L. (2005). The NEA micro-lander, part 2, *Servo*, 3(8), 44-51.
- Verhage, L. (2005). The NEA micro-lander, part 3, *Servo*, 3(9), 48-58.
- Verhage, L. (2005). The space elevator, *Nuts and Volts*, 26(9), 82-87.
- Verhage, L. (2005). The NEA micro-lander project, part 4, *Servo*, 3(10), 36-43.
- Verhage, L. (2005). The well-dressed astronaut, *Nuts and Volts*, 26(11), 68-75.
- Verhage, L. (2006). The blame it on Canada robotic arm, *Nuts and Volts*, 27(1), 84-89.
- Verhage, L. (2006). Building a racing rover, *Reflector*, 58(2), 21
- Verhage, L. (2006). A Martian near space launch, *Nuts and Volts*, 27(3), 90-95.
- Verhage, L. (2006). The BoRG, *Servo*, 4(3), 58-65.
- Verhage, L. (2006). Geiger counter telescope, part 1, *Nuts and Volts*, 27(5), 92-96.
- Verhage, L. (2006). Geiger counter telescope, part 2, *Nuts and Volts*, 27(7), 86-89.
- Verhage, L. (2006). The FITS 2005 ARHAB launch, *Amateur Television Quarterly*, 19(2), 35-37.
- Verhage, L. (2006). NearSys at Fire in the Sky 2006, *Amateur Television Quarterly*, 19(3), 26-31.
- Verhage, L. (2006). Traveling to the edge, *Mercury*, 33(4), 20-28.
- Verhage, L. (2006). Near space booms and sounds, *Nuts and Volts*, 27(9), 92-96.
- Verhage, L. (2006). The BalloonSat flight computer, *Nuts and Volts*, 27(11), 102-107.
- Verhage, L. (2006). The ACE academy, *Amateur Television Quarterly*, 19(4), 13-15.
- Verhage, L. (2006). NearSys 06C – My launch with the central Nebraska near space program (CNNSP), *Amateur Television Quarterly*, 19(4), 34-37.
- Verhage, L. (2006). They came from outer space, *Griffith Observer*, 70(12), 4-11, 14.
- Verhage, L. (2007). BalloonSats, PongSats, and the Idaho cluster bomb, *Nuts and Volts*, 28(1), 72-77.
- Verhage, L. (2007). Using Google Earth to chart a near space mission, *Nuts and Volts*, 28(3), 16-19.
- Verhage, L. (2007). 'NearSys 06D: me and PongSats. The University of Nebraska at Omaha teacher's workshop, *Amateur Television Quarterly*, 20(1), 14-17.
- Verhage, L. (2007). Charting near space flights with Google Earth, *Amateur Television Quarterly*, 20(1), 18-19.
- Verhage, L. (2007). The Near Space Ventures webpage, *Nuts and Volts*, 28(5), 86-89.
- Verhage, L. (2007). NearSys 06F, my first near space launch with the Oregon Institute of Technology, *Amateur Television Quarterly*, 20(2), 28-30.

- Verhage, L. (2007). The Great Plains Super Launch 2006, *Amateur Television Quarterly*, 20(2), 31-34.
- Verhage, L. (2007). Near space applications with the PICAXE, part 1, *Nuts and Volts*, 28(7), 22-25.
- Verhage, L. (2007). Some sensors for your BalloonSat and the Great Plains Super Launch, *Nuts and Volts*, 28(9), 20-25.
- Verhage, L. (2007). The Adler Planetarium near space launch, *Amateur Television Quarterly*, 20(3), 17-19.
- Verhage, L. (2007). The quest for sunrise, *Amateur Television Quarterly*, 20(3), 31-34.
- Verhage, L. (2007). An introduction, *The Citizen Scientist*, retrieved from <http://www.sas.org/tcs/>
- Verhage, L. (2007). Federal regulations regarding near space flights, *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2007/2007-10-05/project1/index.html.
- Verhage, L. (2007). LED based photometer, *Nuts and Volts*, 28(11), 76-81.
- Verhage, L. (2007). The poorman's space program, *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2007/2007-11-02/project1/index.html.
- Verhage, L. (2007). The poorman's space program, *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2007/2007-12-07/project1/index.html.
- Verhage, L. (2007). An intro to BalloonSat airframes, *Amateur Television Quarterly*, 20(4), 16-19.
- Verhage, L. (2008). Near space applications using the PICAXE microcontroller: part 2, *Nuts and Volts*, 29(1), 90-95.
- Verhage, L. (2008). The poorman's space program, *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2008/2008-02-01/project2/index.html.
