

**Stephen M. Pompea**

**Publications**

**Books (Authored or Edited)**


**Hands-On Optics Curriculum Book Series for NSF Hands-On Optics Project with SPIE and OSA (published by NOAO for the project)**


**Book Chapters and Contributions to Resource Books**


**CD-ROMS** (significant authorship)


5. **The Real Reasons for Seasons: Sun Earth Connections** CD-ROM, Great Explorations in Math and Science (GEMS), Lawrence Hall of Science, University of California, Berkeley, CA (2000).


**Other**


4. **S. M. Pompea**, "Inflatable Antennas in Orbit: The Effects of the Space Environment", Technical Publication MT-2, Martin Marietta Aerospace
Complete List of All Journal, Book, and Conference Proceedings
(published abstracts not included)


   [Also reprinted in *Selected Papers on Cryogenic Optical Systems*, Gerald R. Pruitt, Editor, SPIE Milestone Series, 1994.]


   [Also reprinted in *Selected Papers on Cryogenic Optical Systems*, Gerald R. Pruitt, Editor, SPIE Milestone Series, 1994.]


   [Also reprinted in *Selected Papers on Cryogenic Optical Systems*, Gerald R. Pruitt, Editor, SPIE Milestone Series, 1994.]


75. S. M. Pompea, C.E. Walker, R.T. Sparks, “Using the Hands-On Optics Terrific Telescopes Kit in the International Year of Astronomy”, Education and Public


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CONFERENCES TALKS, POSTERS, AND MAJOR WORKSHOPS
(Selected, mainly conference talks and posters. Talks are contributed unless noted as invited)


34. C. E. Walker, **S. M. Pompea**, and five others, “Astronomy Course Improvement for Faculty and Pre-service Science Teachers” American Association of Physics Teachers, Phoenix, Arizona, January 7, 1997. (National Workshop)


44. S. M. Pompea, “The Astronomy Village”, One-day Workshop at the American Association of Physics Teachers meeting, Denver, Colorado, August 12, 1997. (National Workshop)


78. C. Walker, J. Keller, and **S. M. Pompea**, Spectroscopy Workshops at the Inquiry Institute, Tucson May 29, 2002. (Workshop)


84. S. M. Pompea and C. E. Walker, “Awesome Experiments in Light and Color: Our Favorite Inquiry – Oriented Activities”. Two workshops sponsored by the Optical Society of America at the Orlando Science Center, September 28, 2002. (Workshops)


114. C. E. Walker, **S. M. Pompea** and S. Croft, “Optics Education through the Teacher Leaders in Research-Based Science Education Program,” 8th International Conference on Education and Training in Optics and Photonics, October 7, 2003, Tucson, Arizona.


118. E. G. Offerdahl, K. S. Moore, and **S. M. Pompea** “Supporting Systemic Science Reform: Collaboration to Advance Teaching Technology and Science (CATTS) and the National Optical Astronomy Observatory” American Geophysical Union Fall meeting, San Francisco, Dec. 8-12, 2003. (Poster)


137. **S. M. Pompea** and C. Walker, “Hands On Optics” Workshop, July 9-11, 2004, University of Southern California. (Workshop)


149. **S. M. Pompea** and J. Bailey, “Hands On Optics” Modules 1, 2, and 3 Workshop for Teachers in California, University of Southern California, March 5, 2005. (Workshop)

150. S. K. Croft, A. Miller, **S. M. Pompea**, C. Walker, and K. Garmany, "Teacher Leaders in Research Based Science Education". Conference on Teacher Research Experiences, University of Rhode Island, Narragansett Bay Campus, April 24-27, 2005. (Poster)


156. **S. M. Pompea**, C. E. Walker, and R. Sparks, “Hands On Optics” Modules 1, 2, and 3 Workshop for Teachers and Optics Professionals from California, Oregon, and Colorado, University of Southern California, July 29-31, 2005. (Workshop)

157. **S. M. Pompea**, C. E. Walker, and R. Sparks, “Hands On Optics” Modules 1, 2, and 3 Workshop for Teachers and Optics Professionals from California, Washington, and Maryland, Lawrence Livermore National Laboratory, August 5-7 2005. (Workshop)


242. S. K. Croft, R. Sparks, **S. M. Pompea**, “Asteroids and Earth Science” National Science Teachers National Conference, Boston, Massachusetts, March 27, 2008 (Workshop)


301. S. M. Pompea, “Knowledge and Wonder: From Hands-On Optics to Teaching with Telescopes”, Exemplary Science Program (ESP): Meeting the Reform Features from the National Science Education Standards, National Science Teachers Association, Baltimore, November 12, 2010 (Invited).


303. C. E. Walker, S. M. Pompea, R. T. Sparks, “GLOBE at Night: Raising Public Awareness and Involvement through Citizen Science”, American Geophysical


334. S. M. Pompea, “Effective Partnerships for Outreach”, SPIE Optics-Photonics Student Chapters Meeting, San Diego, August 12, 2012 (Invited)

336. C. E. Walker; L. Jensen; S. M. Pompea, “Measuring and Characterizing Sky Brightness over the Nighttime in Tucson and Surrounding Observatory Mountaintops”, American Geophysical Union, San Francisco December 6, 2012 (Poster)


345. C. E. Walker, W. T. Roddy, C. Dugan, M. Newhouse, and S. M. Pompea, “Communicating Dark Skies/Energy Education with Middle School Teachers and Students”, Communicating Astronomy with the Public conference, Warsaw, Poland, October, 2013 (Poster)


Communication Astronomical Society of the Pacific Annual Meeting, Burlingame,
California August 2-6, 2014. (Talk)

358. R. T. Sparks, **S. M. Pompea**, and C. E. Walker, “The Arizona Galileoscope
Project: A 5th Grade Rural Education Program”, American Astronomical Society,
Seattle, Washington, January 6, 2015. (Poster)

359. Z. T. Watson and **S. M. Pompea**, “Exoplanet Research at a Southwestern
Urban High School: Lessons Learned from the Tucson High Astronomy Club
Research Program, American Astronomical Society, Seattle, Washington,
January 6, 2015. (Poster)

360. C. T. Tzou, L. Conner, **S. Pompea** and M. Guthrie, “Colors of Nature:
Connecting Evolutionary Biology, Optical Science, and Arts Education to
Promote STEM-related Identity Work in Middle School Girls”, National
Association for Research in Science Teaching, Chicago, Illinois, April 11-14,
2015.

361. **S. M. Pompea** and L. D. Carsten-Conner, “Teaching Optics Concepts through
an Approach that Emphasizes the Colors of Nature”, International Conference
on Education and Training in Optics and Photonics, Bordeaux, France, July 2015
(Invited Plenary).

362. R.T. Fienberg, D.N. Arion, **S.M. Pompea**, R.T. Sparks, “The Galileoscope:
From IYA 2009 to IYL 2015 & Beyond,” 29th General Assembly of the
International Astronomical Union, Honolulu, Hawaii, August 1-14, 2015.

Plan for Workforce, Education, Public Outreach and Communications,” 29th
General Assembly of the International Astronomical Union, Honolulu, Hawaii,
August 1-14, 2015.

364. R.T. Sparks, **S.M. Pompea**, J.C. Seguel, D.A. Munizaga, L. Opazo, C.E.
Walker, R.T. Fienberg; D.N. Arion, “Using the Galileoscope in Public Outreach
Programs In the United States and Chile”, 29th General Assembly of the
International Astronomical Union, Honolulu, Hawaii, August 1-14, 2015.

365. R.T. Sparks, C.E. Walker, S.M. Pompea, “Social Media Programs at the
National Optical Astronomy,” 29th General Assembly of the International
Astronomical Union, Honolulu, Hawaii, August 1-14, 2015. (Poster)

366. C.E. Walker, **S.M. Pompea**, R.T. Sparks, “Globe at Night: From IYA2009 to
the International Year of Light 2015 and Beyond,” 29th General Assembly of the
International Astronomical Union, Honolulu, Hawaii, August 1-14, 2015.

367. C.E. Walker, D. Tellez, **S.M. Pompea**, “Dark Skies Africa: a Prototype Project
with the IAU Office of Astronomy for Development”, 29th General Assembly of
the International Astronomical Union, Honolulu, Hawaii, August 1-14, 2015.