- Verhage, L. (2008). Attending the Great Plains Super Launch 2007 with an accelerometer and a bag of potato chips, *Amateur Television Quarterly*, 21(1), 25-28.
- Verhage, L. (2008). The 2007 Spaceward games, *Nuts and Volts*, 29(3), 84-89.
- Verhage, L. (2008). Designing and constructing BalloonSat airframes (part 1), *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2008/2008-04-04/project2/index.html.
- Verhage, L. (2008). The 2007 Spaceward games: part 2, *Nuts and Volts*, 29(5), 84-87.
- Verhage, L. (2008). Designing and constructing BalloonSat airframes (part 2), *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2008/2008-05-02/project1/index.html.
- Verhage, L. (2008). The flight of NearSys 07D, *Amateur Television Quarterly*, 21(2), 32-36.
- Verhage, L. (2008). The NearSys flight computer, *Nuts and Volts*, 29(7), 62-66.
- Verhage, L. (2008). Designing near space experiments (part 1), *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2008/2008-07-04/project2/index.html.
- Verhage, L. (2008). Designing near space experiments (part 2), *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2008/2008-08-01/project2/index.html.
- Verhage, L. (2008). Making printed circuit boards at home, *Amateur Television Quarterly*, 21(3), 12-15.

- Verhage, L. (2008). Near space recovery systems: part 1, *Nuts and Volts*, 29(9), 82-87.
- Verhage, L. (2008). Designing near space experiments (part 3), *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2008/2008-09-05/project1/index.html.
- Verhage, L. (2008). Designing near space experiments (part 4), *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2008/2008-10-03/project2/index.html.
- Verhage, L. (2008). Near spacecraft recovery systems: part 2, *Nuts and Volts*, 29(11), 78-83.
- Verhage, L. (2008). Testing BalloonSats (part 1), *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2008/2008-11-07/project2/index.html.
- Verhage, L. (2008). Testing BalloonSats (part 2), *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2008/2008-12-05/project1/index.html.
- Verhage, L. (2008). Making printed circuit boards at home, part 2, *Amateur Television Quarterly*, 21(4), ??-??.
- Verhage, L. (2009). Part 1, creating workbooks using the Excel spreadsheet program, *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2009/2009-01-02/project1/index.html.
- Verhage, L. (2009). The Great Plains Super Launch 2008, *Nuts and Volts*, 30(2), 78-80.
- Verhage, L. (2009). Processing near space data, part 2. Creating charts in Excel, *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2009/2009-02-06/project1/index.html.
- Verhage, L. (2009). BalloonSat minis: one small step for a PICAXE, one giant leap for near space, *Nuts and Volts*, 30(3), 76-81.
- Verhage, L. (2009). Processing near space data, part 3. Analyzing automatic position reporting system (APRS) reports, *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2009/2009-03-06/project2/index.html.
- Verhage, L. (2009). The BalloonSat Mini, *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2009/2009-04-03/project2/index.html.
- Verhage, L. (2009). Your own micro datalogger, *Nuts and Volts*, 30(5), 80-85.
- Verhage, L. (2009). The BalloonSat Easy flight computer, part 1. Assembling the computer', *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2009/2009-05-01/project2/index.html.
- Verhage, L. (2009). The CheapBot-14 robot controller, *Servo*, 7(6), 42-46.
- Verhage, L. (2009). The BalloonSat Easy flight computer, part 2. Finalizing the computer, *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2009/2009-06-05/project2/index.html.
- Verhage, L. (2009). Global positioning system simulator for missions to near space, *Nuts and Volts*, 30(7), 82-86.
- Verhage, L. (2009). The BalloonSat Extreme, part 1. When "one experiment-one BalloonSat just isn't enough, *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2009/2009-07-03/project1/index.html.
- Verhage, L. (2009). The BalloonSat Extreme, when "one experiment-one BalloonSat just isn't enough, *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2009/2009-08-07/project1/index.html.
- Verhage, L. (2009). Accessories for the CheapBot-14, *Servo*, 7(8), 52-57.

- Verhage, L. (2009). An environmental test chamber for near space, *Nuts and Volts*, 30(9), 62-66.
- Verhage, L. (2009). Making sensors for BalloonSat flight computers (part 1), *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2009/2009-09-04/project1/index.html.
- Verhage, L. (2009). Making sensors for BalloonSat flight computers (part 2), *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2009/2009-10-02/project1/index.html.
- Verhage, L. (2009). A near space environmental test chamber update, *Nuts and Volts*, 30(11), 20-24.
- Verhage, L. (2009). The OnSet Hobo Pendant G accelerometer (part 1), *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2009/2009-10-02/project1/index.html.
- Verhage, L. (2009). A robot and its CheapBot-08 controller – part 1, *Servo*, 7(11), 48-51.
- Verhage, L. (2009). A robot and its CheapBot-08 controller – part 2, *Servo*, 7(12), 58-61.
- Verhage, L. (2009). The OnSet Hobo Pendant G accelerometer (part 2), *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2009/2009-10-02/project1/index.html.
- Verhage, L. (2010). Build a near space infrared telescope, *Nuts and Volts*, 31(1), 68-71.
- Verhage, L. (2010). Using the Vernier LabPro in a BalloonSat (part 1), *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2010/2010-01-01/project1/index.html.
- Verhage, L. (2010). Using the Vernier LabPro in a BalloonSat (part 2), *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2010/2010-02-05/project1/index.html.
- Verhage, L. (2010). The smart proximity detector, *Servo*, 8(2), 32-?
- Verhage, L. (2010). Sun sensors for data collection, *Nuts and Volts*, 31(3), 67-70.
- Verhage, L. (2010). Using the Vernier LabPro in a BalloonSat (part 3), *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2010/2010-03-05/project1/index.html.
- Verhage, L. (2010). Making the LabPro BalloonSat, *The Citizen Scientist*, retrieved from http://www.sas.org/tcs/weeklyIssues_2010/2010-04-02/project2/index.html.
- Verhage, L. (2010). Testing the complete NearSys sun sensor, *Nuts and Volts*, 31(5), 67-69.
- Verhage, L. (2010). They came from outer space, *Nuts and Volts*, 31(7), 67-71.
- Verhage, L. (2010). The Canon hacker development kit, *Nuts and Volts*, 31(9), 68-71.
- Verhage, L. (2010). HoverBot: wheels? we don't need wheels where we're going, *Servo*, 8(9), 59-63.
- Verhage, L. (2010). HoverBot: look Ma, no wheels, *Servo*, 8(10), 44-51.
- Verhage, L. (2010). HoverBot: you picked a fine time to leave me loose wheel, *Servo*, 8(11), 46-50.
- Verhage, L. (2010). The Canon hacker development kit, part 2, *Nuts and Volts*, 31(11), 68-71.
- Verhage, L. (2010). BalloonSats in teacher education, *The KATS News*, winter 2010, 8-12.

- Verhage, L. (2011). The NearSpace UltraLight, *Nuts and Volts*, 32(1), 67-71.
- Verhage, L. (2011). Cabling the NearSpace UltraLight – part 2, *Nuts and Volts*, 32(3), 67-71.
- Verhage, L. (2011). Programming the NearSpace UltraLight – part 3, *Nuts and Volts*, 32(5), 67-69.
- Verhage, L. (2011). Programming the NearSpace UltraLight – part 4, *Nuts and Volts*, 32(7), 69-71.
- Verhage, L. (2011). Programming the NearSpace UltraLight – part 5, *Nuts and Volts*, 32(9), 52-55.
- Verhage, L. (2011). An antenna for near space, *Nuts and Volts*, 32(11), 54-59.
- Verhage, L. (2012). Global positioning system simulator, version 2.0, *Nuts and Volts*, 33(1), 14-17.
- Verhage, L. (2012). Flight 100: a report and a reflection, *Nuts and Volts*, 33(3), 52-55.
- Verhage, L. (2012). Making one camera do the work of three, *Nuts and Volts*, 33(5), 58-62.
- Verhage, L. (2012). A new BalloonSat airframe design, *Nuts and Volts*, 33(7), 68-73.
- Verhage, L. (2012). BalloonSats and attitudes toward science, *Nuts and Volts*, 33(9), 14-18.
- Verhage, L. (2012). A simpler-to-make near space flight computer, *Nuts and Volts*, 33(11), 14-17.
- Verhage, L. (2012). Amateur radio as a tool for changing students' attitudes toward science, *CQ VHF*, 16(3), 42-44
- Verhage, L. (2013). Using the NearSpace simple flight computer, *Nuts and Volts*, 34(1), 72-77.
- Verhage, L. (2013). A simple airframe for a simple flight computer or near space tracker, *Nuts and Volts*, 34(3), 68-72.
- Verhage, L. (2013). LED photometers revisited, *Nuts and Volts*, 34(5), 62-64.
- Verhage, L. (2013). LED photometers revisited – part 2, *Nuts and Volts*, 34(7), 62-64.
- Verhage, L. (2013). The 2013 Great Plains Super Launch, *Nuts and Volts*, 34(9), 12-15.
- Verhage, L. (2013). A new airframe design for near spacecraft: part 1, *Nuts and Volts*, 34(11), 62-65.
- Verhage, L. (2013). Telemetry and navigation. In *The ARRL Handbook for Radio Communications 2014* (pp. 14.1-14.8). Newington, CT: ARRL
- Verhage, L. (2013). Get your robotics on!, *Servo*, 11(12), 36-40.
- Verhage, L. (2014). A new airframe design for near spacecraft: part 2 – dealing with chaos, *Nuts and Volts*, 35(1), 62-64.
- Verhage, L. (2014). A new airframe design for near spacecraft: part 3 – securing the internals, *Nuts and Volts*, 35(3), 62-65.
- Verhage, L. (2014). The robot emoticon, *Servo*, 12(4), 68-71.
- Verhage, L. (2014). A Thermometer for the Totable Thermal Vacuum Chamber, *Nuts and Volts*, 35(5), pp-pp.
- Verhage, L. (2014). The BalloonSat extreme, *Nuts and Volts*, 35(7), 62-65.
- Verhage, L. (2014). CubeSats – Part 1, *Nuts and Volts*, 35(12), 72-74.
- Verhage, L. (2015). CubeSats – Part 2: The Basic Subassemblies, *Nuts and Volts*, 36(2), 68-71.

- Verhage, L. (2015). CubeSats – Part 3: attitude and velocity, *Nuts and Volts*, 36(4), 70-73.
- Verhage, L. (2015). Near space flights as a tool for STEM education, *Packet Status Register*, 128, 7-12.
- Verhage, L. (2015). CubeSats – Part 4: some programs to launch cubesats, *Nuts and Volts*, 36(6), 68-70.
- Verhage, L. (2015). CubeSats – Part 5: designing a model cubesat for high school use, *Nuts and Volts*, 36(8), 70-74.
- Verhage, L. (2015). GPSL 2015 and my 150th near space launch, *Nuts and Volts*, 36(10), 62-65.
- Verhage, L. (2015). Telemetry and navigation. In *The ARRL Handbook for Radio Communications 2016* (pp. 14.1-14.11). Newington, CT: ARRL
- Verhage, L. (2015). Showing teachers one way to incorporate near space, *Nuts and Volts*, 36(12), 46-49.
- Verhage, L. (2016). North American – Guatemala Near Space Alliance, *Nuts and Volts*, 37(2), 52-54.
- Verhage, L. (2016). A new vision of BalloonSats, *Nuts and Volts*, 37(4), 14-17.
- Verhage, L. (2016). Supporting near space missions with quadcopters, *Nuts and Volts*, 37(6), 12-14.
- Verhage, L. (2016). Quadcopters to the (near space) rescue, *Nuts and Volts*, 37(8), 8-11.
- Verhage, L. (2016). My first near space payload to need an FAA Waiver, *Nuts and Volts*, 37(10), 48-50.
- Verhage, L. (2016). Cheap multispectral imaging for amateur science, *Nuts and Volts*, 37(12), 16-19.
- Verhage, L. (2017). Taking cheap multispectral imaging into near space, *Nuts and Volts*, 38(2), 12-15.
- Verhage, L. (2017). A BalloonSat photometer flight computer, *Nuts and Volts*, 38(4), 10-13.
- Verhage, Paul (2017). Artwork submissions, Forum 2017, Canyon County Parks, Cultural, and Natural Resources, 19 - 22
- Verhage, L. (2017). A recording weather station for near space and beyond, *Nuts and Volts*, 38(6), 54-57.
- Verhage, L. (2017). Factor controlling balloon flights and predicting balloon landing zones, *Nuts and Volts*, 38(8), 12-16.
- Verhage, L. (2017). The near space eclipse, *Nuts and Volts*, 38(10), 10-13.
- Verhage, L. (2017). An Idahoan explores the great total solar eclipse of 2017 from near space, 1859 Oregon's Magazine, Think Oregon/October 24, 2017, <https://1859oregonmagazine.com/think-oregon/idahoan-explores-great-total-solar-eclipse-2017-near-space/>
- Verhage, L. (2017). Total solar eclipse near space flight results, *Nuts and Volts*, 38(12), 48-50.
- Verhage, L. (2017). How a ham and amateur near space explorer used APRS to collect data on the August 21st solar eclipse, *Packet Status Register*, 136, 5-11.
- Verhage, L. (2018). Total solar eclipse near space flight results – part 2, *Nuts and Volts*, 39(2), 48-51.
- Verhage, L. (2018). Raspberry Pi zero flight computer, *Nuts and Volts*, 39(3), 76-79.